



**THE CITY OF WINNIPEG**

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 59-2012**

**ALEX BRIDGE PARK PLAYGROUND REDEVELOPMENT**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 ALEX BRIDGE PARK PLAYGROUND REDEVELOPMENT

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, September 12, 2012.

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

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

### **B3. SITE INVESTIGATION**

B3.1 Further to C3.1, the Bidder may view the Site without making an appointment.

### **B4. ENQUIRIES**

B4.1 All enquiries shall be directed to the Contract Administrator identified in D3.1.

B4.2 If the Bidder finds errors, discrepancies or omissions in the Bid Opportunity, or is unsure of the meaning or intent of any provision therein, the Bidder shall notify the Contract Administrator of the error, discrepancy or omission, or request a clarification as to the meaning or intent of the provision at least five (5) Business Days prior to the Submission Deadline.

B4.3 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator to all Bidders by issuing an addendum.

B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Bid Opportunity will be provided by the Contract Administrator only to the Bidder who made the enquiry.

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

### **B5. ADDENDA**

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

B5.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.

B5.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>

B5.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B5.2.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 8 of Form A: Bid. Failure to acknowledge receipt of an addendum may render a Bid non-responsive.

## **B6. SUBSTITUTES**

- B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
  - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
  - (c) identify any anticipated cost or time savings that may be associated with the substitute;
  - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
  - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 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.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.7, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B16.1(a).

## **B7. BID COMPONENTS**

- B7.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
- (b) Form B: Prices;
- (c) Design Drawings as per B11, and;
- (d) Component Descriptions as per B12.

B7.2 Further to B7.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B6.

B7.3 All components of the Bid shall be fully completed or provided, and submitted by the Bidder no later than the Submission Deadline, with all required entries made clearly and completely, to constitute a responsive Bid.

B7.4 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.

B7.5 If the Bid Submission is submitted by mail, courier or personal delivery, it shall be enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address, and shall be submitted to:

The City of Winnipeg  
Corporate Finance Department  
Materials Management Division  
185 King Street, Main Floor  
Winnipeg, MB R3B 1J1

B7.5.1 Samples or other components of the Bid Submission which cannot reasonably be enclosed in the envelope may be packaged separately, but shall be clearly marked with the Bid Opportunity number, the Bidder's name and address, and an indication that the contents are part of the Bidder's Bid Submission.

B7.6 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.

B7.7 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B16.1(a).

B7.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.

B7.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.

B7.8.2 Bids submitted by internet electronic mail (e-mail) will not be accepted.

## **B8. BID**

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

B8.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:

- (a) if the Bidder is a sole proprietor carrying on business in his own name, his 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 own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

- B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.
- B8.3 In Paragraph 3 of Form A: Bid, the Bidder shall identify a contact person who is authorized to represent the Bidder for purposes of the Bid.
- B8.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his 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 own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.
- B8.4.2 All signatures shall be original.
- B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

## **B9. PRICES**

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B9.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

## **B10. QUALIFICATION**

- B10.1 The Bidder shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba; and
  - (b) be financially capable of carrying out the terms of the Contract; and
  - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>

- B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
  - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
  - (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- B10.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B10.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

## **B11. DESIGN DRAWINGS**

- B11.1 The Bidder shall submit drawings that illustrate the proposed design and play equipment, such as plan, perspective and any other submissions to illustrate the design intent. Additional drawings may be requested prior to award for more detailed information.

## **B12. COMPONENT DESCRIPTIONS**

- B12.1 The Bidder shall submit component description and / or graphic or catalogue reference outlining specifications of play equipment components.

## **B13. OPENING OF BIDS AND RELEASE OF INFORMATION**

- B13.1 Bids will not be opened publicly.
- B13.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>
- B13.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>
- B13.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law.

## **B14. IRREVOCABLE BID**

- B14.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.
- B14.2 The acceptance by the City of any Bid shall not release the Bids of the next two lowest evaluated responsive Bidders and these Bidders shall be bound by their Bids on such Work for the time period specified in Paragraph 9 of Form A: Bid.



## **B15. WITHDRAWAL OF BIDS**

- B15.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B15.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
  - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
  - (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Bid withdrawn.
- B15.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

## **B16. EVALUATION OF BIDS**

- B16.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity or acceptable deviation there from (pass/fail);
  - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
  - (c) Total Bid Price (10 points) pursuant to B16;
  - (d) Design Drawings/Component Descriptions (90 points) pursuant to B16;
  - (e) economic analysis of any approved alternative pursuant to B6.
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B16.3 Further to B16.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B16.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B16.4.2 Further to B16.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.
- B16.4.3 Further to B16.1(c), the Award Authority may reject a Bid as being non-responsive if it exceeds the budget as shown on Form B: Prices.

- B16.4.4 The Total Bid Price shall be evaluated with a weighting of 10 points out of a total of 100 possible points. As such, the lowest Bidder shall receive the full 10 points, and the second lowest Bidder and subsequent Bidders shall be pro-rated accordingly.
- B16.5 Further to B16.1(d) Design Drawings/Component Description shall be evaluated with a weighting of 90 points out of a total of 100 possible points. Play areas will be evaluated considering the Bidder's Bid Submission and any other information required.
- B16.5.1 The Design shall be evaluated on the following criteria:
- (a) compliance with CSA Standards (pass/fail);
  - (b) play value (maximum 40 points):
    - (i) 8 points – Sensory/ Imaginative Play component(s), including fine motor skills;
    - (ii) 8 points – Climbing Component(s);
    - (iii) 7 points - Provides opportunities for appropriate social / interpersonal interaction and co-operative play;
    - (iv) 7 points – Motion Component(s);
    - (v) 5 points – Sliding Component(s) for both 2-12 year olds;
    - (vi) 5 points - Uniqueness of components as compared to similar playgrounds components within walking distance (400m) of the park as per E3.4(e).
  - (c) Designed for inclusive play using Universal Design principles – Accessible Play Area only (maximum 15 points):
    - (i) Complies with section 4.5.4 of the 2006 City of Winnipeg Accessibility Design Standards ([www.winnipeg.ca/ppd/Universal\\_Design.stm](http://www.winnipeg.ca/ppd/Universal_Design.stm))(pass/fail);
    - (ii) 6 points - Layout of the play area for integration of the wheelchair accessible components to promote inclusive play;
    - (iii) 6 points – Provision of tactile and auditory play experiences.
    - (iv) 3 points – Layout of the play area for persons with visual impairment
  - (d) Layout/circulation (maximum 25 points):
    - (i) 7 points - Efficient use of space within and between play elements;
    - (ii) 5 points - Flow and relationship between play area activities;
    - (iii) 5 points - Layout / orientation of components on Site and in relation to park entrances and seating areas;
    - (iv) 5 points – Orientation to provide good visibility to play area from the adjacent road;
    - (v) 3 points - Slide orientation (metal facing north).
  - (e) Durability (maximum 10 points):
    - (i) Use of durable / temper-resistant materials, low maintenance finishes and connector systems & ease of repair / replacement of the products used with the playground area.
- B16.6 Further to B16.5.1(a), if Contractor states play equipment components are compliant with CSA Standards which are not, liquidated damages shall be charged as per D15 should this result in additional design and/or meeting time on the part of the Contract Administrator.

