

# THE CITY OF WINNIPEG

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 115-2011** 

2011 GRANULAR ROADWAY IMPROVEMENTS - FERRIER STREET

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# **PART B - BIDDING PROCEDURES**

#### **B1.** CONTRACT TITLE

B1.1 2011 Granular Roadway Improvements – Ferrier Street

# **B2. SUBMISSION DEADLINE**

- B2.1 The Submission Deadline is 12:00 noon Winnipeg time, March 30, 2011.
- 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.
- B3.2 The Bidder shall not be entitled to rely on any information or interpretation received at the Site investigation unless that information or interpretation is the Bidder's direct observation, or is provided by the Contract Administrator in writing.

#### **B4. ENQUIRIES**

- B4.1 All enquiries shall be directed to the Contract Administrator identified in 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/bidopp.asp

- 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.
- B5.3 The Bidder shall acknowledge receipt of each addendum in Paragraph 10 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 B15.
- 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, in accordance with B7.6, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B15.1(a).

# **B7.** BID COMPONENTS

- B7.1 The Bid shall consist of the following components:
  - (a) Form A: Bid;
  - (b) Form B: Prices, hard copy;
  - (c) Bid Security;
    - (i) Form G1: Bid Bond and Agreement to Bond, or

Form G2: Irrevocable Standby Letter of Credit and Undertaking, or a certified cheque or draft;

- 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 shall be submitted enclosed and sealed in an envelope clearly marked with the Bid Opportunity number and the Bidder's name and address.
- B7.4.1 Samples or other components of the Bid 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.
- B7.4.2 A hard copy of Form B: Prices must be submitted with the Bid. If there is any discrepancy between the Adobe PDF version of Form B: Prices and the Microsoft Excel version of Form B: Prices, the PDF version shall take precedence.
- B7.5 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.6 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 B15.1(a).
- B7.7 Bids submitted by facsimile transmission (fax) or internet electronic mail (e-mail) will not be accepted.
- B7.8 Bids shall be submitted to:

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

# 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;

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The City of Winnipeg

- (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 12 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 and the corporate seal, if the corporation has one, shall be affixed;
  - 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.
- B8.5 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 For the convenience of Bidders, and pursuant to B7.4.2 and B15.4.3, an electronic spreadsheet Form B: Prices in Microsoft Excel (.xls) format is available along with the Adobe PDF documents for this Bid Opportunity on the Bid Opportunities page at the Materials Management Division website at http://www.winnipeg.ca/matmgt
- B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.
- B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.
- B9.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

#### B10. **QUALIFICATION**

- B10.1 The Bidder shall:
  - (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba; and
  - (b) be financially capable of carrying out the terms of the Contract; and
  - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.

- B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
  - (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <a href="http://www.winnipeg.ca/matmgt/debar.stm">http://www.winnipeg.ca/matmgt/debar.stm</a>
- B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
  - (a) have successfully carried out Work similar in nature, scope and value to the Work; and
  - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
  - (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- B10.4 Further to B10.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
  - (a) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment Program; or
  - (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at http://www.winnipeg.ca/matmgt)
- B10.5 The Bidder shall submit, within three (3) Business Days of a request by the Contract Administrator, proof satisfactory to the Contract Administrator of the qualifications of the Bidder and of any proposed Subcontractor.
- B10.6 The Bidder shall provide, on the request of the Contract Administrator, full access to any of the Bidder's equipment and facilities to confirm, to the Contract Administrator's satisfaction, that the Bidder's equipment and facilities are adequate to perform the Work.

# **B11.** BID SECURITY

- B11.1 The Bidder shall provide bid security in the form of:
  - (a) a bid bond, in the amount of at least ten percent (10%) of the Total Bid Price, and agreement to bond of a company registered to conduct the business of a surety in Manitoba, in the form included in the Bid Submission (Form G1: Bid Bond and Agreement to Bond); or
  - (b) an irrevocable standby letter of credit, in the amount of at least ten percent (10%) of the Total Bid Price, and undertaking 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 included in the Bid Submission (Form G2: Irrevocable Standby Letter of Credit and Undertaking); or
  - (c) a certified cheque or draft payable to "The City of Winnipeg", in the amount of at least fifty percent (50%) of the Total Bid Price, drawn on a bank or other financial institution registered to conduct business in Manitoba.
- B11.1.1 If the Bidder submits alternative bids, the bid security shall be in the amount of the specified percentage of the highest Total Bid Price submitted.
- B11.1.2 All signatures on bid securities shall be original.
- B11.1.3 The Bidder shall sign the Bid Bond.

- B11.1.4 The Surety shall sign and affix its corporate seal on the Bid Bond and the Agreement to Bond.
- B11.2 The bid security of the successful Bidder and the next two lowest evaluated responsive and responsible Bidders will be released by the City when a Contract for the Work has been duly executed by the successful Bidder and the performance security furnished as provided herein. The bid securities of all other Bidders will be released when a Contract is awarded.
- B11.2.1 Where the bid security provided by the successful Bidder is in the form of a certified cheque or draft pursuant to B11.1(c), it will be deposited and retained by the City as the performance security and no further submission is required.
- B11.2.2 The City will not pay any interest on certified cheques or drafts furnished as bid security or subsequently retained as performance security.
- B11.3 The bid securities of all Bidders will be released by the City as soon as practicable following notification by the Contract Administrator to the Bidders that no award of Contract will be made pursuant to the Bid Opportunity.

