



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 486-2014

EAST AREA - NORTH, FLOODING AND TAMPING OF WINTER BOULEVARD CUTS

TABLE OF CONTENTS

PART A - BID SUBMISSION

Form A: Bid	1
Form B: Prices	3

PART B - BIDDING PROCEDURES

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

PART C - GENERAL CONDITIONS

C0. General Conditions	1
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PART D - SUPPLEMENTAL CONDITIONS

General

D1. General Conditions	1
D2. Scope of Work	1
D3. Definitions	1
D4. Contract Administrator	2
D5. Contractor's Supervisor	2
D6. Notices	2

Submissions

D7. Authority to Carry on Business	3
D8. Safe Work Plan	3
D9. Insurance	3
D10. Performance Security	4

Schedule of Work

D11. Commencement	4
D12. Layout of the Work and Revisions of Quantities and Locations	4
D13. Additions to a Round	5
D14. Extension of Round Completion Dates	5
D15. Total Performance	5
D16. Liquidated Damages	5

Control of Work

D17. Job Meetings	6
D18. Prime Contractor – The Workplace Safety and Health Act (Manitoba)	6

Measurement and Payment

D19. Progress Estimates	6
D20. Diminution	6

Form H1: Performance Bond	7
Form H2: Irrevocable Standby Letter of Credit	9

PART E - SPECIFICATIONS

General

E1. Applicable Specifications and Drawings	1
E2. Protection Of Existing Trees	1
E3. Adjustment of Existing Boulevard Structures and Appurtenances	2
E4. Traffic Control	2
E5. Authorized Work On Private Property	2
E6. Boulevard Work	2
E7. Water Used On City Of Winnipeg Construction Projects	3
E8. Surface Work	4

PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 EAST AREA - NORTH, FLOODING AND TAMPING OF WINTER BOULEVARD CUTS

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, May 22, 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 East Area - North as identified on drawing titled CUT PERMIT AREA AND ZONES EAST AREA - NORTH.

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

- (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 East Area - North”.

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 May 29, 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 East Area - North – Winter Cuts lists shall be determined based on permit cuts created prior to June 1, 2014. Commencement of the East Area - North – 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 East Area - North – 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 East Area - North – 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 East Area - North – 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. 486-2014

EAST AREA - NORTH, 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. 486-2014

EAST AREA - NORTH, 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-01	Cut Permit Area and Zones East Area - North	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 1195 - COMPLETION DATE: July 11, 2014

