



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 168-2017

INSTALL CARD ACCESS AT MULTIPLE FIRE STATIONS

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 INSTALL CARD ACCESS AT MULTIPLE FIRE STATIONS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, May 12, 2017.

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. SITE INVESTIGATION

B3.1 Further to C3.1, the Contract Administrator or an authorized representative will be available at 55 Watt Street, Fire Station 2 at 9:00 a.m. on May 4, 2017 to provide Bidders access to the Site. The Site Investigation will continue onto the other locations immediately following.

B3.2 The Bidder is advised that a site visit is recommended to verify the location of all of the devices.

B3.3 The Bidder shall not be entitled to rely on any information or interpretation received at the Site investigation unless that information or interpretation is the Bidder's direct observation, or is provided by the Contract Administrator in writing.

B4. ENQUIRIES

B4.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B4.2 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 notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B4.3 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.

B4.4 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.

B4.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. CONFIDENTIALITY

B5.1 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.

B5.2 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.

B6. ADDENDA

B6.1 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.

B6.2 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.

B6.2.1 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/>

B6.2.2 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.

B6.2.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

B7. SUBSTITUTES

B7.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.

B7.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.

B7.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.

B7.4 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 Plant, Material or method 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 proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
- (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 proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.

B7.5 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.

- B7.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Bidder who requested approval of the substitute.
- B7.6.1 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.
- B7.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B7.8 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 B16.
- B7.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B8. BID COMPONENTS

- B8.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
 - (b) Form B: Prices;
- B8.2 Further to B8.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B7.
- B8.3 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.
- B8.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B8.5 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
- B8.5.1 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.
- B8.6 Bidders are advised not to include any information/literature except as requested in accordance with B8.1.
- B8.7 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 B16.1(a).
- B8.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204 949-1178.
- B8.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.

B8.8.2 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B9. BID

B9.1 The Bidder shall complete Form A: Bid, making all required entries.

B9.2 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.

B9.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B9.2.

B9.3 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.

B9.4 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.

B9.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B9.4.2 All signatures shall be original.

B9.5 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.

B10. PRICES

B10.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B10.1.1 Notwithstanding C12.2.3(c), prices on Form B: Prices shall not include the Manitoba Retail Sales Tax (MRST, also known as PST), which shall be extra where applicable.

B10.2 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.

B10.3 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B11. DISCLOSURE

B11.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full

disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.

B11.2 The Persons are:

- (a) N/A

B12. QUALIFICATION

B12.1 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; 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.

B12.2 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>

B12.3 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);

B12.4 Further to B12.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (a) Written confirmation of a safety and health certification meeting SAFE Work Manitoba's SAFE Work Certified Standard (e.g., COR™ and SECOR™) or
 - (i) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
 - (ii) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program or
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>).

B12.5 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.

B12.6 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.

B13. OPENING OF BIDS AND RELEASE OF INFORMATION

B13.1 Bids will not be opened publicly.

B13.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) 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/bidopp.asp>

B13.3 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/>

B13.4 The Bidder is advised that any information contained in any Bid may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).

B14. IRREVOCABLE BID

B14.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B14.2 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.

B15. WITHDRAWAL OF BIDS

B15.1 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.

B15.1.1 Notwithstanding C23.3, 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.

B15.1.2 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.

B15.1.3 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 B15.1.3(b), declare the Bid withdrawn.

B15.2 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 B14.2 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.

B16. EVALUATION OF BIDS

- B16.1 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 there from (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B12 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B7.
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid 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.
- B16.3 Further to B16.1(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.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B16.4.1 Further to B16.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B17. AWARD OF CONTRACT

- B17.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B17.2 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.
- B17.2.1 Without limiting the generality of B17.2, 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.
- B17.3 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 B16.
- B17.3.1 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.
- B17.4 Notwithstanding C4, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B17.5 The Contract, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Construction* 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 Construction*.

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Construction*, 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 the installation of card access equipment and devices. The installation or replacement of door hardware. Connecting the card access equipment to the City of Winnipeg network. Re-keying of door locks. Connecting the overhead doors to the card access system. All Work is to be determined by location drawings for the fire stations. All holes drilled must be filled with approved fire stop. **All equipment and Work must be installed as per manufacturers' instructions and the City of Winnipeg's standards.**

D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) "FS" means Fire Station;
- (b) "OH" means Overhead;
- (c) "CA" means Card access;

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Jim Kotz
Electronic Technologist
Telephone No. 204 918-4071
Email Address jkotz@winnipeg.caj

D4.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4.3 Bids Submissions must be submitted to the address in B8.

