



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 978-2018

INSTALLATION OF CARD ACCESS AT MULTIPLE FIRE STATIONS

Note to Bidders: Please be aware of revisions to B14.4

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid	1
Form B: Prices	4

PART B - BIDDING PROCEDURES

B1. Contract Title	1
B2. Submission Deadline	1
B3. Site Investigation	1
B4. Enquiries	1
B5. Confidentiality	1
B6. Addenda	2
B7. Substitutes	2
B8. Bid Components	3
B9. Bid	4
B10. Prices	4
B11. Disclosure	5
B12. Conflict of Interest and Good Faith	5
B13. Qualification	6
B14. Opening of Bids and Release of Information	7
B15. Irrevocable Bid	7
B16. Withdrawal of Bids	7
B17. Evaluation of Bids	8
B18. Award of Contract	8

PART C - GENERAL CONDITIONS

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

PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Definitions	1
D4. Contract Administrator	1
D5. Contractor's Supervisor	1
D6. Ownership of Information, Confidentiality and Non Disclosure	2
D7. Notices	2

Submissions

D8. Authority to Carry on Business	2
D9. Safe Work Plan	3
D10. Insurance	3
D11. Contract Security	3
D12. Subcontractor List	4

Schedule of Work

D13. Commencement	4
D14. Critical Stages	5
D15. Substantial Performance	5
D16. Total Performance	5
D17. Liquidated Damages	5

Control of Work

D18. Job Meetings	5
D19. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	6
D20. The Workplace Safety and Health Act (Manitoba) – Qualifications	6

Measurement and Payment

D21. Invoices	6
---------------	---

D22. Payment	6
Warranty	
D23. Warranty	7
Form H1: Performance Bond	8
Form H2: Labour and Material Payment Bond	10
Form H3: Irrevocable Standby Letter of Credit	12
Form J: Subcontractor List	14
PART E - SPECIFICATIONS	
General	
E1. Applicable Specifications and Drawings	1
E2. Hazardous Materials	1
E3. Major Components of the Work	2

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 INSTALLATION OF CARD ACCESS AT MULTIPLE FIRE STATIONS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, February 19, 2019.

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 the Fire Station 1 65 Ellen Street. from 8:30 a.m. to 2:30 p.m. on February 4, 2019 and February 5, 2019 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 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.

B6.3 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/>

B6.4 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.

B6.5 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.

B6.6 Notwithstanding B4, enquiries related to an Addendum may be directed to the Contract Administrator indicated in D4.

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 B17.
- 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 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204-949-1178.
- B8.6.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.

- B8.7 Bidders are advised not to include any information/literature except as requested in accordance with B8.1.
- B8.8 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 B17.1(a).
- B8.8.1 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 11 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 the lump sum price in Canadian funds for the Work 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 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. CONFLICT OF INTEREST AND GOOD FAITH

B12.1 Bidders, by responding to this Bid Opportunity, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.

B12.2 Conflict of Interest means any situation or circumstance where a Bidder or employee of the Bidder proposed for the Work has:

- (a) other commitments;
- (b) relationships;
- (c) financial interests; or
- (d) involvement in ongoing litigation;

that could or would be seen to:

- (i) exercise an improper influence over the objective, unbiased and impartial exercise of the independent judgment of the City with respect to the evaluation of Bids or award of the Contract; or
- (ii) compromise, impair or be incompatible with the effective performance of a Bidder's obligations under the Contract;
- (e) has contractual or other obligations to the City that could or would be seen to have been compromised or impaired as a result of its participation in the Bid Opportunity process or the Work; or
- (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the Bid Opportunity process) of strategic and/or material relevance to the Bid Opportunity process or to the Work that is not available to other bidders and that could or would be seen to give that Bidder an unfair competitive advantage.

B12.3 In connection with its Bid, each entity identified in B12.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the Bid Opportunity process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Contract Administrator; and
- (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.

