



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 262-2009

MARYLAND TOT LOT PLAYGROUND REDEVELOPMENT

TABLE OF CONTENTS

PART A - BID SUBMISSION

| | |
|----------------|---|
| Form A: Bid | 1 |
| Form B: Prices | 3 |

PART B - BIDDING PROCEDURES

| | |
|-------------------------------------------------|---|
| B1. Contract Title | 1 |
| B2. Submission Deadline | 1 |
| B3. Site Investigation | 1 |
| B4. Enquiries | 1 |
| B5. Addenda | 1 |
| B6. Substitutes | 2 |
| B7. Bid Components | 2 |
| B8. Bid | 3 |
| B9. Prices | 4 |
| B10. Design Drawings | 4 |
| B11. Component Description | 4 |
| B12. Qualification | 4 |
| B13. Opening of Bids and Release of Information | 5 |
| B14. Irrevocable Bid | 5 |
| B15. Withdrawal of Bids | 5 |
| B16. Evaluation of Bids | 6 |
| B17. Award of Contract | 7 |

PART C - GENERAL CONDITIONS

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

PART D - SUPPLEMENTAL CONDITIONS

General

| | |
|-----------------------------|---|
| D1. General Conditions | 1 |
| D2. Scope of Work | 1 |
| D3. Contract Administrator | 1 |
| D4. Contractor's Supervisor | 1 |
| D5. Notices | 1 |

Submissions

| | |
|------------------------------------|---|
| D6. Authority to Carry on Business | 2 |
| D7. Safe Work Plan | 2 |
| D8. Insurance | 2 |
| D9. Performance Security | 3 |
| D10. Subcontractor List | 3 |
| D11. Detailed Work Schedule | 3 |

Schedule of Work

| | |
|---------------------------------------------------------------|---|
| D12. Commencement | 4 |
| D13. Substantial Performance | 4 |
| D14. Total Performance | 4 |
| D15. Liquidated Damages | 5 |
| D16. Existing Services and Utilities | 5 |
| D17. Access To Site | 5 |
| D18. Permits, Notices, Licenses, Certificates, Laws and Rules | 5 |
| D19. Damage to Existing Structures, Trees and Property | 6 |
| D20. Pedestrian Safety And Traffic Management | 6 |
| D21. Protection Of The Survey Infrastructure | 7 |
| D22. Site Enclosures | 7 |

Control of Work

| | |
|-------------------|---|
| D23. Job Meetings | 7 |
|-------------------|---|

| | |
|------------------------------------------------------------------------|----|
| D24. Prime Contractor – The Workplace Safety and Health Act (Manitoba) | 7 |
| Measurement and Payment | |
| D25. Payment | 8 |
| Warranty | |
| D26. Warranty | 8 |
| D27. Site Restoration | 8 |
| Form H1: Performance Bond | 9 |
| Form H2: Irrevocable Standby Letter of Credit | 11 |
| Form J: Subcontractor List | 13 |

PART E - SPECIFICATIONS

General

| | |
|--------------------------------------------|----|
| E1. Applicable Specifications and Drawings | 1 |
| E2. Excavation and Disposal | 1 |
| E3. Timber Edging | 2 |
| E4. Sub-Surface Drainage | 3 |
| E5. Protective Surfacing | 4 |
| E6. Granular Path and Seating Area | 5 |
| E7. Site Furniture | 7 |
| E8. Woodchip Mulch | 8 |
| E9. Sodding and Seeding | 8 |
| E10. Shrub Bed | 9 |
| E11. Plant Material | 10 |
| E12. General Comments | 12 |
| E13. Playstructures | 13 |
| E14. Independent Components | 15 |
| E15. Swing Set | 16 |
| E16. Foundations | 17 |
| E17. Maintenance Kits | 18 |

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 MARYLAND TOT LOT PLAYGROUND REDEVELOPMENT

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, May 7, 2009.

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

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

B3. SITE INVESTIGATION

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

B4. ENQUIRIES

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

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

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

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

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

B5. ADDENDA

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

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

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

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

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

B6. SUBSTITUTES

- B6.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B6.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B6.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
 - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
 - (c) identify any anticipated cost or time savings that may be associated with the substitute;
 - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
 - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B6.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.7, deviations in consistent with the Bid Opportunity document shall be evaluated in accordance with B16.1(a).

B7. BID COMPONENTS

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

- (a) Form A: Bid;
- (b) Form B: Prices;
- (c) Design Drawings as per B16;
- (d) Component Descriptions as per B16.

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

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

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

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

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

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

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

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

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

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

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

B8. BID

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

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

- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
- (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
- (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
- (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

B8.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B8.2.

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

B9. PRICES

- B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.
- B9.1.1 Notwithstanding C12.2.3(c), prices on Form B: Prices shall include the Manitoba Retail Sales Tax (MRST, also known as PST), but exclude GST.
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B9.4 Prices from Non-Resident Bidders are subject to a Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

B10. DESIGN DRAWINGS

- B10.1 The Bidder should submit drawings that illustrate the proposed design and play equipment, such as plan, perspective, and any other submission to illustrate the design intent. Additional drawings may be requested prior to award for more detailed evaluation.

B11. COMPONENT DESCRIPTION

- B11.1 The Bidder shall submit component description and/or graphic or catalogue reference outlining the specifications of play equipment components

B12. QUALIFICATION

- B12.1 The Bidder shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba; and
 - (b) be financially capable of carrying out the terms of the Contract; and

- (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

B12.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>

B12.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);

B12.4 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.

B12.5 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

B13. OPENING OF BIDS AND RELEASE OF INFORMATION

B13.1 Bids will not be opened publicly.

B13.2 Following the submission deadline, the names of the Bidders and their Total Bid Prices (unevaluated, and pending review and verification of conformance with requirements) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/bidopp.asp>

B13.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>

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

B14. IRREVOCABLE BID

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

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

B15. WITHDRAWAL OF BIDS

B15.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

- B15.1.1 Notwithstanding C23.3, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Bid withdrawn.
- B15.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

B16. EVALUATION OF BIDS

- B16.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity or acceptable deviation there from (pass/fail);
 - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B12 (pass/fail);
 - (c) Total Bid Price; (10 Points) pursuant to B16;
 - (d) Design Drawings (90 Points) pursuant to B16;
 - (e) economic analysis of any approved alternative pursuant to B6.
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities, if the interests of the City so require.
- B16.3 Further to B16.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B16.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B16.4.2 Further to B16.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.
- B16.4.3 Further to B16.1(c) the Award Authority may reject a Bid as being non-responsive if it exceeds the budget as shown on Form B: Prices.
- B16.4.4 The Total Bid Price shall be evaluated with a weighting of 10 points out of a total of 100 possible points. As such, the lowest Bidder shall receive the full 10 points, and the second lowest Bidder and subsequent Bidders shall be pro-rated accordingly.