D5. CONTRACTOR'S SUPERVISOR

D5.1 At the pre-construction meeting, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D6. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

D6.1 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.

D6.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

- D6.3 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.
- D6.4 A Contractor who violates any provision of D6 may be determined to be in breach of Contract.

D7. NOTICES

- D7.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D7.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D7.3, D7.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D4.1.
- D7.3 Notwithstanding C21., 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
- D7.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following facsimile number:
- The City of Winnipeg
Legal Services Department
Attn: Director of Legal Services
Facsimile No.: 204 947-9155
- D7.1 Bids Submissions must not be submitted to the above facsimile numbers. Bids must be submitted in accordance with B8.**

SUBMISSIONS

D8. AUTHORITY TO CARRY ON BUSINESS

- D8.1 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.

D9. SAFE WORK PLAN

- D9.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

- D9.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Safety/default.stm>

D10. INSURANCE

- D10.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
 - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;
- D10.2 Deductibles shall be borne by the Contractor.
- D10.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than seven (7) Calendar Days from notification of the award of Contract by Purchase Order.
- D10.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D11. PERFORMANCE SECURITY

- D11.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), the Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
- (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
 - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
 - (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D11.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D11.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order and prior to the commencement of any Work on the Site.

D12. SUBCONTRACTOR LIST

D12.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.

SCHEDULE OF WORK

D13. COMMENCEMENT

D13.1 The Contractor shall not commence any Work until he/she is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.

D13.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D8;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D9;
 - (iv) evidence of the insurance specified in D10;
 - (v) the performance security specified in D11; and
 - (vi) the Subcontractor list specified in D12.
- (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.

D13.3 The Contractor shall commence the Work on the Site within seven (7) Working Days of receipt of the Purchase Order.

D13.4 The City intends to award this Contract by May 19, 2017

D13.4.1 If the actual date of award is later than the intended date, the dates specified for Critical Stages, Substantial Performance, and Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

D14. CRITICAL STAGES

D14.1 The Contractor shall achieve critical stages of the Work in accordance with the following requirements:

- (a) Fire Station 2 and Fire Station 2 must be completed by August 31, 2017.

D15. SUBSTANTIAL PERFORMANCE

D15.1 The Contractor shall achieve Substantial Performance by November 16, 2017.

D15.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D15.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D16. TOTAL PERFORMANCE

D16.1 The Contractor shall achieve Total Performance by November 30, 2017.

D16.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D16.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D17. LIQUIDATED DAMAGES

D17.1 If the Contractor fails to achieve Critical Stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Working Day for each and every Working Day following the days fixed herein for same during which such failure continues:

- (a) Critical Stage identified in D14.1(a) – One Hundred dollars (\$100.00);
- (b) Substantial Performance – One Hundred dollars (\$100.00);
- (c) Total Performance – One Hundred dollars (\$100.00).

D17.2 The amounts specified for liquidated damages in D17.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.

D17.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D18. JOB MEETINGS

D18.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.

D18.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

D19. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D19.1 Further to C6.24, the Contractor shall be the Prime Contractor and shall serve as, and have the duties of the Prime Contractor in accordance with The Workplace Safety and Health Act (Manitoba).

D20. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS

D20.1 Further to B12.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B12.4.

MEASUREMENT AND PAYMENT

D21. INVOICES

D21.1 Further to C12, the Contractor shall submit an invoice for each portion of Work performed. 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

D21.2 Invoices must clearly indicate, as a minimum:

- (a) the City's purchase order number;
- (b) date of delivery;
- (c) delivery address;
- (d) type and quantity of work performed;
- (e) the amount payable with GST and MRST shown as separate amounts; and
- (f) the Contractor's GST registration number.

D21.3 The City will bear no responsibility for delays in approval of invoices which are improperly submitted.

D21.4 Bid Submissions must not be submitted to the above facsimile number. Bids must be submitted in accordance with B8.

D22. PAYMENT

D22.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

WARRANTY

D23. WARRANTY

D23.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire two (2) years thereafter unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.