B12.4 Without limiting B12.3, the City may, in its sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in its sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Bidder to put into place such policies, procedures, measures and other safeguards as may be required by and be acceptable to the City, in its sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

- B12.5 Without limiting B12.3, and in addition to all contractual or other rights or rights at law or in equity or legislation that may be available to the City, the City may, in its sole discretion:
- (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of its employees proposed for the Work;
 - (b) require the removal or replacement of any employees proposed for the Work that has a perceived, actual or potential Conflict of Interest that the City, in its sole discretion, determines cannot be avoided or mitigated;
 - (c) disqualify a Bidder or employees proposed for the Work that fails to comply with any requirements prescribed by the City pursuant to B12.4 to avoid or mitigate a Conflict of Interest; and
 - (d) disqualify a Bidder if the Bidder, or one of its employees proposed for the Work, has a perceived, potential or actual Conflict of Interest that, in the City's sole discretion, cannot be avoided or mitigated, or otherwise resolved.
- B12.6 The final determination of whether a perceived, potential or actual Conflict of Interest exists shall be made by the City, in its sole discretion.

B13. QUALIFICATION

- B13.1 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.
- B13.2 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>
- B13.3 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);
- B13.4 Further to B13.3(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/>.

B13.5 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.

B13.6 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.

B14. OPENING OF BIDS AND RELEASE OF INFORMATION

B14.1 Bids will not be opened publicly.

B14.2 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>

B14.3 After award of Contract, the name(s) of the successful Bidder(s), their address(es) 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/>

B14.4 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).

B14.4.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Bid Submission identified by the Bidder as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

B15. IRREVOCABLE BID

B15.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B15.2 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.

B16. WITHDRAWAL OF BIDS

B16.1 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.

B16.1.1 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.

- B16.1.2 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 11 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B16.1.3 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 11 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B16.1.3(b), declare the Bid withdrawn.
- B16.2 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 B15.2 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.

B17. EVALUATION OF BIDS

- B17.1 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 B13 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B7.
- B17.2 Further to B17.1(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.
- B17.3 Further to B17.1(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.
- B17.4 Further to B17.1(c), the Total Bid Price shall be the lump sum price shown on Form B: Prices.

B18. AWARD OF CONTRACT

- B18.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B18.2 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.
- B18.2.1 Without limiting the generality of B18.2, 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.

B18.3 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 B17.

B18.3.1 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.

B18.4 Notwithstanding C4, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.

B18.5 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.

D2.2 The major components of the Work are as follows:

- (a) The installation or replacement of doors or door hardware.
- (b) Connecting the card access equipment to the City of Winnipeg network.
- (c) Re-keying of door locks.
- (d) Connecting the overhead doors to the card access system.
- (e) All holes drilled must be filled with approved fire stop.

D2.3 All Work is to be determined by location drawings for the fire stations.

D2.4 All equipment and Work shall 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 Stations;
- (b) "**OH**" means Overhead;
- (c) "**CA**" means Card access;

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Jim Kotz
Electronic Technician
Telephone No. 204 918 4071
Email Address jkotz@winnipeg

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 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:
- The City of Winnipeg
Attn: Chief Financial Officer
Office of the Chief Administrative Officer
Susan A. Thompson Building
2nd Floor, 510 Main Street
Winnipeg MB R3B 1B9
- 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 number. 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;
 - (c) all risks installation floater, carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- 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. CONTRACT SECURITY

- D11.1 If the Contract Price exceeds twenty-five thousand dollars (\$25,000.00), the Contractor shall provide and maintain contract 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; and
 - (b) a labour and material payment bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H2: Labour and Material Payment Bond), in an amount equal to fifty percent (50%) of the Contract Price; or
 - (c) 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 H3: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or

- (d) 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 contract 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 contract security.

D11.2 The Contractor shall provide the City Solicitor with the required contract 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.

