

THE CITY OF WINNIPEG

REQUEST FOR PROPOSAL

RFP NO. 392-2017

WHITEGATES PARK PLAYGROUND REDEVELOPMENT

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 WHITEGATES PARK PLAYGROUND REDEVELOPMENT

B2. SUBMISSION DEADLINE

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, June 28th, 2017.
- B2.2 Proposals 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 Proponent 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 Proponent finds errors, discrepancies or omissions in the proposal, or is unsure of the meaning or intent of any provision therein, the Proponent shall promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.
- B4.3 If the Proponent is unsure of the meaning or intent of any provision therein, the Proponent should request clarification as to the meaning or intent prior to the Submission Deadline.
- B4.4 Responses to enquiries which, in the sole judgment of the Contract Administrator, require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator to all Proponents by issuing an addendum.
- B4.5 Responses to enquiries which, in the sole judgment of the Contract Administrator, do not require a correction to or a clarification of the Request for Proposal will be provided by the Contract Administrator only to the Proponent who made the enquiry.
- B4.6 The Proponent shall not be entitled to rely on any response or interpretation received pursuant to B4 unless that response or interpretation is provided by the Contract Administrator in writing.

B5. CONFIDENTIALITY

- B5.1 Information provided to a Proponent by the City or acquired by a Proponent by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:
 - (a) was known to the Proponent before receipt hereof; or
 - (b) becomes publicly known other than through the Proponent; or
 - (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.
- B5.2 The Proponent shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

B6. ADDENDA

- B6.1 The Contract Administrator may, at any time prior to the Submission Deadline, issue addenda correcting errors, discrepancies or omissions in the Request for Proposal, or clarifying the meaning or intent of any provision therein.
- B6.2 The Contract Administrator will issue each addendum at least two (2) Business Days prior to the Submission Deadline, or provide at least two (2) Business Days by extending the Submission Deadline.
- B6.2.1 Addenda will be available on the Bid Opportunities page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/bidopp.asp.
- B6.2.2 The Proponent is responsible for ensuring that he/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- B6.3 The Proponent shall acknowledge receipt of each addendum in Paragraph 9 of Form A: Proposal. Failure to acknowledge receipt of an addendum may render a Proposal non-responsive.

B7. SUBSTITUTES

- B7.1 The Work is based on the Plant, Materials and methods specified in the Request for Proposal.
- B7.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B7.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least two (2) Business Days prior to the Submission Deadline.
- B7.4 The Proponent shall ensure that any and all requests for approval of a substitute:
 - (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute:
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B7.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B7.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Proponent who requested approval of the substitute.

- B7.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Proponents. The Proponent requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B7.7 If the Contract Administrator approves a substitute as an "approved equal", any Proponent may use the approved equal in place of the specified item.
- B7.8 If the Contract Administrator approves a substitute as an "approved alternative", any Proponent bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B20.
- B7.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.

B8. PROPOSAL SUBMISSION

- B8.1 The Proposal shall consist of the following components:
 - (a) Form A: Proposal;
 - (b) Form B: Prices;
- B8.2 The Proposal should also consist of the following components:
 - (a) Design Drawings in accordance with B11;
 - (b) Component Description, in accordance with B12;
- B8.3 Further to B8.1, all components of the Proposal shall be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely.
- B8.4 Further to B8.2, all components of the Proposal should be fully completed or provided in the order indicated, and submitted by the Proponent no later than the Submission Deadline, with all required entries made clearly and completely.
- B8.5 The Bid Submission may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B8.6 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 Proponent's name and address, and shall be submitted to:

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

- B8.6.1 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 Proponent's name and address, and an indication that the contents are part of the Proponent's Bid Submission.
- B8.7 Proponents are advised that inclusion of terms and conditions inconsistent with the Request for Proposal, will be evaluated in accordance with B20.1(a).
- B8.8 If the Bid Submission is submitted by facsimile transmission, it shall be submitted to 204 949-1178.

- B8.8.1 The Proponent is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B8.8.2 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B9. PROPOSAL (SECTION A)

- B9.1 The Proponent shall complete Form A: Proposal, making all required entries.
- B9.2 Paragraph 2 of Form A: Proposal shall be completed in accordance with the following requirements:
 - (a) if the Proponent is a sole proprietor carrying on business in his/her own name, his/her name shall be inserted;
 - (b) if the Proponent is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Proponent is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Proponent is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B9.2.1 If a Proposal is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B9.2.
- B9.3 In Paragraph 3 of Form A: Proposal, the Proponent shall identify a contact person who is authorized to represent the Proponent for purposes of the Proposal.
- B9.4 Paragraph 11 of Form A: Proposal shall be signed in accordance with the following requirements:
 - (a) if the Proponent is a sole proprietor carrying on business in his/her own name, it shall be signed by the Proponent;
 - (b) if the Proponent is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
 - (c) if the Proponent is a corporation, it shall be signed by its duly authorized officer or officers and the corporate seal, if the corporation has one, should be affixed;
 - (d) if the Proponent is carrying on business under a name other than its own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.
- B9.4.1 The name and official capacity of all individuals signing Form A: Proposal should be printed below such signatures.
- B9.5 If a Proposal is submitted jointly by two or more persons, the word "Proponent" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Proponents in the Proposal and the Contract, when awarded, shall be both joint and several.

B10. PRICES

- B10.1 The Proponent shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B10.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Proposals.
- B10.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

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

B11. DESIGN DRAWINGS

B11.1 The Proponent shall submit drawings that illustrate the proposed design and play equipment, such as plan, perspective and any other submissions to illustrate the design intent. **Included in this shall be a plan showing the proposed play equipment and associated safety zones within the proposed play area and site, drawn to scale.** Additional drawings may be requested prior to award for more detailed information.

B12. COMPONENT DESCRIPTIONS

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

B13. DISCLOSURE

- B13.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.
- B13.2 The Persons are: NA

B14. QUALIFICATION

- B14.1 The Proponent shall:
 - (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Proponent does not carry on business in Manitoba, in the jurisdiction where the Proponent does carry on business; and
 - (b) be financially capable of carrying out the terms of the Contract; and
 - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B14.2 The Proponent 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.
- B14.3 The Proponent 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);
- B14.4 Further to B14.3(c), the Proponent shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the

Proponent /Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (a) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (b) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program or
- (c) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/.
- B14.5 The Proponent 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 Proponent and of any proposed Subcontractor.
- B14.6 The Proponent shall provide, on the request of the Contract Administrator, full access to any of the Proponent's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Proponent's equipment and facilities are adequate to perform the Work.

B15. OPENING OF PROPOSALS AND RELEASE OF INFORMATION

- B15.1 Proposals will not be opened publicly.
- B15.2 After award of Contract, the names of the Proponents and the Contract amount of the successful Proponent 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/.
- B15.3 To the extent permitted, the City shall treat all Proposal Submissions as confidential, however the Proponent is advised that any information contained in any Submission may be released if required by The Freedom of Information and Protection of Privacy Act (Manitoba), by other authorities having jurisdiction, or by law or by City policy or procedures (which may include access by members of City Council).
- B15.4 Following the award of Contract, a Proponent will be provided with information related to the evaluation of his/her submission upon written request to the Contract Administrator.

B16. IRREVOCABLE OFFER

- B16.1 The Proposal(s) submitted by the Proponent shall be irrevocable for the time period specified in Paragraph 10 of Form A: Proposal.
- B16.2 The acceptance by the City of any Proposal shall not release the Proposals of the other responsive Proponents and these Proponents shall be bound by their offers on such Work until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any offer shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 10 of Form A: Proposal.

B17. WITHDRAWAL OF OFFERS

- B17.1 A Proponent may withdraw his/her Proposal without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B17.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Proposal shall be the time and date of receipt as determined by the Manager of Materials.

- B17.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Proposal or the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal, and only such person, has authority to give notice of withdrawal.
- B17.1.3 If a Proponent gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
 - (a) retain the Proposal until after the Submission Deadline has elapsed;
 - (b) open the Proposal to identify the contact person named in Paragraph 3 of Form A: Proposal and the Proponent's authorized representatives named in Paragraph 11 of Form A: Proposal; and
 - (c) if the notice has been given by any one of the persons specified in B17.1.3(b), declare the Proposal withdrawn.
- B17.2 A Proponent who withdraws his/her Proposal after the Submission Deadline but before his/her offer has been released or has lapsed as provided for in B16.2 shall be liable for such damages as are imposed upon the Proponent 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.

B18. INTERVIEWS

B18.1 The Contract Administrator may, in his/her sole discretion, interview Proponents during the evaluation process.