B16.5 Further to B16.1(d) Design Drawings shall be evaluated with a weighting of 90 points out of a total of 100 possible points. Design Drawings will be evaluated considering the Bidder's Bid Submission and any other information required.

B16.5.1 The Design shall be evaluated on the following criteria:

- (a) compliance with CSA Standards (pass/fail);
- (b) play value (maximum 45 points):
 - (i) 20 points - Variety of activities provided (as indicated in E12.4(b));
 - (ii) 7 points - Variety of access points & egress points;
 - (iii) 7 points - Provides opportunities for social / interpersonal interaction and cooperative play;
 - (iv) 6 points - Provides for fine and gross motor and sensory development;
 - (v) 5 points - Uniqueness of components as compared to similar playgrounds components within walking distance (400m) of the park.
- (c) Designed for inclusive play using Universal Design principles – Accessible Play Area only (maximum 15 points):
 - (i) Complies with section 4.5.4 of the 2006 City of Winnipeg Accessibility Design Standards (www.winnipeg.ca/ppd/UD/default.stm)(pass/fail);
 - (ii) 5 points - Provide minimum one (1) slide to be accessible by transfer system and well-integrated with other play;
 - (iii) 5 points - Layout of the play area for integration of the wheelchair accessible components to promote inclusive play;
 - (iv) 5 points – Provision of tactile and auditory play experiences.
- (d) Layout/circulation (maximum 20 points):
 - (i) 5 points - Efficient use of space within and between play elements;
 - (ii) 5 points - Flow and relationship between play area activities;
 - (iii) 4 points - Layout / orientation of components on Site and in relation to park entrances;
 - (iv) 3 points - orientation to provide good visibility to play area from the adjacent road;
 - (v) 3 points - slide orientation (metal facing north).
- (e) Durability (maximum 10 points):
 - (i) Use of durable / temper-resistant materials, low maintenance finishes and connector systems & ease of repair / replacement of the products used with the playground area.

B16.6 Further to B16.5.1(a), if Contractor states play equipment components are compliant with CSA Standards which are not, liquidated damages shall be charged as per D15 should this result in additional design and/or meeting time on the part of the Contract Administrator.

B17. AWARD OF CONTRACT

B17.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

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

B17.2.1 Without limiting the generality of B17.2, the City will have no obligation to award a Contract where:

- (a) the prices exceed the available City funds for the Work;

- (b) the prices are materially in excess of the prices received for similar work in the past;
- (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
- (d) only one Bid is received; or
- (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.

B17.3 Subject to B17.2, where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the responsive Bid, having the highest points based on evaluation criteria.

B17.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.

B17.4 Notwithstanding C4, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.

B17.5 The Contract, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

PART C - GENERAL CONDITIONS

C0. GENERAL CONDITIONS

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

PART D - SUPPLEMENTAL CONDITIONS

GENERAL

D1. GENERAL CONDITIONS

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

D2. SCOPE OF WORK

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

- (a) Excavation and Disposal;
- (b) Supply and Installation of granular pathway and seating areas;
- (c) Supply and Installation of timber edging;
- (d) Supply and Installation of site furniture;
- (e) Supply and Installation of topsoil and sod as required in accordance with the requirements;
- (f) Supply and Installation of new play equipment and independent components;
- (g) Supply and Installation of engineered wood fibre safety surfacing and associated drainage pit;
- (h) Preparation of shrub beds, and;
- (i) Supply and Installation of shrubs.

D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is:

Shauna Prociuk
Urban Designer
City of Winnipeg
Parks, Riverbanks and Community Initiatives Branch
Planning and Land Use Division
Planning, Property and Development Department
15-30 Fort Street
Winnipeg, MB R3C 4X5

Telephone No. (204) 986-3938
Facsimile No. (204) 986-7524

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

D4. CONTRACTOR'S SUPERVISOR

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

D5. NOTICES

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

- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.
- D5.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following address or facsimile number:
The City of Winnipeg
Chief Financial Officer
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174
- D5.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:
The City of Winnipeg
Internal Services Department
Legal Services Division
Attn: City Solicitor
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

SUBMISSIONS

D6. AUTHORITY TO CARRY ON BUSINESS

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

D7. SAFE WORK PLAN

- D7.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D7.2 The Safe Work Plan should be prepared and submitted in the format shown in the City's template which is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/Safety/default.stm>

D8. INSURANCE

- D8.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;

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

D8.2 Deductibles shall be borne by the Contractor.

D8.3 The Contractor shall provide the Contract Administrator with a certificate(s) of insurance, in a form satisfactory to the City Solicitor, at least two (2) Business Days prior to the commencement of any Work but in no event later than seven (7) Calendar Days from notification of the award of Contract by Purchase Order.

D8.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

D9. PERFORMANCE SECURITY

D9.1 If the Contract Price exceeds one-hundred thousand dollars (\$100,000.00), the Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:

- (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
- (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
- (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.

D9.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.

D9.2 The Contractor shall provide the City Solicitor with the required performance security within seven (7) Calendar Days of notification of the award of the Contract by way of Purchase Order and prior to the commencement of any Work on the Site.

D10. SUBCONTRACTOR LIST

D10.1 The Contractor shall provide the Contract Administrator with a complete list of the Subcontractors whom the Contractor proposes to engage (Form J: Subcontractor List) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than seven (7) Calendar Days from notification of the award of Contract.

D11. DETAILED WORK SCHEDULE

D11.1 The Contractor shall provide the Contract Administrator with a detailed work schedule at least two (2) business days prior to the commencement of any work on the site but in no event later than the date specified in C 4.1 for the return of the executed contract.

D11.2 Detailed Work Schedule shall consist of the following dates:

- (a) Start date;
- (b) Installation of timber edging;
- (c) Excavation of holes for play equipment posts;
- (d) Arrival of play equipment to Site;

- (e) Concrete pouring for posts;
- (f) Installation of hard surfaces;
- (g) Expected completion.

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

SCHEDULE OF WORK

D12. COMMENCEMENT

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

D12.2 The Contractor shall not commence any Work on the Site until:

- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D6;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D7;
 - (iv) evidence of the insurance specified in D8;
 - (v) the performance security specified in D9;
 - (vi) the Subcontractor list specified in D10; and
 - (vii) detailed work schedule specified in D11.
- (b) the Contractor has attended a pre-construction meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a pre-construction meeting.

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

D12.4 The Contractor shall commence the Work on Site within fifty six (56) Calendar Days of receipt of the Purchase Order. The City intends to award this contract within thirty (30) Calendar Days after the Submission Deadline.

D13. SUBSTANTIAL PERFORMANCE

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

D13.2 When the Contractor considers the Work to be substantially performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Substantial Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

D13.3 The date on which the Work has been certified by the Contract Administrator as being substantially performed to the requirements of the Contract through the issue of a certificate of Substantial Performance is the date on which Substantial Performance has been achieved.