D11.3 Where the Contract Security is provided in accordance with D11.1(a) and D11.1(b), the Contractor shall, as soon as practicable after entering into a contract with a Subcontractor:

- (a) give the Subcontractor written notice of the existence of the labour and material payment bond in D11.1(b); and
- (b) post a notice of the bond and/or a copy of that bond in a conspicuous location at the Site of the Work.

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.
- (c) A job briefing form completed for all workers before entry to sites.

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 February 23, 2019.

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) Total completion of the following three fire stations (fire stations 6, 7, and 8) by May 17, 2019.

D15. SUBSTANTIAL PERFORMANCE

- D15.1 The Contractor shall achieve Substantial Performance by July 12, 2019.
- 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 July 19, 2019.
- 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 - One Hundred Dollars dollars (\$100.00);
 - (b) Substantial Performance - One Hundred Dollars dollars (\$100.00);
 - (c) Total Performance - One Hundred Dollars 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 B13.4, 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 B13.4.

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. 978-2018

INSTALLATION OF 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: LABOUR AND MATERIAL PAYMENT BOND
(See D11)

KNOW ALL MEN BY THESE PRESENTS THAT

his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Principal"), and

his/its heirs, executors, administrators, successors or assigns (hereinafter called the "Surety"), are held and firmly bound unto **THE CITY OF WINNIPEG** (hereinafter called the "Obligee"), for the use and benefit of claimants as hereinbelow defined, in the amount of

_____ dollars (\$_____)

of lawful money of Canada, for the payment whereof we, the Principal and the Surety jointly and severally bind ourselves firmly by these presents.

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

BID OPPORTUNITY NO. 978-2018

INSTALLATION OF 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 promptly make payment to all claimants as hereinafter defined, for all labour, service and material used or reasonably required for use in the performance of the Contract, then this obligation shall be void, otherwise it shall remain in full force and effect subject, however, to the following conditions:

- (a) A claimant is defined as one having a direct contract with the Principal for labour, service and material, or any of them, used or reasonably required for use in the performance of the contract, labour, service and material being construed to include that part of water, gas, power, light, heat, oil, gasoline, telephone service or rental of equipment (but excluding rent of equipment where the rent pursuant to an agreement is to be applied towards the purchase price thereof) directly applicable to the Contract;
- (b) The above-named Principal and Surety hereby jointly and severally agree with the Obligee that every claimant as herein defined, who has not been paid in full before the expiration of a period of ninety (90) days after the date on which the last of such claimant's work, labour or service was done or performed, or materials were furnished by such claimant, may sue on this bond, prosecute the suit to final judgment for such sum or sums as may be justly due claimant, and have execution thereon;
- (c) No suit or action shall be commenced hereunder by any claimant
 - (i) unless claimant shall have given written notice to the Principal and the Surety above-named, within one hundred and twenty (120) days after such claimant did or performed the last of the work, labour or service, or furnished the last of the materials for which said claim is made, stating with substantial accuracy the amount claimed and the name of the party to whom the materials were furnished, or for whom the work, labour or service was done or performed. Such notice shall be served by mailing the same by registered mail to the Principal, and Surety, at any place where an office is regularly maintained for the transaction of business, or served in any manner in which legal process may be served in the Province of Manitoba;

- (ii) after the expiration of one (1) year following the date on which Principal ceased work on said Contract; including work performed under the guarantees provided in the Contract;
 - (iii) other than in a court of competent jurisdiction in the Province of Manitoba.
- (d) The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of mechanics liens which may be filed of record against said improvement, whether or not claim for the amount of such lien be presented under and against this bond.
- (e) The Surety shall not be liable for a greater sum than the specified penalty of this bond.

The Principal and Surety hereby agree that The Guarantors' Liability Act (Manitoba) shall apply to this Bond.

