



**THE CITY OF WINNIPEG**

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 117-2015**

**NORTH AREA – NORTH, RESTORATION OF WINTER BOULEVARD CUTS**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 NORTH AREA – NORTH, RESTORATION OF WINTER BOULEVARD CUTS

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, March 4, 2015.

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. ENQUIRIES**

B3.1 All enquiries shall be directed to the Contract Administrator identified in D4.1.

B3.2 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.

B3.3 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.

B3.4 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.

B3.5 The Bidder shall not be entitled to rely on any response or interpretation received pursuant to B3 unless that response or interpretation is provided by the Contract Administrator in writing.

### **B4. CONFIDENTIALITY**

B4.1 Information provided to a Bidder by the City or acquired by a Bidder by way of further enquiries or through investigation is confidential. Such information shall not be used or disclosed in any way without the prior written authorization of the Contract Administrator. The use and disclosure of the confidential information shall not apply to information which:

- (a) was known to the Bidder before receipt hereof; or
- (b) becomes publicly known other than through the Bidder; or
- (c) is disclosed pursuant to the requirements of a governmental authority or judicial order.

B4.2 The Bidder shall not make any statement of fact or opinion regarding any aspect of the Bid Opportunity to the media or any member of the public without the prior written authorization of the Contract Administrator.

### **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/she has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.
- 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/her sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Bidder who requested approval of the substitute.
- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- 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/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B14.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.7, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B14.1(a).

## **B7. BID COMPONENTS**

- B7.1 The Bid shall consist of the following components:
- (a) Form A: Bid;
  - (b) Form B: Prices;
- 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 B14.1(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/her own name, his/her name shall be inserted;
- (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
- (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
- (d) if the Bidder is carrying on business under a name other than his/her own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.

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/her own name, it shall be signed by the Bidder;
- (b) if the Bidder is a partnership, it shall be signed by the partner or partners who have authority to sign for the partnership;
- (c) if the Bidder is a corporation, it shall be signed by its duly authorized officer or officers;
- (d) if the Bidder is carrying on business under a name other than his/her own, it shall be signed by the registered owner of the business name, or by the registered owner's authorized officials if the owner is a partnership or a corporation.

B8.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B8.4.2 All signatures shall be original.

B8.5 If a Bid is submitted jointly by two or more persons, the word "Bidder" shall mean each and all such persons, and the undertakings, covenants and obligations of such joint Bidders in the Bid and the Contract, when awarded, shall be both joint and several.

## **B9. PRICES**

B9.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B9.2 The quantities listed on Form B: Prices are to be considered approximate only. The City will use said quantities for the purpose of comparing Bids.

B9.3 The quantities for which payment will be made to the Contractor are to be determined by the Work actually performed and completed by the Contractor, to be measured as specified in the applicable Specifications.

B9.4 Payments to Non-Resident Contractors are subject to Non-Resident Withholding Tax pursuant to the Income Tax Act (Canada).

## **B10. QUALIFICATION**

B10.1 The Bidder shall:

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

- (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B10.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>
- B10.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and
- (c) have a written workplace safety and health program if required pursuant to The Workplace Safety and Health Act (Manitoba);
- B10.4 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/Subcontractors has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
- (a) a copy of their valid Manitoba COR certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Certificate of Recognition (COR) Program administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (b) a copy of their valid Manitoba SECOR™ certificate and Letter of Good Standing (or Manitoba equivalency) as issued under the Small Employer Certificate of Recognition Program (SECOR™) administered by the Construction Safety Association of Manitoba or by the Manitoba Heavy Construction Association's WORKSAFELY™ COR™ Program; or
- (c) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>).
- 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. OPENING OF BIDS AND RELEASE OF INFORMATION**
- B11.1 Bids will not be opened publicly.
- B11.2 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>
- B11.3 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/>



B11.4 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.

## **B12. IRREVOCABLE BID**

B12.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B12.2 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.

## **B13. WITHDRAWAL OF BIDS**

B13.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

B13.1.1 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.

B13.1.2 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.

B13.1.3 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 B13.1.3(b), declare the Bid withdrawn.

B13.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B12.2 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.

## **B14. EVALUATION OF BIDS**

B14.1 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.

B14.2 Further to B14.1(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.

B14.3 Further to B14.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his/her Bid or in other information required to be submitted, that he/she is responsible and qualified.

B14.4 Further to B14.1(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.

B14.4.1 Further to B14.1(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. AWARD OF CONTRACT**

B15.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

B15.2 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.

B15.2.1 Without limiting the generality of B15.2, 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.

B15.3 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 B14.

B15.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his/her Bid upon written request to the Contract Administrator.

B15.4 Notwithstanding C4, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.

B15.5 The Contract, as defined in C1.1, in its entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that it is not necessarily attached to or accompany said Purchase Order.

## PART C - GENERAL CONDITIONS

### C0. GENERAL CONDITIONS

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

## PART D - SUPPLEMENTAL CONDITIONS

### GENERAL

#### D1. GENERAL CONDITIONS

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

#### D2. SCOPE OF WORK

D2.1 The Work to be done under the Contract shall consist of restoring boulevard cuts and other grassed areas with topsoil, sod and seed, in the North Area – North as identified on drawing titled CUT PERMIT AREA AND ZONES NORTH AREA – NORTH.

D2.2 The restoration of boulevard cuts encompasses four major operations as follows:

- (a) Excavating and trimming the cut restoration area to 100 mm below grade
- (b) Placing and compacting the topsoil as per CW3540
- (c) Placing the sod/seed
- (d) Maintaining the sod/seed in accordance with E6

#### D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) **“Area”** - is a generic term for one of the geographic areas of the City of Winnipeg. The Area is identified on Drawing titled “Cut Permit Area and Zones North Area – North”.
- (b) **“Boulevard”** - means the area between the street line and the nearest edge of a roadway and/or the area separating the roadways of a divided highway, and includes grassed areas in parks, interchange areas and private property bordering a street line.
- (c) **“Cut”** - means an excavation made by a contractor, utility or the City to access an underground structure.
- (d) **“North Area - North”** - means the geographic area of the City of Winnipeg that is identified on Drawing titled “Cut Permit Area and Zones North Area - North”.
- (e) **“Restoration Permit”** - means a permit issued in accordance with the Streets By-law No. 1481/77 to restore an excavation.
- (f) **“Revised Round”** - means a Round, which has been inspected, reviewed and edited to reflect the actual restoration work required.
- (g) **“Round”** - means a list of locations identified for boulevard restoration for an Area or a part of an Area that identifies a portion of the Work.
- (h) **“Round Completion”** - means all of the Work identified on a Round (list) has been performed in accordance with the Contract Documents and has been certified by the Contract Administrator as ready for commencement of the thirty (30) day maintenance period in accordance with Specification E6.