#### B12. OPENING OF BIDS AND RELEASE OF INFORMATION

- B12.1 Bids will be opened publicly, after the Submission Deadline has elapsed, in the office of the Corporate Finance Department, Materials Management Division, or in such other office as may be designated by the Manager of Materials.
- B12.1.1 Bidders or their representatives may attend.
- B12.1.2 Bids determined by the Manager of Materials, or his designate, to not include the bid security specified in B11 will not be read out.
- B12.2 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
- B12.3 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 <a href="http://www.winnipeg.ca/matmgt">http://www.winnipeg.ca/matmgt</a>
- B12.4 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.

# **B13.** IRREVOCABLE BID

- B13.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 11 of Form A: Bid.
- B13.2 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 until a Contract for the Work has been duly executed and the performance security furnished as herein provided, but any Bid shall be deemed to have lapsed unless accepted within the time period specified in Paragraph 11 of Form A: Bid.

#### **B14. WITHDRAWAL OF BIDS**

B14.1 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.

- B14.1.1 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.
- B14.1.2 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 12 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B14.1.3 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 12 of Form A: Bid; and
  - (c) if the notice has been given by any one of the persons specified in B14.1.3(b), declare the Bid withdrawn.
- B14.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B13.2 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, including the right to retain the Bidder's bid security.

### **B15. EVALUATION OF BIDS**

- B15.1 Award of the Contract shall be based on the following bid evaluation criteria:
  - (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation there from (pass/fail):
  - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B10 (pass/fail);
  - (c) Total Bid Price;
  - (d) economic analysis of any approved alternative pursuant to B6.
- B15.2 Further to B15.1(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.
- B15.3 Further to B15.1(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.
- B15.4 Further to B15.1(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.
- B15.4.1 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.
- B15.4.2 Further to B15.1(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.
- B15.4.3 The electronic Form B: Prices and the formulas imbedded in that spreadsheet are only provided for the convenience of Bidders. The City makes no representations or warranties as to the correctness of the imbedded formulas. It is the Bidder's responsibility to ensure the extensions of the unit prices and the sum of Total Bid Price performed as a function of the formulas within the electronic Form B: Prices are correct.

# **B16.** AWARD OF CONTRACT

- B16.1 The City will give notice of the award of the Contract or will give notice that no award will be made.
- B16.2 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.
- B16.2.1 Without limiting the generality of B16.2, 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.
- B16.3 Where an award of Contract is made by the City, the award shall be made to the responsible and qualified Bidder submitting the lowest evaluated responsive Bid, in accordance with B15.
- B16.3.1 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.

# **PART C - GENERAL CONDITIONS**

# CO. GENERAL CONDITIONS

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

# **PART D - SUPPLEMENTAL CONDITIONS**

#### **GENERAL**

# D1. GENERAL CONDITIONS

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

# D2. SCOPE OF WORK

- D2.1 The Work to be done under the Contract shall consist of:
  - (a) Pavement Reconstruction
    - Ferrier Street from Templeton Avenue to Approximately 175 meters north of Beecher Avenue
  - (b) Gravel Road Renewal
    - Ferrier Street from Approximately 175 metres north of Beecher Avenue to Murray Avenue
- D2.2 The major components of the Work are as follows:
  - (a) Pavement Reconstruction
    - (i) Removal of existing asphalt pavement
    - (ii) Excavation of existing material approximately 900 mm average depth
    - (iii) Removal and disposal of existing culverts
    - (iv) Compaction of Subgrade
    - (v) Installation of catchbasins and connection pipe
    - (vi) Placement of separation fabric
    - (vii) Sub-base and base course installation
    - (viii) Construction of 600 mm wide concrete curb and gutter
    - (ix) Approach construction
    - (x) Placement of asphalt material (average thickness 100 mm)
    - (xi) Asphalt overlay of Beecher intersection
    - (xii) Filling of ditches and boulevards
    - (xiii) Ditch/boulevard grading
    - (xiv) Boulevard restoration
  - (b) Gravel Road Renewal
    - (i) Removal of existing granular surface
    - (ii) Excavation of existing roadway approximately 500 mm average depth
    - (iii) Removal and disposal of existing culverts
    - (iv) Compaction of Subgrade
    - (v) Placement of separation fabric
    - (vi) Installation of new culverts
    - (vii) Sub-base and base course installation
    - (viii) Construction of Asphalt Surface Treatment
    - (ix) Ditch/boulevard grading
    - (x) Boulevard restoration

# D3. CONTRACT ADMINISTRATOR

D3.1 The Contract Administrator is Dillon Consulting Limited, represented by:

Taran J. Peters Project Manager 200-895 Waverley St. Winnipeg, MB R3T 5P4

Telephone No. (204) 453-2301 Facsimile No. (204) 452-4412

D3.2 At the pre-construction meeting, Taran J. Peters 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.
- D4.2 At least two (2) business days prior to the commencement of any Work on the Site, the Contractor shall provide the Contract Administrator with a phone number where the supervisor identified in D4.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

#### D5. NOTICES

- D5.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.
- D5.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D5.3, D5.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D3.1.
- D5.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg Chief Financial Officer

Facsimile No.: (204) 949-1174

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

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

Facsimile No.: (204) 947-9155

# D6. FURNISHING OF DOCUMENTS

D6.1 Upon award of the Contract, the Contractor will be provided with five (5) complete sets of the Bid Opportunity. If the Contractor requires additional sets of the Bid Opportunity, they will be supplied to him at cost.