FORM H1: PERFORMANCE BOND
(See D11)

KNOW ALL MEN BY THESE PRESENTS THAT

_____ ,
(hereinafter called the "Principal"), and

_____ ,
(hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), in the sum of

_____ dollars (\$_____)

of lawful money of Canada to be paid to the Obligee, or its successors or assigns, for the payment of which sum the Principal and the Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has entered into a written contract with the Obligee for

BID OPPORTUNITY NO. 168-2017

INSTALL CARD ACCESS AT MULTIPLE FIRE STATIONS

which is by reference made part hereof and is hereinafter referred to as the "Contract".

NOW THEREFORE the condition of the above obligation is such that if the Principal shall:

- (a) carry out and perform the Contract and every part thereof in the manner and within the times set forth in the Contract and in accordance with the terms and conditions specified in the Contract;
- (b) perform the Work in a good, proper, workmanlike manner;
- (c) make all the payments whether to the Obligee or to others as therein provided;
- (d) in every other respect comply with the conditions and perform the covenants contained in the Contract; and
- (e) indemnify and save harmless the Obligee against and from all loss, costs, damages, claims, and demands of every description as set forth in the Contract, and from all penalties, assessments, claims, actions for loss, damages or compensation whether arising under "The Workers Compensation Act", or any other Act or otherwise arising out of or in any way connected with the performance or non-performance of the Contract or any part thereof during the term of the Contract and the warranty period provided for therein;

THEN THIS OBLIGATION SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety shall not, however, be liable for a greater sum than the sum specified above.

AND IT IS HEREBY DECLARED AND AGREED that the Surety shall be liable as Principal, and that nothing of any kind or matter whatsoever that will not discharge the Principal shall operate as a discharge or release of liability of the Surety, any law or usage relating to the liability of Sureties to the contrary notwithstanding.

IN WITNESS WHEREOF the Principal and Surety have signed and sealed this bond the

_____ day of _____, 20____ .

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

By: _____ (Seal)
(Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT
(PERFORMANCE SECURITY)**
(See D11)

(Date)

The City of Winnipeg
Legal Services Department
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 168-2017
INSTALL CARD ACCESS AT MULTIPLE FIRE STATIONS

Pursuant to the request of and for the account of our customer,

(Name of Contractor)

(Address of Contractor)

WE HEREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding in the aggregate

_____ Canadian dollars.

This Standby Letter of Credit may be drawn on by you at any time and from time to time upon written demand for payment made upon us by you. It is understood that we are obligated under this Standby Letter of Credit for the payment of monies only and we hereby agree that we shall honour your demand for payment without inquiring whether you have a right as between yourself and our customer to make such demand and without recognizing any claim of our customer or objection by the customer to payment by us.

The amount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon it by you or by formal notice in writing given to us by you if you desire such reduction or are willing that it be made.

Partial drawings are permitted.

We engage with you that all demands for payment made within the terms and currency of this Standby Letter of Credit will be duly honoured if presented to us at:

(Address)

and we confirm and hereby undertake to ensure that all demands for payment will be duly honoured by us.

All demands for payment shall specifically state that they are drawn under this Standby Letter of Credit.

Subject to the condition hereinafter set forth, this Standby Letter of Credit will expire on

(Date)

It is a condition of this Standby Letter of Credit that it shall be deemed to be automatically extended from year to year without amendment from the present or any future expiry date, unless at least 30 days prior to the present or any future expiry date, we notify you in writing that we elect not to consider this Standby Letter of Credit to be renewable for any additional period.

This Standby Letter of Credit may not be revoked or amended without your prior written approval.

This credit is subject to the Uniform Customs and Practice for Documentary Credit (2007 Revision), International Chamber of Commerce Publication Number 600.

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

- E1.1 These Specifications shall apply to the Work.
- E1.2 *The City of Winnipeg Standard Construction Specifications* in its entirety, whether or not specifically listed on Form B: Prices, shall apply to the Work.
- E1.2.1 *The City of Winnipeg Standard Construction Specifications* is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Spec/Default.stm>
- E1.2.2 The version in effect three (3) Business Days before the Submission Deadline shall apply.
- E1.2.3 Further to C2.4(d), Specifications included in the Bid Opportunity shall govern over *The City of Winnipeg Standard Construction Specifications*.
- E1.3 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
FS-2 (A-1)	Basement Equipment/Pipe Layout
FS-2 (A-2)	Equipment/Pipe Layout
FS-3 (A-3)	Equipment/Pipe Layout
FS-4 (A-4)	Equipment/Pipe Layout
FS-5 (A-5)	Equipment/Pipe Layout
FS-2 (B-2)	Door/Reader Layout
FS-3 (B-3)	Door/Reader Layout
FS-4 (B-4)	Door/Reader Layout
FS-5 (B-5)	Door/Reader Layout
(C-1)	Door Layout with Push Bar
(C-2)	Door Layout with Door Handle