- (i) **“Short Notice Restoration”** - means a boulevard cut restoration that due to special circumstance requires completion in accordance with Supplemental Condition D16 and Specification E6.
- (j) **“Emergency Restoration”** – means a boulevard cut restoration that, due to an emergent nature as determined by the Contract Administrator, requires completion in accordance with Supplemental Condition D17 and Specification E6.
- (k) **“Summarized Round”** - means an un-revised Round that shows only the estimated subtotals for each zone.
- (l) **“Unrevised Round”** - means a Round where the locations and quantities shown are based on the information from the permits database prior to being inspected and assessed for actual restoration requirements. At this stage a Round is only a rough estimate of the actual restoration work required.
- (m) **“Zone”** - means a portion of an Area as illustrated on the Drawing titled “Cut Permit Area and Zones North Area - North”.

#### **D4. CONTRACT ADMINISTRATOR**

D4.1 The Contract Administrator is:

Gary Campbell, C.E.T.  
Contract Administrator

Telephone No. 204 794-4379  
Facsimile No. 204 986-5302

D4.2 At the pre-construction meeting, the Contract Administrator will identify additional personnel representing the Contract Administrator and their respective roles and responsibilities for the Work.

D4.3 Bids Submissions must be submitted to the address in B7.5.

#### **D5. CONTRACTOR'S SUPERVISOR**

D5.1 At the pre-construction meeting, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5.2 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 D5.1 or an alternate can be contacted twenty-four (24) hours a day to respond to an emergency.

#### **D6. OWNERSHIP OF INFORMATION, CONFIDENTIALITY AND NON DISCLOSURE**

D6.1 The Contract, all deliverables produced or developed, and information provided to or acquired by the Contractor are the property of the City and shall not be appropriated for the Contractors own use, or for the use of any third party.

D6.2 The Contractor shall not make any public announcements or press releases regarding the Contract, without the prior written authorization of the Contract Administrator.

- D6.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;
- (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;
  - (b) the Contract, all deliverables produced or developed; and
  - (c) any statement of fact or opinion regarding any aspect of the Contract.
- D6.4 A Contractor who violates any provision of D6.2 may be determined to be in breach of Contract.

## **D7. NOTICES**

- D7.1 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.
- D7.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D7.3, D7.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D4.1.
- D7.3 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
- D7.4 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 facsimile number:
- The City of Winnipeg  
Legal Services Department  
Attn: Director of Legal Services  
Facsimile No.: 204 947-9155

## **SUBMISSIONS**

### **D8. AUTHORITY TO CARRY ON BUSINESS**

- D8.1 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.

### **D9. SAFE WORK PLAN**

- D9.1 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.
- D9.2 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>

## **D10. INSURANCE**

D10.1 The Contractor shall provide and maintain the following insurance coverage:

- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, with a cross-liability clause, such liability policy to also contain contractual liability, unlicensed motor vehicle liability, non-owned automobile liability and products and completed operations, to remain in place at all times during the performance of the Work and throughout the warranty period;
- (b) if applicable, Automobile Liability Insurance covering all motor vehicles, owned and operated and used or to be used by the Contractor directly or indirectly in the performance of the Work. The Limit of Liability shall not be less than \$2,000,000 inclusive for loss or damage including personal injuries and death resulting from any one accident or occurrence;
- (c) all risks installation floater, carrying adequate limits to cover all machinery, equipment, supplies and/or materials intended to enter into and form part of any installation.

D10.2 Deductibles shall be borne by the Contractor.

D10.3 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.

D10.4 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.

## **D11. PERFORMANCE SECURITY**

D11.1 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.

D11.1.1 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.

D11.2 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.

## **SCHEDULE OF WORK**

### **D12. COMMENCEMENT**

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

- 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 D8;
    - (ii) evidence of the workers compensation coverage specified in C6.15;
    - (iii) the Safe Work Plan specified in D9;
    - (iv) evidence of the insurance specified in D10;
    - (v) the performance security specified in D11; and
    - (vi) the twenty-four (24) hour emergency response phone number specified in D5.
  - (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 commence the Work on the Site for the North Area – North – Winter Cuts list no later than seven (7) Working Days of receipt of the round list.

### **D13. LAYOUT OF THE WORK AND REVISIONS OF QUANTITIES AND LOCATIONS**

- D13.1 The Contract Administrator will visit each location and mark out the limits of the Work required to complete the restoration. The Contract Administrator will measure the area marked out at each location and record the quantities for payment. The Contract Administrator will estimate the maximum area of seeding that is required for each location and record the quantities on the list. This list will be provided to the contractor.
- D13.2 The Contractor shall use the field markings, the Sod quantity and Seeding quantities shown on the Round list to complete the restorations. No measurement for payment will be made for sod placed beyond the field markings shown or for materials placed outside the limits of the Work, for each location. No measurement for payment will be made for seeding areas greater than the Seeding quantity shown for each location on the Round.
- D13.3 Where the field marks are not visible to the Contractor, the Contractor shall contact the Contract Administrator to have the location marked. The absence or visibility of the field markings will not alter the conditions of measurement described in D13.2.

### **D14. ADDITIONS TO A ROUND**

- D14.1 North Area - North – Winter Cuts lists shall be determined based on cuts un-restored prior to June 1, 2015 that have been inspected and assessed as ready for restoration. Commencement of the North Area – North – Winter Cuts list shall be as specified in D12.3. Supplementary lists of new cuts un-restored that have been inspected and assessed as ready for restoration prior to June 1, 2015 will be given to the Contractor throughout the term of this contract.

### **D15. EXTENSION OF ROUND COMPLETION DATES**

- D15.1 North Area – North – Winter Cuts lists will be completed by July 15, 2015.
- D15.2 Further to C16, only long term inclement weather, will be considered with respect to adjusting the Work Schedule, as determined by the Contract Administrator. The Contractor shall improve his methods, increase his plant and employ additional or more qualified labour as necessary to ensure that the Work is kept on schedule and completed by July 15, 2015.

### **D16. SHORT NOTICE RESTORATIONS**

- D16.1 Short Notice restorations will be completed as specified in E6. Short Notice restorations will not be limited to a minimum or maximum number of locations. Locations assigned as Short Notice restorations may or may not be on the current Round list. Short Notice restorations will be completed within five (5) Working Days of the Working Day the location was designated as a Short Notice restoration and submitted to the Contractor as such.



D16.2 Short Notice restorations will be included in determining an extension of the Round Completion Date in accordance with D15.

**D17. EMERGENCY RESTORATIONS**

D17.1 Emergency restorations will be completed as specified in E6. Emergency restorations locations will be determined by the Contract Administrator and assigned to the Contractor. Emergency restorations will be completed by the contractor within forty-eight (48) hours of the Working Day it was assigned. Locations assigned as Emergency restorations may or may not be on the current Round list.