IN TESTIMONY WHEREOF, the Principal has hereunto set its hand affixed its seal, and the Surety has caused these presents to be sealed and with its corporate seal duly attested by the authorized signature of its signing authority this

_____ 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 H3: IRREVOCABLE STANDBY LETTER OF CREDIT
(CONTRACT SECURITY)**
(See D11)

(Date)

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

RE: CONTRACT SECURITY - BID OPPORTUNITY NO. 978-2018
INSTALLATION OF 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 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B7. In every instance where a brand name or design specification is used, the City will also consider approved equals and/or approved alternatives in accordance with B7.
- E1.4 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
	Cover Sheet
A-1	FS 1 Equipment Pipe Layout 65 Ellen Street
A-6	FS 6 Equipment Pipe Layout 603 Redwood Avenue
A-7	FS 7 Equipment Pipe Layout 10 Allan Blye Drive
A-8	FS 8 Equipment Pipe Layout 640 Kimberley Avenue
A-10	FS 10 Equipment Pipe Layout 1354 Border Street
A-16	FS 16 Equipment Pipe Layout 1001 McGregor Street
A-17	FS 17 Equipment Pipe Layout 1502 Church Avenue
A-22	FS 22 Equipment Pipe Layout 1567 Waverley Street
A-24	FS 24 Equipment Pipe Layout 1665 Rothesay Street
B-1	FS 1 Door/Reader Layout 65 Ellen Street
B-6	FS 6 Door/Reader Layout 603 Redwood Avenue
B-7	FS 7 Door/Reader Layout 10 Allan Blye Drive
B-8	FS 8 Door/Reader Layout 640 Kimberley Avenue
B-10	FS 10 Door/Reader Layout 1354 Border Street
B-16	FS 16 Door/Reader Layout 1001 McGregor Street
B-17	FS 17 Door/Reader Layout 1502 Church Avenue
B-22	FS 22 Door/Reader Layout 1567 Waverley Street
B-24	FS 24 Door/Reader Layout 1665 Rothesay Street
C-1	Door Layout Push Bar
C-2	Door Layout 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. MAJOR COMPONENTS OF THE WORK

E3.1 The major components of the Work are as follows.

E3.2 Fire Station 1, 65 Ellen Street:

- a) The Contractor shall install card access on three (3) man doors and ten (10) overhead doors. The overhead doors are controlled by five (5) card readers. All exterior man door locks including card reader doors must be 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 2 card access cabinet (supplied by the City of Winnipeg) as per drawing Panel layout Trove 2 (D-2) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (supplied by the City of Winnipeg). below the Trove 2 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical sub panel labeled "M". Use breaker #08 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 2 (D-2). Label the disconnect switch "**SUB PANEL M BREAKER 08 CARD ACCESS**". Label the card access cabinet "**120 VAC SUB PANEL M BREAKER 08**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S65E1ln2) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-1) FS 1

E3.2.1 **Man Door 1, 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 mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.

- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 1 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader

E3.2.2

Man Door 2, Garage Back 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 mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 1 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.2.3

Man Door 3, Main Entrance: Install card access.

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 1 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 3. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.2.4

Overhead Garage Doors 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11:

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 11 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 11 sets of weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control stations. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-1) FS 1 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install five (5) HID card readers. Model: MultiClass SE RP40 wall mount readers. Readers are to be mounted on the exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-1) FS 1 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-1) FS 1. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building..

E3.3 Fire Station 6, 603 Redwood Avenue

- a) The Contractor shall install card access on three (3) man doors and six (6) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in 1/2" EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' 3/4" plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 2 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 2 (D-2) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**) below the Trove 2 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "B". Use breaker #22 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 2 (D-2). Label the disconnect switch "**PANEL**"

B BREAKER 22 CARD ACCESS". Label the card access cabinet "**120 VAC PANEL B BREAKER 22**"

- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S603rdwd1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in 1/2" EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-1) FS 6.

E3.3.1

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 mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 6 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.3.2

Man Door 2, Front S/W Garage Entrance: Install card access.