D14. TOTAL PERFORMANCE

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

D14.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the

Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.

- D14.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

D15. LIQUIDATED DAMAGES

- D15.1 If the Contractor fails to achieve Total Performance in accordance with the Contract by the day fixed herein for Total Performance, the Contractor shall pay the City five hundred dollars (\$500) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.
- D15.2 The amount specified for liquidated damages in D15.1 is based on a genuine pre-estimate of the City's damages in the event that the Contractor does not achieve Total Performance by the day fixed herein for same.
- D15.3 If the contractor misrepresents the CSA Compliance of the play equipment being installed and this results in additional design and/or meeting time on the part of the Contract Administrator the Contractor shall pay the City five hundred dollars (\$500) per working day for each and every Working Day during which such additional work continues.
- D15.4 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

D16. EXISTING SERVICES AND UTILITIES

- D16.1 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.

D17. ACCESS TO SITE

- D17.1 Access to the Site as required by the Contractor shall be provided and maintained by the Contractor at his own expense and approved by the Contract Administrator.
- D17.2 The Contractor's operations shall be limited to the minimum area necessary for undertaking the Work and he shall be responsible for all damage resulting from his Work on private property.

D18. PERMITS, NOTICES, LICENSES, CERTIFICATES, LAWS AND RULES

- D18.1 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.
- D18.2 The Contractor shall comply with all laws, ordinances, rules and regulations that would relate to the Work.
- D18.3 All notices, consents, approvals, statements, authorizations, documents or other communications to the City shall be submitted to the Contract Administrator.
- D18.4 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Act.
- D18.5 All Work shall be performed in compliance with the Manitoba Workplace Health and Safety Fall Protection guidelines.

D18.6 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.

D19. DAMAGE TO EXISTING STRUCTURES, TREES AND PROPERTY

D19.1 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.

D19.2 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing park trees within the limits of the construction area:

- (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment within 2 metres of trees.
- (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25x100x2400 wood planks, or suitable protection as approved by the Contract Administrator.
- (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
- (d) Operation of equipment within the drip line of the trees shall be kept to a minimum required to perform the Work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the drip lines of trees. The drip line of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.

D19.3 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.

D19.4 No separate measurement or payment will be made for the protection of trees.

D20. PEDESTRIAN SAFETY AND TRAFFIC MANAGEMENT

D20.1 Further to CW 1130-R1, the Contractor shall take such measures as are necessary to ensure safe and convenient pedestrian ingress and egress is maintained to private properties while he is Working near them. Any damage caused by the negligence of the Contractor or his Sub-Contractors to the adjacent Works or properties, shall be promptly repaired by him at his own expense, to the satisfaction of the Contract Administrator.

D20.2 Ambulance/ Emergency vehicle access must be maintained at all times.

D21. PROTECTION OF THE SURVEY INFRASTRUCTURE

- D21.1 Notwithstanding clause 4 "Protection of Survey Bars" of the Standard Provisions; Current legislation, The Surveys Act, places the onus on those undertaking construction to protect the Survey Infrastructure from damage as a result of their activity.
- D21.2 Further to C:6.26 (g), at least 72 hours prior to the commencement of the On-Site Work the Contractor shall contact the City of Winnipeg, Geomatics Services Branch at 986-4826 (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.
- D21.3 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.
- D21.4 Survey monuments and geodetic control monuments at or adjacent to the Site, not in the line of the proposed construction that are damaged or disturbed by the Contractor shall be replaced or relocated by the City or its agent and all associated costs shall be paid for by the Contractor. An approximate estimate of the costs involved to restore a legal survey monument is \$1,000 per bar and \$3,000 per control monument. Contractors must ensure their landscaping and other subcontractors are aware of this clearance procedure and the potential restoration costs.
- D21.5 Where possible, amounts owed to the City in accordance with the above will be deducted from any payments to be made by the City to the Contractor.

D22. SITE ENCLOSURES

- D22.1 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.
- D22.2 Site enclosures shall be considered incidental to the Contract Work.

CONTROL OF WORK

D23. JOB MEETINGS

- D23.1 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.
- D23.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

D24. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D24.1 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).

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

- D26.1.1 For the purpose of Performance Security, the warranty period shall be one (1) year.

D27. SITE RESTORATION

- D27.1 Total Performance of the Work shall not be attained until the Contractor has cleaned up the Site and has removed all tools, equipment, waste, debris and surplus foundation earth to the satisfaction of the Contract Administrator. Unless otherwise specified, the Contractor shall restore all areas of the Site beyond the established limit of Work, which have been disturbed by the Contractor's operations to as good as or better than the original condition to the satisfaction of the Contract Administrator. The Contractor shall pay all costs associated with this Work.

FORM H1: PERFORMANCE BOND
(See D9)

KNOW ALL MEN BY THESE PRESENTS THAT

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

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

_____ dollars (\$_____)

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

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

BID OPPORTUNITY NO. 262-2009

MARYLAND TOT LOT PLAYGROUND REDEVELOPMENT

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

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

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

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

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

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

_____ day of _____, 20____ .

SIGNED AND SEALED
in the presence of:

(Witness as to Principal if no seal)

(Name of Principal)

Per: _____ (Seal)

Per: _____

(Name of Surety)

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

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

(Date)

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

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 262-2009

MARYLAND TOT LOT PLAYGROUND REDEVELOPMENT

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

(Name of Contractor)

(Address of Contractor)

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

_____ Canadian dollars.

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

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

Partial drawings are permitted.

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

(Address)

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

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

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

(Date)

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

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

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

(Name of bank or financial institution)

Per: _____
(Authorized Signing Officer)

Per: _____
(Authorized Signing Officer)

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

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

| <u>Drawing No.</u> | <u>Drawing Name/Title</u> |
|--------------------|-----------------------------------------------------|
| M.11-C | MARYLAND TOT LOT EXISTING CONDITONS & REMOVALS |
| M.11-D | MARYLAND TOT LOT PROPOSED PLAYGROUND REDEVELOPMENT |
| M.11-E | MARYLAND TOT LOT PLAY EDGING LAYOUT & PLANTING PLAN |
| M.11-F | MARYLAND TOT LOT PROPOSED SHRUB BED AND PATH LAYOUT |
| SCD-645A | PARK PATH – CRUSHED LIMESTONE |
| SCD-501C | PREPARATION OF SHRUB BED |
| SCD-650 | WOOD FIBRE SAFETY SURFACING DRAINAGE DIAGRAM |
| SCD-651 | PEDRA SINGLE TIMBER EDGING DETAIL |
| SCD-119 | WASTE RECEPTACLE METAL SLAT TYPE |
| SCD-130B | WHEEL CHAIR METAL FRAME PICNIC TABLE |
| SCD-717A | PARK SIGN INSTALLATION |

- E1.4 Above Drawings are available on request in AutoCAD .dwg or Vectorworks format from the Contract Administrator.