## **B17. AWARD OF CONTRACT**

- B17.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B17.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.

- B17.2.1 Without limiting the generality of B17.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
  - (b) the prices are materially in excess of the prices received for similar work in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
  - (d) only one Bid is received; or
  - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B17.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B16.
- B17.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.
- B17.4 Notwithstanding C4, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B17.5 The Contract, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

## PART C - GENERAL CONDITIONS

### C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Construction* (Revision 2006 12 15) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Construction* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at [http://www.winnipeg.ca/matmgt/gen\\_cond.stm](http://www.winnipeg.ca/matmgt/gen_cond.stm)
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Construction*.

## **PART D - SUPPLEMENTAL CONDITIONS**

### **GENERAL**

#### **D1. GENERAL CONDITIONS**

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

#### **D2. SCOPE OF WORK**

D2.1 The major components of the Work to be done under the Contract shall consist of:

- (a) Excavation and Disposal;
- (b) Supply and Installation of play equipment and swings;
- (c) Supply and Installation of timber edging, subsurface drainage and safety surfacing;
- (d) Supply and Installation of retaining wall;
- (e) Supply and Installation of granular seating area;
- (f) Supply and Installation of bollards;
- (g) Pick-Up and Installation of site furniture and sandbox;
- (h) Supply & Installation of soil and seed; and
- (i) Supply & Installation of soil and sod.

#### **D3. CONTRACT ADMINISTRATOR**

D3.1 The Contract Administrator is:

Helen Fabbri  
City of Winnipeg  
Parks, Riverbanks and Community Initiatives Branch  
Planning and Land Use Division  
Planning, Property and Development Department  
Telephone No. (204) 986-6419  
Facsimile No. (204) 986-7524

D3.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

#### **D4. CONTRACTOR'S SUPERVISOR**

D4.1 At the pre-construction meeting, the Contractor shall identify his designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

#### **D5. NOTICES**

D5.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.

D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3,

D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.

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

The City of Winnipeg  
Chief Financial Officer

Facsimile No.: (204) 949-1174

D5.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:

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

Facsimile No.: (204) 947-9155

## **SUBMISSIONS**

### **D6. AUTHORITY TO CARRY ON BUSINESS**

D6.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

### **D7. SAFE WORK PLAN**

D7.1 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.

D7.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Safety/default.stm>

### **D8. INSURANCE**

D8.1 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) automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
- (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.

- D8.2 Deductibles shall be borne by the Contractor.
- D8.3 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.
- D8.4 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.

## **D9. PERFORMANCE SECURITY**

- D9.1 If the Contract Price exceeds one hundred thousand dollars (\$100,000.00), the Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
- (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
  - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
  - (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D9.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D9.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order and prior to the commencement of any Work on the Site.

## **D10. SUBCONTRACTOR LIST**

- D10.1 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.

## **D11. DETAILED WORK SCHEDULE**

- D11.1 The Contractor shall provide the Contract Administrator with a 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 C 4.1 for the return of the executed contract.
- D11.2 Detailed Work Schedule shall consist of the following dates:
- (a) Start date;
  - (b) Excavation & disposal;
  - (c) Installation of play equipment and swings;
  - (d) Installation of timber edging, sub-surface drainage and safety surfacing;
  - (e) Installation of retaining wall;
  - (f) Installation of granular seating areas;
  - (g) Installation of bollards;

- (h) Installation of site furniture and sand box;
- (i) Installation of soil and seed;
- (j) Installation of soil and sod; and
- (k) Expected completion.

D11.3 Other milestone dates appropriate to this project should also be included to make the Contract Administrator Aware of them.

## **SCHEDULE OF WORK**

### **D12. COMMENCEMENT**

D12.1 The Contractor shall not commence any Work until he is in receipt of a Purchase Order from the Award Authority authorizing the commencement of the Work.

D12.2 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 D6;
  - (ii) evidence of the workers compensation coverage specified in C6.15;
  - (iii) the Safe Work Plan specified in D7;
  - (iv) evidence of the insurance specified in D8;
  - (v) the performance security specified in D9;
  - (vi) the Subcontractor list specified in D10; and,
  - (vii) the Detailed work Schedule specified in D11.
- (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.

**D12.3 The Contractor shall order play equipment and submit this information to the Contract Administrator within seven (7) Calendar Days of receipt of the Purchase Order.**

**D12.4 The Contractor shall commence Work on Site within eight (8) weeks of receipt of the Purchase Order.**

### **D13. SUBSTANTIAL PERFORMANCE**

D13.1 The Contractor shall achieve Substantial Performance within fifteen (15) consecutive Working Days of the commencement of the Work as specified in D12.

D13.2 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.

D13.3 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.

### **D14. TOTAL PERFORMANCE**

D14.1 The Contractor shall achieve Total Performance within twenty (20) consecutive Working Days of the commencement of the Work as specified in D12.

D14.2 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.

- D14.3 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.

#### **D15. LIQUIDATED DAMAGES**

- D15.1 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.
- D15.2 The amount specified for liquidated damages in D15.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.
- D15.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### **D16. SCHEDULED MAINTENANCE**

- D16.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
- (a) Topsoil and Seed as specified in E14.
- D16.2 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.

#### **D17. SITE RESTORATION**

- D17.1 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.

### **CONTROL OF WORK**

#### **D18. JOB MEETINGS**

- D18.1 Regular weekly job meetings will be held at the Site. These meetings shall be attended by a minimum of one representative of the Contract Administrator, one representative of the City and one representative of the Contractor. Each representative shall be a responsible person capable of expressing the position of the Contract Administrator, the City and the Contractor respectively on any matter discussed at the meeting including the Work schedule and the need to make any revisions to the Work schedule. The progress of the Work will be reviewed at each of these meetings.
- D18.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

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

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

**D20. MEASUREMENT AND PAYMENT**

**D21. PAYMENT**

D21.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

**D22. WARRANTY**

D22.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire one (1) year thereafter, except where longer warranty periods are specified in the respective Specification sections, unless extended pursuant to C13.2.1 or C13.2.2, in which case it shall expire when provided for thereunder.

D22.1.1 For the purpose of Performance Security, the warranty period shall be one (1) year.

**D23. EXISTING SERVICES AND UTILITIES**

D23.1 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.