# **SUBMISSIONS**

# D7. AUTHORITY TO CARRY ON BUSINESS

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

# D8. SAFE WORK PLAN

- D8.1 The Contractor shall provide the Contract Administrator with a Safe Work Plan acceptable to the Contract Administrator at least five (5) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D8.2 The Safe Work Plan shall 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 <a href="http://www.winnipeg.ca/matmgt/safety/default.stm">http://www.winnipeg.ca/matmgt/safety/default.stm</a>

#### D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
  - (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability, broad form property damage cover and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
  - (b) automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00) at all times during the performance of the Work and until the date of Total Performance;
  - (c) an all risks Installation Floater carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 The Contractor shall provide the City Solicitor 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 the date specified in the C4.1 for the return of the executed Contract.
- D9.4 The Contractor shall not cancel, materially alter, or cause each policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

# D10. PERFORMANCE SECURITY

- D10.1 The Contractor shall provide and maintain performance security until the expiration of the warranty period in the form of:
  - (a) a performance bond of a company registered to conduct the business of a surety in Manitoba, in the form attached to these Supplemental Conditions (Form H1: Performance Bond), in the amount of fifty percent (50%) of the Contract Price; or
  - (b) an irrevocable standby letter of credit issued by a bank or other financial institution registered to conduct business in Manitoba and drawn on a branch located in Winnipeg, in

- the form attached to these Supplemental Conditions (Form H2: Irrevocable Standby Letter of Credit), in the amount of fifty percent (50%) of the Contract Price; or
- (c) a certified cheque or draft payable to "The City of Winnipeg", drawn on a bank or other financial institution registered to conduct business in Manitoba, in the amount of fifty percent (50%) of the Contract Price.
- D10.1.1 Where the performance security is in the form of a certified cheque or draft, it will be deposited by the City. The City will not pay any interest on certified cheques or drafts furnished as performance security.
- D10.2 If the bid security provided in his Bid was not a certified cheque or draft pursuant to B11.1(c), 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 letter of intent and prior to the commencement of any Work on the Site and in no event later than the date specified in the C4.1 for the return of the executed Contract.

#### D11. SUBCONTRACTOR LIST

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

# D12. EQUIPMENT LIST

D12.1 The Contractor shall provide the Contract Administrator with a complete list of the equipment which the Contractor proposes to utilize (Form K: Equipment List) at or prior to a preconstruction meeting, or at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

# D13. DETAILED WORK SCHEDULE

D13.1 The Contractor shall provide the Contract Administrator with a detailed work schedule (Form L: Detailed Work Schedule) at least two (2) Business Days prior to the commencement of any Work on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.

# **SCHEDULE OF WORK**

#### D14. COMMENCEMENT

- D14.1 The Contractor shall not commence any Work until he is in receipt of a letter of intent from the Award Authority authorizing the commencement of the Work.
- D14.2 The Contractor shall not commence any Work on the Site until:
  - (a) the Contract Administrator has confirmed receipt and approval of:
    - (i) evidence of authority to carry on business specified in D7;
    - (ii) evidence of the workers compensation coverage specified in C6.15;
    - (iii) the twenty-four (24) hour emergency response phone number specified in D4.2.
    - (iv) the Safe Work Plan specified in D8;
    - (v) evidence of the insurance specified in D9;
    - (vi) the performance security specified in D10;
    - (vii) the subcontractor list specified in D11;
    - (viii) the equipment list specified in D12;

- (ix) the detailed work schedule specified in D13
- (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.
- D14.3 The Contractor shall commence the Work on the Site within seven (7) Working Days of receipt of the letter of intent or if the letter of intent is received prior to spring thaw, then, within seven (7) Working Days after the Contractor has been given notice by the Contract Administrator that frost is no longer present.
- D14.4 The City intends to award this Contract by April 20, 2011.

# D15. WORKING DAYS

- D15.1 Further to C1.1(gg);
- D15.1.1 The Contract Administrator will determine daily if a Working Day has elapsed and will record his assessment. On a weekly basis the Contract Administrator will provide the Contractor with a record of the Working Days assessed for the preceding week. The Contractor shall sign each report signifying that he agrees with the Contract Administrator's determination of the Working Days assessed for the report period.
- D15.1.2 Work done to restore the Site to a condition suitable for Work, shall not be considered "work" as defined in the definition of a Working Day.
- D15.1.3 When the Work includes two or more major types of Work that can be performed under different atmospheric conditions, the Contract Administrator shall consider all major types of Work in determining whether the Contractor was able to work in assessing Working Days.

# D16. RESTRICTED WORK HOURS

D16.1 Further to clause 3.10 of CW 1130, the Contractor shall require written permission forty-eight (48) hours in advance from the Contract Administrator for any Work to be performed between 2000 hours and 0700 hours, or on Saturdays, Sundays, Statutory Holidays and or Civic Holidays.

# D17. WORK BY OTHERS

- D17.1 Work by others on or near the Site will include but not necessarily be limited to:
  - (a) Miscellaneous utility locates.
  - (b) Relocation of existing Hydro Poles.

# D18. SUBSTANTIAL PERFORMANCE

- D18.1 The Contractor shall achieve Substantial Performance within Thirty-five (35) consecutive Working Days of the commencement of the Work as specified in D14.
- D18.2 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 re-inspected.
- D18.3 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.