B19. NEGOTIATIONS

- B19.1 The City reserves the right to negotiate details of the Contract with any Proponent. Proponents are advised to present their best offer, not a starting point for negotiations in their Proposal Submission.
- B19.2 The City may negotiate with the Proponents submitting, in the City's opinion, the most advantageous Proposals. The City may enter into negotiations with one or more Proponents without being obligated to offer the same opportunity to any other Proponents. Negotiations may be concurrent and will involve each Proponent individually. The City shall incur no liability to any Proponent as a result of such negotiations.
- B19.3 If, in the course of negotiations pursuant to B19.2 or otherwise, the Proponent amends or modifies a Proposal after the Submission Deadline, the City may consider the amended Proposal as an alternative to the Proposal already submitted without releasing the Proponent from the Proposal as originally submitted.

B20. EVALUATION OF PROPOSALS

- B20.1 Award of the Contract shall be based on the following evaluation criteria:

 - (b) qualifications of the Proponent and the Subcontractors, if any, pursuant to B14:.....(pass/fail)
 - (c) Total Bid Price: 10 points
- B20.2 Further to B20.1(a), the Award Authority may reject a Proposal as being non-responsive if the Proposal Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Proposal, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.

- B20.3 Further to B20.1(b), the Award Authority shall reject any Proposal submitted by a Proponent who does not demonstrate, in its Proposal or in other information required to be submitted, that it is responsible and qualified.
- B20.4 Further to B20.1(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.
- B20.4.1 Further to B20.1(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.
- B20.4.2 Further to B20.1(c), the Award Authority may reject a Bid as being non-responsive if it exceeds the budget as shown on Form B: Prices.
- B20.4.3 The Total Bid Price shall be evaluated with a weighing of 10 points out of a total of 100 possible points. As such, the lowest Proponent shall receive the full 10 points, and the second lowest Proponent and subsequent Proponents shall be pro-rated accordingly.
- B20.5 Further to B20.1(d) Design Drawings/Component Descriptions shall be evaluated with a weighting of 90 points out of a total of 100 possible points as per B11 and B12.
- B20.5.1 The Design shall be evaluated on the following criteria:
 - (a) compliance with CSA Standards (pass/fail);
 - (b) play value (maximum 39 points):
 - (i) **9 points** Provides opportunities for appropriate social / interpersonal interaction and co-operative play;
 - (ii) 8 points Imaginative/ Cognitive Play Component(s), including fine motor skills;
 - (iii) **7 points** Gross Motor Play Experience(s) (Climbing, balancing, etc.);
 - (iv) 6 points Motion Component(s);
 - (v) **5 points** Sliding Component(s) for 2-5 and 5-12 year old;
 - (vi) 4 points Variety of play Components.
 - (c) Designed for inclusive play using Universal Design principles Accessible Play Area only (maximum 20 points):
 - (i) Complies with section 2.3.5 of the 2010 City of Winnipeg Accessibility Design Standards (www.winnipeg.ca/ppd/Universal_Design.stm) (pass/fail);
 - (ii) **8 points** Layout of the play area for integration of wheelchair accessible components to promote inclusive play;
 - (iii) **7 points** Provision of tactile and auditory play experiences;
 - (iv) **5 points** Layout of the play area for persons with visual impairment.
 - (d) Layout/circulation (maximum 21 points):
 - (i) **6 points** Flow and relationship between play area activities and all 3 entrances into play area;
 - (ii) 6 points Efficient use of space within and between elements;
 - (iii) **3 points** Layout/orientation of components on Site and in relation to seating areas:
 - (iv) **3 points** Orientation to provide good visibility to play area from all seating areas and portion of backlane;
 - (v) **3 points** Slide orientation north or east.
 - (e) Durability (maximum 10 points):
 - (i) **10 points** Use of durable/tamper-resistant materials, low maintenance finishes and connector systems and ease of repair/replacement of the products used with the playground area and past performance.

B20.6 Further to B20.5.1(a), if Contractor states play equipment components are compliant with CSA Standards which are not, liquidated damages shall be charged as per **D16** should this result in additional design and/or meeting time on the part of the Contract Administrator.

B21. AWARD OF CONTRACT

- B21.1 The City will give notice of the award of the Contract, or will give notice that no award will be made.
- B21.2 The City will have no obligation to award a Contract to a Proponent, even though one or all of the Proponents are determined to be responsible and qualified, and the Proposals are determined to be responsive.
- B21.2.1 Without limiting the generality of B21.2, 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 Proposal 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.
- B21.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Proponent submitting the most advantageous offer.
- B21.3.1 Following the award of contract, a Proponent will be provided with information related to the evaluation of his/her Proposal upon written request to the Contract Administrator.
- B21.4 The City may, at its discretion, award the Contract in phases.
- B21.4.1 Notwithstanding C4, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B21.4.2 The Contract documents as defined in C1.1 in their entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that they are not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

CO. GENERAL CONDITIONS

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

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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 are as follows:
 - (a) Removals
 - (b) Excavation;
 - (c) Retaining walls;
 - (d) Seating walls;
 - (e) Concrete play edging;
 - (f) Concrete sand play edging and play sand;
 - (g) Play equipment and swings;
 - (h) Subsurface drainage;
 - (i) Engineered wood fibre safety surfacing;
 - (j) Asphalt pathway;
 - (k) Adjust manhole;
 - (I) Earthworks and site grading;
 - (m) Chain link baffle gates;
 - (n) Wood fencing;
 - (o) Site furniture, and;
 - (p) Soil and sod.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:

lan Legge Urban Designer

City of Winnipeg Urban Design Division Planning, Property and Development Department

Telephone No. 204-986-5597 Email address: ilegge@winnipeg.ca

- D3.2 At the pre-commencement meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.
- D3.3 Bids Submissions must be submitted to the address in B8.

D4. CONTRACTOR'S SUPERVISOR

D4.1 Before commencement of Work, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE

- D5.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.
- D5.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.
- D5.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;
 - (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
 - (b) the Contract, all deliverables produced or developed; and
 - (c) any statement of fact or opinion regarding any aspect of the Contract.
- D5.4 A Contractor who violates any provision of D5 may be determined to be in breach of Contract.

D6. NOTICES

- D6.1 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.
- D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D3.1.
- D6.3 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

D6.4 Bids Submissions must not be submitted to this facsimile number. Bids must be submitted in accordance with B8.

SUBMISSIONS

D7. AUTHORITY TO CARRY ON BUSINESS

D7.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D8. SAFE WORK PLAN

- D8.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D8.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt/safety/default.stm.

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
 - (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
 - (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence:
 - (c) all risks installation floater, carrying adequate limits to covers all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, referencing the Bid Opportunity number and/or the Scope of Work D2 and Specifications PART E to be performed, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D10. PERFORMANCE SECURITY

- D10.1 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.
- D10.1.1 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.

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D10.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award and prior to the commencement of any Work on the Site.

D11. SUBCONTRACTOR LIST

D11.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

D12. DETAILED WORK SCHEDULE

- D12.1 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.
- D12.2 Detailed Work Schedule shall consist of the following dates:
 - (a) Start date;
 - (b) Removals
 - (c) Excavation and layout for play area, pathways and walls;
 - (d) Earthworks and grading;
 - (e) Adjustment of manhole;
 - (f) Installation of retaining walls;
 - (g) Installation of seating walls;
 - (h) Installation of sub-surface drainage;
 - (i) Installation of play edging;
 - (j) Installation of play equipment;
 - (k) Installation of safety surfacing;
 - Installation of asphalt pathway;
 - (m) Installation of timber fencing;
 - (n) Installation of baffle gates;
 - (o) Installation of site furniture;
 - (p) Installation of soil and sod; and
 - (q) Expected completion.
- D12.3 Other milestone dates appropriate to this project should also be included to make the Contract Administrator aware of them.

SCHEDULE OF WORK

D13. COMMENCEMENT

- D13.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D13.2 The Contractor shall not commence any Work on the Site until:
 - (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D7;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D8;

- (iv) evidence of the insurance specified in D9;
- (v) the performance security specified in D10;
- (vi) the Subcontractor list specified in D11; and
- (vii) the detailed work schedule specified in D12.
- (b) The Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.
- D13.3 The Contractor shall order play equipment and submit this information to the Contract Administrator within seven (7) Calendar Days of Receipt of the Purchase Order.
- D13.4 The Contractor shall Commence the work on the Site within forty two (42) Calendar Days of Receipt of the Purchase Order.