E2. HAZARDOUS MATERIALS

- E2.1 If asbestos or other hazardous materials are encountered during the Work of the Contract, the Contractor shall stop all work and notify the Contract Administrator immediately. Removal of hazardous materials shall be dealt with by the City and the Contractor shall await further instruction by the Contract Administrator.

E3. WORK

- E3.1 The Contactor will supply and install the following cables for the devices as listed:
- E3.1.1 Man Door card access: Multi conductor cable. Honeywell Profusion Access Control Cable FT4 WG
- (a) Reader - 22/6 Shielded
 - (b) Request - to exit 22/4
 - (c) Door Contact - 22/2
 - (d) Strike - 18/2
- E3.1.2 Overhead Door Cables
- (a) Reader 22/6 Shielded FT4 Honeywell 22061109.
 - (b) Exterior OH Control Button to Card Access Cabinet - 18/4 FT4 Honeywell 21151109.

- (c) Exterior OH Control Button to Interior OH Control Button 18/4 FT4 Honeywell 21151109.

E3.1.3 Network Cable

- (a) Network Cable - CAT6 FT4 63601106 (straight through cable).

E4. MAJOR COMPONENTS OF THE WORK

E4.1 The major components of the Work are as follows:

E4.2 55 Watt Street, Fire Station 2:

- (a) The Contractor shall install card access on two man doors and three overhead doors. All man door locks (3) must be re-keyed to the City of Winnipeg's best keyway with a best core SFIC. All cables must be run inside $\frac{3}{4}$ " EMT piping unless otherwise specified. The network CAT6 cable and 120 VAC power cables can be ran in $\frac{1}{2}$ " EMT pipe. All devices must be installed as per manufacturers' instructions and in accordance with the City of Winnipeg standards.
- (b) Supply and install a 3'x4' $\frac{3}{4}$ " plywood. To be painted with fire retardant paint. Benjamin Moore Model: INSL-x LFR-110 Grey.
- (c) Install a 24"x24"x6" card access controller cabinet (supplied by the City of Winnipeg) on the plywood as instructed by the City of Winnipeg.
- (d) Supply and install an Altronix 24 VDC 8 output power supply model: eFlow 6n8. Supply, install, and connect a 120 VAC circuit from electrical panel "B" a dedicated circuit. Use breaker number 26, with a lockout disconnect switch mounted on an 1110 electrical box. Label the panel breaker and the security card access cabinet Electrical Panel B Breaker 26.
- (e) Install in the cabinet supplied by the City of Winnipeg 1 EP1502 card access controller board and 1 MR52 terminal module board. The boards are to be mounted with $\frac{1}{2}$ " standoffs. Connect 24 VDC power to the boards from output 7 and 8. Label power supply as follows: 8-EP1502 and 7-MR52. Label cabinet "Card Access System" 120 VAC from Panel B Breaker 26
- (f) Supply and install a CAT6 FT4 cable (straight through cable) from the card access cabinet to the network cabinet switch S55watt1 port 20 CAT 5E cable to be ran in $\frac{1}{2}$ " EMT pipe. Label cable "Card access". The cable must be tested and verified.
- (g) Man door 1: Front entrance. Install card access
 - (i) Remove the unican lock. Patch all holes in accordance with the City of Winnipeg standards.
 - (ii) Supply and install a Von Duprin rim exit push bar Model: Von Duprin 98 Series exit device "RX, 98, none, NL, OP, 06, No, 3', US28, RHR" with a best key core Model: SFIC small format.
 - (iii) Supply and install electronic rim mount strike. Model: Von Duprin 6300 C32D.
 - (iv) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4"square conduit electrical box with a single gang reducer and a stainless steel switch cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-1) Door Layout with Push Bar and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install a recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. The magnet must be adhered to the door with silicone.
 - (vi) Supply and install a card access reader Model: HID MultiClass SE RP15 rim mount reader. The reader is to be mounted on the exterior door frame. As per drawing label: (B-2) FS 2 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.

