



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 484-2014

SOUTH AREA, FLOODING AND TAMPING OF WINTER BOULEVARD CUTS

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SOUTH AREA, FLOODING AND TAMPING OF WINTER BOULEVARD CUTS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, May 27, 2014 .

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, 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/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 will 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
- 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 flooding and tamping of backfill material at boulevard cuts and other grassed areas, in the South Area as identified on drawing titled CUT PERMIT AREA AND ZONES SOUTH AREA.

D2.2 The flooding and tamping of boulevard cuts encompasses four major operations as follows:

- (a) Excavating, trimming, and filling the backfill material.
- (b) Jetting the backfill material until water rises above surface.
- (c) Tamping backfill material once surface water has dried.
- (d) Place and compact additional material to maintain top surface of backfill at required elevation.

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 South Area”.
- (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) **“South Area ”** - means the geographic area of the City of Winnipeg that is identified on Drawing titled “Cut Permit Area and Zones South Area”.
- (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..

- (i) **“Summarized Round”** - means an un-revised Round that shows only the estimated subtotals for each zone.
- (j) **“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.
- (k) **“Zone”** - means a portion of an Area as illustrated on the Drawing titled “Cut Permit Area and Zones South Area”.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Stacy Cournoyer, P.Eng..
Contract Administrator

Telephone No. 204 986-2142
Facsimile No. 204 986-5345

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. NOTICES

D6.1 Except as provided for in C23.2.2, all notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the Contractor shall be sent to the address or facsimile number identified by the Contractor in Paragraph 2 of Form A: Bid.

D6.2 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D6.3, D6.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the facsimile number identified in D3.1.1.

D6.3 Notwithstanding C21., all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer at the following facsimile number:

The City of Winnipeg
Chief Financial Officer

Facsimile No.: 204 949-1174

- D6.4 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

D7. AUTHORITY TO CARRY ON BUSINESS

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

D8. SAFE WORK PLAN

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

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured, 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.
- D9.2 Deductibles shall be borne by the Contractor.
- D9.3 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.
- 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 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.
- 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 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

D11. COMMENCEMENT

- D11.1 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.
- D11.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D7;
 - (ii) evidence of the workers compensation coverage specified in C6.15;
 - (iii) the Safe Work Plan specified in D8;
 - (iv) evidence of the insurance specified in D9;
 - (v) the performance security specified in D10; 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.
- D11.3 The Contractor shall commence the Work on the Site for the first round no later than seven (7) Working Days of receipt of the round list.
- D11.4 The City intends to award this Contract by June 3, 2014.
- D11.4.1 If the actual date of award is later than the intended date, the date specified for Total Performance will be adjusted by the difference between the aforementioned intended and actual dates.

D12. LAYOUT OF THE WORK AND REVISIONS OF QUANTITIES AND LOCATIONS

- D12.1 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.

D12.2 The Contractor shall use the field markings to complete the work. No measurement for payment will be made for materials placed outside the limits of the Work, for each location.

D12.3 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 D12.2.

D13. ADDITIONS TO A ROUND

D13.1 South Area – Winter Cuts lists shall be determined based on permit cuts created prior to June 1, 2014. Commencement of the South Area – Winter Cuts list shall be as specified in D11.3. Supplementary lists of new permit cuts ready for flooding and tamping prior to June 1, 2014 will be given to the Contractor throughout the term of this contract.

D13.2 Should additional lists to the Round be required, the Contract Administrator will make a determination in accordance with D14 with respect to extending the Completion Date.

D14. EXTENSION OF ROUND COMPLETION DATES

D14.1 Round list completion dates for South Area – Winter Cuts are established on the basis of eight (8) completed locations per working day.

D14.2 Should any additions in accordance with D13, to complete a Round be greater than the average daily rate multiplied by the Round Period, the Round Completion Date shall be extended based on eight (8) completed locations per day.

D14.3 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 18, 2014.

D15. TOTAL PERFORMANCE

D15.1 The Contractor shall achieve Total Performance by July 18, 2014 .

D15.2 Total Performance shall be defined as the acceptance by the Contract Administrator of all graded backfill at the locations listed in the South Area – Winter Cuts lists of cuts prior to June 1, 2014.