D14. SUBSTANTIAL PERFORMANCE

- D14.1 The Contractor shall achieve Substantial Performance within thirty (30) working days.
- D14.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D14.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D15. TOTAL PERFORMANCE

- D15.1 The **Contractor** shall achieve Total Performance within thirty five (35) working days.
- D15.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D15.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D16. LIQUIDATED DAMAGES

- D16.1 If the Contractor fails to achieve Total Performance in accordance with the Contract by the day fixed herein for Total Performance, the Contractor shall pay the City five hundred dollars (\$500.00) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.
- D16.2 The amount specified for liquidated damages in D16.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.
- D16.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

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D17. SCHEDULED MAINTENANCE

- D17.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
 - (a) Topsoil and sod as specified in **E23**;
- D17.2 Determination of Substantial Performance and Total Performance shall be exclusive of scheduled maintenance identified herein. All scheduled maintenance shall be completed prior to the expiration of the warranty period. Where the scheduled maintenance cannot be completed during the warranty period, the warranty period shall be extended for such period of time as it takes the Contractor to complete the scheduled maintenance.

CONTROL OF WORK

D18. JOB MEETINGS

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

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

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

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

D20.1 Further to B14.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B14.4.

D21. SAFETY

- D21.1 Further to C6, the Contractor shall be solely responsible for safety at the Site and for compliance with all laws, rules, regulations and practices required by the applicable safety legislation.
- D21.2 The Contractor shall be solely responsible for securing the Site, and any existing facility thereon, and for the proper care and protection of the Work already performed.
- D21.3 The Contractor shall do whatever is necessary to ensure that:
 - (a) no person, property, right, easement or privilege is injured, damaged or infringed by reason of the Contractor's activities in performing the Work;
 - (b) the health and safety of all persons employed in the performance of the Work or otherwise is not endangered by the method or means of its performance;
 - (c) adequate medical services are available to all persons employed on the Work and at all times during the performance of the Work;
 - (d) adequate sanitation measures are taken and facilities provided with respect to the Work.

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- (e) pedestrian and other traffic on any public or private road or waterway is not unduly impeded, interrupted or endangered by the performance or existence of the Work or Plant;
- (f) fire hazards in or about the Work are eliminated;

D22. SITE CLEANING

- D22.1 The Contractor shall maintain the Site and the Work in a tidy condition and free from the accumulation of waste and debris, other than that caused by the City or by other contractors.
- D22.1.1 As the Work progresses, the Contractor shall remove any Plant and Material not required for the performance of the remaining Work. He shall also remove waste and debris other than that caused by the City or other contractors, and leave the Site and the Work clean and suitable for occupancy by the City unless otherwise specified.
- D22.1.2 Total Performance shall not be considered to have been achieved until the Contractor has cleaned up the Site and has removed all Plant, surplus Material, waste and debris, other than that left by the City or other contractors.

D23. INSPECTION

- D23.1 Before beginning or resuming operations upon any portion of the Work, the Contractor shall notify the Contract Administrator so as to enable him to arrange for inspection. If the Contractor fails to notify the Contract Administrator, the Contractor shall, if and when required by the Contract Administrator, forthwith take down or expose and redo that portion of the Work required to facilitate inspection. The cost of such taking down or exposure, and redoing, if any, shall be borne by the Contractor.
- D23.2 If and when required by the Contract Administrator, the Contractor shall take down or expose forthwith any portion of the Work where the Contract Administrator determines that the Work is not in accordance with the Contract. The cost of such taking down or exposure, and redoing, if any, shall fall upon the City if the taking down or exposure indicates that the portion exposed was properly performed, but if otherwise the cost shall be borne by the Contractor.

D24. DEFICIENCIES

- D24.1 Further to C11, the Contract Administrator may order the Contractor to alter or improve his methods, to increase or improve his Plant, to furnish additional or more suitable Material, or to employ additional or more qualified labour if, at any time, the Contract Administrator determines that:
 - (a) the Work is not being, or will likely not be, performed satisfactorily; or
 - (b) progress is not being, or will likely not be, maintained in accordance with the work schedule.

MEASUREMENT AND PAYMENT

D25. PAYMENT

D25.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

WARRANTY

D26. WARRANTY

D26.1 Warranty is as stated in C13.

FORM H1: PERFORMANCE BOND

(See D10)

KNOW ALL	MEN	BY THESE	PRESENTS	THAT
MINOVV ALL	IVILIN	DI HILOL	FIXEOLIVIO	111/

KINO	W ALL WEN DY IN	ESE PRESENTS THAT	
(here	inafter called the "P	rincipal"), and	
(here	inafter called the "addition the "Obligee"), in t	Surety"), are held and firmly bound unto THE CITY OF WINNIPEG (hereinathe sum of	, after
		dollars (\$)
sum	the Principal and th	da to be paid to the Obligee, or its successors or assigns, for the payment of wne Surety bind themselves, their heirs, executors, administrators, successors rally, firmly by these presents.	
WHE	REAS the Principal	has entered into a written contract with the Obligee for	
RFP	NO. 392-2017 WHI	TEGATES PARK PLAYGROUND REDEVELOPMENT	
which	n is by reference ma	ade 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) (b) (c) (d) (e)	forth in the Contr perform the Work make all the pay in every other re Contract; and indemnify and sa demands of eve claims, actions Compensation A performance or	erform the Contract and every part thereof in the manner and within the times ract and in accordance with the terms and conditions specified in the Contract; k in a good, proper, workmanlike manner; ments whether to the Obligee or to others as therein provided; espect comply with the conditions and perform the covenants contained in ave harmless the Obligee against and from all loss, costs, damages, claims, and description as set forth in the Contract, and from all penalties, assessment for loss, damages or compensation whether arising under "The Worket", or any other Act or otherwise arising out of or in any way connected with non-performance of the Contract or any part thereof during the term of exarranty period provided for therein;	the and ents, kers the
		N SHALL BE VOID, but otherwise shall remain in full force and effect. The Suble for a greater sum than the sum specified above.	ırety
nothii or re	ng of any kind or m	ECLARED AND AGREED that the Surety shall be liable as Principal, and atter whatsoever that will not discharge the Principal shall operate as a discharthe Surety, any law or usage relating to the liability of Sureties to the cont	arge
IN W	ITNESS WHEREOF	the Principal and Surety have signed and sealed this bond the	
	day of	, 20	

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(Seal)

SIGNED AND SEALED in the presence of:

(Witness as to Principal if no seal)

Per: ______ (Seal)

Per: ______ (Name of Surety)

Ву:

(Attorney-in-Fact)

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

(See D10)

(Date)
The City of Winnipeg Legal Services Department 185 King Street, 3rd Floor Winnipeg MB R3B 1J1
RE: PERFORMANCE SECURITY – RFP NO. 392-2017
WHITEGATES 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.

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

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

(Date)

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

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

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

(Name	of bank or financial institution)
Per:	(Authorized Signing Officer)
Per:	
	(Authorized Signing Officer)

FORM J: SUBCONTRACTOR LIST

(See D11)

WHITEGATES PARK PLAYGROUND REDEVELOPMENT

<u>Name</u>		<u>Address</u>	
-			
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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:

Drawing No.	Drawing Name/Title
W.31-C W.31-D W.31-E W.31-F W.31-G W.31-H W.31-I W.31-J W.31-K	Existing Conditions and Removals Overall Plan Grading Plan Layout Play Area Layout Plan Wall Height Layout Plan Details 1 Details 2 Details 3
SCD-105F SCD-105F2 SCD-119 SCD-121A SCD-121C SCD-122A SCD-633 SCD-643 SCD-648 SCD-650 SCD-659	Heavy Duty Post and Wood Fencing Heavy Duty Post and Wood Fencing – Double Sided Sign Waste Receptacle Side Opening Metal Slat Type Tache Bench Composite with Arms Tache Backless Bench Composite With Arms Tache Style Wheelchair Metal Frame Picnic Table Chain Link Entrance Baffle Detail Concrete Playsurface Edging Detail Parkway Path Asphalt Engineered Wood Fibre Safety Surfacing Diagram Multi-Flow Drainage

E2. EXISTING SERVICES AND UTILITIES

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

E3. ACCESS TO SITE

E3.1 Access to the Site as required by the Contractor shall be provided and maintained by the Contractor at his/her own expense and approved by the Contract Administrator.

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E3.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work and he/she shall be responsible for all damage resulting from his/her Work on private property.

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

- E4.1 Further to C6.12, the Contractor shall give all necessary notices, obtain all necessary permits and pay all fees in order that the Work may be carried out. The Contractor shall submit all plans required by any inspection authority and obtain approval of same before proceeding with the Work, and pay any cost attached to the inspection of such plans.
- E4.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- E4.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- E4.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.
- E4.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.
- E4.6 The Contractor and Sub-contractors must be fully aware of all Work involving hazardous materials. All Work must be performed in compliance with the Manitoba Department of Labour Workplace Health and Safety Guidelines and all other applicable codes. The Contractor is responsible for the immediate notification to the Contract Administrator of his/her encountering of suspected hazardous material during their course of Work.

E5. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY

- E5.1 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.
- E5.2 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

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shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.

- E5.3 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.
- E5.4 No separate measurement or payment will be made for the protection of trees.