**D24. ACCESS TO SITE**

D24.1 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.

D24.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work and he shall be responsible for all damage resulting from his Work on private property.

**D25. PERMITS, NOTICES, LICENSES, CERTIFICATES, LAWS AND RULES**

D25.1 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.

D25.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.

D25.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.

D25.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.

D25.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.

D25.6 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.

## **D26. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY**

D26.1 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.

D26.2 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing park trees within the limits of the construction area:

- (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment within 2 metres of trees.
- (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25x100x2400 wood planks, or suitable protection 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 drip line of the trees shall be kept to a 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 drip lines of trees. The drip line 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.

D26.3 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.

D26.4 No separate measurement or payment will be made for the protection of trees.

## **D27. PEDESTRIAN SAFETY AND TRAFFIC MANAGEMENT**

D27.1 Further to CW 1130-R1, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while he is 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 him at his own expense, to the satisfaction of the Contract Administrator.

D27.2 Ambulance/ Emergency vehicle access must be maintained at all times.

## **D28. PROTECTION OF THE SURVEY INFRASTRUCTURE**

D28.1 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.

D28.2 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.

D28.3 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.

D28.4 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.

D28.5 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.

**D29. SITE ENCLOSURES**

D29.1 Temporary Site enclosures, as determined necessary at the pre-construction meeting, shall be erected and maintained as required for the duration of the construction period.

D29.2 Site enclosures shall be considered incidental to the Contract Work.

**FORM H1: PERFORMANCE BOND**  
(See D9)

KNOW ALL MEN BY THESE PRESENTS THAT

\_\_\_\_\_ ,  
(hereinafter called the "Principal"), and

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

\_\_\_\_\_ dollars (\$\_\_\_\_\_)

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

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

BID OPPORTUNITY NO. 59-2012

ALEX BRIDGE PARK PLAYGROUND REDEVELOPMENT

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

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

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

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

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

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

\_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

**SIGNED AND SEALED**  
in the presence of:

\_\_\_\_\_  
(Witness as to Principal if no seal)

\_\_\_\_\_  
(Name of Principal)

Per: \_\_\_\_\_ (Seal)

Per: \_\_\_\_\_

\_\_\_\_\_  
(Name of Surety)

By: \_\_\_\_\_ (Seal)  
(Attorney-in-Fact)

**FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT  
(PERFORMANCE SECURITY)**  
(See D9)

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

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

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 59-2012  
ALEX BRIDGE PARK PLAYGROUND REDEVELOPMENT

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

\_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_  
(Address of Contractor)

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

\_\_\_\_\_ Canadian dollars.

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

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

Partial drawings are permitted.

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

\_\_\_\_\_  
(Address)

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

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

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

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

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

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

This credit is subject to the Uniform Customs and Practice for Documentary Credit (1993 Revision), International Chamber of Commerce Publication Number 500.

\_\_\_\_\_  
(Name of bank or financial institution)

Per: \_\_\_\_\_  
(Authorized Signing Officer)

Per: \_\_\_\_\_  
(Authorized Signing Officer)





## PART E - SPECIFICATIONS

### GENERAL

#### E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

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

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
A.58-B	ALEX BRIDGE PARK– Playground Redevelopment – Existing Site Conditions & Removals
A.58-C	ALEX BRIDGE PARK – Playground Redevelopment – Proposed Site Plan
SCD-651A	DOUBLE TIMBER EDGING WITH CAP
SCD-650	ENGINEERED WOOD FIBRE SAFETY SURFACING DRAINAGE DIAGRAM
SCD-645	PARK PATH CRUSHED LIMESTONE
SCD-121A	TACHE BENCH COMPOSITE WITH ARMS
SCD-119	WASTE RECEPTACLE METAL SLAT TYPE
SCD-153	ENGLISH PARK SIGN WITH ADDRESS
SCD-105B	POST BOLLARD

Above Drawings are available on request in AutoCAD .dwg or Vectorworks format from the Contract Administrator.

### Site Development

#### E2. EXCAVATION

- E2.1 General Description
- E2.1.1 This specification shall cover the excavation and legal disposal of peastone safety surfacing from old play areas and play sand from the existing sandbox. It shall amend and supplement CW 3110-R11 and CW 3170. It shall also cover the provision of rough grading to ensure play equipment area will meet CSA standards for surfacing depth, play equipment area will drain, and to ensure the newly seeded areas as well as new granular area will drain.
- E2.1.2 The Contractor must ensure that the rough grading does not create tripping hazards and no areas of standing water remain.
- E2.1.3 All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner. The Work to be done by the Contractor under this specification shall include all labour, equipment and material necessary for and incidental to the satisfactory performance and completion of the Work herein specified.
- E2.1.4 Work shall include but not be limited to the following:

- (a) Excavate, add clean fill if necessary, and rough grade excess soil to the limits shown on Drawings to the depths necessary to achieve finish grade for:
  - (i) Subsurface drainage and adequate safety surfacing;
  - (ii) Soil and seed that is to cover the area where concrete pavers were removed in accordance with Drawings and as per E14;
  - (iii) Soil and sod to cover portions of the old existing play space and around the new timber edging and granular seating area in accordance with Drawings and as per E15; and
  - (iv) Granular Area – 175mm depth, in accordance with SCD-645 and Drawings and per E10.

## E2.2 Construction Methods

- E2.2.1 Excavation includes the removal of items (i.e. peastone, sand, and earth) 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.
- E2.2.2 Do not disturb adjacent items designated to remain in place.
- E2.2.3 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.
- E2.2.4 Contractor must coordinate with the Contract Administrator to ensure all removals have occurred.
- E2.2.5 Excavation should be coordinated with the installation of topsoil and seeding so as not to leave an open excavation area subject to ponding water.

## E2.3 Method of Measurement and Basis of Payment

- E2.3.1 Method of Measurement shall be as follows:
  - (a) Excavation and Grading shall be measured on a square metre basis for:
    - (i) "Excavate and Legally Dispose Existing Surface for New Play Area" on Form B: Prices.
- E2.3.2 Basis of Payment shall be as follows:
  - (a) Excavation and Grading will be paid for at the Contract Unit Prices on Form B: 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 Payment will be made for the Excavation and Disposal for the new granular seating area or for the new topsoil and seeded areas as these items are incidental to the work as outlined in E10 and E14.

