



**THE CITY OF WINNIPEG**

# **TENDER**

**TENDER NO. 476-2020**

**VAN WALLEGHEM PARK PATHWAY IMPROVEMENTS**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 VAN WALLEGHEM PARK PATHWAY IMPROVEMENTS

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, August 10, 2020.

B2.2 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 Bidder may view the Site without making an appointment.

### **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 Tender, 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 Tender 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 Tender 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.

B4.6 Any enquiries concerning submitting through MERX should be addressed to:  
MERX Customer Support  
Phone: 1-800-964-6379  
Email: merx@merx.com

### **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 Tender 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 Tender, 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 MERX website at [www.merx.com](http://www.merx.com).
- B6.4 The Bidder is responsible for ensuring that he/she has received all addenda and is advised to check the MERX 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 10 of Form A: Bid/Proposal. 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 Tender.
- 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 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/Proposal;
  - (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 shall be submitted electronically through MERX at [www.merx.com](http://www.merx.com).
- B8.4.1 Bids will **only** be accepted electronically through MERX.
- B8.5 Bidders are advised that inclusion of terms and conditions inconsistent with the Tender document, including the General Conditions, will be evaluated in accordance with B17.1(a).

## **B9. BID**

- B9.1 The Bidder shall complete Form A: Bid/Proposal, making all required entries.
- B9.2 Paragraph 2 of Form A: Bid/Proposal 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/Proposal, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B9.4 Paragraph 13 of Form A: Bid/Proposal 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/Proposal should be printed below such signatures.

B9.4.2 All signatures shall be original.

B9.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

## **B10. PRICES**

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

B10.1.1 Prices stated on Form B: Prices shall not include any costs which may be incurred by the Contractor with respect to any applicable funding agreement obligations as outlined in D24. Any such costs shall be determined in accordance with D24.

B10.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.

B10.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B10.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B10.5 The Bidder shall enter the Total Bid Price from Form B: Prices into the Total Bid Price field in MERX.

B10.5.1 Bidders are advised that the calculation indicated in B17.5 will prevail over the Total Bid Price entered in MERX.

## **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 Further to C3.2, Bidders, by responding to this Tender, 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 Tender 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 Tender process) of strategic and/or material relevance to the Tender 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 Tender 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 <https://www.winnipeg.ca/matmgt/Templates/files/debar.pdf>

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 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.

B13.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

#### **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 MERX website at [www.merx.com](http://www.merx.com).

B14.3 After award of Contract, the name(s) of the successful Bidder(s) and their Contract amount(s) will be available on the MERX website at [www.merx.com](http://www.merx.com).

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 11 of Form A: Bid/Proposal.

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 11 of Form A: Bid/Proposal.

#### **B16. WITHDRAWAL OF BIDS**

B16.1 A Bidder may withdraw his/her Bid without penalty prior to the Submission Deadline.

#### **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 Tender 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 qualified.

B17.4 Further to B17.1(c), where the Total Bid Price exceeds the estimate stated in D2.2, the City may determine that no award will be made in accordance with B18.2.1(a).

B17.5 Further to B17.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices adjusted, if necessary, as follows:

- (a) if the lowest evaluated responsive Bid submitted by a responsible and qualified Bidder is within the budgetary provision for the Work, no adjustment will be made to the Total Bid Price; or
- (b) if the lowest evaluated responsive Bid submitted by a responsible and qualified Bidder exceeds the budgetary provision for the Work, the Total Bid Prices of all responsive Bids submitted by responsible and qualified Bidders will be adjusted by progressively deducting some or all of Item 4 (Supply and Install Timber Steps) and/or Item 5 (Pick up and Install Railings) until a Total Bid Price within the budgetary provision is achieved.

B17.5.1 Further to B17.1(a), in the event that a unit price is not provided on Form B: Prices, the City may determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.

B17.5.2 Bidders are advised that the calculation indicated in B17.5 will prevail over the Total Bid Price entered in MERX.

#### **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 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 The Work of this Contract is contingent upon Council approval of sufficient funding in the 2020 Capital Budget. If the Capital Budget approved by Council does not include sufficient funding for the Work, the City will have no obligation to award a Contract.

B18.4 If funding for the Work is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, Bidders are advised that the terms of D24 shall immediately take effect upon confirmation of such funding, regardless of when funding is confirmed.

B18.5 Where an award of Contract is made by the City, the award shall be made to the qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B17.

B18.5.1 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.

B18.6 Further to C4, the City may issue a Purchase Order to the successful Bidder to form the Contract.

B18.7 The Contract Documents, as defined in C1.1, in their entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that they are not necessarily attached to or accompany said Purchase Order.

## PART C - GENERAL CONDITIONS

### C0 GENERAL CONDITIONS

- C1.1 The *General Conditions for Construction* (Revision 2020-01-31) are applicable to the Work of the Contract.
- C1.1.1 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](http://www.winnipeg.ca/matmgt/gen_cond.stm)
- C1.2 A reference in the Tender 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:

- (a) Excavation and Earthwork,
- (b) Supply and Install new granular pathway,
- (c) Supply and Install gabion retaining walls,
- (d) Removal of one (1) spruce tree;
- (e) Supply and Install timber steps;
- (f) Pick-up and Install site furniture;
- (g) Pick-up and Install railing; and
- (h) Supply and Install topsoil and sod.

D2.2 The pre-bid estimate for this Contract is \$93,000.00

#### D3. DEFINITIONS

D3.1 When used in this Tender:

- (a) "**CW**" means current City of Winnipeg Standard Construction Specification;
- (b) "**SD**" means current City of Winnipeg Standard Construction Detail;
- (c) "**SCD**" means current City of Winnipeg Parks Planning Standard Construction Detail;

#### D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Ian Macdonald  
Landscape Designer  
Telephone No. 204 451-3069  
Email Address imacdonald@winnipeg.ca

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.

#### 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. NOTICES

D6.1 Except as provided for in C22.4, 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/Proposal.

D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D6.3 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator identified in D4.

D6.3 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

## **SUBMISSIONS**

### **D7. AUTHORITY TO CARRY ON BUSINESS**

D7.1 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.

### **D8. SAFE WORK PLAN**

D8.1 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 Documents, if applicable.

D8.2 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/matmgmt/Safety/default.stm>

- (a) Contractor to identify safety measures to be undertaken to mitigate risk of transmission of the COVID-19 virus and any other communicable disease that may emerge, as identified by the Province of Manitoba Health, Seniors, and Active Living. Safety measures shall reflect current legislation and recommendations for construction set by the Province of Manitoba Labour & Regulatory Services and Construction Safety Association of Manitoba.