D15.3 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 re-inspected.

D15.4 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.

D16. LIQUIDATED DAMAGES

D16.1 If the Contractor fails to achieve 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) Total Performance - Five Hundred dollars (\$500.00).

- D16.2 The amounts specified for liquidated damages in D16.1 are based on a genuine pre-estimate of the City's losses in the event that the Contractor does not achieve Total Performance by the days fixed herein for same.
- D16.3 The City may reduce any payment to the Contractor by the amount of any liquidated damages assessed.

CONTROL OF WORK

D17. JOB MEETINGS

- D17.1 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.
- D17.2 The Contract Administrator reserves the right to cancel any job meeting or call additional job meetings whenever he/she deems it necessary.

D18. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D18.1 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

D19. PROGRESS ESTIMATES

- D19.1 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 South Area – Winter Cuts list has been completed or end of each month, whichever comes first.

D20. DIMINUTION

- D20.1 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.
- D20.2 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".

FORM H1: PERFORMANCE BOND
(See D10)

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. 484-2014

SOUTH AREA, FLOODING AND TAMPING 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 D10)

(Date)

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

RE: PERFORMANCE SECURITY - BID OPPORTUNITY NO. 484-2014

SOUTH AREA, FLOODING AND TAMPING 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:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>	
WWD-ENG-02	Cut Permit Area and Zones South Area	Letter Size
SD-019	Backflow Protection Arrangement for Water Supply from Hydrant	Letter Size
SD-003	Jetting Nozzle Insertion Locations	

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 work that extends 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 WORK

E6.1 DESCRIPTION

E6.1.1 This Specification shall cover the preparation of the boulevard cuts, flooding, tamping, and grading of the backfill material.

E6.1.2 Referenced Standard Construction Specifications

- (a) CW 1130 – Site Requirements
- (b) CW 3110 – Sub-grade, Sub-base and Base Course Construction
- (c) CW 2030 – Excavation Bedding and Backfill

E6.2 MATERIALS

E6.2.1 Backfill

- (a) 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

- (a) 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

- (a) The existing in-situ material and any placed backfill material shall be flooded and tamped, done in accordance with CW 2030 section 3.9.

E6.4.2 Grading

- (a) 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.
- (b) 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.
- (c) 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.
- (d) Backfill material shall be compacted to a minimum of 90% Standard Proctor Density.
- (e) 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.
- (f) The Contractor shall not deposit or stockpile excavated material in the right-of-way.

E6.4.3 Trimming

- (a) 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

- (a) Disposal of unused excavated or trimmed material shall comply with Section 3.4 of CW 1130 of the Standard Construction Specifications

E6.5 MEASUREMENT AND PAYMENT

E6.5.1 Flooding, Tamping, and Grading of Excavations

- (a) Flooding, Tamping and Grading of Excavations will be measured on an area basis and paid for at the Contract Unit Price per square metre classified into one the categories listed in the items of work below
- (b) Items of work:
 - 1) Flooding, Tamping and Grading of Excavations *
 - i) area greater than or equal to 4 m² and less than or equal to 15 m²
 - ii) area greater than 15 m²

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

E7. WATER USED ON CITY OF WINNIPEG CONSTRUCTION PROJECTS

- E7.1 Further to Section 3.7 of CW 1120, charges incurred for the permit and water meters shall be paid for by the Contractor when taken out. The Contractor shall forward the invoice to the Contract Administrator for reimbursement. The billing for water usage sent to the Contractor shall be forwarded to the Contract

E8. SURFACE WORK

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.