# D19. TOTAL PERFORMANCE

- D19.1 The Contractor shall achieve Total Performance within forty (40) consecutive Working Days of the commencement of the Work as specified in D14.
- D19.2 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 re-inspected.
- D19.3 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.

# D20. LIQUIDATED DAMAGES

- D20.1 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 two thousand, two hundred fifty dollars (\$2250) per Working Day for each and every Working Day following the day fixed herein for Total Performance during which such failure continues.
- D20.2 The amount specified for liquidated damages in D20.1 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.
- D20.3 The City will reduce any payment to the Contractor by the amount of any liquidated damages assessed.

#### D21. SCHEDULED MAINTENANCE

- D21.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
  - (a) Seeding as specified in CW 3520;
  - (b) Reflective crack sealing as specified in CW3250.
- D21.2 Determination of Substantial Performance and Total Performance shall be exclusive of scheduled maintenance identified herein. All scheduled maintenance shall be completed prior to the expiration of the warranty period. Where the scheduled maintenance cannot be completed during the warranty period, the warranty period shall be extended for such period of time as it takes the Contractor to complete the scheduled maintenance.

# **CONTROL OF WORK**

# D22. JOB MEETINGS

- D22.1 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.
- D22.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he deems it necessary.

# D23. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

D23.1 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**

# D24. PAYMENT

D24.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

#### WARRANTY

#### D25. WARRANTY

- D25.1 Notwithstanding C13.2, the warranty period shall begin on the date of Total Performance and shall expire two (2) years after the Total Performance for the Pavement Reconstruction as listed in D2.1 (a) and one (1) year after the Total Performance for the Granular Road Renewal as listed in D2.1 (b) 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.
- D25.1.1 For the purpose of Performance Security, the warranty period shall be as listed above.
- D25.2 Notwithstanding C13.2, the Contract Administrator may permit the warranty period for a portion or portions of the Work to begin prior to the date of Total Performance if a portion of the Work cannot be completed because of unseasonable weather or other conditions reasonably beyond the control of the Contractor but that portion does not prevent the balance of the Work from being put to its intended use.
- D25.2.1 In such case, the date specified by the Contract Administrator for the warranty period to begin shall be substituted for the date specified in C13.2 for the warranty period to begin.

# FORM H1: PERFORMANCE BOND (See D10)

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KNOV	V ALL MEN BY 11	TESE PRESENTS THAT
(herei	nafter called the "	Principal"), and
	nafter called the the "Obligee"), in	"Surety"), are held and firmly bound unto <b>THE CITY OF WINNIPEG</b> (hereinafter the sum of
		dollars (\$)
sum t	he Principal and	ada to be paid to the Obligee, or its successors or assigns, for the payment of which the Surety bind themselves, their heirs, executors, administrators, successors and erally, firmly by these presents.
WHEF	REAS the Principa	al has entered into a written contract with the Obligee for
BID O	PPORTUNITY N	O. 115-2011
		y Improvements – Ferrier Street lade part hereof and is hereinafter referred to as the "Contract".
NOW	THEREFORE the	e condition of the above obligation is such that if the Principal shall:
(a) (b) (c) (d) (e)	forth in the Conperform the Womake all the pain every other Contract; and indemnify and demands of evolaims, actions Compensation performance of	perform the Contract and every part thereof in the manner and within the times set tract and in accordance with the terms and conditions specified in the Contract; ork in a good, proper, workmanlike manner; yments whether to the Obligee or to others as therein provided; respect comply with the conditions and perform the covenants contained in the save harmless the Obligee against and from all loss, costs, damages, claims, and tery description as set forth in the Contract, and from all penalties, assessments, is for loss, damages or compensation whether arising under "The Workers Act", or any other Act or otherwise arising out of or in any way connected with the r non-performance of the Contract or any part thereof during the term of the ewarranty period provided for therein;
		ON SHALL BE VOID, but otherwise shall remain in full force and effect. The Surety able for a greater sum than the sum specified above.
nothin or rele	g of any kind or r	DECLARED AND AGREED that the Surety shall be liable as Principal, and that matter whatsoever that will not discharge the Principal shall operate as a discharge f the Surety, any law or usage relating to the liability of Sureties to the contrary
IN WI	TNESS WHEREC	OF the Principal and Surety have signed and sealed this bond the
	day of	, 20

The City of Winnipeg Bid Opportunity No. 115-2011 Supplemental Conditions Page 9 of 15

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SIGNED AND SEALED in the presence of:	(Name of Principal) Per:	(Seal)
(Witness as to Principal if no seal)	Per:	(Ocal)
	(Name of Surety)  By: (Attorney-in-Fact)	(Seal)