### **D9. INSURANCE**

D9.1 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.

D9.2 Deductibles shall be borne by the Contractor.

D9.3 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.

D9.4 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.

## **D10. CONTRACT SECURITY**

D10.1 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.

D10.2 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.

D10.3 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.

D10.4 Where the Contract Security is provided in accordance with D10.1 and D10.1(a), 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 D10.1(a); and
- (b) post a notice of the bond and/or a copy that bond in a conspicuous location at the Site of the Work.

## **D11. SUBCONTRACTOR LIST**

D11.1 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.

## **D12. DETAILED WORK SCHEDULE**

D12.1 The Contractor shall provide the Contract Administrator with a detailed work schedule (Form L: Detailed Work Schedule) at least two (2) 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 Documents, if applicable.

## **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 D7;
- (ii) evidence of the workers compensation coverage specified in C6.15;
- (iii) the Safe Work Plan specified in D8;
- (iv) evidence of the insurance specified in D9;
- (v) the contract security specified in D10;
- (vi) the Subcontractor list specified in D11; and
- (vii) the detailed work schedule specified in D12.

(b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.

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

### **D14. SUBSTANTIAL PERFORMANCE**

D14.1 The Contractor shall achieve Substantial Performance within Fifteen (15) consecutive Working Days of the commencement of the Work as specified in D13.

D14.2 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.

D14.3 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.

### **D15. TOTAL PERFORMANCE**

D15.1 The Contractor shall achieve Total Performance within Twenty (20) consecutive Working Days of the commencement of the Work as specified in D13.

D15.2 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.



D15.3 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.

#### **D16. LIQUIDATED DAMAGES**

D16.1 If the Contractor fails to achieve Total Performance in accordance with the Contract by the day fixed herein for Total Performance, the Contractor shall pay the City five hundred dollars (\$500) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.

D16.2 The amount specified for liquidated damages in D16.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Substantial Performance by the day fixed herein for same.

D16.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### **D17. COVID-19 SCHEDULE DELAYS**

D17.1 The City acknowledges that the schedule for this Contract may be impacted by the COVID-19 pandemic. Commencement and progress of the Work shall be performed by the Contractor with due consideration to the health and safety of workers and the public and directives from health authorities and various levels of government, and in close consultation with the Contract Administrator.

D17.2 If the Contractor is delayed in the performance of the Work by reason of the COVID-19 pandemic, the Work schedule may be adjusted by a period of time equal to the time lost due to such delay and costs related to such delay will be determined as identified herein.

D17.3 A minimum of seven (7) Calendar Days prior to the commencement of Work, the Contractor shall declare whether COVID-19 will affect the start date. If the Contractor declares that COVID-19 will affect the start date, the Contractor shall provide sufficient evidence that the delay is directly related to COVID-19, including but not limited to evidence related to availability of staff, availability of Material or work by others.

D17.4 For any delay related to COVID-19 and identified after Work has commenced, the Contractor shall within seven (7) Calendar Days of becoming aware of the anticipated delay declare the additional delay and shall provide sufficient evidence as indicated in D17.3. Failure to provide this notice will result in no additional time delays being considered by the City.

D17.5 The Work schedule, including the durations identified in D14 to D15 where applicable, will be adjusted to reflect delays accepted by the Contract Administrator. No additional payment will be made for adjustment of schedules except where seasonal work, not previously identified in the Contract, is carried over to the following construction season.

D17.6 Where Work not previously identified is being carried over solely as a result of delays related to COVID-19, as confirmed by the Contract Administrator, the cost of temporary works to maintain the Work in a safe manner until Work recommences, will be considered by the Contract Administrator. Where the Work is carried over only partially due to COVID-19, a partial consideration of the cost of temporary works will be considered by the Contract Administrator.

D17.7 Any time or cost implications as a result of COVID-19 and in accordance with the above, as confirmed by the Contract Administrator, shall be documented in accordance with C7.

#### **D18. SCHEDULED MAINTENANCE**

D18.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:

(a) Sod as specified in E17

D18.2 Determination of Substantial Performance and Total Performance shall be exclusive of scheduled maintenance identified herein. All scheduled maintenance shall be completed prior to the expiration of the warranty period. Where the scheduled maintenance cannot be completed during the warranty period, the warranty period shall be extended for such period of time as it takes the Contractor to complete the scheduled maintenance.

## **CONTROL OF WORK**

### **D19. JOB MEETINGS**

D19.1 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.

D19.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

### **D20. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)**

D20.1 Further to C6.26, 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).

### **D21. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS**

D21.1 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.

## **MEASUREMENT AND PAYMENT**

### **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.

## THIRD PARTY AGREEMENTS

### D24. FUNDING AND/OR CONTRIBUTION AGREEMENT OBLIGATIONS

- D24.1 In the event that funding for the Work of the Contract is provided to the City of Winnipeg by the Government of Manitoba and/or the Government of Canada, the following terms and conditions shall apply, as required by the applicable funding agreements.
- D24.2 **NOTE: No funding from the Government of Manitoba or the Government of Canada is anticipated for the project at this time.**
- D24.3 Further to D24.1, in the event that the obligations in D24 apply, actual costs legitimately incurred by the Contractor as a direct result of these obligations ("Funding Costs") shall be determined by the actual cost to the Contractor and not by the valuation method(s) outlined in C7.4. In all other respects Funding Costs will be processed in accordance with Changes in Work under C7.
- D24.4 For the purposes of D24:
- (a) "**Government of Canada**" includes the authorized officials, auditors, and representatives of the Government of Canada; and
  - (b) "**Government of Manitoba**" includes the authorized officials, auditors, and representatives of the Government of Manitoba.
- D24.5 Modified Insurance Requirements
- D24.5.1 If not already required under the insurance requirements identified in D9, the Contractor will be required to provide wrap-up liability insurance in an amount of no less than two million dollars (\$2,000,000) inclusive per occurrence. Such policy will be written in the joint names of the City, Contractor, Consultants and all sub-contractors and sub-consultants and include twelve (12) months completed operations. The Government of Manitoba and its Ministers, officers, employees, and agents shall be added as additional insureds.
- D24.5.2 If not already required under the insurance requirements identified in D9, the Contractor will be required to provide builders' risk insurance (including boiler and machinery insurance, as applicable) providing all risks coverage at full replacement cost, or such lower level of insurance that the City may identify on a case-by-case basis, such as an installation floater.
- D24.5.3 The Contractor shall obtain and maintain third party liability insurance with minimum coverage of two million dollars (\$2,000,000.00) per occurrence on all licensed vehicles operated at the Site. In the event that this requirement conflicts with another licensed vehicle insurance requirement in this Contract, then the requirement that provides the higher level of insurance shall apply.
- D24.5.4 Further to D9.3, insurers shall provide satisfactory Certificates of Insurance to the Government of Manitoba prior to commencement of Work as written evidence of the insurance required. The Certificates of Insurance must provide for a minimum of thirty (30) days' prior written notice to the Government of Manitoba in case of insurance cancellation.
- D24.5.5 All policies must be taken out with insurers licensed to carry on business in the Province of Manitoba.
- D24.6 Indemnification By Contractor
- D24.6.1 In addition to the indemnity obligations outlined in C17 of the General Conditions for Construction, the Contractor agrees to indemnify and save harmless the Government of Canada and the Government of Manitoba and each of their respective Ministers, officers, servants, employees, and agents from and against all claims and demands, losses, costs, damages, actions, suit or other proceedings brought or pursued in any manner in respect of any matter caused by the Contractor or arising from this Contract or the Work, or from the goods or services provided or required to be provided by the Contractor, except those