APPENDIX 'A'

ROUNDS

ASSIGNED TO ROUND ID 1194 - COMPLETION DATE: July 11, 2014

Round No. FTS1

Areas: South

Subzones: S1A, S1B, S2A, S2B, S3A, S3B, S3C, S3D, S4A, S4B, S4C

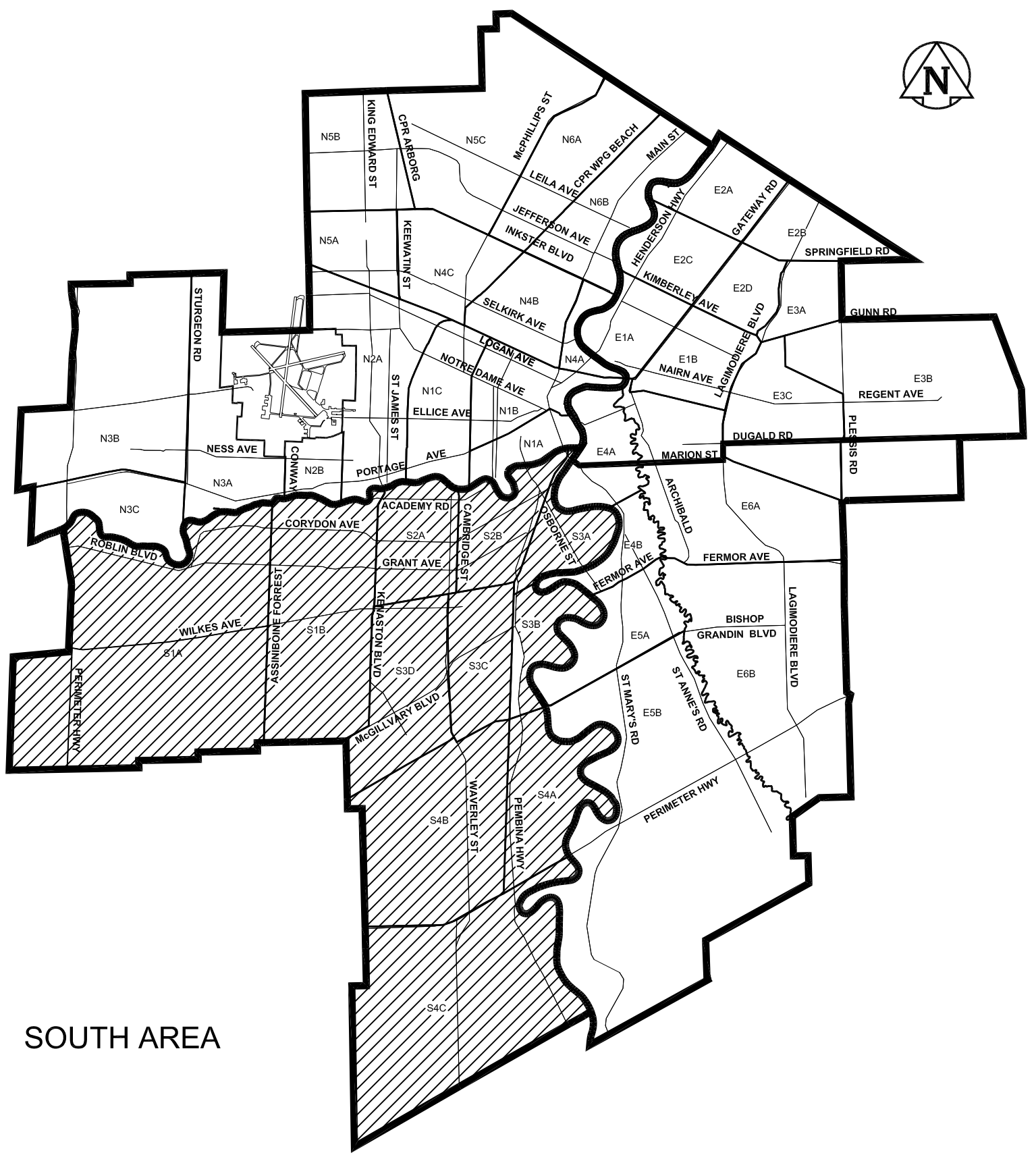
Sorted by: street name, street number

REF_NO	PERMIT_NO	CREATED_DATE	ZONE	LOCATION	APPLICANT	MUD	SINK	INSP_COMMENTS
1	106458	Jan 31, 2014	S2B	211 ACADEMY RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5	
2	106473	Jan 31, 2014	S4A	179 ALLEGHENY DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	10	
3	106492	Feb 06, 2014	S4A	770 ALLEGHENY DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	can't find
4	105703	Nov 08, 2013	S3A	434 ARNOLD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
5	106490	Feb 06, 2014	S2A	214 ASH ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
6	105181	Sep 26, 2013	S2A	892 ASH ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	30	30	
7	106660	Mar 06, 2014	S1A	7 ATKINSON RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5	
8	106372	Jan 20, 2014	S4B	259 AUGUSTA DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	39	6	5sq.m mud charged for patio stones
9	107111	Apr 14, 2014	S2B	26 AVONHERST ST [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15	
10	106043	Dec 09, 2013	S3A	286 BALTIMORE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
11	105210	Sep 26, 2013	S3A	296 BALTIMORE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16	
12	106990	Mar 28, 2014	S1A	222 BARKER BLVD [& 223 BARKER BLVD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
13	105855	Nov 27, 2013	S3A	245 BARTLET AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13	
14	106701	Mar 06, 2014	S2A	340 BEAVERBROOK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
15	106123	Dec 19, 2013	S1A	423 BERKLEY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
16	105641	Nov 08, 2013	S1A	537 BERKLEY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
17	105208	Sep 26, 2013	S4B	82 BLUE LAKE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12	
18	105398	Oct 15, 2013	S4B	86 BLUE LAKE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
19	106929	Mar 28, 2014	S2A	114 BOREBANK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
20	105707	Nov 08, 2013	S3A	403 BRANDON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
21	106038	Dec 09, 2013	S3C	64 BRISBANE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	36	36	
22	106987	Mar 28, 2014	S2A	101 BROCK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
23	106772	Mar 21, 2014	S2A	150 BROCK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
24	106652	Mar 06, 2014	S2A	179 BROCK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
25	105218	Sep 26, 2013	S2A	492 BROCK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
26	105683	Nov 08, 2013	S2A	820 BROCK ST [SOUTH LINE MATHERS]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	47	47	
27	106384	Jan 20, 2014	S4B	11 CALDER BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	4	