- (vii) Supply and install the following multi conductor cable. Make: Honeywell, Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends "DOOR 1".

E4.2.1 Man Door 2: Side Employee Entrance. Install card access.

- (i) Remove the unican lock. Patch all holes in accordance with City of Winnipeg standards.
- (ii) Supply and install a door handle Model: ND80BD Rho 626 Heavy duty storeroom lockset. Rhodes handles. Small format interchange core SFIC. 1C-6-2-626.
- (iii) Supply and install an electronic strike. Model: Von Duprin 6211 24 VDC fail secure.
- (iv) Supply and install a door latch guard. Model: Rockwood 320CL.
- (v) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4" square conduit electrical box with a single gang reducer with a stainless steel switch cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-2) Door Layout with Door Handle and in accordance with the city of Winnipeg's instructions.
- (vi) Supply and install recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. Magnet to be silicone in place
- (vii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the exterior brick. As per drawing label: (B-2) FS 2 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (viii) Supply and install the following multi conductor cable. Make: Honeywell Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends. "DOOR 2".

E4.2.2 Overhead garage doors 1, 2, and 3:

- (i) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
- (ii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTCC Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior northwest brick wall. As per drawing label: (A-2) FS 2 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-2) FS 2 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (iv) Supply and install a 1" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the 3 interior overhead door control buttons. As per drawing label: (A-2) FS 2 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 3 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 3 x 18/4 FT4 Honeywell 21151109.

E4.3 337 Des Meurons Street, Fire Station 3:

- (a) The contractor shall install card access on two man doors and three overhead doors. All man door locks (2) must be re-keyed to the City of Winnipeg's best keyway with a best core SFIC. All cables must be run inside 3/4" EMT piping unless otherwise specified. The network CAT6 cable and 120 VAC power cables can be ran in 1/2" EMT pipe. All devices

must be installed as per manufacturers' instructions and in accordance with the City of Winnipeg standards.

- (b) Supply and install a 3'x4' 3/4" plywood. To be painted with fire retardant paint. Benjamin Moore Model: INSL-x LFR-110 Grey.
- (c) Install a 24"x24"x6" card access controller cabinet (supplied by the City of Winnipeg) on the plywood as instructed by the City of Winnipeg.
- (d) Supply and install an Altronix 24 VDC 8 output power supply model: eFlow 6n8. Supply, install, and connect a 120 VAC circuit from electrical panel "B" a dedicated circuit. Use breaker number 26, with a lockout disconnect switch mounted on an 1110 electrical box. Label the panel breaker and the security card access cabinet Electrical Panel B Breaker 26.
- (e) Install in the cabinet supplied by the City of Winnipeg 1 EP1502 card access controller board and 1 MR52 terminal module board. The boards are to be mounted with 1/2" standoffs. Connect 24 VDC power to the boards from output 7 and 8. Label power supply as follows: 8-EP1502 and 7-MR52. Label cabinet "Card Access System" 120 VAC from Panel B Breaker 26
- (f) Supply and install a CAT6 FT4 cable (straight through cable) from the card access cabinet to the network cabinet switch S55watt1 port 20 CAT 5E cable to be ran in 1/2" EMT pipe. Label cable "Card access". The cable must be tested and verified.
- (g) Man door 1: Front entrance. Install card access.
 - (i) Remove the unican lock. Patch all holes in accordance with the City of Winnipeg standards.
 - (ii) Supply and install a Von Duprin rim exit push bar Model: Von Duprin 98 Series exit device "RX, 98, none, NL, OP, 06, No, 3', US28, RHR" with a best key core Model: SFIC small format.
 - (iii) Supply and install electronic rim mount strike. Model: Von Duprin 6300 C32D.
 - (iv) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4"square conduit electrical box with a single gang reducer and a stainless steel switch cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-1) Door Layout with Push Bar and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install a recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. The magnet must be adhered to the door with silicone.
 - (vi) Supply and install a card access reader Model: HID MultiClass SE RP15 rim mount reader. The reader is to be mounted on the exterior door frame. As per drawing label: (B-3) FS 3 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (vii) Supply and install the following multi conductor cable. Make: Honeywell, Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends "DOOR 1".

E4.3.1 Man Door 2: Back Employee Entrance. Install card access.