Site Development

E2. EXCAVATION AND DISPOSAL

- E2.1 General Description
- E2.1.1 This specification shall cover the excavation and legal disposal of existing surfacing to accommodate new surfacing materials and installations. It shall amend and supplement CW 3110-R11.
- E2.1.2 All extraneous materials are to be removed from the Site and disposed of in a safe and legal manner. The Work to be done by the Contractor under this specification shall include all labour, equipment and material necessary for and incidental to the satisfactory performance and completion of the Work herein specified.
- E2.1.3 Work shall include but not be limited to the following:
- (a) Excavate and dispose of excess soil, turf and sand areas to the limits shown on Drawing M.11-D to the depths necessary to achieve finish grade for:
 - (i) Safety surfacing within proposed Play Area;
 - (ii) Granular path and seating areas;
 - (iii) Shrub Beds; and,

- (iv) Topsoil and Sod that is to cover excavated sand surfacing.

E2.2 Construction Methods

- E2.2.1 Excavation and disposal includes the removal of items (i.e. sod, sand, earth) as indicated on the Drawings and as directed by the Contract Administrator. Work includes the satisfactory disposal of unsuitable Site material such as clays susceptible to frost-heaving, silts, rock rubble rubbish and any surplus suitable Site material.
- E2.2.2 Do not disturb adjacent items designated to remain in place.
- E2.2.3 Disposal of material shall be understood to mean the hauling of all unsuitable material from the Site and the unloading in a legal manner acceptable to the Contract Administrator. If arrangements are made in advance excavated material may be disposed of on Site at a location designated by the Contract Administrator.
- E2.2.4 Contractor must coordinate with the Contract Administrator to ensure all removals have occurred.
- E2.2.5 Excavation should be coordinated with the installation of play equipment so as not to leave an open excavation area subject to ponding water.
- E2.2.6 Excavate to the limits shown and as necessary to achieve finish grades:
- (a) Safety Surfacing in New Play Area – to accommodate adequate wood fibre surfacing for the proposed equipment, as per manufacturer's instructions, and in accordance with Drawing M.11-D, SCD-650, Design Submission, and per E5.
 - (b) Granular path and seating areas– 200mm depth, in accordance with SCD-645A and Drawing M.11-D and per E6;
 - (c) Shrub beds – 350mm minimum, in accordance with Drawing M.11-F, SCD-501C - and per E10; and,
 - (d) Topsoil and sod – 100mm, per E9 (which covers excavated sand surfacing).

E2.3 Method of Measurement and Basis of Payment

- E2.3.1 Method of Measurement shall be as follows:
- (a) Excavation and Disposal for new play areas shall be measured on a cubic metre basis for "Excavate and legally dispose of sand safety surfacing to allow for new safety surfacing in new Play Area and excavate and legally dispose of remaining on-site safety surfacing" on Form B: Prices.
- E2.3.2 Basis of Payment shall be as follows:
- (a) Excavation and Disposal will be paid for at the Contract Unit Prices on Form B: Prices. The amount to be paid for shall be the total number of units, measured as specified herein, which price shall be for full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.
 - (b) No Payment will be made for the Excavation and Disposal for the granular seating area extension as these items are incidental to E6.
 - (c) No Payment will be made for the shrub beds as these items are incidental to E10.

E3. TIMBER EDGING

E3.1 General Description

- E3.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the drawings and specifications.
- E3.1.2 This specification shall cover the supply and installation of timber edging to contain the safety surfacing for the New Play Area.

E3.2 Materials and Method

- E3.2.1 Layout shall be as the dimensions on Drawing M.11-E. The edging must provide for adequate safety surfacing area beneath and around play equipment, based on the most recent CSA safety zone requirements.
- E3.2.2 A 3.0 metre (10') offset shall be maintained from all existing trees unless otherwise noted.
- E3.2.3 All bottom timbers to be ACQ pressure treated (P.T.) pine, No.2 or better, no wane, bark, checking or splitting permitted. Wood shall be smooth and free of rough areas. All bottom Timber to be 150mm x 150mm to be longest lengths possible with a minimum length of 1200mm.
- E3.2.4 Timbers shall be installed as per Details SCD-651. Base course timbers shall be pinned with a minimum of two (2) 19mm diameter by 500mm rebar at maximum 1200mm O.C.
- E3.2.5 All capping wood to be 32mm x 150mm Pedra wood, minimum length 1200mm. Pedra cap joints to be offset from bottom timber joints by a minimum of 450mm. Pedra caps shall be pre-drilled, set with grain of wood curved down, and fastened to base course with yellow zinc plated deck screws treated for ACQ use and sized to suit. Pedra capping above base course shall be secured with double row of deck screws offset at 225mm and installed at 600mm O.C.
- E3.2.6 Geotextile fabric shall be in accordance with CW 3130- R2, and installed between the crushed granular base and the safety surfacing, as per Drawing SCD-651.
- E3.2.7 All timbers shall be cut neatly for a proper fit with no spaces or gaps between. All cuts shall be stained before being secured. Finished elevations shall ensure that all timbers are smooth, level, set plumb and spaced uniformly.
- E3.2.8 All granular base material shall conform to CW 3110-R11 and CW3130-R2. 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.
- E3.2.9 Granular base shall be installed as per Drawing SCD-651 and compacted to a minimum of 95 percent Standard Proctor Density.
- E3.2.10 The layout of the timber edging shall be coordinated with the installation of the play equipment to ensure that the proper safety zones are created around the equipment.
- E3.2.11 Contractor to layout on site for review and approval by Contract Administrator prior to construction.

E3.3 Method of Measurement and Basis of Payment

- E3.3.1 Method of Measurement shall be as follows:
- (a) Timber Edging will be measured on a linear metre basis for:
 - (i) "Supply and Install New Timber Edging" as indicated on Form B: Prices
- E3.3.2 Basis of Payment shall be as follows:
- (a) Timber Edging 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.

E4. SUB-SURFACE DRAINAGE

E4.1 General Description

- E4.1.1 This specification shall cover the supply and installation of sub-surface drainage system to drain the Play Area which is using wood fibre protective surfacing.

E4.1.2 This sub-surface drainage is to be used in conjunction with the drainage system that is included with the wood fibre protective surfacing in E5.

E4.1.3 Included within the sub-surface drainage is to be the grading of the Play Area.

E4.2 Materials and Methods

- (a) Granular sump material: 38 mm to 76mm diameter Clean Crushed Stone.
- (b) Filter Fabric: filter cloth.
- (c) Pipe: Perforated PVC Pipe, comes with filter sock. Size shall be 100mm as shown on Drawings.
- (d) The grading of the Play Area shall ensure that the base of the Area is sloped at a 0.6% to 1% slope towards the low end of the Site, as per SCD-650 and Drawing M.11-E.
- (e) A drain strip or pipe (depending on which wood fibre system is to be used) is to be installed along the lower edge of the play area and the wood fibre drain system is to drain to it.
- (f) The drain strip or pipe shall then direct the drainage of the Wood Fibre system to a low point in which the 0.9m diameter by 1.8m deep Rock Sump Pit shall be located. The sump shall be located at the low point within the New Play Area and as determined on Site with the Contract Administrator.