28	106463	Jan 31, 2014	S3D	43 CALDWELL CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
29	105201	Sep 26, 2013	S2A	870 CAMBRIDGE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	60	30	see permit #103385 & 102946
30	105564	Oct 25, 2013	S2A	181 CAMPBELL ST [& 183 CAMPBELL ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20	
31	106836	Mar 21, 2014	S2A	620 CAMPBELL ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
32	107361	May 07, 2014	S2A	389 CARPATHIA RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12	
33	105380	Oct 15, 2013	S2A	380 CENTENNIAL ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	
34	107225	May 07, 2014	S2A	686 CENTENNIAL ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
35	107113	Apr 14, 2014	S2A	768 CENTENNIAL ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5	
36	105548	Oct 25, 2013	S4B	1844 CHANCELLOR DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20	
37	106984	Mar 28, 2014	S4B	14 CHARLOTTETOWN RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
38	106434	Jan 31, 2014	S3A	233 CLARE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21	21	
39	106439	Jan 31, 2014	S3A	259 CLARE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	9	
40	106033	Dec 09, 2013	S3A	329 CLARE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	17	7	
41	106037	Dec 09, 2013	S3C	1181 CLARENCE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
42	105417	Oct 15, 2013	S3D	332 COLUMBIA DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
43	106113	Dec 19, 2013	S2A	278 CORDOVA ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	80	28	8 sq. m of mud charged for paving stones-Paul Cantor (homeowner) wants to do sod himself
44	105682	Nov 08, 2013	S3B	894 CRESCENT DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15	
45	105562	Oct 25, 2013	S1B	CUTHBERTSON AVE [SOUTH EAST KELVIN BV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
46	105671	Nov 08, 2013	S4A	DALHOUSIE DR [1ST EAST OF ALLEGHENY DR]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	in median in front of 143 dalhousie
47	105237	Sep 26, 2013	S4A	DALHOUSIE DR [WEST OF ALLEGHENY DR]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12	
48	105176	Sep 26, 2013	S4A	123 DALHOUSIE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	26	26	
49	105662	Nov 08, 2013	S4A	354 DALHOUSIE DR [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
50	105824	Nov 27, 2013	S2B	DALY ST N [40M S OF SOUTH LINE JESSIE AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
51	107248	May 07, 2014	S3D	154 DEER RUN DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
52	105847	Nov 27, 2013	S2A	1192 DORCHESTER AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
53	106470	Jan 31, 2014	S4C	39 DORGE DR [Opposite]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	17	10	
54	106813	Mar 21, 2014	S2B	246 DROMORE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	can't find