E6. PEDESTRIAN SAFETY AND TRAFFIC MANAGEMENT

- E6.1 Further to CW 1130, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while he/she is working near them. Any damage caused by the negligence of the Contractor or his/her Sub-Contractors to the adjacent Works or properties, shall be promptly repaired by him at his/her own expense, to the satisfaction of the Contract Administrator.
- E6.2 Ambulance/ Emergency vehicle access must be maintained at all times.

E7. PROTECTION OF THE SURVEY INFRASTRUCTURE

- E7.1 Notwithstanding clause 4 "Persons and municipalities to protect Outline Monuments"; under The Surveys Act, of Manitoba, the Contractor shall be responsible to protect the Survey Infrastructure from damage as a result of the Work.
- E7.2 Further to C6.26 (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 204-918-1360 (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.
- E7.3 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. 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 cost to restore a legal survey monument is \$1,000 per bar and \$3,000 per control monument. Contractors shall ensure their landscaping and other subcontractors are aware of this clearance procedure and the potential restoration costs. Where possible, amounts owed to the City in accordance with the above will be deducted from payments to be made by the City to the Contractor.

E8. SITE ENCLOSURES

- E8.1 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.
- E8.2 Site enclosures shall be considered incidental to the Contract Work.

E9. SITE RESTORATION

E9.1 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

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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.

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SITE DEVELOPMENT

E10. REMOVALS

- E10.1 Description
- E10.2 In addition to CW 3550, this Specification shall cover the removal and legal disposal of the existing chain link fencing including footing and/or piles.
- E10.3 The Work to be done by the Contractor under this specification shall include the furnishing of all superintendence, overhead, labour, materials, equipment, tools, supplies and all other things necessary for and incidental to satisfactory performance and completion of all Work as shown on the drawings as herein specified.
- E10.4 Construction methods
- E10.4.1 Removal of Chain Link Fencing
 - (a) The Contractor shall carefully remove chain link fence designated for removal including any hardware and fasteners holding chain link fence to posts. The Contractor shall remove material from Site.
 - (b) Holes left by post removal (where new posts are not situated in same location as previous posts) to be filled with earthen material w/ 150mm top coat of Soil as per E23.
- E10.5 Method of Measurement
- E10.5.1 Method of Measurement shall be as follows:
 - (a) Removals shall be measured on a linear metre basis for:
 - (i) "Remove chain link fence" on Form B: Prices.
 - (b) No separate measurement shall be made for filling old post and bollard holes with fill material as this work is incidental herein.
 - (c) No separate measurement shall be made for removing concrete footings/piles as this work is incidental herein.
- E10.6 Basis of Payment
- E10.6.1 Basis of Payment shall be as follows:
 - (a) Removals will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
 - (b) No separate payment shall be made for filling old post and bollard holes with fill material as this work is incidental herein.
 - (c) No separate payment shall be made for removing concrete footings/piles as this work is incidental herein.

E11. EXCAVATION AND GRADING

E11.1 General Description

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E11.1.1 This specification shall amend and supplement CW 3110 and CW 3170. It shall cover the excavation and legal disposal of existing safety surfacing, existing granular paths plus excavation for new play area, new asphalt pathway and seating area as per Drawings. It shall also cover the excavation and stockpiling of earthen material from existing berm for grading purposes.

- E11.1.2 All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner.
 - (a) 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.
- E11.1.3 Work shall include but not be limited to the following:
 - (a) Excavate, add clean fill if necessary, and grade to the limits shown on Drawings to the depths necessary to achieve finish grade for:
 - (i) New topsoil and sod over excavated play areas and granular path areas;
 - Existing sand surfacing depth to be excavated is 200mm with a variance +/-50mm throughout.
 - Existing Granular path to be excavated to 100mm with a variance +/- 25mm throughout.
 - (ii) New Play Area Protective Surfacing;
 - Depth of excavation varies with a maximum of 1150mm and a minimum of 25mm (min. depth of engineered wood fibre to be 300mm)
 - (iii) New asphalt pathways and seating;
 - Excavate to 275mm below finished grade and as stated in Drawings.
 - (iv) Berm Removal
 - Existing Sod and Earth to be removed. Excavation Maximum to be approximately 425mm with an average of approximately 200mm.
 Measurement based on excavation to levels of finished grades for pathways and 100mm below finished grades for soil and sod.

E11.2 Construction Methods

- E11.2.1 Excavation includes the removal of items (i.e., sand, earth, granular) as indicated on the Drawings and as directed by the Contract Administrator. Work includes the satisfactory disposal of unsuitable Site material such as clays susceptible to frost-heaving, silts, rock, rubble, rubbish and any surplus suitable Site material.
 - (a) Stockpile suitable, approved material on Site for reuse (clean topsoil, clean earth fill,) in grading operations as required in a secure location. Remove and dispose of unsuitable material.
 - (b) Disposal of material shall be understood to mean the hauling of all unsuitable material from the Site and the unloading in a legal manner acceptable to the Contract Administrator. If arrangements are made in advance excavated material may be disposed of on Site at a location designated by the Contract Administrator.
 - (c) Contractor must coordinate with the Contract Administrator to ensure all removals have occurred.
 - (d) The depth of excavation in the play area shall directly relate to the requirements of the play equipment proposed in the Bid Submission.
 - (e) Excavate to the limits shown and as necessary to achieve finish grades as indicated on the Drawings. Where design grades are not shown, the new surface materials shall be installed to meet flush with surrounding grades, and sloped so as not to impede the existing drainage pattern.

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

(g) Excavation should be coordinated with the installation of play equipment and safety surfacing so as not to leave an open excavation area subject to ponding water.

E11.2.2 Site Grading shall be as per Drawings.

- (a) The Contractor must ensure that the rough grading does not create tripping hazards and no areas of standing water remain. The subgrade of all excavated play areas must drain towards the subsurface drainage piping.
- (b) If necessary the Contractor shall import clean fill to achieve grades as per Drawings.
- (c) Backfill shall be placed in a dry, thawed condition and shall be maintained free of moisture or frost.
- (d) In fill areas where the difference between the existing ground elevation and the new finished design elevation is less than 300 mm, the Contractor shall scarify the existing ground to a minimum depth of 50 mm prior to placement of any fill.
- (e) All surplus fill material shall be removed and legally disposed off-site.
- (f) Do not disturb adjacent items designated to remain in place.

E11.3 Method of Measurement and Basis of Payment

E11.3.1 Method of Measurement shall be as follows:

- (a) Excavation shall be measured on a cubic metre basis for:
 - (i) "Excavate and Stockpile earth from berm for grading operations"
 - (ii) "Excavate and Legally Dispose of earth for new play area"
 - (iii) "Excavate and Legally dispose of earth and sand for new swing area"
 - (iv) "Excavate and Legally dispose of existing sand peastone", and;
 - (v) "Excavate and legally dispose of granular pathway" on Form B: Prices.
- (b) Grading shall be measured on a square metre basis for:
 - (i) "Earthworks and site grading" on Form B: Prices.
- (c) No measurement will be made for Excavation and Grading of sod areas that are not identified as "Earthworks and site grading" as these items are incidental to **E23**.
- (d) No measurement will be made for Excavation and Grading of the new asphalt pathway and bench area as these items are incidental to **E19**.
- (e) No measurement will be made for the import of clean fill to achieve rough grading grades and earthwork and site grading grades as this item is incidental to the work herein.

E11.3.2 Basis of Payment shall be as follows:

- (a) Excavation and Grading will be paid for at the Contract Unit Prices on Form B: 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 Excavation and Grading of sod areas that are not identified as "Earthworks and site grading" as these items are incidental to **E23**.
- (c) No payment will be made for Excavation and Grading of the new asphalt path and bench area as these items are incidental to **E19**.
- (d) No payment will be made for the import of clean fill to achieve rough grading grades and earthwork and site grading grades as this item is incidental to the work herein.