## E3. PLAY EQUIPMENT

- E3.1 This specification shall cover the supply and installation of the Play Equipment as listed below and specified herein.
- E3.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.
- E3.3 The Contractor shall obtain all approvals including permit if required
- E3.4 **Play Area:**

- (a) Play equipment designed for children ages 2-12. Play equipment must provide the following play activities:
  - (i) Sensory & Imaginative Play;
  - (ii) Climbing;
  - (iii) Motion; and
  - (iv) Sliding.
- (b) Submission shall include a teeter-totter for 2-5 year olds;**
- (c) The design submission shall be evaluated as per B16.
- (d) If a playstructure is proposed, it must include 1 (one) transfer station for access of adult caregiver or reduced mobility access;
- (e) Further to B16.5.1(b)(vi) which reads “uniqueness of components as compared to similar playgrounds components within walking distance (400m) of the park”, the play equipment within walking distance (400m) to Alex Bridge Park is located at:
  - (a) Ryerson School Playground;
  - (b) Sandpiper Park; and
  - (c) Tranquil Bay Park.

E3.5 If colour is a feature of posts, top caps and panels, the Contract Administrator shall have the ability to modify specified colours from the proposed design after Contract Award. If the price of the equipment in the Bid Submission is subject to the colours of the proposed design, this must be indicated in the Bid Submission.

E3.6 Components which are unacceptable are the following:

- (a) Wooden structures;
- (b) Tube (enclosed) slides and enclosed crawl tubes;
- (c) Play panels with many small moving parts;
- (d) Talk Tubes;
- (e) Barrel rollers; and
- (f) Large number of plastic components.

E3.7 Components which are generally not accepted but may be considered are the following:

- (a) Cable rides;
- (b) Sand diggers;
- (c) Merry-go-rounds; and
- (d) Tire Swings.

E3.8 Playstructures

E3.8.1 General Description

- (a) If a Playstructure is specified, this specification shall cover the supply and installation of it.
- (b) Play equipment shall be installed in the play areas as shown on the attached Drawing A.58-C. The play equipment and their safety zones should fit into the proposed play areas as shown on Drawing A.58-C. Efficiency and good use of space will be considered in the evaluation of submissions.

E3.8.2 Materials

- (a) Posts / Caps
  - (i) All posts shall be a minimum 5” O.D. round or 4” square tubing.

- (ii) 3.5 " O.D. round or 3.0" square tubing will be permitted in circumstances where a multi-deck structure has decks of varied heights which are all under 4', or for structures with 2 decks or less.
  - (iii) 2<sup>3/8"</sup> O.D. round or 2<sup>3/8"</sup> square posts will be permitted in circumstances where there are no decks (access platforms only) and the site is not high intensity use.
  - (iv) All posts shall be fabricated from either aluminium (0.125" min. wall thickness) or galvanized steel (0.120" min. wall thickness) tubing. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating. The bottom end of the posts is to be sealed with a moisture barrier.
  - (v) Top caps shall be made of steel construction and shall be factory installed and secured in place with tamper proof, self-sealing rivets. Plastic top caps will be accepted if made of solid construction (hollow caps not accepted).
  - (vi) If painted colour is a feature of posts and top caps, it shall be a baked-on polyester powder coating. The powder coating finish shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance.
- (b) Decks (if applicable)
- (i) All decks shall be manufactured from vinyl-coated perforated steel or a steel core composite. Deck heights may vary to a maximum height of 6'.
- (c) Clamping System
- (i) All deck, rail and play component clamping systems shall be fabricated from zinc plated, galvanized steel, stainless steel or aluminum. Tamper proof, corrosion resistant fasteners shall be used to retain clamping systems.
- (d) Handrails, Safety Rails and Handloops (if applicable)
- (i) All handrails, safety rails and handloops shall be fabricated using a minimum of 15/16" (24mm) O.D. with a 120" wall thickness steel tubing. After all fabrication activities have occurred including end cuts, drill holes, bends and weld joints, all components shall be hot dipped galvanized.
  - (ii) Smooth all cut edges and weld joints prior to hot dip galvanizing and ensure that all tubing is free from burrs, cracks, defects and other imperfections.
- (e) Hardware
- (i) All fasteners shall be socketed and tamper proof in design, and either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.
  - (ii) All necessary hardware shall be provided.
- (f) Poly Components
- (i) Poly components such as slides and hoods shall be fabricated from U.V. stabilized, rotationally molded linear low-density polyethylene.
  - (ii) Poly components such as play panels shall be fabricated from compression molded solid colour, U.V. stabilized, high-density polyethylene.
- (g) Slides (if applicable)
- (i) Stainless steel. A minimum of one is required; plastic slide may be used for additional slides. North or east orientation preferred.
- (h) Each playstructure shall have kick plates and hand loops as required to meet the most recent Canadian Standards Association Standards.
- (b) Installation
- (a) Play equipment shall be installed as per manufacturer's specifications and in accordance with the most recent Canadian Standards Association Standards.
  - (b) All posts and other vertical items shall be plumb and true to vertical, if so designed.
  - (c) All decks shall be level, if so designed.

### E3.9.1 General Description

- (a) The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.
- (b) This specification shall cover the supply and installation of Independent Components as specified herein.
- (c) Independent Components shall be installed as per the proposed design, as the proposed budget will allow.
- (d) Independent Components shall be installed in the available areas as shown on Drawing A.58-C. The Components and their safety zones must fit into the proposed play area.

### E3.9.2 Materials

- (a) All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all parts and materials.
- (b) There shall be a minimum (or no) amount of hollow plastic components. Solid plastic is acceptable.
- (c) There shall be a minimum amount of solid elements which limit visibility through the Site.
- (d) Fasteners
  - (i) All hardware shall be tamper-proof in design and requiring special tools. It shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel. All necessary hardware and tools shall be provided.
- (e) Finishes
  - (i) Finishes shall meet or exceed ASTM standards for hardness, adhesion, impact and salt spray resistance. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating.
- (f) Slides
  - (i) If an independent slide is proposed, stainless steel is preferred. If other slides are proposed on the Site one may be plastic. North or east orientation preferred. If independent slide over 4' high is proposed, support posts must be minimum 5"O.D.
  - (ii) Tube (enclosed) slides and plastic spiral slides will not be accepted.
- (g) Foundations
  - (i) Shall be as per E5.

### E3.10 Method of Measurement and Basis of Payment

#### E3.10.1 Method of Measurement shall be as follows:

- (a) Play Equipment shall be measured on a lump sum basis for:
  - (i) "Supply and Install play equipment and independent components for 2-12 yr olds", on Form B: Prices

#### E3.10.2 Basis of Payment shall be as follows:

- (a) Play Equipment 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.