resulting from the negligence of any of the Government of Canada's or the Government of Manitoba's Ministers, officers, servants, employees, or agents, as the case may be.

#### D24.7 Records Retention and Audits

D24.7.1 The Contractor shall maintain and preserve accurate and complete records in respect of this Contract and the Work, including all accounting records, financial documents, copies of contracts with other parties and other records relating to this Contract and the Work during the term of the Contract and for at least six (6) years after Total Performance. Those records bearing original signatures or professional seals or stamps must be preserved in paper form; other records may be retained in electronic form.

D24.7.2 In addition to the record keeping and inspection obligations outlined in C6 of the General Conditions for Construction, the Contractor shall keep available for inspection and audit at all reasonable times while this Contract is in effect and until at least six (6) years after Total Performance, all records, documents, and contracts referred to in D24.7 for inspection, copying and audit by the City of Winnipeg, the Government of Manitoba and/or the Government of Canada and their respective representatives and auditors, and to produce them on demand; to provide reasonable facilities for such inspections, copying and audits, to provide copies of and extracts from such records, documents, or contracts upon request by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada and their respective representatives and auditors, and to promptly provide such other information and explanations as may be reasonably requested by the City of Winnipeg, the Government of Manitoba, and/or the Government of Canada from time-to-time.

#### D24.8 Other Obligations

D24.8.1 The Contractor consents to the City providing a copy of the Contract Documents to the Government of Manitoba and/or the Government of Canada upon request from either entity.

D24.8.2 If the Lobbyists Registration Act (Manitoba) applies to the Contractor, the Contractor represents and warrants that it has filed a return and is registered and in full compliance with the obligations of that Act, and covenants that it will continue to comply for the duration of this Contract.

D24.8.3 The Contractor shall comply with all applicable legislation and standards, whether federal, provincial, or municipal, including (without limitation) labour, environmental, and human rights laws, in the course of providing the Work.

D24.8.4 The Contractor shall properly account for the Work provided under this Contract and payment received in this respect, prepared in accordance with generally accepted accounting principles in effect in Canada, including those principles and standards approved or recommended from time-to-time by the Chartered Professional Accountants of Canada or the Public Sector Accounting Board, as applicable, applied on a consistent basis.

**FORM H1: PERFORMANCE BOND**  
(See D10)

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

TENDER NO. 476-2020

VAN WALLEGHEM PARK PATHWAY IMPROVEMENTS

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 D10)

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

TENDER NO. 476-2020

VAN WALLEGHEM PARK PATHWAY IMPROVEMENTS

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 D10)**

\_\_\_\_\_  
(Date)

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

RE: CONTRACT SECURITY - TENDER NO. 476-2020

VAN WALLEGHEM PARK PATHWAY IMPROVEMENTS

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.

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.

Except where they may conflict with the terms and conditions contained in this Letter of Credit, the International Standby Practices 1998 shall apply to this Letter of Credit. This Letter of Credit shall also be governed by and construed in accordance with the laws of the Province of Manitoba and of Canada as applicable therein, except to the extent that such laws are inconsistent with the International Standby Practices 1998. This Letter of Credit is subject to the exclusive jurisdiction of the courts in the Province of Manitoba and all courts competent to hear appeals therefrom.

\_\_\_\_\_  
(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 Tender 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>
V.7-I-R0	Existing Conditions & Removals
V.7-J-R0	Grading Plan
V.7-K-R0	Layout Plan
V.7-L-R0	Details
SCD-121A	Tache Bench – Composite w/Arms
SCD-646-R1	Park Path Crushed Limestone
SD-243-R2	Sodding Details

#### E2. EXISTING SERVICES AND UTILITIES

- E2.1 No responsibility will be assumed by the City for correctness or completeness of the Drawings, when provided, with respect to the existing utilities, pipes or other objects either underground or on the surface; the city shall not be liable for the incorrectness and inadequacy thereof. It shall be the responsibility of the Contractor to determine the location of all such utilities, pipes and other objects and to make good any damage done to them.

#### E3. ACCESS TO SITE

- E3.1 Access to the Site as required by the Contractor shall be provided and maintained by the Contractor at his own expense and approved by the Contract Administrator.
- E3.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work as indicated on the drawings and confirmed onsite at the pre-construction meeting.
- E3.3 The access point for construction vehicles and staging of materials must be confirmed with the Contract Administrator at the pre-construction meeting.

#### E4. PERMITS, NOTICES, LICENSES, CERTIFICATES, LAWS AND RULES

- E4.1 Further to C6.12, the Contractor shall give all necessary notices, obtain all necessary permits and pay all fees in order that the Work may be carried out. The Contractor shall submit all plans required by any inspection authority and obtain approval of same before proceeding with the Work, and pay any cost attached to the inspection of such plans.

- E4.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- E4.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- E4.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.
- E4.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.
- E4.6 The Contractor and Sub-contractors must be fully aware of all Work involving hazardous materials. All work must be performed in compliance with the Manitoba Department of Labour Workplace Health and Safety Guidelines and all other applicable codes. The Contractor is responsible for the immediate notification to the Contract Administrator of his/her encountering of suspected hazardous material during their course of Work.