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E12. ADJUSTMENT OF MANHOLE

- E12.1 Description
- E12.1.1 The Specification shall supplement the most up to date version of the Standard Construction Specification CW 2130.
- E12.1.2 The work of this section comprises the furnishing of all labour, equipment and materials required to complete the lowering of catch basin rim to the elevation shown on the Drawings.
- E12.1.3 Man Hole to be adjusted to meet proposed grades as per Drawing W.31-D. **A rise of 228.6mm is proposed.**
- E12.2 Materials
- E12.2.1 Contractor to provide precast concrete ring with man hole frame to match existing cover to fit existing man hole.
- E12.2.2 Materials to conform to City of Winnipeg Specifications.
- E12.3 Construction Methods
- E12.3.1 Contractor to inspect existing man hole and pipe inverts with City of Winnipeg prior to removal of man hole frame.
- E12.3.2 Remove excess debris in existing man hole as required.
- E12.3.3 Elevation of man hole rim to be adjusted to the satisfaction of Contract Administrator and City of Winnipeg.
- E12.3.4 225mm rise in man hole complete with all associated manufacturer parts shall be installed.
- E12.4 Method of Measurement and Basis of Payment
- E12.4.1 Method of Measurement shall be as follows:
 - (a) Adjustment of man hole will be measured on a lump sum basis for the following items:
 - (i) "Adjustment of man hole" on Form B: Prices.
- E12.4.2 Basis of Payment shall be as follows:
 - (a) Adjustment of man hole 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. SUB-SURFACE DRAINAGE

- E13.1 Description
- E13.1.1 This Work shall consist of providing and placing a geocomposite prefabricated drain system as described in the plans as per SCD-650 and SCD-659. The 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 on the plans 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.
- E13.1.2 This Work shall include:

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 - (a) Subsurface drainage to drain new playground surfacing and turf area at swale as described in the plans and as per SCD-650 and SCD-659.
 - (b) Connect playground area drainage into drainage system for retaining wall.

E13.2 Material

- Drainage pipe will be Multi-Flow or approved substitute in accordance with **B7**. Drainage pipe will 150 mm (6"). The manufacturer will size and approve all fittings for use with Multi-Flow or approved substitute drainage pipe.
- E13.2.2 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	.24 cm/sec
Flow Rate, gpm/ft2	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

E13.2.3 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.

E13.2.4 Fittings

(a) 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. The City of Winnipeg Specifications RFP No. 392-2017 Page 9 of 28

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E13.2.5 Pipe

- (a) 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.
- (b) 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.

E13.2.6 Backfill for Trenches

(a) As per most up to date version of SCD-659.

E13.3 Construction Methods

- E13.3.1 Subdrain in play area is to be established such that retaining wall system drainage will be able to be connected to it.
- E13.3.2 Installation of Subdrain is not to proceed until after the excavation/grading has been approved by the Contract Administrator.
- E13.3.3 The layout of the subdrain is to be marked on Site and approved by the Contract Administrator prior to trenching.
- E13.3.4 Trenches are to be excavated with a trenching machine or by hand. Locations, where the trench crosses existing utilities, irrigation pipes and all other sub-surface pipes or fixtures, are to be excavated by hand. The amount of trench excavated at any time shall not exceed the amount of drain that can be set and backfilled completely prior to the end of that Working Day. Trench width shall be as specified on the Drawings.
- E13.3.5 The bottom surface of the trench is to be free of loose particles and is to have the slope minimum of 1.5%. Over excavation in the bottom of the trench shall be backfilled to the proper grade with the excavated material or sand prior to the placement of the drain. Where sand or excavated material is used to fill the trench to the proper elevation that material shall be compacted to 95% of standard proctor density using appropriate means. Where the trench is to pass through an area of existing turf, backfill shall be removed from the Site daily and disposed of legally.
- E13.3.6 Multi-Flow drain pipe is to be placed in the trench using a Multi-Flow centering device.

 Trench is to be backfilled with coarse sand to the surface. Backfill shall be placed in maximum of 45 cm loose lifts. Backfill is to be lightly tamped into place and watered.
- E13.3.7 Subdrain within the swale area 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.
- E13.3.8 Swale area to be graded to drain towards Catch Basin.
- E13.3.9 Clean Out(s) shall be established at points within swale where play area drainage meets swale drainage as per Drawings.
- E13.3.10 Fittings for the drain will be installed in accordance with the manufacturer's recommendations and Specification.
- E13.3.11 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 manufacturer's specification and to the satisfaction of the Contract Administrator.
- E13.3.12 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.
- E13.3.13 The Contractor shall be responsible for restoration of any surfaces damaged during the Work under this section.

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- E13.3.14 The top of the trench is to be finished as shown on the Drawings.
- E13.3.15 The sand backfill is to be installed to meet existing grades and seeded with grass seed where the trench is located in existing turf.
- E13.3.16 The Multi-Flow drain system is to be connected to a solid pipe in accordance with manufacturer's recommendations and the pipe is then connected to the catch basin.
- E13.3.17 Connecting to existing catch basin will be done as outlined in CW 2130 item 3.15 "Connecting New Sewers an Catch Basin Leads to Existing Manholes, Catch Basins and Catch Pits".
- E13.3.18 Trenches are to be inspected by the Contract Administrator prior to backfilling.
- E13.4 Method of Measurement and Basis of Payment
- E13.4.1 Method of Measurement shall be as follows:
 - (a) Sub-surface Drainage shall be measured on a lineal metre basis for:
 - (i) "Subsurface drainage" on Form B: Prices.
- E13.4.2 Basis of Payment shall be as follows:
 - (a) Sub-surface Drainage 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.

E14. POURED IN PLACE CONCRETE EDGING

- E14.1 General Description
- E14.1.1 This section shall cover the supply and installation of the poured in place concrete playground edging and concrete curb as per Drawings as well as a playsand edging and concrete curb. It shall amend and supplement the most up-to-date version of City of Winnipeg Standard Construction Specifications section 3310 and as per SCD-643 and details in Drawings.
- E14.2 Materials
- E14.2.1 Concrete shall be Type 1 as per the most up-to-date version of City of Winnipeg Standard Construction Specifications section 3310 and shall adhere to the dimensions on the Drawings.
- E14.2.2 Granular base shall be 19mm diameter crushed limestone.
- E14.2.3 For Playground edging reinforcing steel shall be 10m with 10m ties at 600 mm O.C.
- E14.2.4 For Sand Play edging reinforcing steel shall be 15m with 15m ties at 600 mm O.C.
- E14.3 Construction Methods
- E14.3.1 Layout is to be established on Site, after excavation and grading operations and reviewed by Contract Administrator prior to formwork being completed.
 - (a) General Contractor is to confirm and warrant that play equipment complete with required safety surfacing zones will fit within curbs as laid out on Site.
- E14.3.2 Granular base, formwork and reinforcing are to be reviewed on Site by the Contract Administrator prior to pouring of concrete.
- E14.3.3 Concrete is to be trowel finish. All exposed edges are to be bull nose as shown on the Drawings. Front, top and back of curb are to be finished.
- E14.3.4 Concrete edging and curb shall have saw cut control joints at 1.5m intervals.

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- E14.4 Method of Measurement and Basis of Payment
- E14.4.1 Method of Measurement shall be as follows:
 - (a) Concrete Edging will be measured on a Linear Metre basis for:
 - (i) "Concrete Play Edging", and;
 - (ii) "Concrete Edging for Sand Play" on Form B: Prices
- E14.5 Basis of Payment Shall be as follows:
- E14.5.1 Concrete 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.
- E14.5.2 This payment shall be understood to include all concrete, excavation, base, reinforcing, compaction, placement and finishing.

E15. PLAY SAND

- E15.1 Description
- E15.1.1 This specification shall cover the supply and installation of 3.5 CM of playsand.
- E15.1.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawings specified herein.
- E15.2 Materials
- E15.2.1 All materials supplied under this specification shall be of a type approved by the Contract Administrator, and shall be subject to inspection and testing by the Contract Administrator.
- E15.2.2 <u>Play sand</u> shall be natural washed sand of rounded particles, free of fines, clay, silt, stones or other debris and shall meet the following criteria:
 - (i) 100% passing 6.7 mm sieve;
 - (ii) 99.5% passing 4.75 mm sieve;
 - (iii) 97-100 % passing 2.36 mm sieve;
 - (iv) 70-90 % passing 1.18 mm sieve;
 - (v) 25-60% passing 600 um sieve;
 - (vi) 5-25% passing 300 um sieve;
 - (vii) 0-3 % passing 150 um sieve;
 - (viii) 0-1% passing 75 um sieve.

E15.3 Construction Methods

- (a) All Work is to be located and installed in accordance with the Drawings, SCDs, 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) Install as per attached drawings;
- (c) Depth of playsand to be 300mm.
- E15.4 Method of Measurement and Basis of Payment
- E15.4.1 Method of Measurement shall be as follows:
 - (a) Play Sand will be measured on a Square Metre basis for the following items:
 - (i) "Play Sand" on Form B: Prices.

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E15.4.2 Basis of Payment shall be as follows:

(a) Play Sand 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.