E4.3 Method of Measurement and Basis of Payment

E4.3.1 Method of Measurement shall be as follows:

- (a) Sub-Surface Drainage will be measured on a lump sum basis for the following:
 - (i) "Sub-Surface Drainage for Play Area, including Rock Sump Pit" on Form B: Prices.

E4.3.2 Basis of Payment shall be as follows:

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

E5. PROTECTIVE SURFACING

E5.1 General Description

E5.1.1 This specification shall cover the supply and install of engineered wood fibre safety surfacing.

E5.2 Wood Fibre Safety Surfacing

E5.2.1 Description

- (a) This specification shall cover the supply and installation of Wood Fibre Surfacing within the Play Area, as shown on Drawing M.11-D.

E5.2.2 Materials

- (a) Wood Fibre product shall be either Zeager Woodcarpet or Fibar FibarSystem 2000 products or substitute in accordance with E5.
 - (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 300:

The Fibar Group LLC
80 Business Park Drive, Suite 300
Armonk, NY 10504-1705
USA

Ph: (800) 342-2721

Fax: (914) 273-8659

info@FibarPlaygrounds.com

(b) Wood Fibre surfacing shall include wood fibre, filter cloth, subsurface drainage system and mats for bottom of slides, if applicable, under swings, and at each accessible entrance to the Play Area.

E5.2.3 Construction Methods

- (a) Wood Fibre shall be installed within the play area, as defined by the existing timber edging, to a minimum depth of 200 mm (after compaction). In play areas where the maximum fall height is greater than 2.4m (8'), depth of material to directly correspond to maximum fall height of play equipment in accordance with manufacturer's specifications.
- (b) The installation of the Wood Fibre shall be done immediately after the play equipment has been installed.
- (c) Installation of entire system, including fibre, filter cloth, subsurface drainage and mats shall be done according manufacturer's instructions. Adequate drainage within play equipment area must be ensured as per same.
- (d) A minimum of one (1) mat must be placed at each Accessible Entrance point to the Play Area.
- (e) 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.

E5.3 Method of Measurement and Basis of Payment

E5.3.1 Method of Measurement shall be as follows:

- (a) Protective Surfacing will be measured on a square metre basis for the following:
 - (i) "Supply and Install Engineered Wood Fibre Safety Surfacing in Play Area" on Form B: Prices.

E5.3.2 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.

E6. GRANULAR PATH AND SEATING AREA

E6.1 Description.

E6.1.1 This Specification shall amend and supplement the City of Winnipeg Specification CW 3110-R11.

E6.1.2 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 granular base course, surface course materials and geotextile, for crushed granular pathways and seating areas as indicated on Drawing M.11-D and Drawing M.11-F.

E6.2 Materials

E6.2.1 All material to conform to CW 3110-R11 and CW 3130-R2. 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.

E6.2.2 Granular Base Course and Surface

- (a) The Granular Path and Seating Area shall consist of a 150 mm base coarse depth of 19 mm diameter crushed limestone down, with a 50 mm depth of 6 mm diameter crushed limestone capping, see "Park Path – Crushed Limestone" on SCD-645A.

E6.2.3 Geotextile Fabric

- (a) Geotextile fabric shall be in accordance with CW 3130-R2.

E6.3 Construction Method

E6.3.1 Construction method shall conform to Specification CW 3110-R11 'Sub-grade, Sub-base, and Base Course Construction'.

E6.3.2 Contractor shall visit the Site and Verify all data and dimensions and report any errors, omissions or discrepancies to the Contract Administrator prior to any installation.

E6.3.3 The Contractor shall survey and stake out areas of crushed granular pathway and seating area prior to the start of construction as shown on the Drawings. Layout of paving shall be checked and confirmed with Contract Administrator prior to construction. Contractor shall be responsible for interpretation of grades and protection of stakes.

E6.3.4 Excavation of crushed granular pathway and seating areas shall be as per E2.

E6.3.5 Sub-Grade

- (a) Prepare compacted sub-grade to the lines and grades as shown on Drawings. Contract Administrator to review sub-grade preparation prior to placement of granular base.

E6.3.6 Granular Base

- (a) Geotextile fabric to be placed between Subgrade and granular base as per CW 3130-R2.
- (b) Place granular base material to the lines and grades as shown on Drawings. Extend base minimum 150mm beyond width path and seating area surface course.
- (c) Compact material to a minimum of 95 percent Standard Proctor Density.

E6.3.7 Granular Surface Course

- (a) Place granular surface course material to the lines and grades as shown on Drawings.
- (b) Compact material to a minimum of 95 percent Standard Proctor Density.

E6.4 Method of Measurement and Basis of Payment

E6.4.1 Method of Measurement shall be as follows:

- (a) Granular Path shall be measured on a square metre basis for: "Supply/Install Granular Pathway and Seating Areas" on Form B: Prices.

E6.4.2 Basis of Payment shall be as follows:

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

full payment for excavation, subgrade compaction, supply and installation of base coarse and top coarse, supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

E7. SITE FURNITURE

E7.1 Description

E7.1.1 This specification shall cover the supply and installation of three (3) metal slat waste receptacles, one (1) park sign, three (3) tache style composite benches and one (1) accessible picnic table.

E7.1.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work as shown on Drawing M.11-D and specified herein. Supply includes pick up and payment from source identified below.

E7.2 Materials

E7.2.1 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.

E7.2.2 Site Furniture shall be:

- (a) Waste Receptacle – Metal Slat Type, as per SCD 119, Product #52501062, or substitute approved in accordance with B6.
- (b) Park Sign, as per SCD-717A.
- (c) “Tache Bench Composite with Arms” as per SCD-139, Product or substitute in accordance with B6.
- (d) Wheel Chair Metal frame Picnic Table, as per SCD-130B, Product # 52501108.

E7.2.3 Contact for Site Furniture:

Aaron Lennon
Supervisor of Central Repair/Manufacturing Facility
City of Winnipeg
Fleet Management Agency Division
Public Works Department
215 Tecumseh St
Winnipeg, MB R3E 3S4
Telephone No. (204) 986-5505
Facsimile No. (204) 986-1248

E7.3 Construction Methods

- (a) All Work is to be located and installed in accordance with the Drawings M.11-D, SCD-119, SCD-717A, SCD-139 and SCD-130B 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.

E7.4 Method of Measurement and Basis of Payment

E7.4.1 Method of Measurement shall be as follows:

- (a) Site Furniture will be measured on a per unit basis for the following items:
 - (i) "Supply and Install new Metal Slat waste Receptacle",
 - (ii) "Supply and Install new Park Sign", and;
 - (iii) "Supply and Install Tache Style Composite Benches with Arms", and;
 - (iv) "Supply and Install Wheel Chair Metal Frame Picnic Table" on Form B: Prices.