## **E5. LAYOUT**

- E5.1 The Contractor is responsible for the layout of all Work.**
- (a) All layout work must be completed using a Total Station, GPS or other survey equipment as approved by the Contract Administrator.**
- E5.2 Contractor to provide Contract Administrator min. two (2) Working Days notice for staked layout inspection, prior to commencement of Excavation and Grading. No separate measurement or payment will be made for the Layout of the Work.**

## **E6. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY**

- E6.1 All necessary precautions shall be exercised by the Contractor so as not to remove, disturb, or damage any existing trees, shrubs, sod, pavements, streets, roads, boulevards, poles, hydrants, water pipes, gas pipes, electrical wires, cables, conduits, sewers or other existing facilities and equipment at the Site of the Work. For all damage incurred in the performance of the Work (either directly or indirectly), the Contractor shall either replace and repair such damage, whichever may be deemed necessary in the opinion of, and acceptable to City of Winnipeg Contract Administrator, and the cost of which shall be borne entirely by the Contractor. The Contractor shall also indemnify and save harmless the City from all claims made directly or indirectly against it in respect to any such damage.
- E6.2 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:
- (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
  - (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
  - (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
  - (d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
  - (e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.

- E6.3 All damage to existing trees caused by the Contractor's activities shall be repaired to the requirements and satisfaction of the Contract Administrator and the City Forester or his/her designate.
- E6.4 No separate measurement or payment will be made for the protection of trees.
- E6.5 Except as required in clause E6.1(c) and E6.1 (e), Elm trees shall not be pruned at any time between April 1 and July 31.

## **E7. PEDESTRIAN AND TRAFFIC MANAGEMENT**

- E7.1 Further to CW 1130, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while working near them. Any damage caused by the negligence of the Contractor or his Sub-Contractors to the adjacent Works or properties shall be promptly repaired by the Contractor at their expense, to the satisfaction of the Contract Administrator.
- E7.2 During the project, a temporary snow fence shall be installed to safe guard the public around the construction site, to the satisfaction of the Contract Administrator. Temporary fencing shall be installed where necessary throughout the length of the project. The contractor shall be responsible for maintaining a snow fence or equivalent to the satisfaction of the contract administrator, in proper working condition. No measurement for payment shall be made for this work.
- E7.3 Further to CW 1130, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while working near them. Any damage caused by the negligence of the Contractor or his Sub-Contractors to the adjacent Works or properties shall be promptly repaired by the Contractor at their expense, to the satisfaction of the Contract Administrator.
- E7.4 Should the Contractor be unable to maintain an existing access to a residence or business, he/she shall review the planned disruption with the business or residence and the Contract Administrator, and take reasonable measures to minimize the impact. The Contractor shall provide a minimum of 24 hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E7.5 Pedestrian and ambulance/emergency vehicle access must be maintained at all times.

## **E8. SITE RESTORATION**

- E8.1 Total Performance of the Work shall not be attained until the Contractor has cleaned up the Site and has removed all tools, equipment, waste, debris and surplus foundation earth to the satisfaction of the Contract Administrator. Unless otherwise specified, the Contractor shall restore all areas of the Site beyond the established limit of Work, which have been disturbed by the Contractor's operations to as good as or better than the original condition to the satisfaction of the Contract Administrator. The Contractor shall pay all costs associated with this Work.

## **E9. PROTECTION OF SURVEY INFRASTRUCTURE**

- E9.1 Notwithstanding clause 4 "Protection of Survey Bars" of the Standard Provisions; Current legislation, The Surveys Act, places the onus on those undertaking construction to protect the Survey Infrastructure from damage as a result of their activity.
- E9.2 Further to C:6.26 (g), at least 72 hours prior to the commencement of the On-Site Work the Contractor shall contact the City of Winnipeg, Geomatics Services Branch at 918-1360 (8:00 am To 4:00 pm Monday to Friday excluding holidays) to obtain underground clearance. Geomatics Services will locate and mark all known outline survey monuments and geodetic control monuments and confirm the physical condition of those monuments upon completion of construction, at no cost to the Contractor.

- E9.3 Where a survey post, bar or control monument lies in the line of the proposed Work and must be disturbed, the Contractor shall provide the Contract Administrator with 48 hours' notice to permit referencing for future replacement, at no cost to the Contractor. Failure to provide the specified notice shall result in the Contractor paying for all costs associated with replacing or relocating the disturbed outline survey monuments and geodetic control monuments.
- E9.4 Survey monuments and geodetic control monuments at or adjacent to the Site, not in the line of the proposed construction that are damaged or disturbed by the Contractor shall be replaced or relocated by the City or its agent and all associated costs shall be paid for by the Contractor. An approximate estimate of the costs involved to restore a legal survey monument is \$1,000 per bar and \$3,000 per control monument. Contractors must ensure their landscaping and other subcontractors are aware of this clearance procedure and the potential restoration costs.
- E9.5 Where possible, amounts owed to the City in accordance with the above will be deducted from any payments to be made by the City to the Contractor.

## **E10. TREE REMOVAL**

### **E10.1 General Description**

- E10.1.1 This Specification shall cover the removal of one existing spruce tree as shown on the drawings.
- E10.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

### **E10.2 Construction methods**

#### **E10.2.1 Tree removal**

- (a) The Contractor shall remove trees designated for removal to min. 600mm below proposed grade. The Contractor shall load and haul all waste materials from the site and dispose of these materials at dumps located by the Contractor and approved by the Contract Administrator.
- (b) Holes and depressions left by removals are to be filled with clean fill, as per CW 3170, where areas to be sodded with minimum 75mm mm of topsoil layer then sod per E17 Removals shall include removal of any foundation or footings to one metre below proposed grade.

### **E10.3 Method of Measurement**

#### **E10.3.1 Method of Measurement shall be as follows:**

- (a) Removals shall be measured on a per unit basis for:
- (i) "Tree removal" on Form B: Prices.
- (b) No separate measurement shall be made for filling holes and depressions with fill material as this Work is incidental to the Work herein.

### **E10.4 Basis of Payment**

#### **E10.4.1 Basis of Payment shall be as follows:**

- (a) Removals will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
- (b) No additional payment shall be made for filling holes and depressions with fill material as this Work is incidental to the Work herein.



## **E11. EXCAVATION AND GRADING**

### **E11.1 General Description**

**E11.1.1** This Specification shall amend and supplement CW 3110 and CW 3170. It shall cover the excavation and legal disposal of existing earthen materials and site grading.

- (a) Layout and grades shall be established by an experienced land surveyor with GPS, Total Station or related survey equipment.

**E11.1.2** Excavation includes the removal of items (i.e., earthen materials) as indicated on the Drawings and as directed by the Contract Administrator. Work includes the satisfactory disposal of unsuitable Site material such as clays susceptible to frost-heaving, silts, rock, rubble, rubbish and any surplus suitable Site material.