## E4. SWING SET

### E4.1 General Description

- E4.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.
- E4.1.2 This specification shall cover the supply and installation of minimum one (1) complete swing standard as specified herein:
- (a) Three Leg Heavy Duty Swing Frame, 2.4m ( 8ft.) high, 2-Bay, complete with two (2) slash-proof rubber, enclosed infant seats, and two (2) slash-proof rubber belt seat, heavy-duty chain, swing hangers and hammer locks / bolt links.
- E4.2 Materials
- E4.2.1 Topbeam
- (a) All topbeams shall be fabricated from 3 1/2" O.D. 7 gauge, RS40 galvanized steel pipe **OR 2 3/8" O.D. 5 gauge, RS40 galvanized steel pipe with anti-wrap swings**. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating.
- E4.2.2 Legs
- (a) All legs shall be fabricated from 2 3/8" O.D. 10 gauge, RS40 galvanized steel pipe. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating. The bottom end of the posts is to be sealed with a moisture barrier.
- E4.2.3 Yoke Clamps
- (a) All yoke clamps shall be either one piece construction and fabricated from 8 gauge, RS40 galvanized steel pipe or two piece, compression clamping cast aluminum or galvanized metal complete with tamper-proof hardware.
- E4.2.4 Swing Hangers
- (a) All swing hangers shall be fabricated from galvanized malleable iron and have oil impregnated bearings pressed in.
- E4.2.5 Swing Chain
- (a) All swing chain shall be 4/0 straight link, galvanized steel.
- E4.2.6 Enclosed Infant (Bucket) Seats
- (a) All enclosed infant seats shall be moulded of U.V. stabilized, high quality, rubber with a tempered stainless steel reinforcement plate insert moulded inside, rendering the seats slashproof. Infant seats shall be fully enclosed to prevent slipping out and provide extra lower back support.
- E4.2.7 Belt Seats
- (a) All belt seats shall be moulded of U.V. stabilized, high quality, rubber with a tempered stainless steel reinforcement plate insert moulded inside, rendering the seats slashproof. The perimeter shall be moulded to form a blunt, impact absorbing edge.
- E4.2.8 Hardware
- (a) All fasteners shall be tamper proof in design, requiring special tools. The fasteners shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.
- E4.2.9 Concrete Foundations
- (a) Post shall be installed into a concrete footing the composition of which is detailed in E5.
- E4.3 Installation
- E4.3.1 Installation shall be in accordance with Manufacturers specifications.

- E4.3.2 Top rail is to be level and posts securing anchored in concrete.
- E4.3.3 Swing seats shall not be installed until the protective surfacing (in accordance with E8) has been installed.
- E4.4 Method of Measurement and Basis of Payment
- E4.4.1 Method of Measurement shall be as follows:
- (a) Swing Standard will be measured on a lump sum basis for: "Supply and Install New 2-Bay (2 Belt, 2 Baby Seat) Swingset" on Form B: Prices.
- E4.4.2 Basis of Payment shall be as follows:
- (a) Swing Standard 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.

## E5. FOUNDATIONS

### E5.1 General Description

- E5.1.1 All playground equipment posts, bases and anchors are to be set in concrete footings or piles to ensure stability and prevent frost heaving. An alternative to concrete footings or piles that may be approved includes a welded and secured rail mounting system. 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.

### E5.2 Materials

- E5.2.1 The specific concrete requirements shall be:
- (a) Sulfate 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.

### E5.3 Installation

- E5.3.1 All posts and supports 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.
- E5.3.2 All concrete footings for play equipment shall be a **minimum of 3' depth**, or in accordance with Manufacturer's specifications, whichever is greater.

### E5.4 Method of Measurement and Basis of Payment

- E5.4.1 Method of Measurement shall be as follows:
- (a) Foundations shall be incidental to the measurement of Play Equipment listed above and as shown on Form B: Prices.
- E5.4.2 Basis of Payment shall be as follows:
- (a) No separate payment shall be made for play equipment foundations.



## **E6. MAINTENANCE KITS**

E6.1 All play equipment shall include the supply of maintenance kits. Maintenance kits shall include maintenance manuals, complete manufacturer's parts lists, touch-up paint, PVC repair paint, 10% extra of each bolt, washer and any other hardware utilized on the play equipment, and all special tools necessary for assembly and maintenance.

E6.2 There shall be no payment for the maintenance kits.

## **E7. TIMBER EDGING**

E7.1 General Description

E7.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.

E7.1.2 This specification shall cover the supply and installation of single-tier timber edging along the boundary between the granular pad and the wood fibre of the new play area, 2-tier timber edging (as per SCD 651A) to contain the west side of the wood fibre safety surfacing of the new play area and 3-tier timber edging behind the sand box area as shown on Drawing A.58-C.

E7.2 Materials and Method

E7.2.1 Cap shall be untreated Pedra or composite. Top edges of all exposed timbers shall have an 8mm (45°) chamfer. The cap shall be pre-drilled and screwed with two screws at each end of the timber and at opposite sides at 600mm O.C.

E7.2.2 All wood for the bottom rows 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. All timbers to be 150 x 150mm with a minimum length of 1200mm. All ends and cuts shall be treated with preservative before being secured. Use longest lengths possible.

E7.2.3 Edging material shall be cut neatly for a proper fit with no spaces or gaps between. Finished elevations shall ensure that all edging material is smooth, level, set plumb and spaced uniformly. Joints to be butt joints. Joints in straight runs are to be lapped over timber by a minimum of 600mm.

E7.2.4 Turf shall be repaired as required around edging in accordance with City of Winnipeg Standard Specifications for Soil and Seeding.

E7.3 Method of Measurement and Basis of Payment

E7.3.1 Method of Measurement shall be as follows:

- (a) Edging will be measured on a linear metre basis for:
  - (i) "Supply and Install New Single Tier Timber Edging w/ Cap;"
  - (ii) "Supply and Install New 2-Tier Timber Edging w/ Cap;" and
  - (iii) "Supply and Install New 3-Tier Timber Edging w/ Cap;"

E7.3.2 Basis of Payment shall be as follows:

- (a) Timber edging 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.