Round No. FTEN1

Areas: East - North

Subzones: E1A, E1B, E2A, E2B, E2C, E2D, E3A, E3B, E3C

Sorted by: street name, street number

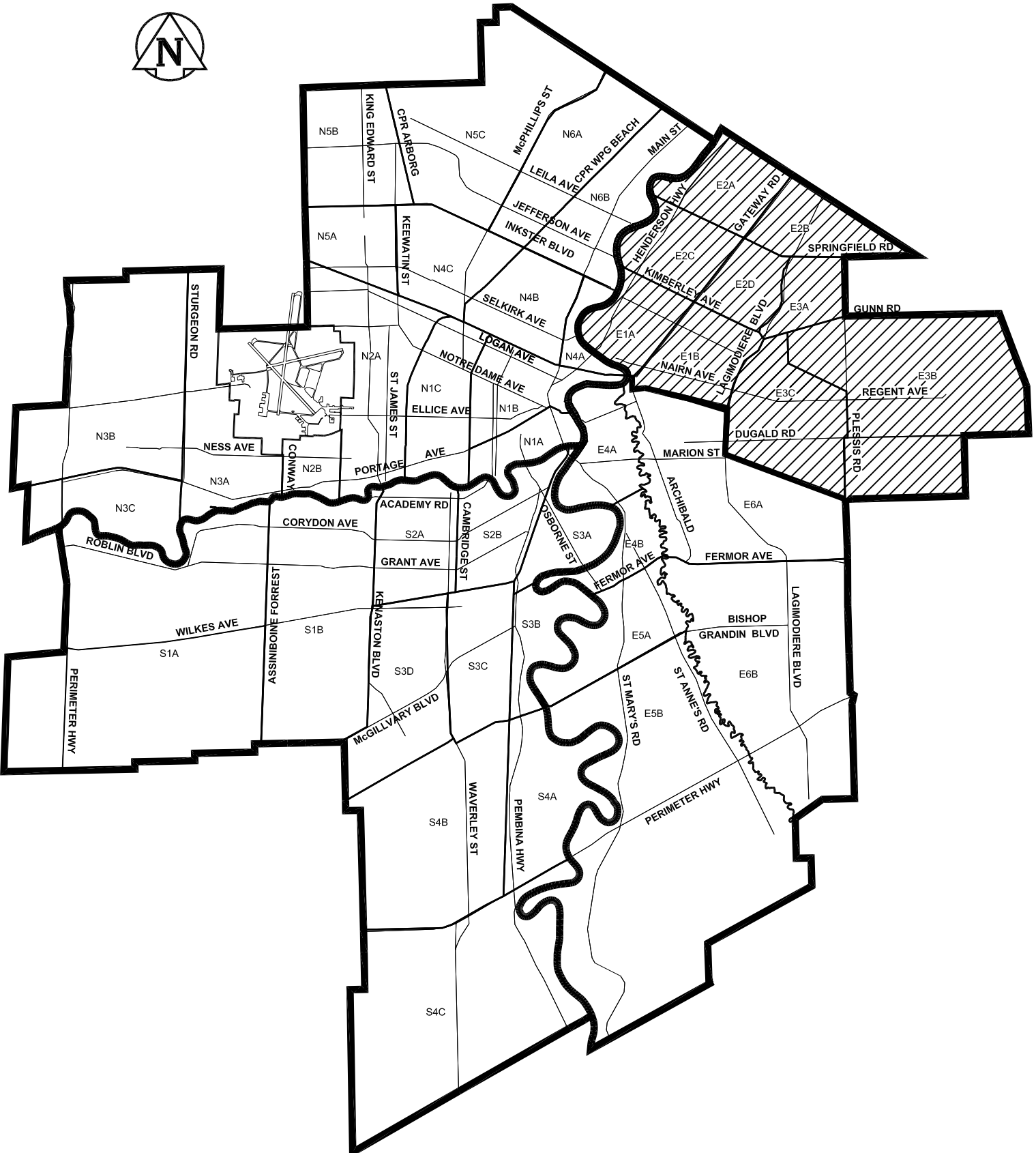
REF_NO	PERMIT_NO	CREATED_DATE	ZONE	LOCATION	APPLICANT	MUD SINK	INSP_COMMENTS
1	106952	Mar 28, 2014	E3B	233 ALEX TAYLOR DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
2	105359	Oct 15, 2013	E3B	160 ALLENBY CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
3	105358	Oct 15, 2013	E2D	70 ANTRIM RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
4	106950	Mar 28, 2014	E3C	835 BARRY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
5	105952	Dec 09, 2013	E1B	729 BEACH AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
6	105195	Sep 26, 2013	E1B	731 BEACH AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13
7	105511	Oct 24, 2013	E1B	880 BEACH AVE [BESIDE 880 BEACH ON KENT @ BACK LANE]	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	9	9
8	106553	Feb 14, 2014	E2B	39 BODIE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
9	106829	Mar 21, 2014	E3B	400 BOND ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
10	105868	Nov 27, 2013	E1A	367 BOWMAN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20
11	106211	Jan 06, 2014	E2A	36 BRAHMS BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	8
12	106142	Dec 19, 2013	E1A	649 BRAZIER ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	22	12
13	106690	Mar 06, 2014	E3B	45 BREWSTER BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
14	107365	May 07, 2014	E3B	52 BREWSTER BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
15	106393	Jan 20, 2014	E3B	18 CAMELOT CRT	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
16	106257	Jan 06, 2014	E3B	34 CAMELOT CRT	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
17	105542	Oct 25, 2013	E1A	198 CHALMERS AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
18	105200	Sep 26, 2013	E2A	4 CHARLES HAWKINS BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	11
19	105191	Sep 26, 2013	E2A	40 CHARLES HAWKINS BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
20	106276	Jan 07, 2014	E2C	254 CHERITON AVE	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	4	4
21	106015	Dec 09, 2013	E3B	606 COLDSTREAM AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