D17.2 Emergency restorations will be included in determining an extension of the Round Completion Date in accordance with D15.

**D18. CRITICAL STAGES**

D18.1 The Contractor shall achieve critical stages of the Work in accordance with the following requirements:

(a) North Area – North – Winter Cuts lists shall be completed by July 15, 2015.

**D19. SUBSTANTIAL PERFORMANCE**

D19.1 The Contractor shall achieve Substantial Performance by July 15, 2015.

D19.2 Substantial Performance shall be defined as the placement of all sod and seed to the satisfaction of the Contract Administrator at the locations listed in the North Area - North – Winter Cuts lists of cuts un-restored prior to June 1, 2015.

D19.3 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.

D19.4 The date on which the Work has been certified by the Contract Administrator, including deficiencies, 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.

**D20. TOTAL PERFORMANCE**

D20.1 The Contractor shall achieve Total Performance by August 15, 2015.

D20.2 Total Performance shall be defined as the acceptance by the Contract Administrator of all sod and seed under the Thirty Day maintenance period at the locations listed in the North Area - North – Winter Cuts lists of cuts un-restored prior to June 1, 2015.

D20.3 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.

D20.4 The date on which the Work has been certified by the Contract Administrator, including deficiencies, 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.

## **D21. LIQUIDATED DAMAGES**

- D21.1 If the Contractor fails to achieve Critical Stages, Substantial Performance or Total Performance in accordance with the Contract by the days fixed herein for same, the Contractor shall pay the City the following amounts per Working Day for each and every Working Day following the days fixed herein for same during which such failure continues:
- (a) Short Notice Restoration – A lump sum penalty of Four Hundred dollars (\$400.00);
  - (b) Emergency Restoration - A lump sum penalty of Four Hundred dollars (\$400.00);
  - (c) Substantial Performance - Four Hundred dollars (\$400.00);
  - (d) Total Performance - Four Hundred dollars (\$400.00).
- D21.2 The amounts specified for liquidated damages in D21.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve critical stages, Substantial Performance or Total Performance by the days fixed herein for same.
- D21.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

## **D22. SCHEDULED MAINTENANCE**

- D22.1 The Contractor shall perform the following scheduled maintenance in the manner and within the time periods required by the Specifications:
- (a) Sod maintenance as specified in E6;
  - (b) Seed maintenance as specified in E6;

## **CONTROL OF WORK**

### **D23. JOB MEETINGS**

- D23.1 Job meetings will be held on the various Work Sites at dates and times established by the Contract Administrator. The Contract Administrator will provide the Contractor with a minimum of twenty-four (24) hours' notice of these meetings. 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/she 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).

### **D25. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS**

- D25.1 Further to B10.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B10.4.

## **MEASUREMENT AND PAYMENT**

### **D26. PROGRESS ESTIMATES**

D26.1 Notwithstanding C12.7 of the General Conditions, subject to having received all necessary information, the Contract Administrator shall prepare a progress estimate setting out the quantity and value of the work performed after the North Area - North – Winter Cuts list has been completed or end of each month, whichever comes first.

### **D27. PAYMENT OF QUANTITIES CONDITIONAL TO TERMINATION OF MAINTENANCE PERIOD**

D27.1 The Contract Administrator shall, prepare a progress estimate for the twenty-five percent (25%) of the remaining sod quantities and for the 35 percent (35%) of the remaining seed quantities conditional to termination of the maintenance period and acceptance of the Work.

### **D28. PAYMENT**

D28.1 Further to C12, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

### **D29. DIMINUTION**

D29.1 Further to C7.5 of the General Conditions, the major components of the Work intended to be done under the Contract are estimated based on the summation of:

- (a) the total un-restored mud cut quantities on Restoration Permits issued by the City prior to bid preparation; and
- (b) the total mud cut quantities on Restoration Permits issued by the City following bid preparation that are deemed ready for restoration by the Contract Administrator.

The quantity of seeding required is proportional to the quantity of sod.

D29.2 Notwithstanding C7.5, no claim shall be made for damages on the ground of loss of anticipated profit on Work diminished or on any other ground should the value of the Contract Price be diminished by an amount not exceeding fifty percent (50%) as a result of the major components of the Work as identified on Form B not meeting the estimated approximate quantities on Form B: "Prices".

## **WARRANTY**

### **D30. WARRANTY**

D30.1 Notwithstanding C13.2, warranty under this contract is not required.

**FORM H1: PERFORMANCE BOND**  
(See D11)

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. 117-2015

NORTH AREA – NORTH, RESTORATION OF WINTER BOULEVARD CUTS

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 D11)

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

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

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 117-2015

NORTH AREA – NORTH, RESTORATION OF WINTER BOULEVARD CUTS

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 (2007 Revision), International Chamber of Commerce Publication Number 600.

\_\_\_\_\_  
(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:

Drawing No.      Drawing Name/Title

PW-ENG-01NNW	Cut Permit Area and Zones North Area – North	Letter Size
PW-ENG-02	Backflow Protection Arrangement for Water Supply from Hydrant	Letter Size

#### E2. PROTECTION OF EXISTING TREES

- E2.1 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:
- The Contractor shall not stockpile materials and soil or park vehicles and equipment on boulevards within 2 metres of trees.
  - 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.
  - 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.
  - 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.
  - 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.
- E2.2 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.
- E2.3 No separate measurement or payment will be made for the protection of trees.



E2.4 Except as required in clause E2.1(c) and E2.1(e), Elm trees shall not be pruned at any time between April 1 and July 31.

### **E3. ADJUSTMENT OF EXISTING BOULEVARD STRUCTURES AND APPURTENANCES**

E3.1 Where boulevard structures or appurtenances exist that will require adjustment prior to the cut restoration being completed, the Contractor shall notify the Contract Administrator immediately. The Contract Administrator shall make the necessary arrangements to have the structure(s) adjusted by others. Where the adjustment is not completed within forty-eight (48) hours of the Contractor giving notification, the cut(s) identified will not be considered in determining completion of the Round by the specified Round Completion Date

### **E4. TRAFFIC CONTROL**

E4.1 Further to clauses 3.6 and 3.7 of CW 1130:

- (a) 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.

### **E5. AUTHORIZED WORK ON PRIVATE PROPERTY**

E5.1 Further to clause 3.11 of CW 1130-R2, the Contractor shall limit his operations to the minimum area necessary for undertaking restorations that extend on to private property and he shall be responsible for all damages outside the limits of the authorized work, resulting from his work on private property. Particular care shall be taken to prevent damage to buildings, sidewalks, driveways, trees and plants.

### **E6. BOULEVARD RESTORATIONS**

E6.1 DESCRIPTION

E6.1.1 This Specification shall cover the preparation of the boulevard cuts, the supply and placing of cultivated turf grass sod, and seeding.