- (i) Remove the unican lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a Von Duprin rim exit push bar Model: Von Duprin 98 Series exit device "RX, 98, none, NL, OP, 06, No, 3', US28, RHR" with a best key core Model: SFIC small format.
- (iii) Supply and install electronic rim mount strike. Model: Von Duprin 6300 C32D.
- (iv) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4"square conduit electrical box with a single gang reducer and a stainless steel switch cover. The 3/4" EMT pipe is to be run from the card access

cabinet to the TRex electrical box. As per drawing label: (C-1) Door Layout with Push Bar and in accordance with the city of Winnipeg's instructions

- (v) Supply and install a recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. The magnet must be adhered to the door with silicone.
- (vi) Supply and install a card access reader Model: HID MultiClass SE RP15 rim mount reader. The reader is to be mounted on the exterior door frame. As per drawing label: (B-3) FS 3 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (vii) Supply and install the following multi conductor cable. Make: Honeywell, Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends "DOOR 2".

E4.3.2 Overhead garage doors 1.

- (i) Supply and install the following devices and cables to control the overhead door. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
- (ii) Supply and install 1 weatherproof overhead control buttons. Make: MMTc Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior east brick wall. As per drawing label: (A-3) FS 3 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-3) FS 3 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (iv) Supply and install a 3/4" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the interior overhead door control buttons. As per drawing label: (A-3) FS 3 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 1 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 1 x 18/4 FT4 Honeywell 21151109.

E4.3.3 Overhead garage doors 2 and 3.

- (i) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
- (ii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTc Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior northwest brick wall. As per drawing label: (A-3) FS 3 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-3) FS 3 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (iv) Supply and install a 1" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the 3 interior overhead door control buttons. . As per drawing label: (A-3) FS 3 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
- (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.

- b. New OH buttons to Card access cabinet - 3 x 18/4 FT4 Honeywell 21151109.
- c. New OH buttons to interior existing OH buttons - 3 x 18/4 FT4 Honeywell 21151109.

E4.4 150 Osborne Street, Fire Station 4:

- (a) The contractor shall install card access on two man doors and three overhead doors. All man door locks (2) must be re-keyed to the City of Winnipeg's best keyway with a best core SFIC. All cables must be run inside 3/4" EMT piping unless otherwise specified. The network CAT6 cable and 120 VAC power cables can be ran in 1/2" EMT pipe. All devices must be installed as per manufacturers' instructions and in accordance with the City of Winnipeg standards.
- (b) Supply and install a 3'x4' 3/4" plywood. To be painted with fire retardant paint. Benjamin Moore Model: INSL-x LFR-110 Grey.
- (c) Install a 24"x24"x6" card access controller cabinet (supplied by the City of Winnipeg) on the plywood as instructed by the City of Winnipeg.
- (d) Supply and install an Altronix 24 VDC 8 output power supply model: eFlow 6n8. Supply, install, and connect a 120 VAC circuit from electrical panel "B" a dedicated circuit. Use breaker number 26, with a lockout disconnect switch mounted on an 1110 electrical box. Label the panel breaker and the security card access cabinet Electrical Panel B Breaker 26.
- (e) Install in the cabinet supplied by the City of Winnipeg 1 EP1502 card access controller board and 1 MR52 terminal module board. The boards are to be mounted with 1/2" standoffs. Connect 24 VDC power to the boards from output 7 and 8. Label power supply as follows: 8-EP1502 and 7-MR52. Label cabinet "Card Access System" 120 VAC from Panel B Breaker 26
- (f) Supply and install a CAT6 FT4 cable (straight through cable) from the card access cabinet to the network cabinet switch S55watt1 port 20 CAT 5E cable to be ran in 1/2" EMT pipe. Label cable "Card access". The cable must be tested and verified.
- (g) **Man door 1: Front entrance.** Replace front door enclose.
- (h) Remove existing front door and enclose.
- (i) Supply and install front door enclose with the following.
 - (i) 18 gauge frames.
 - (ii) 3'0" x 6'8" hollow metal door and sidelight, 24" x 60" 1" sealed temped glass unit.
 - (iii) 3 x 41/2" x 4" non-removable pin hinges.
 - (iv) 36" white Northwood storm door.
 - (v) Grade 1 store function lever handle. Model: ND808D RHO 626 storeroom lockset. Handle Model: Sparta. With small format interchangeable core 1C 6 2 626 Best core SFIC.
 - (vi) Von Duprin electric strike model: 6211 FS 24VDC C32D.
 - (vii) Heavy-duty manual door closer. Model: LCN 4040.
- (j) Install card access.
 - (i) Supply and install electronic strike. Model: Von Duprin 6211 FS 24VDC C32D.
 - (ii) Supply and install request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4" square conduit electrical box with a single gang reducer with a stainless steel switch cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-2) Door Layout with Door Handle and in accordance with the city of Winnipeg's instructions.
 - (iii) Supply and install recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. Magnet to be silicone in place.
 - (iv) Supply and install card access reader Model: HID MultiClass SE RP15 rim mount reader. Reader to be mounted on the exterior door frame as per the city of