22	107147	Apr 14, 2014	E1B	CONSOL AVE [SOUTH EAST LONDON ST& 772 CONSOLE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
23	106704	Mar 06, 2014	E3B	12 CRANBROOK BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
24	106777	Mar 21, 2014	E3B	23 CROSSGATE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
25	105850	Nov 27, 2013	E3B	27 CROSSGATE RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
26	106819	Mar 21, 2014	E3B	1301 DAY ST [SOUTH SIDE ON HORTON AVE W]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
27	105192	Sep 26, 2013	E3B	97 DEVONSHIRE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	23	23
28	107098	Apr 14, 2014	E2A	301 DONWOOD DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	7
29	107239	May 07, 2014	E3B	155 DOWLING AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
30	106818	Mar 21, 2014	E2C	272 DUNROBIN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
31	106926	Mar 28, 2014	E2C	489 DUNROBIN AVE [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
32	106218	Jan 06, 2014	E2C	117 EADE CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
33	106947	Mar 28, 2014	E2C	125 EADE CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
34	107350	May 07, 2014	E2C	506 EDISON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
35	106047	Dec 09, 2013	E3B	143 EDWARD AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
36	106781	Mar 21, 2014	E3B	145 EDWARD AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
37	105697	Nov 08, 2013	E3B	433 EDWARD AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	36	21
38	106213	Jan 06, 2014	E3B	19 FAIRVIEW DR [& OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	18	18
39	106980	Mar 28, 2014	E2C	300 FEARN AVE [SOUTH EAST BRAZIER& SIDE OF 300 FEARN AVE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
40	106350	Jan 20, 2014	E1B	720 FLEMING AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
41	106158	Dec 19, 2013	E2C	172 FRASER'S GROV	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
42	105853	Nov 27, 2013	E2A	119 GEMINI AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
43	105852	Nov 27, 2013	E1B	GIRDWOOD CRES [NORTH LINE MUNROE AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
44	105826	Nov 27, 2013	E1B	69 GIRDWOOD CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8