E6.1.2 Referenced Standard Construction Specifications

- (a) CW 1130 – Site Requirements
- (b) CW 3510 – Sodding
- (c) CW 3520 – Seeding
- (d) CW 3110 – Sub-grade, Sub-base and Base Course Construction
- (e) CW 3540 – Topsoil and Finish Grading for Establishment of Turf Areas

E6.2 MATERIALS

E6.2.1 Testing and supply of cultivated turf grass sod and topsoil shall be in accordance with CW 3510.

E6.2.2 Grass seed shall be supplied in accordance with CW 3520.

E6.2.3 Backfill

E6.2.3.1 Suitable site material as approved by the Contract Administrator or imported fill material supplied in accordance with CW 3110, shall be used for backfill material. The material used as backfill shall be free of wood, vegetation, concrete or asphalt rubble and all stones larger than 25 mm in diameter.

## E6.3 EQUIPMENT

E6.3.1 Track equipment shall not be used.

### E6.3.2 Grading/Excavation

E6.3.2.1 The Contractor shall use a wheeled excavator capable of directly loading and unloading materials from delivery/hauling equipment to the cut restoration site.

## E6.4 CONSTRUCTION METHODS

### E6.4.1 Compaction

E6.4.1.1 The existing in-situ material and any placed backfill material shall be mechanically compacted to the satisfaction of the Contract Administrator.

E6.4.1.2 Compaction of the backfill shall be accomplished by mechanical means. Acceptable methods shall include tamping with a wheeled excavator bucket, using a machine mounted pneumatic plate compactor or using a drum compactor.

### E6.4.2 Grading

E6.4.2.1 Grading of the boulevards to receive sod/seed shall be understood to mean the required backfilling or excavation so that the boulevards, after compaction, are at a uniform depth of 100 mm below finished boulevard grade.

E6.4.2.2 Grading of boulevards shall include the removal of existing material up to 300 mm above the finished boulevard grade and excavation to achieve a uniform grade 100 mm below finished boulevard grade.

E6.4.2.3 Grading of boulevards shall include all backfilling up to a vertical height of 300 mm to reach a uniform grade 100 mm below finished boulevard grade.

E6.4.2.4 Backfill material shall be compacted to a minimum of 90% Standard Proctor Density.

E6.4.2.5 Where the existing elevation of the backfill material is such that it would be necessary to exceed the limits specified herein for backfilling or excavating to restore a boulevard cut, the Contractor shall immediately notify the Contract Administrator who will make arrangements to have the backfill material adjusted to the specified limits by others.

E6.4.2.6 The Contractor shall not deposit or stockpile excavated material in the right-of-way.

### E6.4.3 Trimming

E6.4.3.1 Trimming of the boulevards and medians to receive sod shall be understood to mean the excavation of existing material to provide a uniform shape for sod placement. Trimming includes the cutting of the edges to form straight or uniform curved edges and the removal of trimmed turf material. Where the Contractor is unable to trim the cut to obtain a uniform shape within the limits marked, he shall notify the Contract Administrator to have the limits of the cut marked prior to trimming.

### E6.4.4 Disposal of Material

E6.4.4.1 Disposal of unused excavated or trimmed material shall comply with Section 3.4 of CW 1130 of the Standard Construction Specifications

### E6.4.5 Topsoil and Finish Grading

E6.4.5.1 Preparation, placing and finish grading of the topsoil shall be completed in accordance with Specification CW 3540.

E6.4.5.2 To prevent the formation of depressions or water pockets, the Contractor shall smooth out any undulations or irregularities in the top soil surface prior to placing the sod.

E6.4.5.3 The Contractor shall not deposit or stockpile topsoil on a paved surface.

#### E6.4.6 General

E6.4.6.1 The Contractor shall not commence sodding or seeding until the finished topsoil surface has been inspected and approved by the Contract Administrator.

#### E6.4.7 Placement of Sod/Seed

E6.4.7.1 The sod shall be placed in accordance with CW 3510. Seed shall be placed in accordance with E6.4.9.

E6.4.7.2 Notwithstanding the last three paragraphs of Clause 9.5 of CW 3510, sod and seed shall be placed in accordance with E6.4.7 after September 15.

E6.4.7.3 After September 15, consideration will be given to each locations probable exposure to winter street maintenance activities. Locations where high exposure is predicted, such as regional streets and collector/bus route streets, especially where the Cut is in close proximity to the roadway, will be omitted.

E6.4.7.4 Where the termination of the sod/seed maintenance period is not achieved in accordance with Clause E6.4.16 in the same year it is placed, the Contractor shall be responsible for replacement of any sod/seed damaged over the winter due to winter-kill, ice damage, sand/salt applications on adjacent streets or from snow removal or spring clean-up equipment.

#### E6.4.8 Watering and Rolling

E6.4.8.1 Watering and rolling shall be in accordance with CW 3510.

#### E6.4.9 Seeding

E6.4.9.1 As directed by the Contract Administrator damaged boulevard areas in the vicinity of boulevard cuts or boulevard cuts in areas where the existing surrounding boulevard has little or no turf will be corrected by seeding as follows:

E6.4.9.2 Topsoil shall be spread to a compacted depth of not less than 50 mm for boulevard damages and not less than 100 mm for cut restorations. Grass seed shall be sown at a rate of 100 grams per 10 square metres (1.0 kg per 100 sq.m.). The Contractor shall sow the seed into the approved seed bed by using seeding equipment suitable for the area involved and to the satisfaction of the Contract Administrator. Seed shall be embedded into soil to a depth of 5mm within one (1) hour of sowing. All seeded areas shall be rolled with a mechanical roller of minimum weight of 220 kg and a minimum width of 760 mm to a uniform even surface, level with adjoining curbs, sidewalks or sod.

E6.4.9.3 Water shall be applied in sufficient quantities and frequencies to obtain seed germination and growth. Watering shall be controlled to prevent seed washout.

E6.4.9.4 No seeding shall be done on frozen soils, or when any other conditions unfavourable to the successful seed germination exist.

#### E6.4.10 Short Notice Restorations

E6.4.10.1 The Contract Administrator may at any time during the contract direct the Contractor to restore a specific location in the North Area - North designated as Short Notice. Upon receipt of such notice the Contractor is to have the identified location restored in accordance with this specification within five (5) Working Days of the notification.

E6.4.10.2 Where the Contractor fails to complete a Short Notice restoration within the period specified, the Contract Administrator will arrange to have the restoration completed by others and deduct the costs as specified in D21 from any payment to be made to the Contractor.

#### E6.4.11 Emergency Restorations

E6.4.10.1 The Contract Administrator may at any time during the contract direct the Contractor to restore a specific location in the North Area - North designated as an Emergency restoration. Upon receipt of such notice the Contractor is to have the identified location

restored in accordance with this specification within forty-eight (48) hours of the notification.