E7.4.2 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.

E8. WOODCHIP MULCH

E8.1 Description

E8.1.1 This specification shall cover the supply and installation of Woodchip Mulch to be placed within the existing shrub beds, as shown on Drawing M.11-D.

E8.2 Materials

- (a) Mulch is to be a clean bark or wood chip mulch with chips not less than 15mm nor larger than 75mm in size and not more than 20mm thick. Mulch is to be free of leaves, branches and other extraneous matter.

E8.3 Construction Methods

E8.3.1 Installation

- (a) Woodchip Mulch shall be installed within the existing and expanded shrub beds, as shown on Drawing M.11-D to a minimum depth of 75mm.

E8.4 Method of Measurement and Basis of Payment

E8.4.1 Method of Measurement shall be as follows:

- (a) The supply and installation of Woodchip Mulch shall be measured on a per square metre basis for "Supply and Install Wood Chip Mulch" on Form B: Prices.

E8.4.2 Basis of Payment shall be as follows:

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

E9. SODDING AND SEEDING

E9.1 Description

E9.1.1 This Specification shall amend and supplement the City of Winnipeg Specifications CW 3510-R9, CW 3520-R7 and CW 3540-R5. The Contractor shall install mineral sod or seed and a minimum 75mm (for sod) or 100mm (for seed) compacted thickness of topsoil, as required.

E9.1.2 For Play Equipment areas, the Contractor shall install topsoil and seed around the perimeter of new timber edging areas to clean up turf disturbed by the Work as indicated on Drawing M.11-D. Seed and topsoil shall be installed at a distance of a maximum of 500mm from the new timber edging.

- E9.1.3 For the Former Play area, the Contractor shall install topsoil and sod to cover excavated sand areas as per Drawing M.11-D. If necessary use fill from excavated play area to bring sod level with surrounding area. Ensure positive drainage.
- E9.1.4 Path areas: The Contractor shall install topsoil and sod around the perimeter of newly constructed granular path and sitting area to clean up turf disturbed by the Work, if necessary.
- E9.1.5 Damaged areas: Restoration of damaged areas other than as outlined above shall be incidental to the Work. No separate payment shall be made. Restoration shall be achieved using seed and topsoil unless otherwise directed by the Contract Administrator.
- E9.1.6 Thirty (30) day maintenance period on sod and seed will commence at Total Performance and acceptance.
- E9.2 Method of Measurement and Basis of Payment
- E9.2.1 Method of Measurement shall be as follows:
- (a) Sodding and Seeding will be measured on a square metre basis for:
 - (i) "Supply and Install Soil and Sod" on Form B: Prices, and;
 - (ii) "Supply and Install Soil and Seed "on Form B Prices.
- E9.2.2 Basis of Payment shall be as follows:
- (a) Sodding and Seeding will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

E10. SHRUB BED

- E10.1 Description
- (a) This specification shall cover shrub bed installation.
 - (b) The City reserves the right to reduce the area of shrub beds installed in order to meet the budgetary constraints.
- E10.2 Materials
- E10.2.1 Topsoil Mix
- (a) Planting soil shall consist of black top soil, a fertile friable natural loam containing by volume not less than 4% and no more than 25% of organic matter for clay loams, and not less than 2% and no more than 25% for sandy loams, with an acidity value ranging from pH 6.0 to 8.0 and capable of sustaining vigorous plant growth. Topsoil is to be free of any mixture of subsoil, clay lumps and free of stones and other extraneous matter. It shall not contain couch or crab grass rhizomes.
- E10.2.2 Woodchip Mulch shall be in accordance with E8.
- E10.3 Construction Methods
- E10.3.1 General
- (a) Area of shrub bed as per Drawing M.11-F and shall be excavated as per E2. Planting bed shall be excavated with vertical sides and material removed to a minimum depth of 350mm in area indicated on Drawings M.11-F and SCD-501C.
- E10.3.2 Installation
- (a) Excavation shall be in accordance with E2.
 - (b) New Planting Beds to be excavated as per Drawing M.11-F. Existing Planting Beds to be excavated only where new plantings are identified on Drawing M.11-F. Upon

excavation of the planting bed, the excavation shall be backfilled with a topsoil mixture to a depth to permit adequate installation and stabilization of the plant material. Topsoil shall be placed in accordance with City of Winnipeg Standard Construction Specification CW 3540-R5 to a 400mm depth.

- (c) Existing Shrub Beds shall have their edges recut and shaped as per Drawing M.11-F.
- (d) Wood chip mulch shall be installed over topsoil in Shrub Bed to a depth of 75 mm, as per E8.

E10.4 Method of Measurement and Basis of Payment

E10.4.1 Method of Measurement shall be as follows:

- (a) Shrub Bed Preparation will be measured on a per square metre basis for "Shrub Bed Preparation" on Form B: Prices. This price shall be payment in full including all costs for the excavation of the planting bed and installation of the topsoil. The hauling and installation of wood chip mulch shall be paid for in E8.

E10.4.2 Basis of Payment shall be as follows:

- (a) Shrub Bed Preparation will be paid for at the Contract Unit Prices as indicated on Form B: Prices. The amount to be paid for shall be the total number of units 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.

E11. PLANT MATERIAL

E11.1 Description:

- (a) This specification shall cover the supply and installation of nursery grown shrubs.
- (b) The City reserves the right to reduce the quantity of shrubs in order to meet the budgetary constraints.

E11.2 Materials

E11.2.1 General

- (a) All nursery stock supplied shall be Canadian prairie nursery grown, of the species and sizes indicated on the drawings. Quality shall be in accordance with the latest "Guide Specification for Nursery Stock of the Canadian Nursery Trades Association".
- (b) Any nursery stock dug from native stands, wood lots, orchards or neglected nurseries and which have not received proper cultural maintenance as advocated by the Canadian Nursery Trades Association shall be designated as "collected plants". The use of "collected plants" will not be permitted unless approved by the Contract Administrator.
- (c) The Contract Administrator reserves the right to inspect the plant material at their original source, and to instruct the supplier on root and branch pruning requirements.
- (d) Nomenclature of specified nursery stock shall conform to the International Code of Nomenclature for Cultivated Plants and shall be in accordance with the approved scientific names given in the latest edition of standardized Plant Names. The names of varieties not names therein are generally in conformity with the names accepted in the nursery trades.
- (e) Plants larger than specified may be used if approved by the Contract Administrator. The use of such plants shall not increase the Contract price.
- (f) All nursery stock shall be measured when the branches are in their normal position. Height and spread dimensions specified refer to the main body of the plant and not from branch tip.