45	106143	Dec 19, 2013	E1A	153 GLENWOOD CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
46	106560	Feb 14, 2014	E1A	650 GOLSPIE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	49	10
47	106835	Mar 21, 2014	E2C	504 GREENE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
48	106221	Jan 06, 2014	E1B	535 GREY ST [11M NORTH OF]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
49	106658	Mar 06, 2014	E3B	117 HARVARD AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
50	106649	Mar 06, 2014	E3B	123 HARVARD AVE W [& 122 HARVARD AVE W]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
51	107120	Apr 14, 2014	E2C	338 HAWTHORNE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
52	105874	Nov 27, 2013	E2A	596 HEADMASTER ROW [& HEADMASTER ROW WEST LINE RALEIGH ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
53	106572	Feb 14, 2014	E1A	684 HENDERSON HWY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
54	105513	Oct 24, 2013	E2C	1277 HENDERSON HWY	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	4	4
55	105724	Nov 12, 2013	E3B	701 HOKA ST	CITY OF WINNIPEG - WATER & WASTE - LAND DRAINAGE	7	7
56	106216	Jan 06, 2014	E3B	HORTON AVE W [WEST LINE DAY ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
57	107088	Apr 14, 2014	E3B	143 HORTON AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
58	106593	Feb 14, 2014	E1A	472 JAMISON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
59	106386	Jan 20, 2014	E2D	15 JEFFREY CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	35	24
60	107369	May 07, 2014	E1B	KEENLEYSIDE ST [& WEST LEG PIKE CR]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
61	106477	Jan 31, 2014	E1B	361 KENT RD [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
62	105851	Nov 27, 2013	E1B	393 KENT RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
63	106209	Jan 06, 2014	E3B	19 KERN DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
64	105386	Oct 15, 2013	E3B	25 KERN DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
65	106021	Dec 09, 2013	E3B	233 KILDARE AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
66	106001	Dec 09, 2013	E3B	1004 KILDARE AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15
67	106016	Dec 09, 2013	E2C	823 KILDONAN DR [SIDE OF - ON OAKVIEW AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
68	105214	Sep 26, 2013	E1A	224 KIMBERLY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
69	105418	Oct 15, 2013	E1A	316 KIMBERLY AVE [& 107 KIMBERLY]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14 107-6Sq.m. and 316- 8 Sq.m.
70	106541	Feb 14, 2014	E1A	480 KIMBERLY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	14
71	106120	Dec 19, 2013	E2C	320 KINGSFORD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
72	107223	May 07, 2014	E2C	415 KINGSFORD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
73	105872	Nov 27, 2013	E2C	417 KINGSFORD AVE [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
74	106918	Mar 28, 2014	E3B	30 KOOTENAY CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
75	105413	Oct 15, 2013	E1A	261 LARSEN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
76	106710	Mar 06, 2014	E3B	34 LAURENTIA BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
77	106915	Mar 28, 2014	E2C	100 LEIGHTON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10
78	105354	Oct 15, 2013	E2C	414 LEIGHTON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
79	105399	Oct 15, 2013	E2D	91 LEMMEN DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
80	105362	Oct 15, 2013	E2C	260 LINDEN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
81	105230	Sep 26, 2013	E2C	410 LINDEN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
82	106014	Dec 09, 2013	E2C	540 LINDEN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
83	107067	Apr 14, 2014	E2C	613 LINDEN AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
84	106573	Feb 14, 2014	E1B	464 LOCKSLEY BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
85	105674	Nov 08, 2013	E2D	1027 LONDON ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9 2-PATIO BLOCKS
86	107228	May 07, 2014	E3B	908 MADELINE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
87	106590	Feb 14, 2014	E1B	MANHATTAN AVE [100' WEST OF RAIL ROAD TRACKS]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
88	106159	Dec 19, 2013	E2C	566 MARK PEARCE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10
89	105178	Sep 26, 2013	E2C	625 MARK PEARCE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
90	105958	Dec 09, 2013	E1A	94 MARTIN AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
91	105351	Oct 15, 2013	E2A	318 MCIVOR AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
92	106020	Dec 09, 2013	E2C	223 A MCKAY AVE [& 221 MCKAY AVE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
93	106841	Mar 21, 2014	E2C	225 A MCKAY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
94	106135	Dec 19, 2013	E2C	296 MCKAY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
95	105834	Nov 27, 2013	E2C	300 MCKAY AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
96	106936	Mar 28, 2014	E3B	532 MCMEEANS AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	18	18
97	106539	Feb 14, 2014	E3B	536 MCMEEANS AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15
98	106868	Mar 21, 2014	E1A	562 MELBOURNE AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	58	28
99	105560	Oct 25, 2013	E3B	MELROSE AVE E [WEST LINE WAYOATA ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
100	106427	Jan 31, 2014	E3B	207 MELROSE AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	25	25