55	107170	Apr 17, 2014	S2B	614 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	4	4	
56	105888	Nov 27, 2013	S2B	756 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
57	105355	Oct 15, 2013	S2B	862 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
58	105698	Nov 08, 2013	S2B	943 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15	
59	105209	Sep 26, 2013	S2B	1048 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16	
60	105365	Oct 15, 2013	S2B	1052 DUDLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
61	105661	Nov 08, 2013	S1A	ELDRIDGE AVE [& EAST LINE ELDRIDGE AV AND SOUTH]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	34	34	
62	105242	Sep 26, 2013	S2A	866 ELM ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	30	30	
63	106380	Jan 20, 2014	S1A	875 ELMHURST RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13	
64	106269	Jan 06, 2014	S1A	885 ELMHURST RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
65	106808	Mar 21, 2014	S2B	773 FLEET AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
66	106267	Jan 06, 2014	S2B	1036 FLEET AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16	
67	105089	Sep 13, 2013	S2B	GARWOOD AVE [EAST LINE HUGO ST N]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	southeast corner of garwood and hugo - a 1by1 mud cut
68	105998	Dec 09, 2013	S2B	764 GARWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
69	106223	Jan 06, 2014	S1B	210 GIRTON BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	28	5	
70	105526	Oct 25, 2013	S2B	GRANT AVE [EAST & 1ST WEST OF NATHANIEL ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
71	107164	Apr 14, 2014	S1A	GRANT AVE [EAST OF OAKDALE DR]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
72	106867	Mar 21, 2014	S1A	514 GREENBRIER AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12	
73	105894	Nov 27, 2013	S4B	58 GULL LAKE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13	
74	107238	May 07, 2014	S1A	538 HARSTONE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	80	80	
75	105890	Nov 27, 2013	S2B	104 HARVARD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	replace patio blocks
76	105864	Nov 27, 2013	S4B	58 HAWSTEAD RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
77	105999	Dec 09, 2013	S2B	978 HECTOR AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
78	106973	Mar 28, 2014	S3C	HOWARD AVE [30M WEST OF PEMBINA HWY]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
79	105404	Oct 15, 2013	S2B	900 JESSIE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
80	105372	Oct 15, 2013	S1B	423 KELVIN BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	
81	105859	Nov 27, 2013	S2A	334 KENASTON BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16	
82	106006	Dec 09, 2013	S2A	550 KENASTON BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6	
83	105944	Dec 09, 2013	S4A	66 KILLARNEY AVE [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21	21	
84	105552	Oct 25, 2013	S4A	205 KILLARNEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
85	106853	Mar 21, 2014	S3A	516 KYLEMORE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	40	20	
86	105570	Oct 25, 2013	S1B	303 LAIDLAW BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
87	106122	Dec 19, 2013	S4B	89 LAKE GROVE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
88	105555	Oct 25, 2013	S4B	31 LAKEPOINTE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	25	25	
89	105558	Oct 25, 2013	S2A	LANARK ST [SOUTH LINE CORYDON AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20	
90	105541	Oct 25, 2013	S4B	43 LANCING COVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	45	45	
91	105416	Oct 15, 2013	S4C	210 LAURENT DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	see permit#10516 & 103609
92	105638	Nov 08, 2013	S4A	23 LAVAL DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
93	107158	Apr 14, 2014	S4A	98 LAVAL DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	cut full of water - contact w&w to check
94	106932	Mar 28, 2014	S4A	110 LAVAL DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21	21	
95	105567	Oct 25, 2013	S1A	377 LAXDAL RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
96	106357	Jan 20, 2014	S1A	845 LAXDAL RD [& 841, 821 LAXDAL RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14	
97	106352	Jan 20, 2014	S1A	869 LAXDAL RD [& 861 LAXDAL RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	36	36	
98	105669	Nov 08, 2013	S2A	100 LINDSAY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	30	30	
99	105696	Nov 08, 2013	S2A	584 LINDSAY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	22	22	
100	106117	Dec 19, 2013	S2A	918 LINDSAY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	11	
101	107078	Apr 14, 2014	S4A	90 MACALESTER BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15	
102	106220	Jan 06, 2014	S4B	11 MAIDSTONE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14	
103	105364	Oct 15, 2013	S1A	365 MARLTON CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	
104	105600	Nov 01, 2013	S2A	MATHERS AVE [WEST OF QUEENSTON BAY]	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	4	4	
105	105835	Nov 27, 2013	S2B	535 MCMILLAN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
106	106589	Feb 14, 2014	S2B	890 MCMILLAN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
107	106824	Mar 21, 2014	S3C	34 MERCURY BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20	
108	106964	Mar 28, 2014	S3B	932 MERRIAM BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
109	106429	Jan 31, 2014	S2A	196 MONTROSE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
110	107106	Apr 14, 2014	S2A	608 MONTROSE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10	
111	106348	Jan 20, 2014	S3A	MORLEY AVE [SOUTH WEST MABEL ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	4	
112	106251	Jan 06, 2014	S3A	58 MORLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
113	106816	Mar 21, 2014	S3A	418 MORLEY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
114	106262	Jan 06, 2014	S2B	MULVEY AVE [& WENTWORTH]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4	
115	106471	Jan 31, 2014	S3C	8 NEPTUNE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16	
116	106485	Feb 05, 2014	S2A	569 NIAGARA ST [FRONT & BACKLANE]	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	7	7	
117	106988	Mar 28, 2014	S2A	578 NIAGARA ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8	
118	106367	Jan 20, 2014	S2A	610 OAK ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7	
119	105546	Oct 25, 2013	S2A	634 OXFORD ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9	
120	106770	Mar 21, 2014	S4A	669 PATRICIA AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	9	
121	106966	Mar 28, 2014	S4A	673 PATRICIA AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	30	30	