- (g) All nursery stock shall be well branched, true to type, structurally sound, possess a well developed, undamaged root system and shall be free of disease, insect infestations, rodent damage, sunscald, frost cracks and other abrasion or scare to the bark. All parts of the nursery stock shall be moist and show live, green cambium when cut.
- (h) At least one plant of each variety supplied shall bear a tag showing both the botanical and common name of the plant.

E11.2.2 Protection of Stock

- (a) All nursery stock shall be well protected from damage and drying out from the time of digging until the time of planting on site. All roots shall be cleanly cut; split roots are not acceptable.
- (b) Nursery stock shall be transplanted with care to prevent damage. Branches shall be carefully tied in such a manner so as not to break or damage trunks. Points of contact with equipment shall be padded. All nursery stock, which cannot be planted immediately upon arrival at the site, shall be well protected to prevent drying out and shall be kept moist until commencement of planting.

E11.2.3 Wound Dressing

- (a) Horticulturally accepted non-toxic, non-hardening emulsion. Wound Dressing must be approved by Contract Administrator.

E11.3 Construction Methods

E11.3.1 General

- (a) Planting pits shall be excavated in a square shape with vertical sides to a depth and a minimum width amounting to twice the diameter of the root system, as per drawing SCD-501C. The excavated pits shall be refilled with backfill mix as per E10. Hand dig pits where required to protect underground utilities.

E11.3.2 Installation

- (a) Upon excavation of the pits, and protection of any underground utility lines, the holes shall be backfilled with a topsoil mixture to a depth to permit adequate installation and stabilization of the plant material.
- (b) After inserting the plant and filling the planting hole with topsoil, water shall be poured in until the pit is thoroughly soaked. Filling of the hole shall then be completed and the fill-in soil shall be packed firmly around the roots, leaving a concave surface for convenient watering 75 mm below rounding and grade elevation. After filling, the planting shall be watered at frequent intervals.
- (c) Planting shall be done during periods suitable to weather conditions and locally accepted practice. All nursery stock shall be set plumb in the centre of pits and at levels as shown on the planting details after settlement has taken place.
- (d) Nursery stock shall be faced to give the best appearance or relationship to adjacent structures and to the approval of the Contract Administrator.

E11.4 Guarantee of Nursery Stock

E11.4.1 The Contractor shall agree and guarantee to replace and replant any nursery stock found dead and/or in poor condition within two years from the date of the Certificate of Total Performance, at his cost. "Poor condition" shall be interpreted as meaning nursery stock on which branches are dying, or have not shown satisfactory growth of leaves. All replacements plants shall be installed within from the date of notification from the City, unless the City extends the time period, as a result of seasonal or climatic considerations.

- (a) Exempted is nursery stock damaged by accidental causes or vandalism, which stock shall be replaced at the cost of the City.
- (b) All required replacements shall be by plants of at least the same size and species as specified, and shall be supplied and planted in accordance with the original drawings

and Specifications, and the replaced material shall carry an additional two-year guarantee period. All plants must be in a healthy condition for a full two years before the warranty on the year will be considered fulfilled.

E11.5 Method of Measurement and Basis of Payment

E11.5.1 Method of Measurement shall be as follows:

- (a) The supply and installation of Plant Material will be measured on a per unit basis for "Supply and Install Shrubs" on Form B: Prices.

E11.5.2 Basis of Payment shall be as follows:

- (a) The supply and installation of Plant Material will be paid for at the Contract unit price for each shrub, measured as specified herein, which price shall be payment in full including all costs for the shrub, two year maintenance, and all other items incidental to the Work included in this Specification.
 - (i) species and quantities as noted in Unit Price Forms.

E11.6 Plant List

| Quantity | Common Name/botanical name | Size / Remarks |
|----------|-----------------------------------------------------------------------|--------------------------|
| 15 | Turkestan dwarf burning bush / <i>Euonymus nana "Turkestanica"</i> | 2 gal. Specimen quality. |
| 8 | Emerald Elf Amur Maple / <i>Acer ginnala "Emerald elf"</i> | 2 gal. Specimen quality. |
| 15 | Blue Fox Willow / <i>Salix brachycarpa "Blue fox"</i> | 2 gal. Specimen quality. |
| 2 | Blue Forest Juniper / <i>Juniperus Sabina "Blue forest"</i> | 2 gal. Specimen quality. |

Play Equipment

E12. GENERAL COMMENTS

E12.1 This specification shall cover the supply and installation of the Play Equipment as listed below.

E12.2 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the Drawings and Specifications.

E12.3 The Contractor shall obtain all approvals including the requisite Development Permit.

E12.4 Play Area:

- (a) The Play Equipment shall comprise of an accessible playstructure as well as ground-level equipment designed for children ages 2-12;
- (b) Play equipment must provide the following play activities:
 - (i) Sliding (min. 1 slide per age group (2-5 & 5-12)) of which one must be metal;
 - (ii) Climbing;
 - (iii) Creative/imaginative play; and
 - (iv) Motion (springing, spinning.....).
- (c) The design submission shall be evaluated as per B16.5.

- E12.5 If colour is a feature of posts, top caps and panels, the Contract Administrator shall have the ability to modify specified colors from the proposed design after Contract Award. If the price of the equipment in the Bid Submission is subject to the colors of the proposed design, this must be indicated in the Bid Submission.
- E12.6 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) Binoculars / telescopes;
 - (f) Barrel rollers; and
 - (g) Large number of plastic components.
- E12.7 Components which are generally not accepted but may be considered are the following:
- (a) Cable rides;
 - (b) Sand diggers;
 - (c) Merry-go-rounds; and
 - (d) Tire Swings.

E13. PLAYSTRUCTURES

E13.1 General Description

- E13.1.1 This specification shall cover the supply and installation of one or more Playstructures as specified herein.
- E13.1.2 Further to B16.5.1(b)(v) which reads "uniqueness of components as compared to similar playgrounds components within walking distance (400m) of the park", the play equipment within walking distance (400m) to Maryland Tot Lot is located at:
- (a) Jacob Penner Park
 - (b) Spence Tot Lot
- E13.1.3 Play equipment shall be installed in the play areas as shown on the attached Drawing M.11-D. The play equipment and their safety zones should fit into the proposed play areas as shown on Drawing M.11-D. However;
- (a) If the proposed limits of the play area as per Drawing M.11-D, does not best accommodate the proposed Play Equipment, then the limits of the proposed play area may be expanded. Area as shown is the optimal area, not the maximum area. Efficiency and good use of space will be considered in the evaluation of submissions.

E13.2 Materials

E13.2.1 Posts / Caps

- (a) All posts shall be a minimum 5" O.D. round or 4" square tubing.
- (b) 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.
- (c) All posts shall be fabricated from either aluminum (0.125" min. wall thickness) or galvanized steel (0.120" min. wall thickness) tubing. All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating. The bottom end of the posts is to be sealed with a moisture barrier.

- (d) 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).
- (e) 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.