E16. PRECAST CONCRETE RETAINING WALL

- E16.1 Description
- E16.1.1 The specification shall cover the supply and installation of precast concrete retaining wall as shown on Drawings.
- E16.2 Materials
- E16.2.1 Retaining wall blocks shall be Barkman Roman Pisa or substitute approved in accordance with **B7.** Colour shall be Desert Buff.
- E16.2.2 Capstone shall be Barkman 12" Roman Pisa cap or substitute approved in accordance with **B7.** Colour shall be Desert Buff.
- E16.2.3 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.
- E16.2.4 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.
- E16.2.5 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.
- E16.2.6 Geogrid shall be used as indicated on Drawings and installed as per Manufacturer's Specifications. Quantity Required: 16 SM.
- E16.3 Construction Methods
- E16.3.1 The Contractor shall excavate for the base course, compact, install the geotextile, install the base granular and compact to 100% of proctor density.
- E16.3.2 The wall shall be then built in accordance with manufacturers instructions, backfilling with granular as necessary.
- E16.3.3 The top two courses and capstone shall be attached to the top course with a **double bead** of continuous concrete adhesive. (mastic) Contract Administrator to approve mastic before application.
- E16.4 Method of Measurement and Basis of Payment
- E16.4.1 Method of Measurement shall be as follows:
 - (a) Precast Concrete Retaining Wall shall be measured on a linear metre basis for:
 - (i) "Barkman Roman Pisa Retaining Wall (SM of Wall Face)" on Form B: Prices.
- E16.4.2 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.

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E17. PRECAST CONCRETE BLOCK QUARRY STONE WALL

- E17.1 Description
- E17.1.1 The specification shall cover the supply and installation of precast concrete block wall as shown on the Drawings.
- E17.2 Materials
- E17.2.1 Seating wall blocks shall be Barkman Quarry Stone (standard units for straight sections and radius units for curved sections) or substitute approved in accordance with **B7.** Colour shall be Desert Buff.
- E17.2.2 Capstone shall be Quarry Stone or substitute approved in accordance with **B7.** Colour shall be Desert Buff.
- E17.2.3 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.
- E17.2.4 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.
- E17.3 Construction Methods
- E17.3.1 The Contractor shall excavate for the base course, compact, install the geotextile, install the base granular and compact to 100% of proctor density.
- E17.3.2 The wall shall be then built in accordance with manufacturers instructions.
- E17.3.3 Each wall courses shall be attached with continuous concrete adhesive. (mastic)
- E17.3.4 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.
- E17.3.5 Capstone to be placed 90 degrees to main wall w/ a 50mm (2") overhang on all edges of main wall.
- E17.4 Method of Measurement and Basis of Payment
- E17.4.1 Method of Measurement shall be as follows:
 - (a) Precast Concrete Retaining Wall shall be measured on a square metre basis (total square metres of wall face) for:
 - (i) "Barkman Quarry Stone Walls (SM of Wall Face)" on Form B: Prices.
- E17.4.2 Basis of Payment shall be as follows:
 - (a) Precast Concrete Block Seating 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. 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 and granular.

E18. PROTECTIVE SURFACING

- E18.1 General Description
- E18.1.1 This specification shall cover the supply and install of wood fibre safety surfacing, including drainage layer.
- E18.2 Wood Fibre Surfacing
- E18.2.1 Materials

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(a) Wood Fibre product shall be either Zeager Woodcarpet system 1 or Fibar FibarSystem **200 or 300** or substitute in accordance with **B7.**

- (b) Wood Fibre surfacing shall be supplied by an authorized distributor and delivery slips and/or a warranty certificate from an authorized supplier 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

(ii) Contact for FibarSystem 200:

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

- (c) If substitute to Zeagar Woodcarpet or Fibar FibarSystem 200 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, granular drainage layer 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.

E18.2.2 Construction Methods

- (a) Wood Fibre shall be installed within the play areas, as defined by the timber edging to a minimum depth of 300 mm (after compaction). In areas around highest section of wall as indicated on drawings an additional 100mm will be required out to a distance of 1.8m, which will then feather out into the regular depth of 300mm. 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.

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- (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) Mud grade 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. Drainage pipe shall be installed from the subsurface drainage system within the play area to run outside of the play area perimeter to drain into an existing catch basin. 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.

E18.3 Method of Measurement and Basis of Payment

- E18.3.1 Method of Measurement shall be as follows:
 - (a) Protective Surfacing will be measured on a square metre basis for:
 - (i) "Engineered Wood Fibre Safety Surfacing"on Form B: Prices.
 - (b) No additional measurement will be made for the supply and installation of additional 100mm depth of wood fibre around highest portion of retaining wall as these are incidental to the work herein.
- E18.3.2 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.
 - (b) No additional payment will be made for the supply and installation of additional 100mm depth of wood fibre around highest portion of retaining wall as these are incidental to the work herein.

E19. ASPHALT

- E19.1 This specification shall cover the supply and installation of an asphalt pathway and bench area.
- E19.2 The use of recycled concrete as a base material will not be permitted.
- E19.3 Excavation
- E19.3.1 Description
 - (a) This specification shall be done in accordance the City of Winnipeg's Standard Construction Specification CW 3110– "Sub-Grade, Sub-Base and Base Course Construction" and as per SCD-648B.
 - (b) Excavation shall be understood to include all removal of existing insitu material necessary to achieve finished grade and as indicated on Drawings, all in accordance with E11.

E19.3.2 Construction Methods

- (a) Excavation shall be performed as per **E11** and as outlined in CW 3310 Item 3.2 "Excavation".
- (b) In locations where existing trees root systems intersect with the pathway excavation shall be done carefully so as not to damage or sever any roots of the trees.

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- (c) If any pavement exists at the limits of the designated area of removal, these shall be saw cut for the full depth of the pavement prior to the demolition and removal operations. All costs in connection with saw cutting are incidental and shall be included in the unit price bid for excavation.
- (d) All excavated material shall be removed, hauled and disposed of off-site to the satisfaction of the Contract Administrator.

E19.4 Sub-Grade Compaction

E19.4.1 Description

(a) Sub grade compaction shall be done in accordance with City of Winnipeg's Standard Construction Specification CW 3110 – "Sub-Grade, Sub-Base and Base Course Construction".

E19.4.2 Construction Methods

- (a) Sub-grade compaction shall be performed as outlined in CW 3110 item 3.3 "Preparation of Sub-Grade and Placement of Sub-Base Material".
- (b) Sub-grade shall be free of any fibrous organics, softened and disturbed soil. The prepared sub-grade shall be proof rolled with a heavy sheep's foot roller (min 25 passes) and inspected by the Contract Administrator to detect for any soft spots prior to the placement of overlying granular fills.

E19.5 Geotextile Fabric

E19.5.1 Description

(a) Geotextile Fabric shall be placed in accordance with City of Winnipeg's Standard Construction Specification CW 3130 "Supply and Installation of Geotextile Fabrics".

E19.5.2 Materials

(a) The separation/ reinforcement geotextile fabric shall conform to the Products Approved as listed in City of Winnipeg Specification for Approved Products for Surface Works.

E19.5.3 Construction Methods

(a) Separation/Reinforcement geotextile fabric shall be installed as outlined in CW 3110 item 3.1 "Separation/Reinforcement Geotextile Fabric".

E19.6 Crushed limestone sub-base course material

E19.6.1 Description

(a) Crushed limestone sub-base material shall be supplied and installed in accordance with City of Winnipeg's Standard Construction Specification CW 3110 "Sub-Grade, Sub-Base and Base Course Construction".

E19.6.2 Materials

(a) Sub Base: 50mm (2") down crushed limestone as per Drawing SCD-648B.

E19.6.3 Construction Methods

- (a) Crushed limestone sub-base material shall be supplied and installed as outlined in CW 3110 item 3.4 "Placement of Sub-Base Material with Geotextile Fabric".
- (b) All limestone sub-base material shall be placed and compacted as specified to a finished thickness as shown on the drawings.

E19.7 Crushed Limestone Base Course Material

E19.7.1 Description

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(a) Crushed limestone base material shall be supplied and installed in accordance with City of Winnipeg's Standard Construction Specification CW 3110 "Sub-Grade, Sub-Base and Base Course Construction".

E19.7.2 Materials

(a) Base course material shall be 20mm (3/4") down crushed limestone.

E19.7.3 Construction Methods

- (a) Crushed limestone base material shall be supplied and installed as outlined in CW 3110 item 3.4 "Placement of Sub-Base Material with Geotextile Fabric".
- (b) All limestone base course material shall be placed and compacted as specified to finished thickness as shown on the drawings.

E19.8 Asphaltic Pavement

E19.8.1 Description

(a) Asphaltic Concrete shall be supplied and installed in accordance with City of Winnipeg Standard Construction Specification CW 3410 "Asphaltic Concrete Pavement Works".

E19.8.2 Materials

(a) Asphaltic Concrete shall be Type 1A as specified and to a thickness of 75mm (3") as shown on the Drawings.

E19.8.3 Construction Methods

(a) Asphaltic Concrete shall be supplied and installed in accordance with the lines, grades and thickness shown on the Drawings and to City of Winnipeg Construction Specification CW 3410. Asphalt shall be placed in one lift.