## **E8. PRECAST CONCRETE RETAINING WALL**

E8.1 Description

- E8.1.1 The specification shall cover the supply and installation of precast concrete retaining wall as shown on Drawing A.58-C.
- E8.1.2 Wall heights vary from 0.3m (1') to 0.9m (3') and are described as follows moving from north to south of the play area.
- 4m length at 0.3m height;
  - 15m length at 0.6m in height;
  - 23m length at 0.9m in height; and
  - 4m length at 0.6m in height.
- E8.2 Materials
- E8.2.1 Retaining wall blocks shall be Barkman Pisa II or substitute approved in accordance with B6. Colour shall be Desert Buff.
- E8.2.2 Capstone shall be Barkman 14" splitface cap or substitute approved in accordance with B6. Colour shall be Desert Buff.
- E8.2.3 Granular limestone base is to be crushed stone or gravel having hard angular particles, free from clay lumps, cementation, organic material, frozen material or other deleterious materials.
- E8.2.4 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.
- E8.2.5 Drainage pipe shall be placed at the base of the wall in a manner consistent with the details provided. It shall be connected to the playground subsurface drain or drain to air.
- E8.3 Construction Methods
- E8.3.1 The Contractor shall excavate for the base course, compact, install the geotextile, install the base granular and compact to 100% of proctor density.
- E8.3.2 The wall shall be then built in accordance with manufacturers instructions, backfilling with granular as necessary.
- E8.3.3 The top two courses of the wall shall be attached with continuous concrete adhesive. (mastic)
- E8.3.4 The capstone shall be attached to the top course with a **double bead** of continuous concrete adhesive. (mastic) Contract Administrator to approve mastic before application.
- E8.4 Method of Measurement and Basis of Payment
- E8.4.1 Method of Measurement shall be as follows:
- (a) Precast Concrete Retaining Wall shall be measured on a linear metre basis for:
    - (i) "Supply and Install New Barkman Pisa II precast concrete block retaining wall" on Form B: Prices.
- E8.4.2 Basis of Payment shall be as follows:
- (a) Precast Concrete Retaining Wall 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. Walls segments of different heights, individual rows of blocks or capstone length will not be measured separately. Said payment shall be understood to include all items necessary and incidental to supply and installation of the wall including but not limited to excavation, compaction, adhesives, geotextile, weeping tile and granular.

## **E9. PROTECTIVE SURFACING AND SUB-SURFACE DRAINAGE**

### **E9.1 General Description**

E9.2 This specification shall cover the supply and install of wood fibre safety surfacing and associated sub-surface drainage.

### **E9.3 Wood Fibre Surfacing**

#### **E9.3.1 Description**

- (a) This specification shall cover the supply and installation of Wood Fibre Surfacing within the Play Equipment Area(s).
- (b) This specification shall cover the supply and installation of Wood Fibre Surfacing to drain externally as per Drawing SCD 650.

#### **E9.3.2 Materials**

- (a) Wood Fibre product shall be either Zeagar Woodcarpet or Fibar FibarSystem 200 or 300 products or substitute in accordance with B6.
- (b) Wood Fibre surfacing shall be supplied by an authorized distributor and delivery slips are to be submitted to the Contract Administrator prior to installation.

- (i) Contact for Woodcarpet:

- Zeagar Bros. Inc.
  - 4000 East Harrisburg Pike
  - Middletown, PA 17057
  - USA
  - Ph: (1-888) 346-8524 or (717) 944-7481
  - Fax (717) 944-7681
  - [sales@zeager.com](mailto:sales@zeager.com)

- (ii) Contact for FibarSystem 200 or 300:

- The Fibar Group LLC
  - 80 Business Park Drive, Suite 300
  - Armonk, NY 10504-1705
  - USA
  - Ph: (800) 342-2721
  - Fax: (914) 273-8659
  - [info@FibarPlaygrounds.com](mailto:info@FibarPlaygrounds.com)

- (c) If substitute to Zeagar Woodcarpet or Fibar FibarSystem 200 or 300 is proposed, it must meet the following conditions:

- (i) materials must be IPEMA certified Engineered Wood Fiber
  - (ii) material must consist of random-sized, clean, engineered hardwood chips. Standard wood chips or bark mulch are not acceptable.
  - (iii) materials must meet or exceed ASTM F1292 standards for impact attenuation
  - (iv) materials must be certified by the CSA and approved for playground use
  - (v) materials must comply with ASTM F1951 for accessibility under the Canadians with Disabilities Act
  - (vi) materials must be covered by \$10,000,000.00 product liability insurance as well as provide a minimum 10 year warranty against loss of resiliency
- (d) Wood Fibre surfacing shall include wood fibre, filter cloth, subsurface drainage system and mats under swings and ends of slides.

- (e) Mats are to be installed directly on top of the geotextile fabric and secured in place with two (2) duckbill anchors per mat.

#### E9.3.3 Construction Methods

- (a) Wood Fibre shall be installed within the play areas, as defined by the timber edging to a minimum depth of 200 mm (after compaction). In the case where proposed play equipment includes a maximum fall height greater than 2.4m (8'), depth of material to directly correspond to maximum fall height of play equipment in accordance with manufacturer's specifications.
- (b) The installation of the Wood Fibre shall be done immediately after the play equipment has been installed.
- (c) Installation of entire system, including fibre, filter cloth, subsurface drainage and mats under swings and slide ends shall be done according manufacturer's instructions. Adequate drainage within play equipment area must be ensured as per same.
- (d) Subsurface of play area shall be graded to drain to one edge of the play area, and area cleared of any debris which inhibit proper drainage or installation of products. 100mm drainage pipe shall be installed from the subsurface drainage system within the play area to run outside of the play area perimeter to drain towards an existing catch basin or low area, as per instruction by the Contract Administrator. The cost of this shall be included in the price for the wood fibre supply and installation.
- (e) Filter fabric must be cut and fit around playground equipment footings and overlap seams by 300mm.
- (f) Installation shall be done by equipment sized to suit the Work being done and the Wood Fibre shall be spread by hand as necessary in the immediate vicinity of the play equipment so as not to damage same. The play equipment shall be swept clean to the satisfaction of the Contract Administrator after installation of the Wood Fibre.

#### E9.4 Method of Measurement and Basis of Payment

##### E9.4.1 Method of Measurement shall be as follows:

- (a) Protective Surfacing will be measured on a square metre basis for:
  - (i) "Supply and Install New Engineered Wood Fibre Safety Surfacing, including Drainage" on Form B: Prices.

##### E9.4.2 Basis of Payment shall be as follows:

- (a) Protective Surfacing 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.

##### E9.4.3 Basis of Payment shall be as follows:

- (a) Protective Surfacing 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.

#### E9.5 Sub-Surface Drainage

##### E9.5.1 Description

- (a) This Work shall consist of providing and placing a geocomposite prefabricated drain system as required in the design submission and as described on the drawings and herein. Drainage system shall be installed in accordance with these specifications and

in close conformity with the locations and dimensions as shown on the plans or specified by the Contract Administrator. The quantities of drain as shown may be increased or decreased at the direction of the Contract Administrator based on actual site conditions that occur during construction of the project. Such variations in quantity will not be considered as alterations in the details of construction or a change in the character of the Work.

E9.5.2 Material

- (a) Drainage pipe will be Multi-Flow or approved substitute in accordance with B6. Drainage pipe will be 150 mm (6"). The manufacturer will size and approve all fittings for use with Multi-Flow or approved substitute drainage pipe.
- (b) The drain conduit shall be of flexible, prefabricated, rounded rectangular shaped, composite product. The drain conduit will be wrapped with a non-woven geotextile and will be a non-woven needle-punched construction and consist of long-chain polymeric fibres composed of polypropylene, polyethylene or polyamide. The fibres will be oriented into a multi-directional stable network whereby they retain their positions relative with each other and allow the passage of water as specified. The fabric will be free of any chemical treatment or coating, which reduces permeability and will be inert to chemical commonly found in soil. The geotextile will conform to the following minimum average roll values.