# FORM H2: IRREVOCABLE STANDBY LETTER OF CREDIT (PERFORMANCE SECURITY) (See D10)

(Date)	
Legal S 185 Kii	ty of Winnipeg Services Department ng Street, 3rd Floor eg MB R3B 1J1
RE:	PERFORMANCE SECURITY – BID OPPORTUNITY NO. 115-2011
	2011 Granular Roadway Improvements – Ferrier Street
Pursua	ant to the request of and for the account of our customer,
(Name o	f Contractor)
WE HE	s of Contractor)  EREBY ESTABLISH in your favour our irrevocable Standby Letter of Credit for a sum not exceeding aggregate
	Canadian dollars.
deman Letter of payme	tandby Letter of Credit may be drawn on by you at any time and from time to time upon written of for payment made upon us by you. It is understood that we are obligated under this Standby of Credit for the payment of monies only and we hereby agree that we shall honour your demand for nt without inquiring whether you have a right as between yourself and our customer to make such d and without recognizing any claim of our customer or objection by the customer to payment by us.
	nount of this Standby Letter of Credit may be reduced from time to time only by amounts drawn upon ou or by formal notice in writing given to us by you if you desire such reduction or are willing that it be
Partial	drawings are permitted.
	gage with you that all demands for payment made within the terms and currency of this Standby of Credit will be duly honoured if presented to us at:
(Address	s)
and we	e 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)

# FORM J: SUBCONTRACTOR LIST

(See D11)

2011 Granular Roadway Improvements – Ferrier Street

Portion of the Work	<u>Name</u>	<u>Address</u>	
SURFACE WORKS			
Supply of Materials			
Base Course & Sub-Base			
Asphalt Surface Treatment			
Asphalt			
Concrete			
Other			
Installation/Placement:			
Base Course & Sub-Base			
Asphalt Surface Treatment			
Asphalt			
Concrete			
Seeding			
Other			
UNDERGROUND WORKS			
Supply of Materials			
Catch Basins			
CB lead Pipe			
Subdrains			
Other			
Installation/Placement:			
Catch Basins			
CB Lead Pipe			
Subdrains			
Other			

# FORM K: EQUIPMENT (See D12)

# 2011 Granular Roadway Improvements - Ferrier Street

1. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
2. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
3. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		

# FORM K: EQUIPMENT (See D12)

# 2011 Granular Roadway Improvements - Ferrier Street

4. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
5. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
6. Categor	y/type:	
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		
Make/Model/Year:		Serial No.:
Registered owner:		

# FORM L: DETAILED WORK SCHEDULE

(See D13)

# 2011 Granular Roadway Improvements - Ferrier Street

Items of Work	Time Period in Working Days						
	10	20	30	35	40		
Pavement Reconstruction							
Excavation							
Installation of Catch Basins							
Sub-base and Base Course Placement							
Concrete Curb and Gutter							
Ditch/Boulevard Grading							
Seeding							
Asphalt Placement							
Gravel Road Renewal							
Excavation							
Sub-base and Base Course Placement							
Ditch/Boulevard Grading							
Culvert Installations							
Asphalt Surface Treatment Placement							
Seeding							

# **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*.

Drawing No.	Drawing Name/Title	<u>Drawing</u> (Original) Sheet Size
	Cover Sheet	
Sheet 2 of 6	Plan-Profile – Ferrier St – Sta. 1+000 to 1+310	A1
Sheet 3 of 6	Plan-Profile – Ferrier St – Sta. 1+310 to 1+630	A1
Sheet 4 of 6	Plan-Profile – Ferrier St – Sta. 1+630 to 1+950	A1
Sheet 5 of 6	Plan-Profile – Ferrier St – Sta. 1+950 to 2+270	A1
Sheet 6 of 6	Plan-Profile – Ferrier St – Sta. 2+270 to 2+380	A1

# **E2. GEOTECHNICAL REPORT**

E2.1 Further to C3.1, the geotechnical report is provided to aid the Contractor's evaluation of the existing soil conditions. The geotechnical report is contained in Appendix 'A'.

# E3. OFFICE FACILITIES

- E3.1 The Contractor shall supply office facilities meeting the following requirements:
  - (a) The field office shall be for the exclusive use of the Contract Administrator.
  - (b) The building shall be conveniently located near the site of the Work.
  - (c) The building shall have a minimum floor area of 15 square metres, a height of 2.4 m with two windows for cross ventilation and a door entrance with a suitable lock.
  - (d) The building shall be furnished with one desk, one table, and 6 chairs.
  - (e) A portable toilet shall be located near the field office building. The toilet shall have a locking door and be for the exclusive use of the Contract Administrator and other personnel from the City.
  - (f) The field office building and the portable toilet shall be cleaned on a weekly basis immediately prior to each site meeting. The Contract Administrator may request additional cleaning when he deems it necessary.
- E3.2 The Contractor shall be responsible for all installation and removal costs, all operating costs, and the general maintenance of the office facilities.

E3.3 The office facilities will be provided from the date of the commencement of the Work to the date of Total Performance..

#### E4. PROTECTION OF EXISTING TREES

- E4.1 The Contractor shall take the following precautionary steps to prevent damage from construction activities to existing boulevard trees within the limits of the construction area:
  - (a) The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
  - (b) Trees identified to be at risk by the Contract Administrator are to be strapped with 25 x 100 x 2400mm wood planks, or suitably protected as approved by the Contract Administrator.
  - (c) Excavation shall be performed in a manner that minimizes damage to the existing root systems. Where possible, excavation shall be carried out such that the edge of the excavation shall be a minimum of 1.5 times the diameter (measured in inches), with the outcome read in feet, from the closest edge of the trunk. Where roots must be cut to facilitate excavation, they shall be pruned neatly at the face of excavation.
  - (d) Operation of equipment within the dripline of the trees shall be kept to the minimum required to perform the Work required. Equipment shall not be parked, repaired, refuelled; construction materials shall not be stored, and earth materials shall not be stockpiled within the driplines of trees. The dripline of a tree shall be considered to be the ground surface directly beneath the tips of its outermost branches. The Contractor shall ensure that the operations do not cause flooding or sediment deposition on areas where trees are located.
  - (e) Work on-site shall be carried out in such a manner so as to minimize damage to existing tree branches. Where damage to branches does occur, they shall be neatly pruned.
- E4.2 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 designate.
- E4.3 No separate measurement or payment will be made for the protection of trees.
- E4.4 Except as required in clause E4.1(c) and E4.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