E19.9 Crack Sealing

- (a) As a warranty requirement, the Contractor shall rout and seal any and all cracks which may appear during the one-year warranty period. Crack sealing shall conform to the requirements of City of Winnipeg Standard Construction CW 3250.
- (b) No separate payment will be made for this item as it is considered a warranty issue and shall fall under G.C.13- Warranty.

E19.10 Quality Control for Hard Surfaced Areas

- (a) Further to Section 10, Quality Control, of CW 3110 and CW 3410, the Contract Administrator may obtain a qualified independent testing lab to conduct tests on materials to determine the acceptability of the sub-grade, sub-base, base course and asphaltic concrete as placed by the Contractor in accordance with the requirements of this Specification.
- (b) The Contractor shall not proceed with each granular fill placement or asphalt installation until test results have been reviewed and approval to proceed is granted by the Contract Administrator.
- (c) The Contract Administrator will conduct a survey of the operation to verify installation of specified layer thickness.
- (d) Non-conformity with the specified test requirements or compacted layer thickness will constitute sufficient grounds for rejection of the Work.

E19.11 Method of Measurement and Basis of Payment

E19.11.1 Method of Measurement shall be as follows:

- (a) Asphalt will be measured on a square metre basis for:
 - (i) "Asphalt Pathways" on Form B: Prices.

E19.11.2 Basis of Payment shall be as follows:

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(a) Asphalt Pathways and Bench Area 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.

E20. SITE FURNITURE

- E20.1 Description
- E20.1.1 This specification shall cover the **pick-up** and installation of three (3) waste receptacles, two (2) accessible picnic table, one (1) backless bench and three (3) backed benches.
- E20.1.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawings and specified herein.
- E20.2 Materials
- E20.2.1 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.
- E20.2.2 Concrete foundations shall be as per **E26**.
- E20.2.3 Site Furniture shall be:
 - (a) Waste Receptacle Metal Slat Type galvanized, as per SCD-119-R2, Product # 52501063GLV (metal slat WR) and Product # 52501058GLV (Wire Basket) or substitute approved in accordance with B7.
 - (b) <u>Backed Bench</u> Tache Style Composite Bench with Arm Rests galvanized, as per SCD-121A, **Product # 52501085GLV**, or substitute approved in accordance with **B7**.
 - (c) <u>Backless Bench</u> Tache Style Composite Bench with Arm Rests galvanized, w/ extra arm as per SCD-121C, **Product # 52501086GLV**, or substitute approved in accordance with **B7**.
 - (d) <u>Accessible Picnic Table</u> Tache Style Wheelchair Metal Frame Picnic Table, as per SCD-122A, with wood slats and cedar tone painted finish and galvanized frame, or substitute approved in accordance with **B7**.
- E20.2.4 For ordering Site furniture please email:
 - (a) pwd-cps-orderdesk@winnipeg.ca

E20.3 Construction Methods

- (a) All Work is to be located and installed in accordance with the Drawings, SCDs, 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.
- (e) Concrete foundations shall be as per Drawings and **E26**.
- E20.4 Method of Measurement and Basis of Payment
- E20.4.1 Method of Measurement shall be as follows:
 - (a) Site Furniture will be measured on a per item basis for the following items:

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 - (i) "Pick up and install backless bench",
 - (ii) "Pick up and install backed benches",
 - (iii) "Pick up and install picnic table", and;
 - (iv) "Pick up and install waste receptacles", on Form B: Prices.

E20.4.2 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.

E21. TIMBER FENCING

E21.1 Description

- E21.1.1 This specification shall cover the supply and installation of the Timber Fence as shown on the drawings and SCD-105F and specified herein.
- E21.1.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.

E21.2 Quality Assurance

- E21.2.1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- E21.3 Delivery, Storage and Handling
- E21.3.1 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- E21.3.2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- E21.3.3 Storage and Handling Requirements:
 - (a) Store materials off ground and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - (b) Replace defective or damaged materials with new.

E21.4 Materials

- E21.4.1 Pressure Treated Timbers, Dimension Lumber: To CSA 080, ACQ-C treatment, Green colour, NLGA no. 2 and better. Pine. All wood to be free of defects, any warped, checked or bent materials will be rejected.
- E21.4.2 Hardware: to CAD/CSA-G164, for exterior work and acceptable for ACQ treated lumber. All hardware to be hot dipped galvanized, size and type to suit application and as per Drawings.
- E21.4.3 Preservative: Clear type to CSA 080 for above ground applications and preservative suitable for below grade applications on all horizontal boards that are buried below grade.

E21.5 Construction Methods

- E21.5.1 Handling and use of treated timber
 - (a) Handle and use treated material in a manner that will avoid damage or field fabrication causing alteration in original treatment.
 - (b) Treat in field, cuts and damages to surface of treated material with an appropriate, clear preservative as described in CSA 080. Ensure that damaged areas such as

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abrasions nail and spike holes, are thoroughly saturated with field treatment solutions as per CSA 080.

- E21.5.2 All work is to be located and installed in accordance with the Drawings.
- E21.5.3 Contractor shall confirm proposed location of fencing with Contract Administrator prior to fabrication.
- E21.5.4 Contractor to verify underground utility locations prior construction and report any discrepancies to the Contract Administrator immediately.
- E21.5.5 All wood cuts shall be sanded to remove any burrs.
- E21.5.6 Treat surfaces of material with wood preservative before installation.
- E21.5.7 Apply preservative by dipping, or by brush to completely saturate and maintain wet film on surface for minimum 3 minute soak into lumber.
- E21.5.8 Re-treat surfaces exposed by cutting, trimming or boring with liberal brush application of preservative before installation.
- E21.5.9 Treat material as follows:
 - (a) Ends of all fence posts that have been cut.
 - (b) Ends of wood rails that have been cut.
 - (c) Ends of wood boards that have been cut. Where possible orientate cut ends towards grade.
- E21.5.10 Lettering to be centred vertically on Horizontal slats as per Drawings. Letters to be routered to a ¼" (6mm) depth, concave to not trap water. Letter width to be 1" (25mm). Letters to be painted black with a paint that is suited to outdoor conditions on GPT lumber. Contract Administrator to review horizontal slat prior to installation.
- E21.5.11 Do all fastening neatly, evenly, and thoroughly. Lag bolts shall be countersunk so as not to protrude above the face of the wood surface.
- E21.5.12 Install all members true to line, levels, and elevations. Set plumb and space uniformly.
- E21.5.13 Build work square, true and accurate to required height, length, and depth with joints closely fitted and properly secured.
- E21.5.14 Use timbers of the longest possible length to minimize joints.
- E21.6 Cleaning as per D22.
- E21.6.1 Upon completion remove all sawdust, scrap pieces of wood, metal or plastic lumber straps, and all other debris and legally dispose of off-site.
- E21.7 Method of Measurement and Basis of Payment
- E21.7.1 Method of Measurement shall be as follows:
 - (a) The supply and installation of Timber Fencing shall be measured on a per linear metre basis for:
 - (i) "Timber fencing" on Form B: Prices.
 - (b) No separate Measurement will be made for the supply and installation of the routering and painting of Park Name and Address as that work is incidental herein.
- E21.7.2 Basis of Payment shall be as follows:
 - (a) Timber Fencing will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. The price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

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(b) No spate Payment will be made for the supply and installation of the routering and painting of Park Name and Address as that work is incidental herein.

E22. CHAIN LINK BAFFLE GATES

- E22.1 Description
- E22.1.1 The Work to be done by the Contractor under this specification shall include the furnishing of all superintendence, overhead labour, materials, equipment, tools, supplies and all other things necessary for and incidental to the satisfactory performance and completion of all Work as shown on the Drawings and as hereinafter specified, including, but not necessarily confined to the following:
 - (a) Supply and Installation of Chain Link Baffle Gates.
- E22.1.2 This specification supplements and amends C.W. 3550 Chain Link Fencing
- E22.2 Materials
- E22.2.1 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.
- E22.2.2 Chain link fencing as specified in CW 3550 and on Drawings.
- E22.2.3 Baffle Gate height shall be 1.22m (4'), with knuckled top and bottom fabric.
- E22.3 Construction Methods
- E22.3.1 As per CW 3550, SCD-633 and Drawings.
- E22.4 Method of Measurement and Basis of Payment
- E22.4.1 Method of Measurement shall be as follows:
 - (a) Chain Link Fencing will be measured on a lineal meter basis for the following items:
 - (i) "Baffle Gates" on Form B: Prices.
- E22.4.2 Basis of Payment shall be as follows:
 - (a) "Baffle Gates" 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.