- Winnipeg's instructions. As per drawing label: (B-4) FS 4 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (v) Supply and install multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 WG-21955099. Label cable on both ends "DOOR 1". Cable to be ran from the card access cabinet to each card access door device: TRex, Door contact, Strike, and Card reader.
- (k) Man Door 2: Side Employee Entrance. Install card access.
- (i) Remove the unican lock. Patch all holes in accordance with City of Winnipeg standards.
 - (ii) Supply and install a door handle Model: ND80BD Rho 626 Heavy duty storeroom lockset. Rhodes handles. Small format interchange core SFIC. 1C-6-2-626.
 - (iii) Supply and install an electronic strike. Model: Von Duprin 6211 24 VDC fail secure.
 - (iv) Supply and install a door latch guard. Model: Rockwood 320CL.
 - (v) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4" square conduit electrical box with a single gang reducer with a stainless steel switch cover. The ¾" EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-2) Door Layout with Door Handle and in accordance with the city of Winnipeg's instructions.
 - (vi) Supply and install recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. Magnet to be silicone in place
 - (vii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the exterior brick. As per drawing label: (B-4) FS 4 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (viii) Supply and install the following multi conductor cable. Make: Honeywell Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends. "DOOR 2".
- (l) Overhead garage doors 1, 2, and 3: Install card access for 2 doors.
- (i) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
 - (ii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTCC Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior northwest brick wall. As per drawing label: (A-4) FS 4 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-4) FS 4 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (iv) Supply and install a 1" EMT pipe from the card access cabinet to the interior card reader junction box and a ¾" EMT piping from the interior card reader junction box to the 3 interior overhead door control buttons. As per drawing label: (A-4) FS 4 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 3 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 3 x 18/4 FT4 Honeywell 21151109.

E4.5 845 Sargent Avenue: Fire Station 5

- (a) The contractor shall install card access on two man doors and three overhead doors. All man door locks (5) must be re-keyed to the City of Winnipeg's best keyway with a best core SFIC. All cables must be run inside ¾" EMT piping unless otherwise specified. The

network CAT6 cable and 120 VAC power cables can be ran in ½” EMT pipe. All devices must be installed as per manufacturers’ instructions and in accordance with the City of Winnipeg standards.