Weight	ASTM D-3776	3.0 - 4.0
Tensile Strength	ASTM D-4632	100 - 130
Elongation %	ASTM D-4632	50 - 70
Puncture, lb	ASTM D-751	35 - 60
Mullen Burst, psi	ASTM D-3786	110 - 215
Trapezoidal Tear, lb	ASTM D-4533	40 - 42
Coefficient of Permeability	ASTM D-4491	.2 - .4 cm/sec
Flow Rate, gpm/ft <sup>2</sup>	ASTM D-4491	100 - 140
Permittivity, 1/sec	ASTM D-4491	1.3 – 2.0
Apparent Opening Size	ASTM D-4751	60/70 Max. US Std Sieve Opening
Seam Strength, lb/ft	ASTM D-4595	100
Fungus	ASTM G-21	No Growth

- (c) The drainage core shall be made of a high-density polyethylene. The core shall be constructed using interconnected corrugated pipes that define and provide the flow channels and structural integrity of the drain. The geotextile shall function only as a filter. The core of the edge drain shall conform to the following physical property requirements.

Thickness, inches	ASTM D-1777	1.0
Flow Rate, gpm/ft*	ASTM D-4716	29
Compressive Strength, psf	ASTM D-1621 (modified sand method)	6000
Pipe Stiffness, pii	ASTM D-2412	100

\* At gradient = 0.1, pressure = 10 psi for 100 hours.

- (d) Fittings
  - (i) The fittings used with the edge drain shall be of a snap together design. In no case shall any drainage product be joined without the use of the manufacturers

connector designed specifically for the purpose. Cleanouts will be provided as indicated on the drawing.

- (e) Pipe
  - (i) Pipe for drain outlet laterals will be either 75 mm (3") PVC pipe meeting the requirements of ASTM D-2729 or ASTM F-949, or high-density polyethylene pipe meeting the requirements of AASHTO M252.
  - (ii) A rodent screen made of 0.3 inch by 0.3-inch square opening size, 0.063-inch gauge, stainless steel or galvanized, welded wire mesh shall be installed in each outlet lateral line. When using galvanized welded wire mesh, the rodent screen shall be galvanized after it has been formed to the shape and dimensions shown on the plans or specified by the Contract Administrator.

#### E9.5.3 Emitter

- (a) Shall be a 3" polyolefin pop-up drainage emitter with elbow joint, product reference no. NDS# 620 or approved substitute in accordance with B6. Multiflow, or approved substitute, shall be connected to emitter by using manufacturer's adaptor for connecting drainage pipe to 75mm or 100mm round orifice on appropriate hardware.
  - (i) Contact for Emitter:
    - Consolidated Turf
    - 986 Powell Avenue
    - Winnipeg, Manitoba
    - R3H 0H6
    - Tel: 1-204-633-7276
    - Fax: 1-204-633-3447

#### E9.5.4 Backfill for Trenches

- (i) Backfill will be coarse sand whose particle size is defined as less than 5% retained on a # 10 screen and less than 5% passing through a # 30 (US Std Sieve) In no case will more than 1% pass a # 60 screen.

#### E9.5.5 Methods

- (a) The layout of the subdrain is to be marked on Site and approved by the Contract Administrator prior to trenching. Trenches shall be a min. 150mm in width. Optimum location for extending subdrain beyond the play area limits to be determined on site. Bidder shall include approximately 24m of drainage pipe beyond play area limits in cost for sub-surface drainage. Drainage pipe to be capped with emitter as described herein. Cost for emitter shall be included in cost for sub-surface drainage.
- (b) Subdrain is to be laid on the prepared surface to facilitate cross movement of water. Subdrain shall be installed below geotextile and in conformance with details provided.
- (c) Contractor is to protect subdrain from excessive weight during the duration of construction and to repair and make good any pipe collapsed prior to acceptance.
- (d) Fittings for the drain will be installed in accordance with the manufacturer's recommendations and Specification.
- (e) Any damaged edge drain or outlet lateral will be replaced or repaired by splicing in an undamaged section of drain at the Contractor's expense. The repair must be in accordance with the manufacturers specification and to the satisfaction of the Contract Administrator.

#### E9.6 Method of Measurement and Basis of Payment

##### E9.6.1 Method of Measurement shall be as follows:

- (a) Sub-surface Drainage shall be incidental to the measurement of Wood Fibre Surfacing listed above and as shown on Form B: Prices.

E9.6.2 Basis of Payment shall be as follows:

- (a) No separate payment shall be made for Sub-surface Drainage.

## **E10. GRANULAR AREA**

E10.1 Description.

E10.1.1 This Specification shall amend and supplement the City of Winnipeg Specification CW 3110-R11. The Work to be done by the Contractor under this Specification shall cover all phases of supply and placement of crushed limestone surfacing materials necessary to install a Granular Area as shown on Drawing A.58-C.

E10.2 Materials

E10.2.1 The materials of the Granular Area shall be as per Drawing SCD-645, "Park Path – Crushed Limestone."

E10.3 Construction Method

E10.3.1 The Work included in the establishment of the Granular Area shall include:

- (a) The Contractor shall survey and stake out the proposed Granular Area prior to the start of construction as shown on the construction drawings. Layout of expanded Seating Areas shall be checked and confirmed with Contract Administrator prior to construction.
- (b) Excavation of Granular Area shall be as per E2.
- (c) Subgrade to be compacted.
- (d) All granular base coarse shall be placed and compacted to the finished thickness as specified on the drawings.
- (e) Base Coarse and Capping Coarse shall be compacted to a minimum of ninety five percent (95%) of Standard Proctor Density.

E10.4 Method of Measurement and Basis of Payment

E10.4.1 Method of Measurement shall be as follows:

- (a) Granular Seating Area shall be measured on a square metre basis for:
  - (i) "Supply and Install New Granular Area".

E10.4.2 Basis of Payment shall be as follows:

- (a) Granular Area 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. This price shall be full payment for excavation, subgrade compaction, supply and installation of base coarse and top coarse, 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.

## **E11. SITE FURNITURE**

E11.1 Description

E11.1.1 This specification shall cover the pick-up and installation of one (1) galvanized metal slat waste receptacle, one (1) double-sided English park sign, one (1) galvanized metal frame composite benches with arms, in-ground mount, and one (1) galvanized metal frame composite benches with arms, surface mount. The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawing

A.58-C and specified herein. Supply includes pick up and payment from source identified below.

## E11.2 Materials

E11.2.1 All materials supplied under this specification shall be of a type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.