E6.4.10.2 Where the Contractor fails to complete an Emergency restoration within the period specified, the Contract Administrator will arrange to have the restoration completed by others and deduct the costs as specified in D21 from any payment to be made to the Contractor.

#### E6.4.12 Restoration of Gas Service Inspection Holes

E6.4.12.1 Where new communication plant is installed in developed areas, bore holes are often made where the new plant crosses existing gas services to inspect for damages. The diameter of these holes is normally less than 300mm. Sand or other granular material is sometimes used to backfill the holes. Restoration of these holes with sod includes the replacement of sand or granular backfill with topsoil to a minimum depth of 200mm below finished grade.

#### E6.4.13 Commencement of Thirty (30) Day Maintenance Period

E6.4.13.1 Immediately after the sod/seed has been placed to the satisfaction of the Contract Administrator, the Contractor shall provide and pay for continuous maintenance of the sodded/seeded area until the criteria specified for termination of the maintenance period in Clause E6.4.16 has been met.

E6.4.13.2 The Contract Administrator will not allow the Thirty (30) Day Maintenance Period to commence until the following requirements are met:

- (a) The cultivated turf grass sod supplied meets the seed mixture requirements specified in Clause E6.2.1.
- (b) The sod is free of bare and dead spots.
- (c) The cultivated turf grass sod does not contain more than 10 broadleaf weeds per 50 square metres.
- (d) Sodded/seeded areas has been rolled to form a firm, uniform even surface level with adjoining areas.
- (e) The sod shall have sufficient shoot density that no surface soil is visible within sod.
- (f) The height of the top growth of the sod is between 50 - 60 mm.
- (g) The sodded/seeded area is free of any visual obstructions such as leaves.
- (h) Sodded area is free of any turf damaging insects.

E6.4.13.3 Any deficient, damaged or vandalized areas shall be resodded or reseeded by the Contractor within three (3) working days after receiving notification from the Contract Administrator and the area so resodded or reseeded, shall be further maintained until it meets the criteria specified in Clause E6.4.16.

E6.4.13.4 In situations where the commencement of the Thirty (30) Day Maintenance Period is not granted by the Contract Administrator before the end of a growing season, the Thirty (30) Day Maintenance Period will commence on May 15 of the following year or such date as is mutually agreed upon by all parties, at which time all sodded/seeded areas must meet the requirements listed above.

#### E6.4.14 Maintenance of Sodded and Seeded Areas

E6.4.14.1 Immediately after the sod/seed have been placed to the satisfaction of the Contract Administrator, the Contractor shall provide and pay for continuous maintenance of the sodded/seeded area until the criteria specified for termination of the maintenance period in Clause E6.4.16 has been met.

E6.4.14.2 The Contractor shall mow at regular intervals to a height of between 50 - 60 mm. No more than thirty percent (30%) of the grass height shall be cut at any one mowing. Remove clippings that will smother grassed areas.

- E6.4.14.3 The Contractor shall water sodded/seeded areas in sufficient quantities and frequencies required to obtain root development and sod growth and seed germination and grass growth.
- E6.4.14.4 Any damage which may occur through washout of the soil during the maintenance period shall be repaired and maintained until it meets the criteria specified in Clause E6.4.16.
- E6.4.14.5 The Contractor shall clean and remove all dead vegetation, leaves, debris and snow mold from sodded and seeded areas to encourage healthy and uniform grass growth.
- E6.4.14.6 Given the need for weed control, the Contractor shall have in possession a Pesticide Applicator's License and Pesticide Use Permit for pesticide applications related to this Specification.
- E6.4.14.7 The Contractor shall apply herbicide when broadleaf weeds start developing in competition with grass. Apply herbicide in accordance with the City of Winnipeg Weed Control Standards and Procedures, manufacturer's instructions and the Manitoba Agriculture Guide to Crop Protection and Herbicide Recommendations for Landscape Applicators, latest editions and the following criteria:
- (a) Use 2,4-D Amine or MCPA Amine herbicide for susceptible broadleaf weeds.
  - (b) Use a mixture containing 2,4-D Amine or MCPA Amine, Mecoprop and Dicamba for 2,4-D resistant plants.
  - (c) Do not apply to newly seeded turf until after the second or third mowing.
  - (d) Do not water within 24 hours after application.
  - (e) Apply when winds are less than 20 km/h and air temperature is above 10 degrees Celsius.
  - (f) Avoid use of pure Dicamba solutions near trees and shrubs.
- E6.4.14.8 Given the need for insect control, the Contractor shall have in his possession a Pesticide Applicator's License and a Pesticide Use Permit for pesticide applications related to this Specification. Use standard commercial products in accordance with the manufacturer's instructions and the Manitoba Agriculture Guide to Crop Protection (latest edition) for the particular insect/insects involved.
- E6.4.14.9 Copies of the Pesticide Applicator's License and the Pesticide Use Permit must be submitted to the Contract Administrator prior to commencement of pesticide application.
- E6.4.14.10 All persons handling insecticides shall be fully aware of toxicological rules and regulations governing their use.
- E6.4.14.11 The Contractor shall inform the Contract Administrator immediately of any dangerous occurrence.
- E6.4.15 Spring Clean Up
- E6.4.15.1 Where termination of the sod maintenance period has not been achieved in accordance with Clause E6.4.16 prior to the end of a growing season, regardless of when the sod/seed was placed, the Contractor shall complete all operations related to the clean-up of the work area in the following spring. This shall include the cleaning and removal of all dead vegetation, leaves, debris, snow mold and any sand or gravel resulting from winter sanding/de-icing operations from turf areas to encourage healthy and uniform grass growth. All costs for spring clean-up operations shall be incidental to the costs for sodding and seeding.
- E6.4.16 Termination of Maintenance Period
- E6.4.16.1 The Contract Administrator will terminate the maintenance period for sodded and seeded areas after the following criteria has been met:
- (g) The certified seed sowed meets the requirements specified in clause E6.2.2.

- (h) The work site is clean and the sodded and seeded areas are free of any visual obstructions such as leaves.
- (i) The seeded area has been rolled and has a firm, uniform even surface.
- (j) The sodded and seeded areas are free of bare and dead spots and without more than 10 broadleaf weeds per 50 square metres.
- (k) Grass roots are well anchored into the underlying topsoil and the sodded and seeded areas have established into a healthy, vigorously growing condition.
- (l) Sodded areas are free of visible joints.
- (m) The sodded and seeded areas have sufficient shoot density that no surface soil is visible when the grass has been cut to a height of 50 - 60 mm.
- (n) Sodded and seeded area has been cut to a height of 50 - 60 mm within two working days before the final inspection.
- (o) Sodded and seeded area is free of any turf damaging insects.

E6.4.16.2 If the sodded and seeded areas do not meet the above criteria, the deficient area shall be resodded or reseeded as applicable within three (3) working days after receiving notification from the Contract Administrator and maintained by and at the expense of the Contractor in accordance with Clauses E6.4.13 and E6.4.14 herein.