101	105177	Sep 26, 2013	E3B	209 A MELROSE AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	31	13
102	106831	Mar 21, 2014	E3B	313 MELROSE AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
103	106474	Jan 31, 2014	E2A	30 MILDRED ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	11
104	106042	Dec 09, 2013	E3B	83 MILLWOOD MEADOW	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
105	106494	Feb 06, 2014	E3B	30 MINIKADA BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	13	13
106	106823	Mar 21, 2014	E3B	91 MINIKADA BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
107	106387	Jan 20, 2014	E3B	151 NEWMAN AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	20	20
108	106000	Dec 09, 2013	E3B	155 NEWMAN AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
109	105710	Nov 08, 2013	E3B	90 NORTHCLIFFE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	25	25 PATIO BLOCKS-5
110	105827	Nov 27, 2013	E3B	91 NORTHCLIFFE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
111	106646	Mar 06, 2014	E1B	712 NOTTINGHAM AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
112	106923	Mar 28, 2014	E1A	307 OTTAWA AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	45	15
113	106780	Mar 21, 2014	E1A	317 OTTAWA AVE [OPPOSITE @ 312 OTTAWA AVE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21	21
114	106552	Feb 14, 2014	E3B	129 PANDORA AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15
115	105193	Sep 26, 2013	E3B	221 PANDORA AVE E [& PANDORA AVE E @ KANATA ST]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	300	223 221-192 Sq.m.@ Kanata- 108b Sq.m.
116	106435	Jan 31, 2014	E3B	621 PANDORA AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
117	106991	Mar 28, 2014	E3B	9 PARADE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
118	106555	Feb 14, 2014	E3B	42 PARADE DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
119	107377	May 07, 2014	E2A	36 PETERS BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	32	32
120	105198	Sep 26, 2013	E3C	1164 PLESSIS RD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
121	106027	Dec 09, 2013	E3B	107 RALPH AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
122	106361	Jan 20, 2014	E3B	109 RALPH AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	11
123	106118	Dec 19, 2013	E3C	15 RANCHGROVE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	14	14
124	105376	Oct 15, 2013	E3C	79 RANCHGROVE BAY	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	28	10 Include rutts
125	106709	Mar 06, 2014	E3B	114 RAVELSTON AVE E [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
126	106391	Jan 20, 2014	E3B	429 RAVELSTON AVE E 1650 REGENT AVE W [& REGENT EAST BOUND CURB LANE OFF PANET RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
127	105387	Oct 15, 2013	E1B	RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	24	24
128	106153	Dec 19, 2013	E2C	ROCH ST [SOUTH LINE DUNBEATH AV]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15
129	106034	Dec 09, 2013	E2D	92 ROCKSPUR ST [2 cuts, 1 opp.]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	28	6
130	107112	Apr 14, 2014	E3B	ROSSEAU AVE W [NORTH WEST HOKA]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
131	106032	Dec 09, 2013	E3B	335 ROSSEAU AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
132	105367	Oct 15, 2013	E3B	337 ROSSEAU AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	18	12
133	106250	Jan 06, 2014	E3B	701 ROSSEAU AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	12	12
134	106146	Dec 19, 2013	E2A	2028 ROTHESAY ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
135	105891	Nov 27, 2013	E1B	624 SIMPSON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
136	107107	Apr 14, 2014	E3B	34 ST CLAIRE BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
137	107235	May 07, 2014	E3B	90 ST MARTIN BLVD [& 110 ST MARTIN BLVD] 178 ST MARTIN BLVD [ALSO SOUTH EAST ST MARTIN BLVD & CROSSGATE RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	16	16
138	105667	Nov 08, 2013	E3B	RD]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	11	11 178-8 Sq.m. and CROSSGATE- 3 Sq.m.
139	105569	Oct 25, 2013	E3B	238 ST MARTIN BLVD	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
140	105679	Nov 08, 2013	E2A	35 STONEHAM CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	10	10
141	105239	Sep 26, 2013	E2A	276 STROOD AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	21	21
142	107233	May 07, 2014	E1A	SYDNEY AVE [SOUTH EAST BRAZIER]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	8	8
143	106778	Mar 21, 2014	E1A	40 TALBOT AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
144	106854	Mar 21, 2014	E3A	79 TERRY SCOTT BAY [OPPOSITE]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	15	15 Location under construction May 2, 2014, CK.
145	107348	May 07, 2014	E1A	400 THAMES AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
146	106255	Jan 06, 2014	E2D	22 TOMLINSON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	4
147	106852	Mar 21, 2014	E1A	264 TRENT AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
148	107241	May 07, 2014	E1B	2 TUDOR CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
149	105363	Oct 15, 2013	E2A	75 UXBRIDGE RD N	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	9	9
150	107360	May 07, 2014	E3B	426 VICTORIA AVE W	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
151	106364	Jan 20, 2014	E3B	1121 WABASHA ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
152	106942	Mar 28, 2014	E3B	18 WALDEN CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
153	106821	Mar 21, 2014	E3B	39 WALDEN CRES	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
154	106383	Jan 20, 2014	E1A	482 WASHINGTON AVE	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	47	33
155	105957	Dec 09, 2013	E2C	925 WATT ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5