- (b) Supply and install a 3’x4’ 3/4” plywood. To be painted with fire retardant paint. Benjamin Moore Model: INSL-x LFR-110 Grey.
- (c) Install a 24”x24”x6” card access controller cabinet (supplied by the City of Winnipeg) on the plywood as instructed by the City of Winnipeg.
- (d) Supply and install an Altronix 24 VDC 8 output power supply model: eFlow 6n8. Supply, install, and connect a 120 VAC circuit from electrical panel “B” a dedicated circuit. Use breaker number 26, with a lockout disconnect switch mounted on an 1110 electrical box. Label the panel breaker and the security card access cabinet Electrical Panel B Breaker 26.
- (e) Install in the cabinet supplied by the City of Winnipeg 1 EP1502 card access controller board and 1 MR52 terminal module board. The boards are to be mounted with ½” standoffs. Connect 24 VDC power to the boards from output 7 and 8. Label power supply as follows: 8-EP1502 and 7-MR52. Label cabinet “Card Access System” 120 VAC from Panel B Breaker 26
- (f) Supply and install a CAT6 FT4 cable (straight through cable) from the card access cabinet to the network cabinet switch S55watt1 port 20 CAT 5E cable to be ran in ½” EMT pipe. Label cable “Card access”. The cable must be tested and verified.
- (g) Man door 1: Front entrance. Install card access.
 - (i) Remove the unican lock. Patch all holes in accordance with the City of Winnipeg standards.
 - (ii) Supply and install a Von Duprin rim exit push bar Model: Von Duprin 98 Series exit device “RX, 98, none, NL, OP, 06, No, 3’, US28, RHR” with a best key core Model: SFIC small format.
 - (iii) Supply and install electronic rim mount strike. Model: Von Duprin 6300 C32D.
 - (iv) Supply and install a request to exit device. Model: Kentech TRex-XL. The TRex is to be mounted on a 4x4”square conduit electrical box with a single gang reducer and a stainless steel switch cover. The ¾” EMT pipe is to be run from the card access cabinet to the TRex electrical box. As per drawing label: (C-1) Door Layout with Push Bar and in accordance with the city of Winnipeg’s instructions.
 - (v) Supply and install a recess door contact Model: GE Sentrol 1078N with GE Sentrol 1804N rare earth door magnet. The magnet must be adhered to the door with silicone.
 - (vi) Supply and install a card access reader Model: HID MultiClass SE RP15 rim mount reader. The reader is to be mounted on the exterior door frame in accordance with the city of Winnipeg’s instructions. As per drawing label: (B-5) FS 5 Door/Reader Layout and in accordance with the city of Winnipeg’s instructions.
 - (vii) Supply and install the following multi conductor cable. Make: Honeywell, Model: Profusion Access Control Cable FT4 WG-21955099. Run the cable from the card access cabinet to the following man door devices. TRex, door contact, strike, and card reader. The cable is to be labeled on both ends “DOOR 1”.
- (h) Overhead garage doors 1 and 2.
 - (i) Supply and install the following devices and cables to control the 2 overhead doors. Connect the devices as per manufacturer’s instructions and the City of Winnipeg’s standards.
 - (ii) Supply and install 2 sets of weatherproof overhead control buttons. Make: MMTC Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior northwest brick wall. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg’s instructions.
 - (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing

- label: (B-5) FS 5 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
- (iv) Supply and install a 2" pipe from the card access cabinet to the 12"x12" card access junction box and a 3/4" EMT pipe from the (12"x12") to the 2 interior overhead door control buttons. As per drawing label: (A-5) FS 2 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 3 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 3 x 18/4 FT4 Honeywell 21151109.
- (i) Overhead garage doors 3.
- (i) Supply and install the following devices and cables to control the overhead door. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
 - (ii) Supply and install 1 weatherproof overhead control buttons. Make: MMTc Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior east brick wall. As per drawing label (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-5) FS 5 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (iv) Supply and install a 3/4" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the interior overhead door control. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 1 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 1 x 18/4 FT4 Honeywell 21151109.
- (j) Overhead garage doors 4.
- (i) Supply and install the following devices and cables to control the overhead door. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
 - (ii) Supply and install 1 weatherproof overhead control buttons. Make: MMTc Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior east brick wall. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-5) FS 5 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (iv) Supply and install a 3/4" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the interior overhead door control buttons. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 1 x 18/4 FT4 Honeywell 21151109.

- c. New OH buttons to interior existing OH buttons - 1 x 18/4 FT4 Honeywell 21151109.
- (k) Overhead garage doors 5.
- (i) Supply and install the following devices and cables to control the overhead door. Connect the devices as per manufacturer's instructions and the City of Winnipeg's standards.
 - (ii) Supply and install 1 weatherproof overhead control buttons. Make: MMTC Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior east brick wall. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (iii) Supply and install card access reader Model: HID MultiClass SE RP40 wall mount reader. Reader to be mounted on the northwest exterior brick wall. As per drawing label: (B-5) FS 5 Door/Reader Layout and in accordance with the city of Winnipeg's instructions.
 - (iv) Supply and install a 3/4" EMT pipe from the card access cabinet to the interior card reader junction box and a 3/4" EMT piping from the interior card reader junction box to the interior overhead door control buttons. As per drawing label: (A-5) FS 5 Equipment/Pipe Layout and in accordance with the city of Winnipeg's instructions.
 - (v) Supply and install the following cables:
 - a. Card reader - 22/6 Shielded FT4 Honeywell 22061109.
 - b. New OH buttons to Card access cabinet - 1 x 18/4 FT4 Honeywell 21151109.
 - c. New OH buttons to interior existing OH buttons - 1 x 18/4 FT4 Honeywell 21151109.