# E5. TRAFFIC CONTROL

- E5.1 Further to clauses 3.6 and 3.7 of CW 1130:
  - (a) Where directed, the Contractor shall construct and maintain temporary asphalt ramps to alleviate vertical pavement obstructions such as manholes and planing drop-offs to the satisfaction of the Contract Administrator. Payment shall be in accordance with CW3410.
  - (b) In accordance with the Manual of Temporary Traffic Control in Work Areas on City Streets, the Contractor ("Agency" in the manual) shall make arrangements with the Traffic Services Branch of the City of Winnipeg to place all temporary regulatory signs. The Contractor shall bear all costs associated with the placement of temporary traffic control devices by the Traffic Services Branch of the City of Winnipeg in connection with the works undertaken by the Contractor.

# E6. TRAFFIC MANAGEMENT

- E6.1 Further to clause 3.7 of CW 1130-R1:
- E6.1.1 The Contractor shall schedule construction activities from Station 1+580 to Murray Avenue to meet the following:
  - (a) Station 1+580 to Murray Avenue will be closed to all traffic until the placement of Base Course Material.
  - (b) This closure will not be concurrent with E6.1.2

- E6.1.2 The Contractor shall schedule construction activities from Templeton Avenue to Station 1+580 to meet one of the following:
  - (a) The Contractor shall complete the Work in a way so as to maintain a minimum of one lane of Local access and school bus traffic. The Contractor shall sign the street "Road Closed Local Access Only" in accordance with the Manual of Temporary Traffic Control. Intersecting streets and private approach accesses shall be maintained at all times, except during their reconstruction. Traffic shall be maintained in both directions at all times with the use of a flag person at each end in accordance with the Manual of Traffic Control.

Or:

- (b) The Contractor will be permitted to close sections of Ferrier between Templeton Avenue to Station 1+580 for both directions of traffic, as long as two consecutive driveways on the same side are not closed at the same time. In addition, the following shall apply:
  - (i) The Contractor shall place the sub base material immediately following the excavation so as to open traffic between driveways as quickly as possible, and prior to blocking another driveway.
  - (ii) At no point in time will any portion of the road be opened to traffic when the road surface consists of only 150 mm limestone. 50 mm material must be in place prior to opening to traffic.
  - (iii) The Contractor and the Contract Administrator will advise each property directly of the timelines for driveway closure with a formal Notice of Driveway Closure.
  - (iv) The Contractor shall limit the duration of Ferrier Street closures to within the normal working day and while the Contractor is on-site. Ferrier Street shall be opened to both lanes of traffic to local access only before the Contractor leaves the site each day and shall remain open for after hours and on weekends.
- E6.1.3 Payment for Traffic Control during the staging of construction mentioned in E6.1.1 and E6.1.2 will be incidental to the project and no additional payment will be made.
- E6.1.4 Should the Contractor be unable to maintain an existing access to a residence or business, he shall review the planned disruption with the business or residence and the Contract Administrator, and take reasonable measures to minimize the impact. The Contractor shall provide a minimum of 24 hours notification to the affected residence or business and the Contract Administrator, prior to disruption of access.
- E6.1.5 The Contractor is responsible for road surface maintenance during the course of construction, during all stages and phases. Payment for this work shall be considered incidental to the project.
- E6.1.6 Pedestrian and ambulance/emergency vehicle access must be maintained at all times.

#### E7. REFUSE AND RECYCLING COLLECTION

- E7.1 While access to refuse and/or recycling collection vehicles is restricted, on collection day(s) the Contractor shall move all of the affected property owners refuse and/or recycling materials to a nearby common area, prior to an established time, in accordance with E7.2 to permit the normal collection vehicles to collect the materials. Immediately following recycling collection the Contractor shall return recycling receptacles to the addresses marked on the receptacles.
- E7.2 Collection Schedule:

# Ferrier Street from Templeton Avenue to Beecher Avenue.

Collection Day(s):

Collection Time: 07:00 to 18:00

Common Collection Area: Front Street Pick-up

E7.3 No measurement or payment will be made for the Work associated with this specification.

# E8. PEDESTRIAN SAFETY

E8.1 As there are no sidewalks or pathways along Ferrier, the Contractor will not be required to maintain these with temporary snow fencing. However, the Contractor will be required to maintain safety around any drop offs by ensuring that excavation and drop offs adjacent to the excavation are properly barricaded.

# E9. WATER OBTAINED FROM THE CITY

E9.1 Further to clause 3.7 of CW 1120, the Contractor shall pay for all costs, including sewer charges, associated with obtaining water from the City in accordance with the Waterworks and Sewer By-laws.

#### E10. SURFACE RESTORATIONS

Further to clause 3.3 of CW 1130, when Total Performance is not achieved in the year the Contract is commenced, the Contractor shall temporarily repair any Work commenced and not completed to the satisfaction of the Contract Administrator. The Contractor shall maintain the temporary repairs in a safe condition as determined by the Contract Administrator until permanent repairs are completed. The Contractor shall bear all costs associated with temporary repairs and their maintenance.