156	106839	Mar 21, 2014	E3B	WAYOATA ST [SOUTH OF REGENT AVE E]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	5	5
157	106428	Jan 31, 2014	E3B	605 WAYOATA ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
158	105846	Nov 27, 2013	E2A	39 WILLART PL	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	19	19
159	105681	Nov 08, 2013	E3B	19 WILLIS WYATT PL	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
160	106851	Mar 21, 2014	E2C	991 WOODVALE ST	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
161	107359	May 07, 2014	E3B	39 WYNFORD DR	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	4	4
162	106447	Jan 31, 2014	E3B	519 YALE AVE E [& 521 YALE AVE E]	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	7	7
163	106768	Mar 21, 2014	E3B	527 YALE AVE E	CITY OF WINNIPEG - WATER & WASTE - WATER SERVICES	6	6
						Total = 1677	

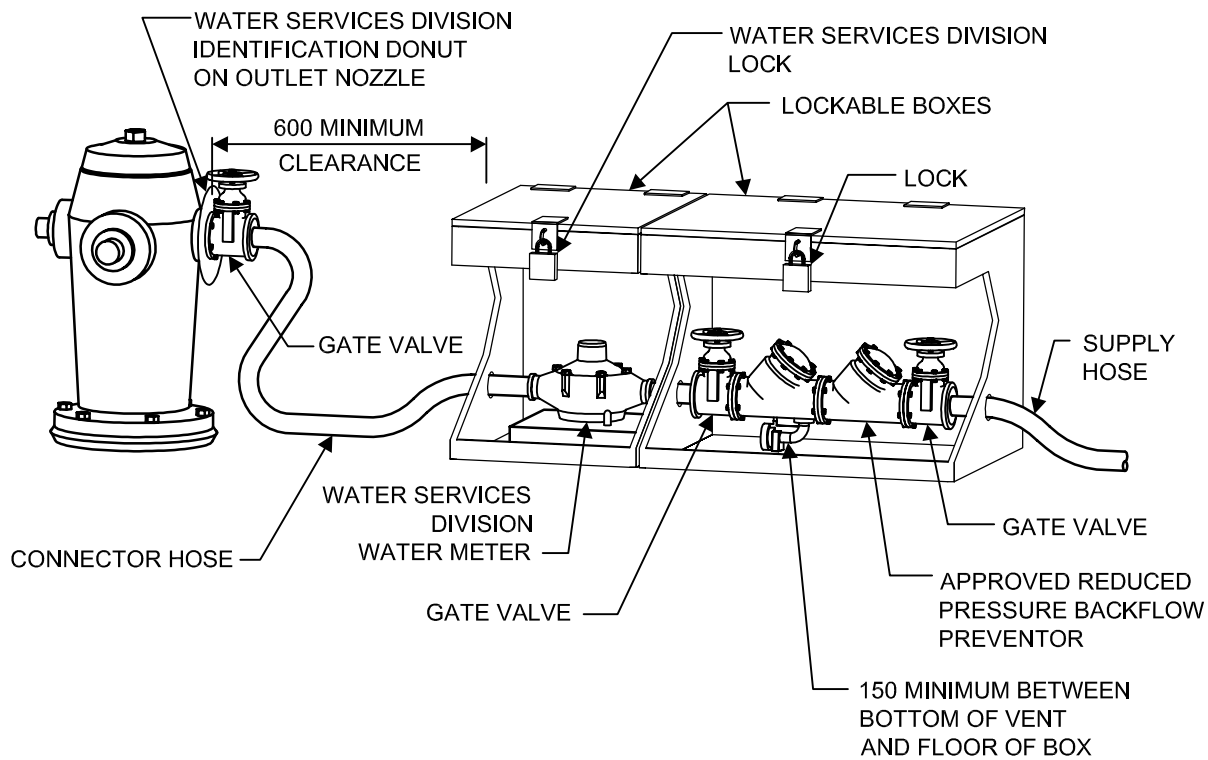
EAST AREA - North



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

CUT PERMIT AREA AND ZONES EAST AREA - North

Drawing No.
WWD-ENG-01



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

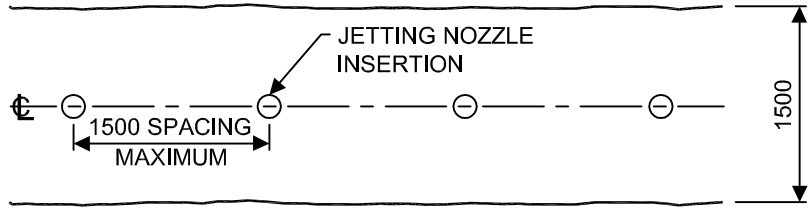
Revised:

Scale:

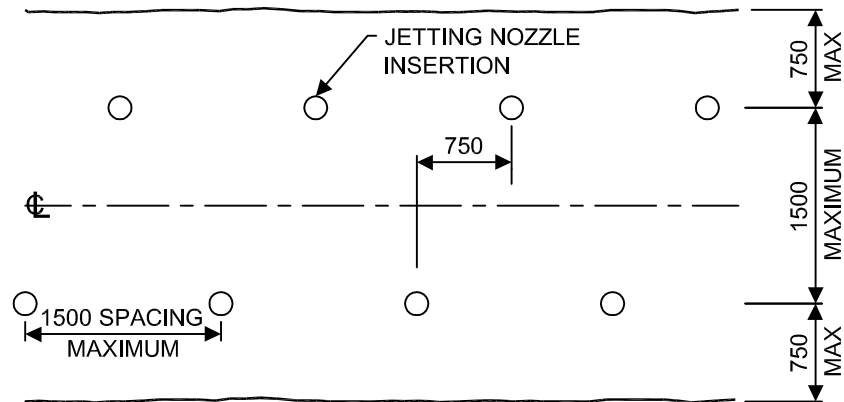
N.T.S.

Drawing No.

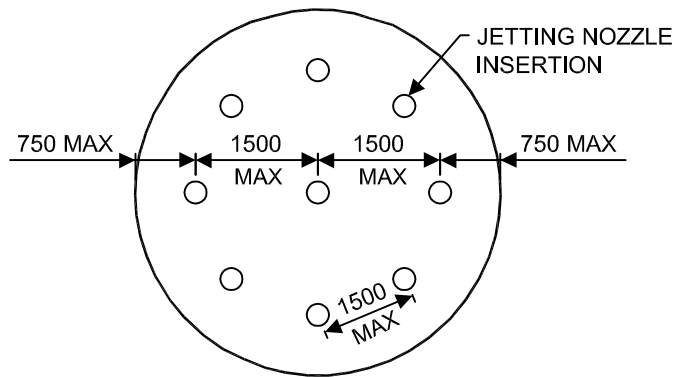
SD-019



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