E6.4.16.3 In situations where the termination of the maintenance period is not granted by the Contract Administrator before the end of a growing season, the maintenance period will commence as described in Clause E6.4.13.

#### E6.4.17 Site Clean-Up

E6.4.17.1 During both the placement and maintenance of sod/seed, all sidewalks, streets, approaches, driveways and properties near the sodding and seeding operations shall be kept clean at all times by the Contractor.

E6.4.17.2 Upon completion of the project, the Contractor shall immediately remove all excess material, debris and equipment from the work site.

### E6.5 MEASUREMENT AND PAYMENT

#### E6.5.1 Sodding

E6.5.1.1 Sodding will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Sodding" classified into one the categories listed in the items of work below. The area to be paid for will be the total number of square metres of sod supplied, placed and maintained in accordance with this specification, accepted and measured by the Contract Administrator, which price shall be payment in full for supplying all materials and for completing all operations herein described and all other items incidental to the work included in this Specification.

E6.5.1.2 No measurement will be made for sod placed outside the limits of placement directed by the Contract Administrator, or for sod placed that does not meet the requirements for the commencement of the thirty (30) day maintenance period.

E6.5.1.3 Items of work: (a) Sodding\*

- i) area greater than or equal to 4 and less than or equal to 15
- ii) area greater than 15

(b) Short Notice Sodding\*

(c) Emergency Sodding\*

(d) Sodding Gas Service Inspection Holes\*\*

\* The minimum area for each location will be four (4) square metres.

\*\* The minimum area for each location will be one (1) square metres and the maximum area will be four (4) square metres. If more than four (4) square meters of sod is required to complete an individual restoration, the area greater than one (1) square meter will be measured and paid for in the appropriate category for "Sodding" and the one (1) square meters will be paid for as Sodding Gas Service Inspection Holes.

E.6.5.1.4 Payment for Sodding shall be in accordance with the following:

- Seventy-five (75) percent of quantity following supply and placement
- Remaining twenty-five (25) percent of quantity following termination of the maintenance period.

E6.5.2 Seeding

E6.5.2.1 Supply, placement and maintenance of seed will be measured on an area basis and paid for at the Contract Unit Price per square metre for "Seeding" classified into one the categories listed in the items of work below. The area to be paid for will be the total number of square metres seeded and maintained in accordance with this specification, accepted and measured by the Contract Administrator, which price shall be payment in full for supplying all materials and for completing all operations herein described and all other items incidental to the work included in this Specification.

E6.5.2.2 No measurement will be made for seeding placed outside the limits of placement directed by the Contract Administrator, or for seeding placed that does not meet the requirements for the commencement of the thirty (30) day maintenance period.

E6.5.2.3 Items of work: (a) Seeding

- i) damages
- ii) cuts

E6.5.2.4 Payment for Seeding shall be in accordance with the following:

- Sixty-five (65) percent of quantity following supply and placement
- Remaining thirty-five (35) percent of quantity following termination of the maintenance period.

E6.5.3 Grading

E6.5.3.1 Grading of boulevards to receive sod under this specification shall be incidental to the cost of sodding and will not be measured for payment. Grading of boulevards to receive sod outside the limits of this specification will be done and paid for in accordance with Specification CW3110.

E6.5.3.2 Grading of boulevards to receive seed will be done and paid for in accordance with Specification CW3110.

## **E7. WATER OBTAINED FROM THE CITY**

E7.1 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.

## **E8. SURFACE RESTORATIONS**

E8.1 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.

## **E9. LATENT SINKAGE RESTORATION**

### **E9.1 DESCRIPTION**

E9.1.1 This Specification shall cover the restoration, by topsoil and seeding, of boulevard cuts that are originally restored through the cut permit program and that settle after the final restoration is complete.

E9.1.2 Referenced Standard Construction Specifications

(a) CW 1130 – Site Requirements

(b) CW 3520 – Seeding

(c) CW 3540 – Topsoil and Finish Grading for Establishment of Turf Areas

### **E9.2 MATERIALS**

E9.2.1 Topsoil shall be supplied in accordance with CW 3540.

E9.2.2 Fertilizer shall be supplied in accordance with CW 3540

E9.2.3 Grass seed shall be supplied in accordance with CW 3520.

### **E9.3 CONSTRUCTION METHODS**

E9.3.1 As directed by the Contract Administrator Latent Sinkage areas within the assigned area under this contract requiring Latent Sinkage restoration shall be restored in accordance with this specification.

#### **E9.4 Topsoil & Finish Grading**

E9.4.1 Preparation, placing and finish grading of the topsoil shall be completed in accordance with Specification CW 3540 and this Specification.

E9.4.2 Topsoil shall be placed in sufficient quantities, then compacted and levelled to the adjacent boulevard, curb or sidewalk to ensure all depressions are filled and positive drainage is achieved within the limits of the area marked for restoration.

E9.4.3 Compact topsoil with a minimum 220 kg roller, minimum width of 760 mm to consolidate area to be seeded, leaving the surface smooth, uniform and firm against deep foot printing.

E9.4.4 Fertilizer shall be spread uniformly over the entire area of topsoil at a rate to provide 48 kg actual Nitrogen, 96 kg actual Phosphate and 48 kg actual Potassium per hectare.

#### **E9.5 Seeding**

E9.5.1 Grass seed shall be sown at a rate of 1.0 kg per 100 square metres.

E9.5.2 Seed shall be raked and embedded into the topsoil to a depth of 5 mm.

E9.5.3 Seed shall contain 60% Kentucky Bluegrass, 30% Creeping Red Fescue and 10% Perennial Ryegrass as specified in CW 3520.

E9.5.4 Seeded areas shall be compacted and rolled to form a uniform even surface, level with adjacent boulevard, curb and sidewalk.

E9.5.5 Initial watering shall be applied to the seeded area. Watering shall be controlled to prevent seed washout.

E9.5.6 No seeding shall be done on frozen soils, or when any other conditions unfavourable to the successful seed germination exist.

E9.5.7 Any damage which may occur through washout of the soil during the seed germination and grass growth period shall be repaired and maintained until it meets the Contract Administrators approval.

E9.5.8 The Contractor shall clean and remove all dead vegetation, leaves, debris and snow mold from seeded areas to encourage healthy and uniform grass growth.