# E11. INFRASTRUCTURE SIGNS

E11.1 The Contractor shall obtain two infrastructure signs from the Traffic Services Sign Shop at 421 Osborne Street. The Contractor shall mount each sign securely to a rigid backing material approved by the Contract Administrator. The Contractor shall fasten each sign to a suitable support and erect and maintain one sign at each end of the street as directed by the Contract Administrator. When the Contract Administrator considers the Work on the street complete, the Contractor shall remove and dispose of the signs and supports. No measurement for payment will be made for performing all operations herein described and all other items incidental to the work described

#### E12. BASE COURSE MEASUREMENT AND PAYMENT

E12.1 Further to CW 3110, base course shall be measured and paid for on a weight basis and paid for at the Contract Unit Price per tonne for "Supply and Placing Base Course Material". The weight to be paid for will be the total number of tonnes of Base Course Material supplied and placed in accordance with this Specification, accepted and measured by the Contract Administrator.

# E13. ASPHALT SURFACE TREATMENT

**DESCRIPTION** 

E13.1 This Specification covers the supply and placement of asphalt surface treatment.

**MATERIALS** 

E13.2 Asphalt surface treatment material shall be processed through a wash plant to remove fines and dust. The cost of the washing operation shall be included in the cost of the material. The asphalt surface treatment material will conform to the following grading requirements:

CANADIAN METRIC SIEVE SIZE	PERCENT OF TOTAL DRY WEIGHT PASSING EACH SIEVE 100MM MAX. AGGREGATE
10 000	100%
5 000	30 – 85%

CANADIAN METRIC	PERCENT OF TOTAL DRY WEIGHT PASSING
SIEVE SIZE	EACH SIEVE
	100MM MAX. AGGREGATE
2 500	0 – 20
1 250	0 – 10
80	0 - <1

- Note: Traffic gravel and Seal Coat (Aggregate) material when subjected to the abrasion test will have a loss of not more than 35% when tested in accordance with grading B of ASTM (American Society for Testing and Materials) C131, Test for Resistance to Degradation of Small-Size Coarse Aggregate by Abrasion and Impact in the Los Angeles Machine. As well, the aggregate retained on the No. 5 000 sieve will contain not less than 35% crushed aggregate as determined by actual particle count. Crushed aggregate will be considered as that aggregate having at least one fractured face.
- E13.2.2 The Contractor or sub contractor shall demonstrate the ability to manufacture Seal Coat (Aggregate) chips and shall have produced material of similar gradation within the last three (3) years. Upon a request from the Contract Administrator, the Bidder shall have three (3) Business days to provide proof of ability and experience as per B10.4.
- E13.3 Emulsified asphalt shall be HF 150S emulsion.

#### **EQUIPMENT**

- E13.4 The Contractor shall ensure as a minimum, the following equipment is on-site:
  - (a) Asphalt surface treatment oil distributor
  - (b) Asphalt surface treatment aggregate material spreader
  - (c) Steel drum roller vibratory
  - (d) Rubber tired wobbly roller self-propelled
  - (e) Loader
  - (f) Sweeper

# **CONSTRUCTION METHODS**

# E13.5 Surface Preparation

E13.5.1 Ensure base course material is properly shaped and bladed to the satisfaction of the Contract Administrator. Final surface shall be crowned to provide proper drainage, shall be free of potholes and washboard and tight. The base course shall be well mixed with little segregation of coarse material.

# E13.6 Survey Requirements

E13.6.1 The Contract Administrator shall provide survey stakes with grades for excavation and the placement of the subbase and base material. It shall be the responsibility of the Contractor to maintain and protect this survey information for the duration of the project. Any survey infrastructure removed, damaged, or destroyed by the Contractor or their equipment, without the consent of the Contract Administrator, shall be replaced by the Contract Administrator at the cost of the Contractor.

# E13.7 Asphalt Surface Treatment

E13.7.1 Emulsion shall be applied at a temperature as specified in the manufacturer's requirements and at a rate of 1.35 litres per m<sup>2</sup>. Emulsion shall not be sprayed wider than the width of which the aggregate will be placed in a single pass. Spraying of the emulsion shall not precede the distribution of asphalt surface treatment material by more than 750 m, and shall be applied on a clean dry surface on a day when the atmospheric temperature is not less than 5 °C.

- E13.7.2 Spread asphalt surface treatment material with a chip spreader at a uniform thickness immediately on the freshly placed oil. Aggregate shall be applied evenly to cover the emulsion to the approval of the Contract Administrator.
- E13.7.3 The Contractor shall roll the entire surface with a steel drum roller to embed the chips.
- E13.7.4 Finish rolling shall take place with rubber tired wobbly rollers to the satisfaction of the Contract Administrator.
- E13.7.5 Once the oil has cured, remove excess loose chips with sweeper as directed by the Contract Administrator.
- E13.7.6 Two lifts of asphalt surface treatment shall be placed, or as directed by the Contract Administrator.

# MEASUREMENT AND PAYMENT

E13.8 The supplying, placing, rolling, and finishing of the asphalt surface treatment will be measured on an area basis and paid for at the Contract Unit Price per square metre per lift for "Asphalt Surface Treatment". The area to be paid for will be the total number of square metres of asphalt surface treatment placed in accordance with this Specification, accepted and measured by the Contract Administrator.