E11.2.2 Site Furniture shall be:

- (a) Waste Receptacle – Metal slat type, galvanized frame as per SCD-119, Product # **52501062GLV**, or substitute approved in accordance with B6.
- (b) Bench: Tache bench with arms, 72” long, galvanized frame, cedar coloured recycled plastic, with **inground mounting**, or approved equal in accordance with B6.
- (c) Bench: Tache bench with arms, 72” long, galvanized frame, cedar coloured recycled plastic, with **surface mounting**, or approved equal in accordance with B6.
- (d) Park Sign: English park sign (double sided), as per SCD-153, with the name “ALEX BRIDGE PARK” along with address: “685 Dalhousie Drive.”

(i) Contact for Waste Receptacle, Benches and Park Sign:

Aaron Lennon

Supervisor of Central Repair/Manufacturing Facility

City of Winnipeg

Fleet Management Agency Division

Public Works Department

215 Tecumseh St

Winnipeg. MB R3E 3S4

Email: [ALennon@winnipeg.ca](mailto:ALennon@winnipeg.ca)

## E11.3 Construction Methods

- (a) All Work is to be located and installed in accordance with the Drawings and SCD-119, SCD-121A and SCD-153, and following manufacturer’s instructions, using approved non-rusting, vandal resistant fasteners to ensure solid, durable, finished work suitable for the purpose intended. Fasteners and assembly hardware shall be incidental to the Work;
- (b) 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;
- (c) All furnishings and fixtures to be carefully handled so that no parts will be bent, broken or otherwise damaged. Hammering is prohibited;
- (d) Install as per manufacturer’s instructions and the attached drawings.

## E11.4 Method of Measurement and Basis of Payment

E11.4.1 Method of Measurement shall be as follows:

- (a) Site Furniture will be measured on a per unit basis for the following items:
  - (i) “Pick Up and Install New Metal Slat Waste Receptacle”;
  - (ii) “Pick Up and Install New Benches”; and
  - (iii) “Pick Up and Install New Double-Sided English Park Sign” on Form B: Prices.

E11.4.2 Basis of Payment shall be as follows:

- (a) Site Furniture 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.

## **E12. PAINTED WOODEN SANDBOX**

### **E12.1**

(a) Description

- (i) This specification shall cover the supply and installation of one (1) Painted Wooden Sandbox as well as two (2) cubic metres of playsand. The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawing A.58-C and specified herein.

(b) Materials

- (i) All materials supplied under this specification shall be of a type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.

(c) Products:

- (i) Painted Wooden Sandbox shall be as supplied by City of Winnipeg.

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### **E12.2 Method and Measurement of Payment**

#### **E12.2.1 Method of Measurement shall be as follows:**

(a) Painted Wooden Sandbox will be measured on a per unit basis for:

- (i) "Pick-Up and Install New Sandbox (includes playsand)" on Form B: Prices. Painted Wooden Sandbox shall be free of charge for supply. Pick up from Tache Avenue location and installation on-site shall be a lump sum charge. Supply and installation of playsand for sandbox will be measured in a lump sum charge and be included in the price for the sandbox.

#### **E12.2.2 Basis of Payment shall be as follows:**

- (i) Sandbox 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.

## **E13. POST BOLLARD**

### **E13.1 Description**

E13.1.1 This Specification will cover the supply and installation of post and chain fencing as per SCD-105B and as shown on the drawings. This specification will cover supply and installation of all labour, materials, equipment and services necessary for the supply and installation of a bollard fence as shown on the drawings.

### **E13.2 Materials**

- (a) Wood bollard posts shall be Western Red Cedar, free of bark, solid core, air dried, pentachlophenol dipped after shaping and drilling- or Manitoba Pine, free of bark, solid core, rough not turned and bolden treated under pressure.
- (b) 19mm down limestone.
- (c) Bollard posts shall be to the size and dimensions as indicated on the construction drawings.

### **E13.3 Construction Methods**

E13.3.1 Installation of wood bollards shall be as per SCD-105B.

- (a) Bollard posts shall be installed true and plumb.
- (b) Tops of bollard posts shall follow final site grades.
- (c) Backfill bollard post excavations with 19mm down limestone. Tamp material thoroughly.

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

E13.4.1 Method of Measurement shall be as follows:

- (a) The supply and installation of bollards shall be measured on a per item basis for:
  - (i) "Supply and Install New Post Bollard" on Form B: Prices.

E13.4.2 Basis of Payment shall be as follows:

- (a) Bollards 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.
- (b) The cost of chain shall be incidental to this Work.

## **E14. SOIL AND SEED**

### **E14.1 Description**

E14.1.1 This Specification shall amend and supplement the City of Winnipeg Specifications CW 3510-R9, CW 3520-R5 and CW 3540-R5. The Contractor shall install seed and a minimum 75mm compacted thickness of topsoil, as required.

E14.1.2 Excavation for soil and seed shall be as per E2.

E14.1.3 Former Concrete Paver Area: The Contractor shall install soil and seed to cover the area where existing concrete pavers were removed as shown in Drawing A.58-C.

E14.1.4 Damaged areas: Restoration of damaged areas other than as outlined above shall be incidental to the Work. No separate payment shall be made. Restoration shall be achieved using topsoil and seed unless otherwise directed by the Contract Administrator.

E14.1.5 Thirty (30) day maintenance period on sod will commence at Total Performance and acceptance.

**E14.2 Method of Measurement and Basis of Payment**

**E14.2.1 Method of Measurement shall be as follows:**

- (a) Seeding will be measured on a square metre basis for "Supply and Install New Soil and Seed" on Form B: Prices.

**E14.2.2 Basis of Payment shall be as follows:**

- (a) Seeding 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 including excavation, 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. SOIL AND SOD**

**E15.1 Description**

E15.1.1 This Specification shall amend and supplement the City of Winnipeg Specifications CW 3510-R9, CW 3520-R5 and CW 3540-R5. The Contractor shall install mineral sod and a minimum 75mm compacted thickness of topsoil, as required.

E15.1.2 Excavation for soil and sod shall be as per E2.

E15.1.3 Former Play Areas: The Contractor shall install soil and sod to cover portions of the existing play space as shown in Drawing A.58-C.

E15.1.4 New Play Area and Granular Area: The Contractor shall install soil and sod around the perimeter of the newly constructed granular area, and new timber edging to clean up turf disturbed by the Work, if necessary.

E15.1.5 Thirty (30) day maintenance period on sod will commence at Total Performance and acceptance.

**E15.2 Method of Measurement and Basis of Payment**

**E15.2.1 Method of Measurement shall be as follows:**

- (a) Sodding will be measured on a square metre basis for "Supply and Install New Soil and Sod" on Form B: Prices.

**E15.2.2 Basis of Payment shall be as follows:**

- (a) 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.