- (i) Key door handle to the City of Winnipeg's best keyway with a best core SFIC. If the existing door handle does not meet the standards listed then a new door handle will need to be supplied and installed. The standard for this door handle is. Rhodes door handle. Model ND80BD Rho 626 Heavy Duty store lockset. Small format interchange core SFIC 1C-6-2-626.
- (ii) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (iii) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (iv) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 6 and in accordance with the City of Winnipeg instructions and standards
- (v) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader

E3.3.3

Man Door 3, Employees Back Entrance: Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-1) FS 6 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 3. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.3.4

Overhead Garage Doors 1, 2, and 3:

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) 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 brick walls. As per drawing Equipment/Pipe Layout (A-1) FS 6 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install one (1) HID card readers. Model: MultiClass SE RP40 wall mount readers. Readers are to be mounted on the south exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-1) FS 6 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-1) FS 6. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building

E3.3.5

Overhead Garage Doors 4 and 5

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.

- (ii) Supply and install the following devices and cables to control the 2 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) 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 brick walls. As per drawing Equipment/Pipe Layout (A-1) FS 6 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install one (1) HID card readers. Model: MultiClass SE RP40 wall mount readers. Readers are to be mounted on the south exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-1) FS 6 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-1) FS 6. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.3.6

Overhead Garage Door 6:

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 1 overhead door. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 1 set of weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control station. Door control button to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-1) FS 6 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install one (1) HID card reader. Model: MultiClass SE RP40 wall mount reader. Reader is to be mounted on the north exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-6) FS 6 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-6) FS 6. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.

4. All splicing of cables must be made in the interior of the building.

E3.4 **Fire Station 7, 10 Allan Blye Drive**

- a) The Contractor shall install card access on three (3) man doors and Three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 1 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 1 (D-1) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**) below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "B". Use breaker #36 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 1 (D-1). Label the disconnect switch "**PANEL B BREAKER 36 CARD ACCESS**". Label the card access cabinet "**120 VAC PANEL B BREAKER 36**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S10alln1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-7) FS 7.

E3.4.1 **Man Door 1, Front Entrance:** Install card access.

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.

- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-7) FS 7 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.4.2

Man Door 2, Employee Entrance: Install card access.

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-7) FS 7 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.4.3

Overhead Garage Doors 1, 2, and 3.

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTTC, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-7) FS 7 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install three (3) HID card readers. Model: MultiClass SE RP40 wall mount reader. Reader is to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-7) FS 7 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-7) FS 7. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.

2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
4. All splicing of cables must be made in the interior of the building.

E3.5 **Fire Station 8, 640 Kimberley Avenue.**

- a) The Contractor shall install card access on two (2) man doors and two (2) overhead doors. The overhead doors are controlled by two (2) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 1 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 1 (D-1) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**) below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "200". Use breaker #27 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 1 (D-1). Label the disconnect switch "**PANEL 200 BREAKER 27 CARD ACCESS**". Label the card access cabinet "**120 VAC PANEL 200 BREAKER 27**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S640kmb1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-8) FS 8.

E3.5.1 **Man Door 1, Back Entrance:** Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical

box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.

- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-8) FS 8 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.5.2

Man Door 2 Garage Door Entrance:

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-8) FS 8 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.5.3

Overhead Garage Door 1:

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 1 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 1 weatherproof overhead control buttons. Make: MMTc, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick wall. As per drawing Equipment/Pipe Layout (A-8) FS 8 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install one (1) HID card readers. Model: MultiClass SE RP40 wall mount reader. Reader is to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-8) FS 8 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-8) FS 8. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.

- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.5.4

Overhead Garage Door 2:

- (i) All holes drilled in brick wall must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the one (1) overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install one (1) weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-8) FS 8 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install one (1) HID card reader. Model: MultiClass SE RP40 wall mount reader. Reader is to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-8) FS 8 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-8) FS 8. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.6

Fire Station 10, 1352 Border Street:

- a) The Contractor shall install card access on three (3) man doors and three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.

- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 2 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 2 (D-2) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**). below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "150". Use breaker #12 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 2 (D-2). Label the disconnect switch "**PANEL 150 BREAKER 12 CARD ACCESS**". Label the card access cabinet "**120 VAC PANEL 150 BREAKER 12**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S1354brdr1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-10) FS 10.

E3.6.1 Man Door 1, Front Entrance: Replace door and frame.

- a) Remove existing door.
- b) Supply and install door with the following
 - (i) 3'0" x 6' 8" hollow metal door.
 - (ii) Continuous hinge
 - (iii) 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', US2B, LHR", with a best key core. Model: SFIC.

E3.6.2 Install Card Access.

- (i) Supply and install Von Duprin electric strike. Model: 6300 FS 24 VDC C32D.
- (ii) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (iii) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, Model: 1804. Magnet must be silicone in place.
- (iv) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-10) FS 10 and in accordance with the City of Winnipeg instructions and standards.
- (v) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.6.3 Man Door 2, Garage South Entrance:

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.

- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The ¾" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-10) FS 10 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.6.4

Man Door 3, Back Employee Entrance:

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The ¾" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-10) FS 10 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 3. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.6.5

Garage Overhead Doors: 1, 2, and 3.

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-10) FS 10 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install (3) HID card readers. Model: MultiClass SE RP40 wall mount reader. Readers are to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-10) FS 10 and in accordance with the City of Winnipeg's instructions.

- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-10) FS 10. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.6.6 W

E3.7 **Fire Station 16, 1001 McGregor Street:**

- a) The Contractor shall install card access on three (3) man doors and three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 2 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 2 (D-2) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**). Below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "150". Use breaker #12 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 2 (D-2). Label the disconnect switch "**PANEL 150 BREAKER 12 CARD ACCESS**". Label the card access cabinet "**120 VAC PANEL 150 BREAKER 12**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S1001mcgr1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-16) FS 16.

E3.7.1

Man Door 1, Front entrance:

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-16) FS 16 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.7.2

Man Door 2, Garage employee entrance:

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-16) FS 16 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.7.3

Man Door 3, Kitchen rear entrance:

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4"

EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.

- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-16) FS 16 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 3. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.7.4

Overhead Garage Doors 1, 2, and 3:

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-16) FS 16 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install 3 HID card readers. Model: MultiClass SE RP40 wall mount reader. Readers are to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-16) FS 16 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-16) FS 16. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.7.5

E3.8 **Fire Station 17, 1501 Church Avenue:** Install card access.

- a) The Contractor shall install card access on three (3) man doors and three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in ½" EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.

- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 1 card access cabinet (**supplied by the City of Winnipeg**) as per drawing Panel layout Trove 1 (D-1) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (**supplied by the City of Winnipeg**). Below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "sub panel". Use breaker #07 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 1 (D-1). Label the disconnect switch "**PANEL SUB PANEL BREAKER 07 CARD ACCESS**". Label the card access cabinet "**120 VAC PANEL SUB PANEL BREAKER 07**".
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S1501chrc1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-17) FS 17.

E3.8.1 **Man Door 1, Front Entrance.** Replace front door enclosure.

- a) Remove existing door.
- b) Supply and install door with the following
 - (i) 18 gauge frames.
 - (ii) 3'0" x 6'8" hollow metal door and sidelight, 24" x 60" 1" sealed tempered 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.

E3.8.2 **Install Card Access:**

- (i) Supply and install Von Duprin electric strike. Model: 6300 FS 24 VDC C32D.
- (ii) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (iii) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.

- (iv) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-17) FS 17 and in accordance with the City of Winnipeg instructions and standards.
- (v) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.8.3

Man Door 2, Garage east entrance: Install card access.

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-10) FS 10 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.8.4

Man Door 3, Kitchen Entrance: Install card access.

- (i) Remove old lock. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iii) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layou Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (v) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-17) FS 17 and in accordance with the City of Winnipeg instructions and standards.
- (vi) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 3. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.8.5

Overhead Garage Doors, 1, 2, and 3

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.

- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTc, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-17) FS 17 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install 3 HID card readers. Model: MultiClass SE RP40 wall mount reader. Readers are to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-17) FS 17 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-17) FS 17. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables:
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.8.6 w

E3.9 Fire Station 22, 1567 Waverley Street: Install card access.

- a) The Contractor shall install card access on three (3) man doors and three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in 1/2" EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' 3/4" plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 1 card access cabinet (supplied by the City of Winnipeg) as per drawing Panel layout Trove 1 (D-1) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (supplied by the City of Winnipeg). below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "C". Use breaker #11 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the

plywood, as per drawing Panel Layout Trove 1 (D-1). Label the disconnect switch "PANEL C BREAKER 11 CARD ACCESS". Label the card access cabinet "120 VAC PANEL C BREAKER 11"

- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S1567wr/v1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in 1/2" EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-22) FS 22.

E3.9.1

Man Door 1, Front Entrance: Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, . Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-22) FS 22 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.9.2

Man Door 2, Garage Side Door: Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet, . Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-22) FS 22 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at

both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.9.3 **Man Door 3, Employee Entrance:** Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-22) FS 22 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.9.4 **Overhead Garage Doors, 1, 2, and 3**

- (i) All holes drilled in brick walls must be drilled in the mortar not the brick.
- (ii) Supply and install the following devices and cables to control the 3 overhead doors. Connect the devices as per manufacturer instructions and the City of Winnipeg's standards.
- (iii) Supply and install 3 sets of weatherproof overhead control buttons. Make: MMTC, Model: 2BXT Exterior control station. Door control buttons to be mounted on the exterior brick walls. As per drawing Equipment/Pipe Layout (A-17) FS 17 and in accordance with the City of Winnipeg's instructions.
- (iv) Supply and install 3 HID card readers. Model: MultiClass SE RP40 wall mount reader. Readers are to be mounted on the east exterior wall below the overhead control buttons. As per drawing Door/Reader Layout (B-17) FS 17 and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install EMT pipe from the card access cabinet to each location as per drawing label: Equipment/Pipe Layout (A-17) FS 17. In accordance with the City of Winnipeg's instructions.
- (vi) No wire splicing is allowed in the exterior of the building/boxes. All splices must be made in interior boxes.
- (vii) All piping, boxes, and devices installed on the exterior of the building must be rated as weatherproof.
- (viii) Supply and install the following cables.
 - 1. Card reader - 22/6 Shielded FT4 22061109.
 - 2. New OH button to card access cabinet 11 x 18/4 FT4 Honeywell 21151109
 - 3. New OH button to be connected to existing OH buttons 11 x 18/4 FT4 Honeywell 21151109.
 - 4. All splicing of cables must be made in the interior of the building.

E3.9.5 w

E3.10 **Fire Station 24, 1665 Rothasey Street:** Install card access.