- (a) Work shall include but not be limited to the following:
  - (i) Excavate, add clean fill if necessary, and grade to the limits shown on Drawings to the depths necessary to achieve finish grades indicated in the Drawings.
  - (ii) All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner.

**E11.1.3** The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

### **E11.2 Construction Methods**

#### **E11.2.1 Excavation**

- (a) Stockpile suitable, approved material on Site for reuse (clean topsoil, clean earth fill,) in a secure location. Remove and dispose of unsuitable material.
- (b) Disposal of material shall be understood to mean the hauling of all unsuitable material from the Site and the unloading in a legal manner acceptable to the Contract Administrator. If arrangements are made in advance excavated material may be disposed of on Site at a location designated by the Contract Administrator.
- (c) Contractor must coordinate with the Contract Administrator to ensure all removals have occurred.
- (d) Excavate to the limits shown and as necessary to achieve finish grades as indicated on the Drawings. Where design grades are not shown, the new surface materials shall be installed to meet flush with surrounding grades, and sloped so as not to impede the existing drainage pattern.
- (e) The Contractor shall construct all sub-grades in accordance with CW 3110. This shall include the use of suitable compaction equipment as approved by the Contract Administrator to achieve a minimum compaction of 98% Standard Proctor Density below all paved areas, and 90% Standard Proctor Density in all other areas disturbed under this Contract unless otherwise indicated. Lifts shall not exceed a compacted thickness of 150 mm.
- (f) Where new sod will meet existing, employ a vertical shearing operation, such as using a sharp spade or edger, along the outside edges of the excavation to create a clean and definite line for the new sod to abut flush to.

#### **E11.2.2 Grading**

- (a) Site grading shall be as per the Drawings.
- (b) The design grade shall be considered to be straight grade between finished design elevations shown. Changes in grade at swales or where it meets existing sod shall be gently contoured to allow for ease of grass mowing operations.
- (c) Contractor to ensure site grading does not create tripping hazards and no areas of standing water remain.

- (d) If necessary the Contractor shall import clean fill to achieve grades as per the Drawings.
- (e) Backfill shall be placed in a dry, thawed condition and shall be maintained free of moisture or frost.
- (f) In fill areas where the difference between the existing ground elevation and the new finished design elevation is less than 300 mm, the Contractor shall scarify the existing ground to a minimum depth of 50 mm prior to placement of any fill.
- (g) In areas where new grades are greater than 75 mm than existing grades, clean fill shall be used to achieve finished subgrade levels. Clean fill can be used from On-Site grading operations. If additional clean fill is required, it must be hauled in from Off-Site.

#### E11.2.3 Finish Grading

- (a) Following earthmoving, rough grading and compaction, the Work areas shall be finish graded to provide a maximum deviation of 50 mm in 10 meters from the design grade with no low areas that hold water. The finished surface of all disturbed areas shall be dragged and smoothed in such a manner that there are no loose soil particles greater than 50 mm.
- (b) The grading work must be undertaken using earthmoving equipment that is guided by laser or GPS controlled data. Visual grade stakes shall also be installed to supplement the electronic data, unless otherwise agreed to by Contract Administrator.
- (c) All surplus fill material shall be removed and legally disposed off-site.
- (d) Do not disturb adjacent items designated to remain in place.

#### E11.3 Method of Measurement and Basis of Payment

##### E11.3.1 Method of Measurement shall be as follows:

- (a) Excavation & Grading shall be measured on a cubic meter basis for:
  - (i) "Additional Excavation to Meet Proposed Grades" on Form B: Prices.
- (b) If required by the Contract Administrator, no separate measurement will be made for retaining services relating to survey of layout and establishing grades as these items are incidental to the Work herein.
- (c) No separate measurement will be made for retaining wall excavation for the following items as this item is incidental to the Work therein.
- (d) No separate measurement will be made for import of clean fill to achieve rough grading grades and earthwork and site grading grades.

##### E11.3.2 Basis of Payment shall be as follows:

- (a) Excavation and Grading will be paid for at the Contract Unit Prices on Form B. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
- (b) If required by the Contract Administrator, no additional payment will be made for retaining services relating to survey of layout and establishing grades as these items are incidental to the Work herein.
- (c) No additional payment will be made for excavation for retaining walls as this item is incidental to the Work therein.
- (d) No additional payment shall be made for import of clean fill to achieve rough grading grades and earthwork and site grading grades.

#### E12. COMPACTED GRANULAR PAVEMENT

##### E12.1 General Description

- E12.1.1 This Specification shall amend and supplement CW 3110 and SCD 646 and shall cover the supply and installation of compacted granular pavement, most of which has been previously excavated
- E12.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.
- E12.2 General Instructions
- E12.2.1 Quality Control
- (a) Testing and Approval of Materials
    - (i) Material testing may be required as per this Specification and as directed by the Contract Administrator.
- E12.2.2 Submittals
- (a) Samples
    - (i) Material samples may be required, at the discretion of the Contract Administrator, for materials supplied under this Specification.
- E12.3 Excavation
- E12.3.1 Description
- (a) Where necessary, excavation shall be performed in accordance with E11, CW 3110, and SCD-646 as indicated on the Drawings.
  - (b) Excavation shall be understood to include all removal of existing insitu material necessary to achieve finished grade and as indicated on the Drawings and in accordance with E11.
  - (c) The Contractor shall survey and stake out the proposed granular pavement prior to the start of construction as shown on the construction drawings. Layout shall be checked and confirmed with Contract Administrator prior to construction.
- E12.3.2 Construction Methods
- (a) Excavation shall be performed as per E11 and in accordance with CW 3110.
  - (b) In locations where existing trees root systems intersect with the pavement area, excavation shall be done carefully so as not to damage or sever any roots of the trees.
  - (c) If any pavement exists at the limits of the designated area of removal, these shall be saw cut for the full depth of the pavement prior to the demolition and removal operations. All costs in connection with saw cutting are incidental and shall be included in the unit price bid for excavation.
  - (d) All excavated material shall be removed, hauled and disposed of off-site to the satisfaction of the Contract Administrator.
- E12.4 Sub-Grade Compaction
- E12.4.1 Description
- (a) Sub-grade compaction shall be in accordance with CW 3110.
- E12.4.2 Construction Methods
- (a) Sub-grade compaction shall be performed as outlined in Section 3.3 of CW 3110.
  - (b) Sub-grade shall be free of any fibrous organics, softened and disturbed soil. The prepared sub-grade shall be proof rolled with a heavy sheep's foot roller (minimum 25 passes) and inspected by the Contract Administrator to detect for any soft spots prior to the placement of overlying granular fills.
- E12.5 Geotextile Fabric

E12.5.1 Description

- (a) Geotextile Fabric shall be placed in accordance with CW 3130.