# E14. CORRUGATED STEEL PIPE REMOVAL AND DISPOSAL

Further to CW 3610, the removal and disposal of corrugated steel pipes of varying sizes and lengths shall be measured and paid for on a length basis and paid for at the Contract Unit Price per lineal metre for "Corrugated Steel Pipe Removal". The length to be paid for will be the total number of metres of Corrugated Steel Pipe removed and disposed in accordance with this Specification, accepted and measured by the Contract Administrator.

# E15. BASE COURSE AND SUB-BASE MATERIAL

# **DESCRIPTION**

#### E15.1 General

(a) This specification shall supplement the specification for Base Course and Sub-Base material found in CW 3110.

#### **MATERIALS**

- E15.2 Base Course and Sub-Base Material
  - (a) All material shall be Crushed Limestone supplied and installed in accordance with CW 3110.
  - (b) Use of Recycled Concrete Pavement will not be permitted.

# **CONSTRUCTION METHODS**

E15.3 As per CW 3110.

### MEASUREMENT AND PAYMENT

E15.4 Sub-base material as per CW 3110 and Base Course material as per E12.

#### E16. TREE REMOVALS

# **DESCRIPTION**

E16.1 General

(a) This Special Provision shall amend the City of Winnipeg Standard Construction specification CW 3010 "Clearing and Grubbing", and shall cover the removal of trees as specified on the Contract Drawings. The City of Winnipeg, Forestry Branch must be contacted prior to removing any trees.

# **CONSTRUCTION METHODS**

#### E16.2 Tree Removals

- (a) Remove only trees marked and confirmed for removal in the field by the Contract Administrator.
- (b) Remove trees in accordance with CW 3010.
- (c) The Contractor shall arrange for any Elm wood to be disposed of by the City of Winnipeg.

#### MEASUREMENT AND PAYMENT

E16.2.1 Removal of trees will be measured on a unit basis and paid for at the Contract Unit Price per unit item of "Tree Removal". The number to be paid for will be the total number of trees removed in accordance with this specification and accepted by the Contract Administrator.

#### E17. CONCRETE LIP CURB AND GUTTER

#### DESCRIPTION

#### E17.1 General

(a) This specification shall supplement the specification for Portland Cement Concrete Pavement Works found in CW 3310.

### **MATERIALS**

- E17.2 Concrete Lip Curb and Gutter
  - (a) All material shall be accordance with CW 3310.

# **CONSTRUCTION METHODS**

- E17.3 As per CW 3310.
- E17.4 The dimensions of the curbed portion of the Concrete Lip Curb and Gutter shall be in accordance with SD-202B Detail 'A'.

#### MEASUREMENT AND PAYMENT

E17.5 Concrete Lip Curb and Gutter shall be measured and paid for on a length basis for the Contract Unit Price per lineal meters for "Construction of Curb and Gutter (150 mm ht, Barrier, Integral, 600 mm width, 150 mm Plain Concrete Pavement)". The length to be paid for will be the total number of lineal meters of Concrete Lip Curb and Gutter supplied and place in accordance with this Specification, accepted and measured by the Contract Administrator. Any additional work required for construction of the Concrete Lip Curb and Gutter will be considered incidental to this pay item.

#### E18. EXTENSION OF EXISTING 600 MM CORRUGATED STEEL PIPE

# **DESCRIPTION**

#### E18.1 General

(a) This specification shall supplement the specification for Installation of Culverts found in CW 3610.

# **MATERIALS**

# E18.2 Extension of Existing 600 mm Corrugated Steel Pipe

(a) All material shall be accordance with CW 3610. Supply of the CSP will be of the same size and gauge of the existing CSP.

# E18.3 Corrugated Steel Pipe Coupler

(a) The supply of the corrugated steel pipe coupler shall be such that it allows the extension to be angled at 22.5° from the projected line of the existing culvert as shown in the drawings.

#### **CONSTRUCTION METHODS**

E18.4 As per CW 3610.

# MEASUREMENT AND PAYMENT

E18.5 The Extension For Existing 600 mm Corrugated Steel Pipe shall be measured and paid for on a length basis for the Contract Unit Price per lineal meters for "Extension of Existing 600 mm Corrugated Steel Pipe". The length to be paid for will be the total number of lineal meters of Extension of Existing 600 mm Corrugated Steel Pipe supplied and installed of CSP culvert complete with couplers and necessary hardware, measured horizontally, at grade, above the centre line of the pipe culvert, as computed by measurements made by the Contract Administrator. Payment for excavation, bedding, backfill, or any couplers and bends shall be included in the price per metre of CSP culvert installed.

# E19. SUPPLY AND INSTALL CULVERT END MARKERS

#### DESCRIPTION

# E19.1 General

(a) This specification shall supplement the specification for Corrugated Steel Pipe Works found in CW 3610.

# **MATERIALS**

#### E19.2 Culvert End Markers

(a) All material shall be accordance with CW 3610 similar to the one shown below.



# **CONSTRUCTION METHODS**

E19.3 Culvert end markers are to be installed on the end of every new culvert within this project.

# MEASUREMENT AND PAYMENT

E19.4 Culvert End Markers shall be measured and paid for on a unit basis for the Contract Unit Price per "Culvert End Marker". The amount to be paid for will be the total number of Culvert End Markers supplied and installed in accordance with this Specification, accepted and measured by the Contract Administrator.