- a) The Contractor shall install card access on three (3) man doors and three (3) overhead doors. The overhead doors are controlled by three (3) card readers. All exterior man door locks including card reader doors must be rekeyed 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 Cat 6 FT6 cable and 120 VAC power cables can be run in $\frac{1}{2}$ " EMT piping. All devices must be installed as per manufacturer's instructions and in accordance with the City of Winnipeg's standards.
- b) The Contractor must pull all required permits. Permit verification must be submitted to the contract administrator before work is started at each site.
- c) All exterior doors must be secured / locked at all times. In the event that a fire station is left unsecured a guard will be posted by the City of Winnipeg at the Contractors' expense. The guard company must be the company that is under contact with the City of Winnipeg.
- d) Supply and install 3'x4' $\frac{3}{4}$ " plywood (G1S) for the equipment listed below, as instructed by the City of Winnipeg. The plywood must be painted with fire retardant paint. Benjamin Moore Model: INSL-x-LFR-110 Grey or equivalent.
- e) Install the Altronix Trove 1 card access cabinet (supplied by the City of Winnipeg) as per drawing Panel layout Trove 1 (D-1) and as instructed by the City of Winnipeg.
- f) Install the Altronix eFlow6n8 power supply (supplied by the City of Winnipeg). below the Trove 1 card access cabinet on the plywood. Supply, install, and connect a 120 VAC circuit from the electrical panel labeled "C". Use breaker #11 with a lockout disconnect switch with a lock out mounted on a 1110 electrical box to the left of the Altronix power supply on the plywood, as per drawing Panel Layout Trove 1 (D-1). Label the disconnect switch "PANEL C BREAKER 11 CARD ACCESS". Label the card access cabinet "120 VAC PANEL C BREAKER 11"
- g) Supply and install a CAT 6 FT6 network cable (straight through cable) from the card access cabinet to the network cabinet switch (S1567wrV1) port 20. It is located in the basement electrical/mechanical room. The network cable must be run in $\frac{1}{2}$ " EMT pipe unless approved by the project administrator. The network cable must be labeled at both ends. The network cable must be tested by the supplier manufacture standards. This must be supplied before the network cable can be connected.
- h) Supply and install EMT piping to all locations as per drawing Equipment/pipe layout (A-22) FS 22

E3.10.1 **Man Door 1, Front entrance:** Install card access.

- (i) Remove the unican lock and door handle. Patch all holes in accordance with the City of Winnipeg standards.
- (ii) Supply and install a von Duprin rim mount exit push bar model: Von Duprin 98 series exit device "RX,98,noneNL,OP,06,No,3',US28,RHR" with a best key core model: SFIC.
- (iii) Supply and install a Von Duprin electric strike. Model: 6300 24VDC fail secure.
- (iv) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The $\frac{3}{4}$ " EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (v) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.

- (vi) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-22) FS 22 and in accordance with the City of Winnipeg instructions and standards.
- (vii) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 2. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.10.2 **Man Door 2, Back Entrance.** Replace back door enclosure

- a) Remove existing door.
- b) Supply and install door with the following
 - (i) 18 gauge frames.
 - (ii) 3'0" x 6'8" hollow metal door and sidelight, 24" x 60" 1" sealed tempered glass unit.
 - (iii) 3 x 4 1/2" 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

E3.10.3 **Install card access**

- (i) Supply and install Von Duprin electric strike. Model: 6300 FS 24 VDC C32D.
- (ii) Supply and install Kentech request to exit device. Model: TRex-XL. The TRex is to be mounted on an 1110 electrical box with a stainless steel cover. The 3/4" EMT pipe is to be run from the card access cabinet to the TRex 1110 electrical box. As per drawing Door Layout Push Bar (C1) and in accordance with the City of Winnipeg's instructions.
- (iii) Supply and install GE Sentrol recess door contact, Model 1078 with a GE Sentrol rare earth magnet,. Model: 1804. Magnet must be silicone in place.
- (iv) Supply and install HID card access reader. Model: MultiClass SE RP15 reader. Reader is to be mounted on the exterior wall, as per the City of Winnipeg instructions. As per drawing Door/Reader Layout (B-17) FS 17 and in accordance with the City of Winnipeg instructions and standards.
- (v) Supply and install Honeywell multi conductor cable for the card access devices. Model: Profusion Access Control Cable FT4 (WG-21955099). Label cables at both ends "DOOR 1. Cables to be run from the card access cabinet to each device: Trex, door contact, strike, and card reader.

E3.11 **Fire Station 41 2546 McPhillips Street** Install Intercom Front Door

- a) Supply and install Optex Vision+. Wireless video intercom with the following devices to unlock the front door.
 - (i) IVP-Du Door camera unit (1)
 - (ii) IVP-HU Handheld monitor units (2)
 - (iii) IVP-GU Gateway chime / Door release unit (1)
- b) The intercom will unlock the front door that is controlled by the city card access system.