E12.5.2 Materials

- (a) Geotextile materials shall be in accordance with CW 3130.
- (i) The separation/ reinforcement geotextile fabric shall conform to the Products Approved as listed in the current City of Winnipeg Specification for Approved Products for Surface Works.
- ◆ <https://winnipeg.ca/matmgt/spec/>

E12.5.3 Construction Methods

- (a) Separation/reinforcement geotextile fabric shall per CW 3110.

E12.6 Crushed Limestone Materials

E12.6.1 Description

- (a) Crushed limestone base material shall be supplied and installed in accordance with CW 3110 and as per the Drawings.

E12.6.2 Materials

- (a) Base course shall be Granular C as per current CW 3110, the Drawings, and this Specification.
- (i) Notwithstanding current CW 3110 Section 1.2 Clause 1.2.7, Granular A, Granular B, and recycled aggregates or materials will not be accepted for Compacted Granular Pathways.
- (b) Topping Material shall be per the Drawings and this Specification.
- (i) Recycled aggregates or materials will not be accepted for Compacted Granular Pathways.

CANADIAN METRIC SIEVE SIZE	Percent of Total Dry Weight Passing Each Sieve		
	6 mm (1.4") Topping Material	20 mm (3/4") Base Course	50 mm (2") Base Course
50 000	--	--	100%
25 000	--	--	--
20 000	--	100%	--
10 000	100%	--	--
5 000	65% - 100%	40% - 70%	25% - 60%
2 500	40% - 75%	25% - 60%	--
1 250	35% - 65%	--	--
630	19% - 36%	--	--
315	14% - 28%	8% - 25%	--
160	12% - 24%	--	--
80	10% - 25%	6% - 17%	4% - 15%

**Table 1.0 Base Course & Topping Material Grading Requirements**

E12.7 Construction Methods

- E12.7.1 All limestone material shall be placed and compacted as specified to finished thickness as shown on the Drawings.

- E12.7.2 Sub-base Course, Base Course and Capping Course shall be compacted to a minimum of one hundred percent (100%) of Standard Proctor Density.

E12.8 Quality Control

E12.8.1 Materials and Work

- (a) Materials and Work may be subject to Quality Control Testing and Approval of Materials per the General Instructions Section of the Contract.

E12.9 Method of Measurement and Basis of Payment

- E12.9.1 Granular pavement shall be measured on a square metre basis for:
- (a) "Supply & install Granular Pavement (minus excavation)" on Form B: Prices.

- E12.9.2 Basis of Payment shall be as follows:
- (a) Compacted Granular Pavement will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for excavation, subgrade compaction, supply and installation of base course and top course, supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

### **E13. GABION RETAINING WALLS**

#### **E13.1 General Description**

- E13.1.1 The work to be done by the Contractor under this Specification shall include the furnishing of all superintendence, overhead, labour, materials, equipment, tools supplies and all other things necessary for an incidental to the satisfactory performance and completion of all Work as shown on the Drawings and as hereinafter specified, including, but not necessarily confined to the following:

- (a) Supply and Installation of Gabion Baskets and Stone Fill.

#### **E13.2 Materials**

- E13.2.1 All materials supplied under this specification shall be of a type approved by the Contract Administrator, or of a type of approved substitute in accordance with B7 that is approved by the Contract Administrator. Materials shall be subject to inspection and testing by the Contract Administrator.
- E13.2.2 Geotextile shall be non-woven and installed as shown on the drawings. It shall have an apparent opening size of between 0.149 mm and .210 mm and a minimum unit weight of 135 grams per sq. m.
- E13.2.3 Granular Base shall be in accordance with CW 3110 and the Drawings.
- E13.2.4 Gabion baskets:
- (a) Shall be Maccaferri Architectural Gabion Baskets 2m L x 1m W x 1m H or approved substitute in accordance with B7.
  - (b) Gabion Baskets shall be architectural welded wire with uniform square pattern in a 75mm x 75mm grid. Wire shall be hot dip galvanized with minimum coverage of 260 g/m<sup>2</sup> to CSA G164. Interlocking wire fasteners shall be galvanized steel to ASTM A974-97, Finish 1, Class 1, Type 3.
  - (c) Contractor to ensure that gauge of wire mesh identified for pricing purposes, gauge (4.5mm) provide enough support for the proposed filled platform construction.
  - (d) The baskets shall be factory fabricated so that sides, ends, lid and internal diaphragms readily assemble on Site into rectangular baskets of a size as indicate3d on Drawings. Baskets shall have single unit construction. When length exceeds horizontal width, provide diaphragms of same mesh as gabion walls to divide basket into equal cells of length not in excess of horizontal width.
  - (e) Gabion baskets shall be connected together using stainless steel ring fasteners on exposed sides, lacing wire or ring fasteners may be used to connect other areas. All fasteners shall meet all of the closing requirements of the gabion manufacturer and be accepted by the Contract Administrator.
  - (f) Contact for Gabion Baskets:  
Brock White.  
879 Keewatin Street  
Winnipeg, Manitoba

Ph: (204) 694-3600 or 1 (888) 786-6426

- E13.2.5 Stone Fill:
- (a) Stone Fill shall be locally available, clean hard, durable, Limestone Cobble.
  - (b) Colour: Buff
  - (c) Individual stones shall have a diameter of 100mm minimum to 150mm maximum. The Contractor is to note that no smaller stones will be accepted.
- E13.3 Construction Methods
- E13.3.1 Layout shall be marked on Site by the Contractor and verified by the Contract Administrator.
- E13.3.2 Excavate for foundation bed, compact subgrade and install geotextile in accordance with most recent version of CW 3110 and CW 3170 respectively, as shown on the Drawings, and as directed by the Contract Administrator.
- E13.3.3 Gabion Installation:
- (a) Care shall be taken during gabion installation to prevent damage to surrounding pavement.
  - (b) The gabions shall be opened and unfolded on a flat hard surface to ensure no unwanted folds occur. The sides, ends and diaphragms shall be lifted into place to form an open box, and all sides connected as per manufacturer's installation instructions.
  - (c) After foundation preparation, the pre-assembled gabions shall be placed to lines and grades as indicated on Drawings and as verified by Contract Administrator. Placement, elevations and geometry shall be verified prior to filling with stones.
  - (d) Cut and overlap baskets as required to meet geometry and connection requirements for angled wall connections as identified on Drawings and as recommended by manufacturer. Contractor to ensure all cut baskets are installed in such a way to ensure their structural integrity.
  - (e) Adjacent baskets shall be connected as recommended by manufacturer prior to stone fill placement.
  - (f) Gabions to sit flush against edge of adjacent compacted granular path with no visible gaps.
  - (g) Gabions that are cut down in size to fit dimensions of any given section of connected gabion baskets shall be no smaller than 600mm in length.
- E13.3.4 Filling
- (a) After adjacent empty woven wire gabion units are set to the required line and grade and common sides connected, they shall be placed in straight line tension and stretched to remove any kinks from the mesh and to gain a uniform alignment. The gabions may be staked to maintain the established proper alignment before the rock is placed. No stakes shall be placed through geotextile material. Connecting fasteners shall be attached during the filling operation to preserve the strength and shape of the structure.
  - (b) The gabions shall be carefully filled with Stone by hand or a combined machine/hand method to ensure alignments, avoid bulges, and provide a compact mass that minimizes voids. Machine method requires supplementing with hand work to ensure the desired result. On exposed faces of gabions, place stones by hand with flattest surfaces bearing against face mesh to produce a neat, compact placement with a uniform appearance.
  - (c) Stone Fill should appear random in placement with no large gaps or unsecured stones.