**APPENDIX 'A'**

**ROUNDS**

Area: South  
 Round No: S5xxx  
 Sub Zones: S3B, S3C, S3D, S4A, S4B, S4C

Avg. Daily Rate: (sq.m./day) 150 Bid Opp. No.: xxx-2015  
 Duration: (Working Days) Contractor:  
 Round Commencement Date: Inspector:  
 Round Completion Date: 15-Jul-15

Restored by others  
 Move to next round  
 Placed on 30-day Mice  
 Restored

Types  
 SN - Short Notice Sodding  
 ES - Emergency Sodding  
 GAS - Gas Line Inspection Holes

Last updated: JW 23-Jul-14

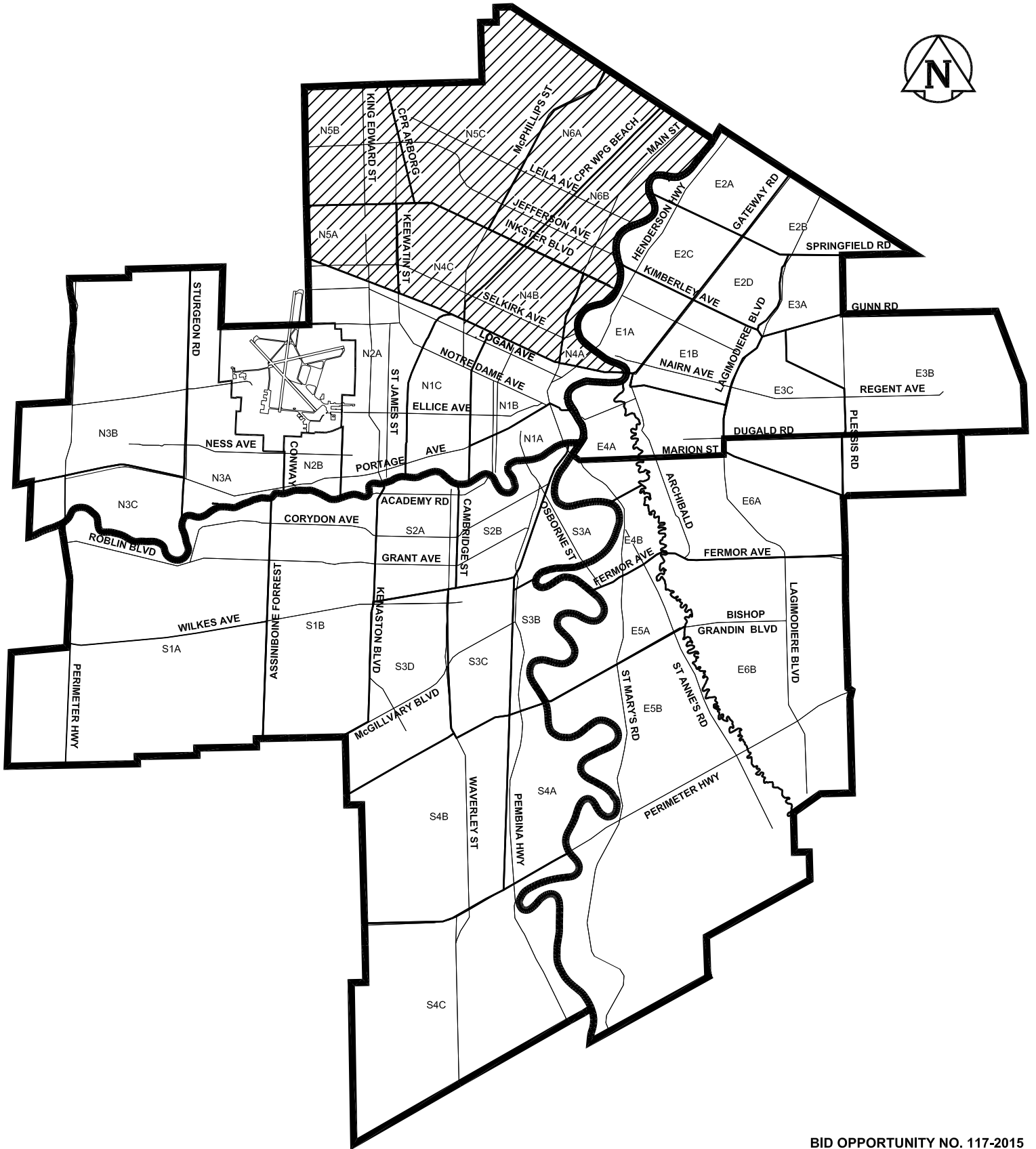
Ref #	Permit #	Date Created	Zone	Address	Applicant	Permit Quant	Insp. Quant	Pave Quant	Pave Restor	Walk Quant	Walk Restor	Curb Quant	Curb Restor	Types			TS/S Dmgs	TS/S Cuts	Blvd Grd	Adj. S'walk Blocks	Supply S'walk Blocks	Sod Inspector Comments	Inspectors Comments	
														SN	ES	GAS								
1	092408	Jul 28, 2010	S3B	110 ADAMAR RD	Blais Underground Boring Ltd.	4		0																
2	105063	Sep 13, 2013	S3B	108 BUXTON RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	30		0																
3	105061	Sep 13, 2013	S3B	128 BUXTON RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	25		0																
4	102667	Dec 19, 2012	S3B	933 CALROSSIE BLVD	MANITOBA HYDRO - MAINTENANCE-GAS DIVISION	8		0																
5	104480	Jul 16, 2013	S3B	775 CRESCENT DR	MANITOBA HYDRO - CONSTRUCTION	15		0															Cut located east side of the lot before the entrance to the park	
6	103444	Apr 03, 2013	S3B	781 CRESCENT DR (MISC MTR)	MANITOBA HYDRO - MAINTENANCE-GAS DIVISION	6		0															new building- damage deposit	
7	104385	Jul 05, 2013	S3B	511 MANCHESTER BLVD N	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	38		0		3	October 24, 2013													
8	104031	May 30, 2013	S3B	40 PLAZA DR	MAPLE LEAF CONSTRUCTION LTD.	4		5	September 24, 2013				3	September 24, 2013									Unable to locate. * RBO (May 29)	on-going construction - june 24, 2013
9	104179	Jun 19, 2013	S3B	1004 ROYSE AVE	MANITOBA HYDRO - MAINTENANCE-GAS DIVISION	4		0																
10	102789	Jan 07, 2013	S3B	484 SOUTH DR	MANITOBA HYDRO - CONSTRUCTION	10		0																
11	101830	Oct 03, 2012	S3B	844 SOUTHWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4		8	September 16, 2013															
<b>S3B Total</b>						<b>148</b>	<b>0</b>																	
12	102964	Jan 29, 2013	S3C	BUFFALO PL (& OTTER)	CROWN UTILITIES LTD	130		0															Ask for plan	
13	102157	Nov 06, 2012	S3C	BYING PL (N/E & DEREK ST)	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15		11	August 15, 2013					4	August 15, 2013									
14	105196	Sep 26, 2013	S3C	2050 CHEVRIER BLVD	MAPLE LEAF CONSTRUCTION LTD.	17		0																
15	102268	Nov 05, 2012	S3C	1034 EDDERTON AVE	MANITOBA HYDRO - CONSTRUCTION	5		0																
16	104321	Jun 26, 2013	S3C	1034 EDDERTON AVE	KYLE CONSTRUCTION LTD.	5		4	August 13, 2013															
17	105326	Oct 10, 2013	S3C	1202 EDDERTON AVE	MANITOBA HYDRO - MAINTENANCE-GAS DIVISION	4		0																
18	103614	Apr 16, 2013	S3C	12 MARSHALL CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21		18	September 12, 2013					5	September 12, 2013									
19	105124	Sep 13, 2013	S3C	111 MARSHALL CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	17		0															*Work done dng'd by new excavation sept17: work not done inspection accidently entered	
20	105314	Oct 08, 2013	S3C	1355 PEMBINA HWY	MANITOBA HYDRO - MAINTENANCE-GAS DIVISION	6		0															cut on waller	
21	103712	Apr 30, 2013	S3C	ROSEMOUNT AVE [WYNNE SOUTH LINE ROSEMOUNT]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10		27	September 19, 2013		5	September 19, 2013		8	September 19, 2013								see permit#104908	
	105164	Sep 24, 2013	S3C	WAVERLEY ST (START AT MTS M/HOLE ON THE SE CORNER OF WAVERLEY & WILLSON GOING N ON THE EAST SIDE OF WAVERLEY TO THE SIDE OF 1565 WILLSON PL GO EAST TO THE REAR OF 1565 WILLSON PL)	ROHL ENTERPRISES LTD	20		0															Const. * Additional areas of TS/5	
22	101641	Sep 25, 2012	S3C	1140 WAVERLEY ST	RONDOR EXCAVATIONS LTD	70		0						7	September 20, 2013								Const. * Quantity marked May 30	
<b>S3C Total</b>						<b>320</b>	<b>0</b>																	