E23. SOIL AND SOD

- E23.1 Description
- E23.1.1 This Specification shall amend and supplement the most up to date revisions of City of Winnipeg Specifications CW 3510, CW 3520 and CW 3540. The Contractor shall install mineral sod and a **minimum** 75mm compacted thickness of topsoil, as required bringing up level of finished grade as necessary.
- E23.1.2 The Contractor shall install topsoil and sod over all graded areas including; around the perimeter of new play area, perimeter of new asphalt areas, swales and old play areas.
- E23.1.3 No stockpiling/placing soil on new asphalt.
- E23.1.4 Areas to be Sodded are to be laid out on Site and approved by the Contract Administrator before commencing Work. Work outside the limit approved by the Contract Administrator will not be measured and will not be paid for under this section but considered incidental to the Work. Such incidental items that will not be measured include but are not limited to

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topsoil and sod placed at the edge of new paving. Incidental Site restoration shall conform to the same Specifications.

- E23.1.5 Where new sod will meet existing, employ a vertical shearing operation, such as using a sharp spade or edger, along the outside edges of the excavation to create a clean and definite line for the new sod to abut flush to.
- E23.1.6 Restoration shall be achieved using topsoil and sod unless otherwise directed by the Contract Administrator.
- E23.1.7 Thirty (30) day maintenance period on sod will commence at Total Performance and acceptance.
- E23.2 Method of Measurement and Basis of Payment
- E23.2.1 Method of Measurement shall be as follows:
 - (a) Soil and Sod will be measured on a square metre basis for:
 - (i) "Soil and sod" on Form B: Prices.
 - (b) No measurement will be made for soil depths greater than 75mm as this work is incidental herein.
- E23.2.2 Basis of Payment shall be as follows:
 - (a) Soil and sod 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) No payment will be made for soil depths greater than 75mm as this work is incidental herein.

PLAY EQUIPMENT

E24. PLAY EQUIPMENT

- E24.1 This specification shall cover the supply and installation of the Play Equipment as listed below and specified herein.
- E24.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.
- E24.3 The Contractor shall obtain all approvals including permit if required.
- E24.4 Play Area:
 - (a) Play area to be designed for children aged 2-12
 - (b) Play equipment and area must adhere to the following seven (7) inclusive design requirements:
 - (i) Equitable Use (the design is useful to people with diverse abilities);
 - (ii) Flexibility in Use (design accommodates a wide range of users);
 - (iii) Tolerance for error (design minimizes hazards);
 - (iv) Perceptible Information (information is effectively communicated to user);
 - (v) Low Physical Effort (can be used easily with little fatigue);
 - (vi) Appropriate size and space for approach and use, and;
 - (vii) Simple and intuitive
 - (c) Play equipment must provide the following play activities:
 - (i) Sensory & Imaginative Play;

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 - (ii) Climbing;
 - (iii) Balancing;(iv) Motion; and
 - (v) Sliding.
 - (d) The design submission shall be evaluated as per B20.
 - (e) It must also include at least 1 (one) transfer station for access of adult caregiver or reduced mobility access;
- E24.5 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.
- E24.6 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.

E24.7 Playstructures

E24.7.1 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. The play equipment and their safety zones should fit into the proposed play areas. Efficiency and good use of space will be considered in the evaluation of submissions.
- (c) If Post Toppers or roof structures are proposed they must be high enough that they are not easily accessible from decks or railings so as to prevent or discourage climbing onto them.
- (d) Where Decks meet a ramp, the decks must allow for a minimum 7' (2.13m) turning radius of a wheel chair. Hexagonal or any other combination of decks pieces fitted together to achieve this radius are permitted.
- (e) Minimum of two (2) Accessible deck areas with accessible play components. One for Junior area and one for Senior area. If possible, more decks are encouraged. Decks may have other non-accessible components protruding into the play area, ie. climbers, etc.
- (f) Must provide a secure connection from accessible entry to beginning of elevated ramp to accessible entry. See Drawing for reference.

E24.7.2 Materials

- (a) Posts / Caps
 - (i) All posts shall be a minimum 5" O.D. round or 4" square tubing for a post and deck structure.
 - (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) All posts shall be fabricated from either aluminum (0.125" (11ga) min. wall thickness) or galvanized steel (0.120" (11 ga) 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.
- (iv) In the case of a deckless structure, a minimum size of 2 3/8" O.D. round posts fabricated out of steel or aluminum is acceptable.
- (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) A minimum of one stainless steel slide is required, North or east orientation preferred.
 - (ii) One slide for 2-5 and minimum one slide for 5-12.
- (h) Each playstructure shall have kick plates and hand loops as required to meet the most recent Canadian Standards Association Standards.

E24.7.3 Installation

- (a) Play equipment shall be installed as per manufacturer's specifications and in accordance with the most recent Canadian Standards Association Standards.
- (b) One play equipment installer on site, at minimum, must be a valid Canadian Certified Playground Inspector.
- (c) All posts and other vertical items shall be plumb and true to vertical, if so designed.
- (d) All decks shall be level, if so designed.

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E24.8.1 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 Drawings. The Components and their safety zones must fit into the proposed play area.

E24.8.2 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 E26
- E24.9 Method of Measurement and Basis of Payment
- E24.9.1 Method of Measurement shall be as follows:
 - (a) Play Equipment shall be measured on a lump sum basis for:
 - (i) "2-12 Play Equipment", on Form B: Prices
- E24.9.2 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.

E25. SWING SET

E25.1 General Description

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E25.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.

- E25.1.2 This specification shall cover the supply and installation of two (2) complete 8' tall swing standard as specified herein:
 - (a) Three Leg Heavy Duty Swing Frame, 2.4m (8ft.) high, 2-Bay, complete with three (3) slash-proof rubber belt seats, heavy-duty chain, swing hangers and hammer locks / bolt links and one (1) moulded accessible seat for 5-12 yrs, heavy-duty chain, swing hangers and hammer locks / bolt links.
 - (b) Three Leg Heavy Duty Swing Frame, 2.4m (8ft.) high, 2-Bay, complete with three (3) slash-proof rubber, enclosed infant seats, heavy-duty chain, swing hangers and hammer locks / bolt links **and** one (1) moulded accessible seat for 2-5yrs, heavy-duty chain, swing hangers and hammer locks / bolt links.

E25.2 Materials

E25.2.1 Topbeam

(a) All topbeams shall be fabricated from 3 1/2" O.D. 8 gauge (minimum), RS40 galvanized steel pipe with anti-wrap. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating.

E25.2.2 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.

E25.2.3 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 aluminium or galvanized metal complete with tamper-proof hardware.

E25.2.4 Swing Hangers

(a) All swing hangers shall be fabricated from galvanized malleable iron and have oil impregnated bearings pressed in.

E25.2.5 Swing Chain

(a) All swing chain shall be 4/0 straight link, galvanized steel.

E25.2.6 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.

E25.2.7 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.

E25.2.8 Moulded Accessible Seats

(a) All moulded accessible seats shall be moulded of U.V. stabilized, high quality plastic complete with a moulded harness. One (1) for 2-5 yrs and One (1) for 5-12 yrs.

E25.2.9 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. The City of Winnipeg Specifications RFP No. 392-2017 Page 27 of 28

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E25.2.10 Concrete Foundations

(a) Post shall be installed into a concrete footing the composition of which is detailed in **E26**.

- E25.3 Installation
- E25.3.1 Installation shall be in accordance with Manufacturers specifications.
- E25.3.2 Top rail is to be level and posts securing anchored in concrete.
- E25.3.3 Swing seats shall not be installed until the protective surfacing (in accordance with **E16**) has been installed
- E25.4 Method of Measurement and Basis of Payment
- E25.4.1 Method of Measurement shall be as follows:
 - (a) Swing Set will be measured on a per unit basis for:
 - (i) "2 bay junior swing set", and;
 - (ii) "2 bay senior swing set" on Form B: Prices.
 - (b) No additional measurement will be made for the supply and installation of moulded enclosed bucket seats as these items are incidental to the work herein.
- E25.4.2 Basis of Payment shall be as follows:
 - (a) Swing Set 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) No additional payment will be made for the supply and installation of moulded enclosed bucket seats as these items are incidental to the work herein.

E26. FOUNDATIONS

- E26.1 General Description
- 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.
- E26.2 Materials
 - (a) The specific concrete requirements shall be:
 - (b) Sulfate resistant, Type 50 Cement;
 - (c) 28 day compressive strength of 30 Mpa;
 - (d) maximum aggregate size of 20mm, nominal;
 - (e) slump 80 +/- 20mm;
 - (f) maximum water/cement ratio 0.49.

E26.3 Installation

E26.3.1 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.

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E26.3.2 All concrete footings for play equipment shall be a **minimum of 3' depth**, or in accordance with Manufacturer's specifications, whichever is greater

- E26.4 Method of Measurement and Basis of Payment
- E26.4.1 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.
- E26.4.2 Basis of Payment shall be as follows:
 - (a) No separate payment shall be made for play equipment foundations.

E27. MAINTENANCE KITS

- E27.1 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.
- E27.2 There shall be no payment for the maintenance kits.