- (d) Care shall be taken during delivery and installation to protect stones from breakage. Any Stone Fill smaller than 125mm in diameter will not be accepted due to the potential for vandalism.
- (e) Fill gabion cells in left not exceeding 300mm and connect opposite walls with 2 tie wires after each lift. Each gabion shall appear, upon completion, to be aligned properly with adjacent gabions.
- (f) The last layer of Stone Fill shall be uniformly levelled to the top edges of the gabions. Lids shall be placed tight over the Stone Fill using only approved lid closing tools as necessary. The use of crowbars or other single point leverage bars for lid closing is prohibited as they may damage the baskets. The lid shall be stretched until it meets the perimeter edges of the front and end panels. The gabion lid shall then be secured to the sides, ends, and diaphragms with approved fasteners.
- (g) Any damage to the wire during assembly, placement, and filling shall be repaired promptly in accordance with the manufacturer's recommendations or replaced with undamaged gabion baskets.

#### E13.3.5 Placement of Geotextile

- (a) The geotextile is to be placed prior to gabion placement upon base materials.
- (b) Geotextile shall be laid smooth and free of tension, stress, folds, wrinkles or creases. Joints in the geotextile fabric shall be overlapped not less than 0.5 metres.
- (c) Securing pins and washers shall be inserted through the fabric at intervals not greater than 1.5 metres along a line 100mm from both the lowest and highest exterior edge of the geotextile fabric.
- (d) Geotextile is to be trimmed and shall not be visible after completion of Work.

#### E13.4 Method of Measurement and Basis of Payment

##### E13.4.1 Method of Measurement shall be as follows:

- (a) Gabion Baskets shall be measured on a linear metre basis for:
  - (i) "Supply and Install Gabion Walls" on Form B: Prices.

##### E13.4.2 Basis of Payment shall be as follows:

- (a) Gabion Baskets shall be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices.

### E14. TIMBER STEPS AND RAILINGS

#### E14.1 General Description

E14.1.1 This Specification shall cover the supply and installation of timber steps and **pick-up** and installation of two (2) galvanized steel railings per the Drawings.

E14.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

#### E14.2 Materials

##### E14.2.1 Limestone Base Course

- (a) 19 mm (3/4") down limestone, per CW 3110.
- (b) Recycled concrete will not be accepted.

##### E14.2.2 Timbers

- (a) All wood for the timber courses shall be pressure treated spruce, pine or fir, No. 2 or better, no wane, bark, checking or splitting permitted. Wood shall be smooth and free of rough areas.

- (i) Size: All timbers to be 140 x 140 mm with a minimum length of 1200 mm.

E14.2.3 Rebar

- (a) Size: 13 mm Ø x 450 mm

E14.2.4 Preservative

- (a) Above Ground: Clear type suitable for outdoor applications above ground.
- (b) Below Ground: Type suitable for outdoor applications below ground.

E14.2.5 Railings

- (a) Galvanized steel railings to be picked up at the City of Winnipeg Waverly Yard at 1539 Waverley Street.

E14.2.6 Concrete Anchors: Size and type as specified in the railing manufacturer's stamped Shop Drawings.

E14.3 Construction Methods

E14.3.1 All work to be located and installed in accordance with the Drawings.

- (a) Contractor shall confirm proposed timber step locations with Contract Administrator prior to construction.
- (b) Contractor shall verify underground utility locations prior to construction and report any discrepancies to the Contract Administrator immediately.
- (c) Granular base course shall be compacted to a minimum of ninety five percent (95%) of Standard Proctor Density and as per Drawings.
- (d) Build work square, plumb, and accurate to required size, height, length, and depth, with joints closely fitted and properly secured.
- (e) All wood cuts shall be sanded to remove any burrs.
- (f) Each side of the stair riser is to be made with a single timber.
- (g) Treat in field, cuts and damages to surface of treated material with an appropriate, clear preservative. Ensure that damaged areas such as abrasions spike and screw holes are thoroughly saturated with field treatment solution.
  - (i) Apply preservative by dipping, or by brush, to completely saturate and maintain wet film on surface for a minimum of three (3) minutes to soak into lumber.
  - (ii) Re-treat surfaces exposed by cutting, trimming, or boring with liberal brush application of preservative before installation.

E14.3.2 Timbers shall be pinned with minimum of three (3) 13 mm Ø x 450mm rebar spaced equally along the timber.

E14.3.3 All timbers shall be cut neatly for a proper fit with no spaces or gaps between. Finished elevations shall ensure that all timbers are smooth, level, set plumb and spaced uniformly.

- (a) Joints to be lap joints.

E14.3.4 Railings to be anchored to CIP concrete footings installed as per E16 and the Drawings.

- (a) Install work plumb, true, square, level, straight and accurately and tightly fitted together and to surrounding Work.
- (b) Care shall be taken to ensure that no scratches, dents or other imperfections appear as a result of installation.

E14.3.5 Sod shall be repaired as required around edging and in accordance with the Drawings.

E14.4 Method of Measurement and Basis of Payment

E14.4.1 Method of Measurement shall be as follows:

- (a) Timber Edging and Railings will be measured on a lump sum basis for:
  - (i) "Supply and Install Timber Steps" and;



(ii) "Pick-up and Install Railings" on Form B: Prices.

E14.4.2 Basis of Payment shall be as follows:

- (a) Timber Edging and Railings will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

**E15. SITE FURNITURE**

E15.1 General Description

E15.1.1 This Specification shall cover the **pick-up** and installation of site furnishings as per the Drawings.