122 106948	Mar 28, 2014	S2B	756 PEMBINA HWY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
123 105538	Oct 25, 2013	S3C	1681 PEMBINA HWY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
124 106549	Feb 14, 2014	S4C	3527 PEMBINA HWY [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
125 106379	Jan 20, 2014	S3A	592 RATHGAR AVE [& 596 RATHGAR AVE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	4
126 105677	Nov 08, 2013	S3D	30 RIDGEBURY PL	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
127 105568	Oct 25, 2013	S3D	50 RIDGEBURY PL [SOUTH EAST WETHERSFIELD RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
128 105227	Sep 26, 2013	S1A	4339 RIDGEWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20
129 105554	Oct 25, 2013	S3B	647 RIVERWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	38	38 correct address is 674 riverwood
130 106921	Mar 28, 2014	S3B	826 RIVERWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
131 105203	Sep 26, 2013	S3B	832 RIVERWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	18	18
132 105521	Oct 25, 2013	S1B	ROBLIN BLVD [WEST OF SHAFTSBURY BV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	28	28
133 106274	Jan 06, 2014	S3A	703 ROSEDALE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
134 107331	May 07, 2014	S3D	2 SANDOWN PT	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
135 107160	Apr 14, 2014	S3D	62 SANDOWN PT	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
136 105187	Sep 26, 2013	S3B	21 SANDRA BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10
			SATURN BAY [NORTH WEST OF SOUTH LEG PLANET ST			
137 105830	Nov 27, 2013	S3C	& 8 SATURN BAY]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13
138 106002	Dec 09, 2013	S3C	50 SATURN BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	31	31
139 107060	Apr 14, 2014	S1A	75 SCOTSWOOD DR [NORTH SIDE ON SANCTUARY]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
140 105713	Nov 08, 2013	S3C	SOMERVILLE AVE [& PLANET ST SOUTH EAST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
141 106121	Dec 19, 2013	S3B	SOUTH DR [130 FT NORTH OF DOVE BAY]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
142 105247	Oct 02, 2013	S1B	407 SOUTHPORT BLVD	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	8	8
143 105388	Oct 15, 2013	S3B	828 SOUTHWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	24	24
144 105639	Nov 08, 2013	S3B	832 SOUTHWOOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
145 106979	Mar 28, 2014	S1A	227 VARSITY VIEW DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
146 105670	Nov 08, 2013	S4C	11 VILLENEUVE BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7 see permit # 104891
147 106545	Feb 14, 2014	S3A	640 WALKER AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
148 105882	Nov 27, 2013	S3A	718 WALKER AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
149 106594	Feb 14, 2014	S2B	717 WARSAW AVE [& OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
150 105705	Nov 08, 2013	S2B	996 WEATHERDON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
151 107089	Apr 14, 2014	S2A	1489 WELLINGTON CRES S [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
152 106922	Mar 28, 2014	S2B	WENTWORTH ST [SOUTH LINE CORYDON AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
153 107371	May 07, 2014	S1A	190 WESTGROVE WAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
154 106574	Feb 14, 2014	S3B	233 WILDWOOD A PK	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
155 105887	Nov 27, 2013	S3B	264 WILDWOOD J PK	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
156 106807	Mar 21, 2014	S1A	21 WILLOW RIDGE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
157 107117	Apr 14, 2014	S3B	924 WINDERMERE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
158 106040	Dec 09, 2013	S1A	51 WOODCHESTER BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
159 105519	Oct 25, 2013	S3D	118 WOODINGTON BAY [& OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	24	24
160 106708	Mar 06, 2014	S2B	348 YALE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20