Grand Total

468 0

**EXAMPLE**

# NORTH AREA - North



BID OPPORTUNITY NO. 117-2015

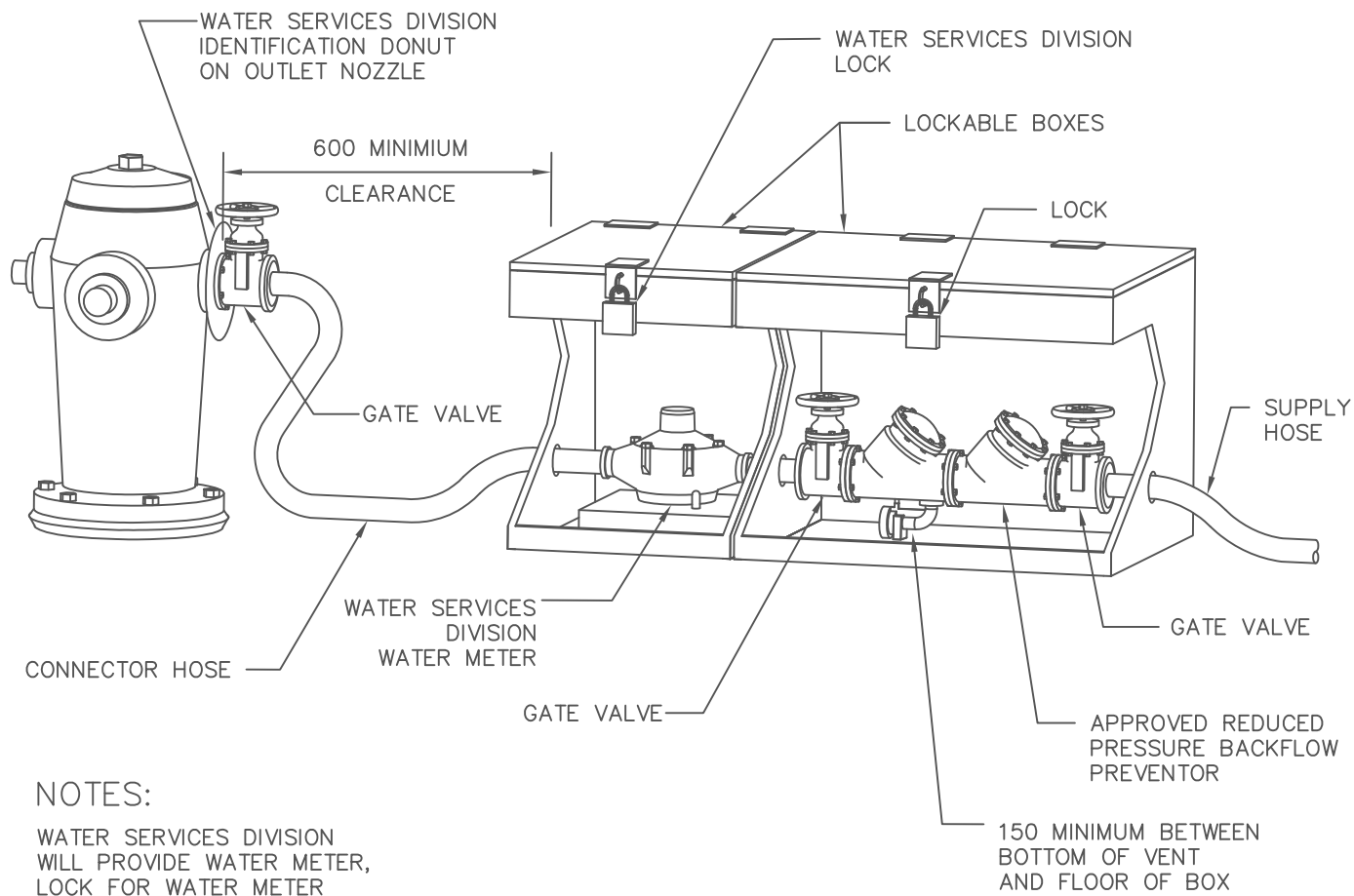


THE CITY OF WINNIPEG  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING DIVISION  
 TECHNOLOGY SERVICES BRANCH  
 106 - 1155 PACIFIC AVE

## CUT PERMIT AREA AND ZONES NORTH AREA - North

Drawing No.

PW-ENG-01NNW



**NOTES:**

WATER SERVICES DIVISION WILL PROVIDE WATER METER, LOCK FOR WATER METER COMPARTMENT AND IDENTIFICATION DONUT.

ONLY WATER SERVICES DIVISION STAFF WILL OPERATE HYDRANTS.

DIMENSIONS IN MILLIMETRES



**The City Of Winnipeg**  
Water & Waste Department

Reference Spec. No. CW 1120  
CW 2110

BACKFLOW PROTECTION  
ARRANGEMENT  
FOR WATER SUPPLY  
FROM HYDRANT

Designed By:  
RWK

Drawn By:  
RWK

Scale:  
N.T.S.

Checked By:  
TW

Date: 03-01-22  
Revised :

Drawing No.

Approved:

PW-ENG-02