E13.2.2 Decks (if applicable)

- (a) 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'.

E13.2.3 Clamping System

- (a) 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.

E13.2.4 Handrails, Safety Rails and Handloops (if applicable)

- (a) 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.
- (b) 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.

E13.2.5 Hardware

- (a) 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.
- (b) All necessary hardware shall be provided.

E13.2.6 Poly Components

- (a) Poly components such as slides and hoods shall be fabricated from U.V. stabilized, rotationally molded linear low-density polyethylene.
- (b) Poly components such as play panels shall be fabricated from compression molded solid colour, U.V. stabilized, high-density polyethylene.

E13.2.7 Slides (if applicable)

- (a) Stainless steel is preferred for slide beds, although a plastic slide may be used if there is a stainless steel slide also on the Site. North or east orientation preferred.

E13.2.8 Each playstructure shall have kick plates and hand loops as required to meet the most recent Canadian Standards Association Standards.

E13.3 Installation

E13.3.1 Play equipment shall be installed as per manufacturer's specifications and in accordance with the most recent Canadian Standards Association Standards.

E13.3.2 All posts and other vertical items shall be plumb and true to vertical, if so designed.

E13.3.3 All decks shall be level, if so designed.

E13.4 Method of Measurement and Basis of Payment

E13.4.1 Method of Measurement shall be as follows:

- (a) The Playstructure will comprise only part of the overall Play Equipment, measured on a lump sum basis for the two separate areas
 - (i) "Supply and Install New Play Structure and Independent Components," on Form B: Prices.

E13.4.2 Basis of Payment shall be as follows:

- (a) Playstructures 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. INDEPENDENT COMPONENTS

E14.1 General Description

E14.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.

E14.1.2 This specification shall cover the supply and installation of Independent Components as specified herein.

E14.1.3 Independent Components shall be installed as per the proposed design, as the proposed budget will allow.

E14.1.4 Independent Components shall be installed in the available areas as shown on Drawing M.11-D. The Components and their safety zones must fit into the proposed play area.

E14.2 Materials

E14.2.1 All materials shall be structurally sound and suitable for safe play. Durability shall be ensured on all parts and materials.

E14.2.2 There shall be a minimum (or no) amount of hollow plastic components. Solid plastic is acceptable.

E14.2.3 There shall be a minimum amount of solid elements which limit visibility through the Site.

E14.2.4 Fasteners

- (a) 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.

E14.2.5 Finishes

- (a) 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.

E14.2.6 Slides

- (a) 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.
- (b) Tube (enclosed) slides and plastic spiral slides will not be accepted.

E14.3 Method of Measurement and Basis of Payment

E14.3.1 Method of Measurement shall be as follows:

- (a) As identified in E13.4.1, measurement will be incorporated into the lump sum cost for each play area. As such, no separate measurement will be made for Independent Components.

E14.3.2 Basis of Payment shall be as follows:

- (a) No payment will be made for Independent Components as these items are incidental to E13.

E15. SWING SET

E15.1 General Description

E15.1.1 The Contractor shall furnish all labour, materials, equipment and services necessary to complete the Work according to the specifications.

E15.1.2 This specification shall cover the supply and installation of minimum one (1) complete swing standard as specified herein:

- (a) Three Leg Heavy Duty Swing Frame, 2.4m (8ft.) high, 2-Bay, complete with two (2) slash-proof rubber, enclosed infant seats, and two (2) slash-proof rubber belt seat, heavy-duty chain, swing hangers and S hooks / bolt links.

E15.2 Materials

E15.2.1 Topbeam

- (a) All topbeams shall be fabricated from 3 1/2" O.D. 7 gauge, RS40 galvanized steel pipe **OR 2 3/8" O.D. 5 gauge, RS40 galvanized steel pipe with anti-wrap swings.** All fabrication cuts, drill holes and weld joints shall be sprayed with a corrosion resistant coating.

E15.2.2 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.

E15.2.3 Yoke Clamps

- (a) All yoke clamps shall be either one piece construction and fabricated from 8 gauge, RS40 galvanized steel pipe or two piece, compression clamping cast aluminum or galvanized metal complete with tamper-proof hardware.

E15.2.4 Swing Hangers

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

E15.2.5 Swing Chain

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

E15.2.6 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.

E15.2.7 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.

E15.2.8 Hardware

- (a) All fasteners shall be tamper proof in design, requiring special tools. The fasteners shall be either carbon steel plated with zinc/nickel and iridescent chromate finish or stainless steel.

E15.2.9 Concrete Foundations

- (a) Post shall be installed into a concrete footing the composition of which is detailed in E16.

E15.3 Installation

- E15.3.1 Installation shall be in accordance with Manufacturers specifications.
- E15.3.2 Top rail is to be level and posts securing anchored in concrete.
- E15.3.3 Swing seats shall not be installed until the protective surfacing (in accordance with E5) has been installed
- E15.4 Method of Measurement and Basis of Payment
- E15.4.1 Method of Measurement shall be as follows:
- (a) Swing Standard will be measured on a per unit basis for: "Supply and install 2 bay (4 seat) 2.4m (8') swingset (2 infant, 2 belt swings)" on Form B: Prices.
- E15.4.2 Basis of Payment shall be as follows:
- (a) Swing Standard will be paid for at the Contract Unit Prices. The amount to be paid for shall be the total number of units, as indicated on Form B: Prices. This price shall be full payment for supplying all labour, equipment and materials, and performing all operations herein described and all other items incidental to the Work and as accepted by the Contract Administrator.

E16. FOUNDATIONS

- E16.1 General Description
- E16.1.1 All playground equipment posts, bases and anchors are to be set in concrete footings or piles to ensure stability and prevent frost heaving. The current Standard Construction Specifications of the City of Winnipeg, CW 2160 – R7 -latest revision - Concrete to be used in Underground Works, is to be utilized in the installation of the concrete works for all below ground components.
- E16.2 Materials
- E16.2.1 The specific concrete requirements shall be:
- (a) Sulfate resistant, Type 50 Cement;
 - (b) 28 day compressive strength of 30 Mpa;
 - (c) maximum aggregate size of 20mm, nominal;
 - (d) slump 80 +/- 20mm;
 - (e) maximum water/cement ratio 0.49.
- E16.3 Installation
- E16.3.1 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.
- E16.3.2 All concrete footings for play equipment shall be a minimum of 3' depth, or in accordance with Manufacturer's specifications, whichever is greater.
- E16.4 Method of Measurement and Basis of Payment
- E16.4.1 Method of Measurement shall be as follows:
- (a) Foundations shall be incidental to the measurement of Playstructures listed above and as shown on Form B: Prices.
- E16.4.2 Basis of Payment shall be as follows:
- (a) No separate payment shall be made for play equipment foundations.

E17. MAINTENANCE KITS

- E17.1 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.
- E17.2 There shall be no payment for the maintenance kits.