Total = 1923



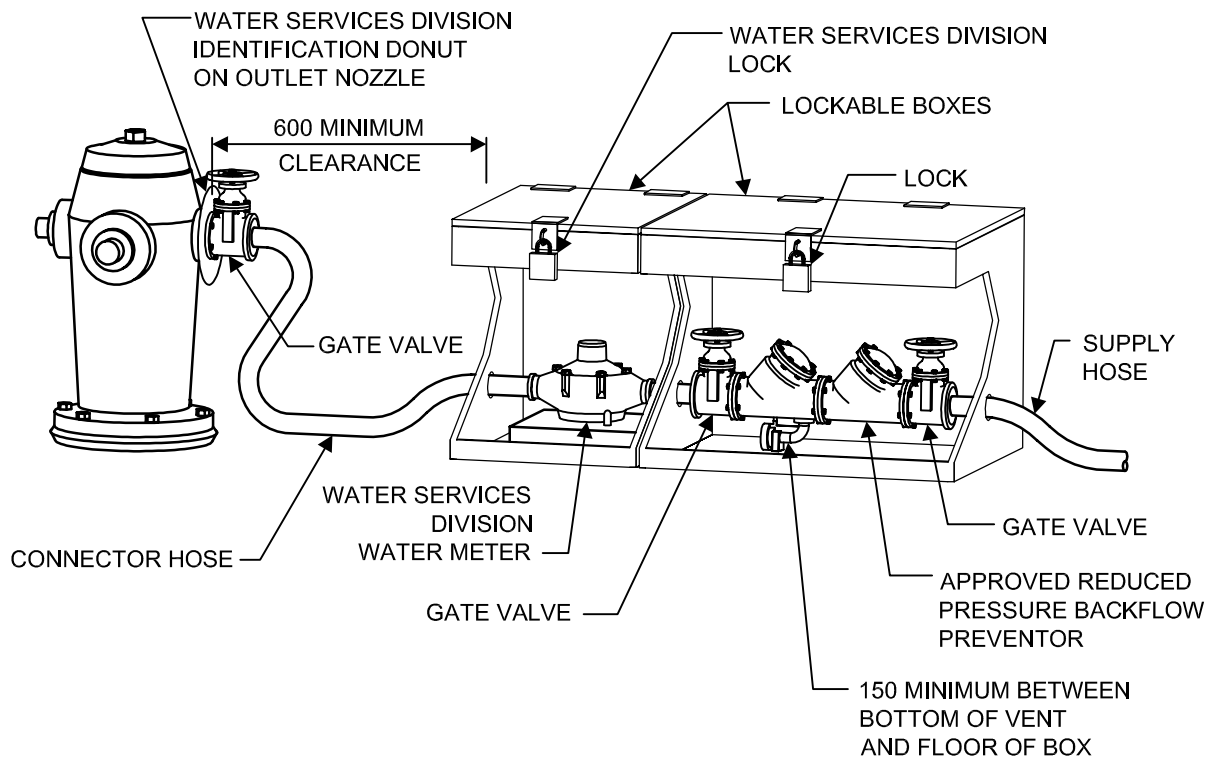
SOUTH AREA



THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT
ENGINEERING DIVISION
DESIGN & CONSTRUCTION BRANCH
1199 PACIFIC AVE