E15.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

E15.2 Materials

E15.2.1 All materials supplied under this specification shall be of a type approved by the Contract Administrator, and subject to inspection and testing by the Contract Administrator.

E15.2.2 All site furnishings as per the Drawings.

E15.3 Ordering

E15.3.1 To order City of Winnipeg supplied site furnishings email: [pwd-cps-orderdesk@winnipeg.ca](mailto:pwd-cps-orderdesk@winnipeg.ca)

E15.4 City of Winnipeg supplied Site Furnishings:

E15.4.1 City of Winnipeg supplied Site Furnishings are as follows:

(a) Tache Bench Composite w/ arms x 2 **THIRD CENTER ARM FOR ALL BENCHES**

(i) Product Number: 52501085GLV

(ii) Finish:

◆ Composite Slats: Cedar Tone Finish

◆ Metal: Galvanized

(iii) Specification:

<https://www.winnipeg.ca/ppd/Documents/CityPlanning/Parks/StandardConstructionDetails/100ParkEquipment/SCD-121A-Tache-Bench-Composite-with-arms.pdf>

E15.5 Concrete Foundations

E15.5.1 Concrete foundation materials per E16.

E15.6 Construction Methods

E15.6.1 All Work is to be located and installed in accordance with the Drawings, and associated SCDs and/or Manufacturer's written instructions and specifications, using approved non-rusting, tamper resistant fasteners to ensure solid, durable, finished work suitable for the purpose intended. Fasteners and assembly hardware shall be incidental to the Work.

E15.6.2 All furnishings and fixtures to be installed plumb and true to correct elevations and location, as directed by the Contract Administrator. The Contractor shall confirm proposed locations of all site furnishings with Contract Administrator prior to installation.

E15.6.3 All furnishings and fixtures to be carefully handled so that no parts will be bent, broken or otherwise damaged. Hammering is prohibited.

- (a) Damaged Site Furnishings will not be accepted.

E15.6.4 Concrete Foundations

- (a) Concrete foundation construction per E16.

E15.7 Method of Measurement and Basis of Payment

E15.7.1 Method of Measurement shall be as follows:

- (a) **Pick-up** and installation of Site Furnishings will be will be paid for at the Contract Unit Price per unit for:
  - (i) "Pick Up and Install Benches" on Form B: Prices
- (b) "Price shall be payment in full for supplying all materials and for performing all operations herein described and all other items incidental to the work included in this Specification.

E15.7.2 Basis of Payment shall be as follows:

- (a) Site Furnishings will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. The price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

**E16. FOUNDATIONS**

E16.1 General Description

- E16.1.1 Site furniture and railings are to be set in/upon concrete footings or piles as per the drawings to ensure stability and prevent frost heaving. The current Standard Construction Specifications of the City of Winnipeg, CW 2160 –latest revision - Concrete to be used in Underground Works, is to be utilized in the installation of the concrete works for all below ground components.

E16.2 Materials

E16.2.1 The specific concrete requirements shall be:

- (a) Sulphate resistant, Type 50 Cement;
- (b) 28 day compressive strength of 30 Mpa;
- (c) maximum aggregate size of 20mm, nominal;
- (d) slump 80 +/- 20mm;
- (e) maximum water/cement ratio 0.49.

E16.3 Installation

- E16.3.1 All site furniture posts shall be centred in the concrete footing such that there is a complete collar of concrete around each post and support. Where posts are not perfectly centred there should be a minimum of 2" concrete at any point around the post.

- E16.3.2 All railings post shall be surface mounted to the concrete footing with anchors as specified in the railing manufacturer's stamped shop drawing.

- E16.3.3 Footing depth shall be as per the Drawings.

E16.4 Method of Measurement and Basis of Payment

E16.4.1 Method of Measurement shall be as follows:

- (a) Foundations shall be incidental to the measurement of site furniture and railing installation listed above and as shown on Form B: Prices.

E16.4.2 Basis of Payment shall be as follows:

- (a) No separate payment shall be made for foundations as these items are incidental to the Work herein.

## **E17. TOPSOIL AND SODDING**

### **E17.1 General Description**

E17.1.1 This Specification shall amend and supplement CW 3510, CW 3520, and CW 3540 and cover the supply and installation of sodding and seeding.

- (a) The Contractor shall install mineral sod and a minimum 75 mm compacted thickness of topsoil, as required.

E17.1.2 The Work to be completed by the Contractor under this Specification shall include the supply of all materials, and the furnishings of all superintendence, overhead, labour, equipment, tools, and all other things necessary for and incidental to the satisfactory completion of all the Work shown on the Drawings and specified herein.

### **E17.2 General Instructions**

#### **E17.2.1 Quality Control**

- (a) Testing and Approval of Materials

- (i) Material testing may be required as per this Specification and as directed by the Contract Administrator.

### **E17.3 Materials and Construction Methods**

E17.3.1 Topsoil shall be as per CW 3540.

E17.3.2 Sod shall be as per CW 3510.

E17.3.3 The Contractor shall install sod in locations as shown on Drawings to cover areas indicated on Drawings.

E17.3.4 Any areas damaged beyond the areas indicated on the Drawings shall be the responsibility of the Contractor to restore through use of topsoil and sod, unless otherwise approved by the Contract Administrator.

E17.3.5 Areas to be sodded are to be laid out on Site and approved by the Contract Administrator before commencing Work. Work outside the limit approved by the Contract Administrator will not be measured and will not be paid for under this section but considered incidental to the Work.

E17.3.6 Where new sod will meet existing, employ a vertical shearing operation, such as using a sharp spade or edger, along the outside edges of the excavation to create a clean and definite line for the new sod to abut flush to.

**E17.3.7 Restoration of damaged areas other than areas indicated on the Drawings shall be paid for under "Site Restoration" on Form B: Prices and shall be achieved using topsoil and sod unless otherwise directed by the Contract Administrator.**

### **E17.4 Maintenance Period**

E17.4.1 Thirty (30) day maintenance period on sod and seed will commence at Total Performance and acceptance.

E17.4.2 Termination of maintenance period

- (a) Termination of maintenance period for sod per Section 9.10 of CW 3510.

### **E17.5 Method of Measurement and Basis of Payment**

E17.5.1 Method of Measurement shall be as follows:

- (a) Topsoil and sodding will be measured on a per square metre basis for:
  - (i) "Supply and Install Topsoil and Sod" on Form B: Prices.

**E17.5.2 Basis of Payment shall be as follows:**

- (a) Topsoil and sodding will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.