**CUT PERMIT AREA AND ZONES
SOUTH AREA**

Drawing No.
WWD-ENG-02



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 MILLIMETERS



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

Checked By:

TW

Approved:

UNDERGROUND WORKS COMMITTEE

Drawn By:

RWK

Date: 03-03-14

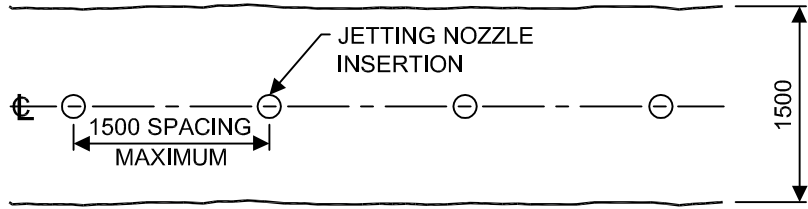
Revised:

Scale:

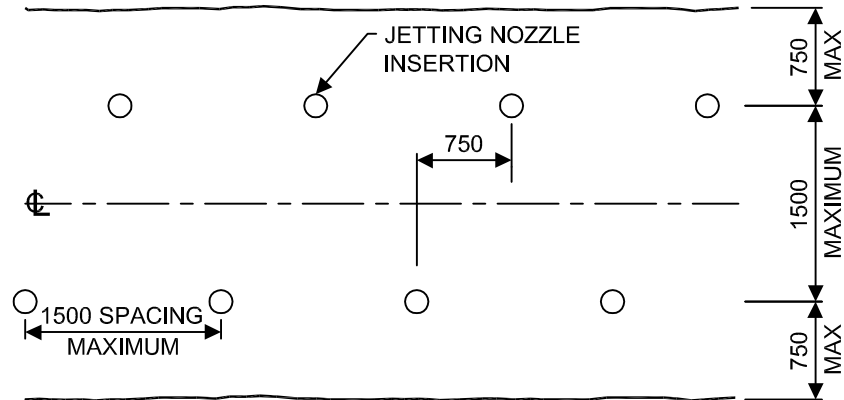
N.T.S.

Drawing No.

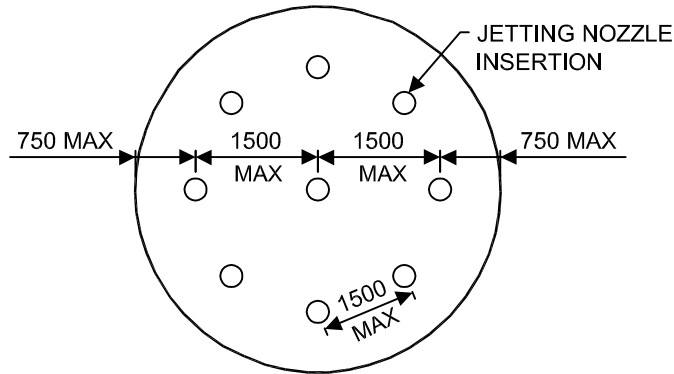
SD-019



TRENCHES UP TO 1500 WIDE



TRENCHES WIDER THAN 1500



CIRCULAR SHAFTS

DIMENSIONS IN MILLIMETERS



THE CITY OF WINNIPEG
WATER & WASTE DEPARTMENT

Reference Spec. No.

JETTING NOZZLE INSERTION
 LOCATIONS

Designed By:
 TW

Drawn By:
 BH

Scale:
 N.T.S.

Checked By:
 TW

Date: 03-03-14
 Revision: 1

Drawing No.

Approved:
 UNDERGROUND WORKS COMMITTEE

SD-003