



**THE CITY OF WINNIPEG**

# **BID OPPORTUNITY**

**BID OPPORTUNITY NO. 400-2018**

**SNOW CLEARING ON COLLECTOR AND LOCAL STREETS, BACK LANES AND  
SIDEWALKS WITHIN THE EAST AREA (SOUTH EAST)**

**Note to Bidders: Please be aware of revisions to B13.4**

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## **PART B - BIDDING PROCEDURES**

### **B1. CONTRACT TITLE**

B1.1 SNOW CLEARING ON COLLECTOR AND LOCAL STREETS, BACK LANES AND SIDEWALKS WITHIN THE EAST AREA (SOUTH EAST)

### **B2. SUBMISSION DEADLINE**

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, July 24, 2018.

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 promptly notify the Contract Administrator of the error, discrepancy or omission at least five (5) Business Days prior to the Submission Deadline.

B3.3 If the Bidder is unsure of the meaning or intent of any provision therein, the Bidder should request clarification as to the meaning or intent prior to the Submission Deadline.

B3.4 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.

B3.5 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.

B3.6 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/bidopp.asp>
- 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.
- B5.3 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 six (6) Business Days prior to the Submission Deadline.
- B6.4 The Bidder shall ensure that any and all requests for approval of a substitute:
- (a) provide sufficient information and details to enable the Contract Administrator to determine the acceptability of the Plant, Material or method as either an approved equal or alternative;
  - (b) identify any and all changes required in the applicable Work, and all changes to any other Work, which would become necessary to accommodate the substitute;
  - (c) identify any anticipated cost or time savings that may be associated with the substitute;
  - (d) certify that, in the case of a request for approval as an approved equal, the substitute will fully perform the functions called for by the general design, be of equal or superior substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance;
  - (e) certify that, in the case of a request for approval as an approved alternative, the substitute will adequately perform the functions called for by the general design, be similar in substance to that specified, is suited to the same use and capable of performing the same function as that specified and can be incorporated into the Work, strictly in accordance with the proposed work schedule and the dates specified in the Supplemental Conditions for Substantial Performance and Total Performance.
- B6.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his/her sole discretion grant approval for the use of a substitute as an "approved equal" or as an "approved alternative", or may refuse to grant approval of the substitute.
- B6.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, to the Bidder who requested approval of the substitute.

- B6.6.1 The Contract Administrator will issue an Addendum, disclosing the approved materials, equipment, methods and products to all potential Bidders. The Bidder requesting and obtaining the approval of a substitute shall be responsible for disseminating information regarding the approval to any person or persons he/she wishes to inform.
- B6.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B6.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his/her Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B16.
- B6.9 No later claim by the Contractor for an addition to the Total Bid Price because of any other changes in the Work necessitated by the use of an approved equal or an approved alternative will be considered.
- B6.10 Notwithstanding B6.2 to B6.9, and in accordance with B7.8, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B15.1(a).

## **B7. BID SUBMISSION**

- 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.
- B7.4 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B7.5 If the Bid 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 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 If the Bid is submitted by facsimile transmission, it shall be submitted to 204-949-1178.
- B7.6.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B7.7 Bidders are advised not to include any information/literature except as requested in accordance with B7.1.
- B7.8 Bidders are advised that inclusion of terms and conditions inconsistent with the Bid Opportunity document, including the General Conditions, will be evaluated in accordance with B16.1(a)
- B7.9 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 11 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. DISCLOSURE**

B10.1 Various Persons provided information or services with respect to this Work. In the City's opinion, this relationship or association does not create a conflict of interest because of this full disclosure. Where applicable, additional material available as a result of contact with these Persons is listed below.

B10.2 The Persons are:

- (a) N/A

## **B11. CONFLICT OF INTEREST AND GOOD FAITH**

B11.1 Bidders, by responding to this Bid Opportunity, declare that no Conflict of Interest currently exists, or is reasonably expected to exist in the future.

B11.2 Conflict of Interest means any situation or circumstance where a Bidder or employee of the Bidder proposed for the Work has:

- (a) other commitments;
- (b) relationships;
- (c) financial interests; or
- (d) involvement in ongoing litigation;

that could or would be seen to:

- (i) exercise an improper influence over the objective, unbiased and impartial exercise of the independent judgment of the City with respect to the evaluation of Bids or award of the Contract; or
- (ii) compromise, impair or be incompatible with the effective performance of a Bidder's obligations under the Contract;
- (e) has contractual or other obligations to the City that could or would be seen to have been compromised or impaired as a result of its participation in the Bid Opportunity process or the Work; or
- (f) has knowledge of confidential information (other than confidential information disclosed by the City in the normal course of the Bid Opportunity process) of strategic and/or material relevance to the Bid Opportunity process or to the Work that is not available to other bidders and that could or would be seen to give that Bidder an unfair competitive advantage.

B11.3 In connection with its Bid, each entity identified in B11.2 shall:

- (a) avoid any perceived, potential or actual Conflict of Interest in relation to the procurement process and the Work;
- (b) upon discovering any perceived, potential or actual Conflict of Interest at any time during the Bid Opportunity process, promptly disclose a detailed description of the Conflict of Interest to the City in a written statement to the Contract Administrator; and
- (c) provide the City with the proposed means to avoid or mitigate, to the greatest extent practicable, any perceived, potential or actual Conflict of Interest and shall submit any additional information to the City that the City considers necessary to properly assess the perceived, potential or actual Conflict of Interest.

B11.4 Without limiting B11.3, the City may, in its sole discretion, waive any and all perceived, potential or actual Conflicts of Interest. The City's waiver may be based upon such terms and conditions as the City, in its sole discretion, requires to satisfy itself that the Conflict of Interest has been appropriately avoided or mitigated, including requiring the Bidder to put into place such policies, procedures, measures and other safeguards as may be required by and be acceptable to the City, in its sole discretion, to avoid or mitigate the impact of such Conflict of Interest.

- B11.5 Without limiting B11.3, and in addition to all contractual or other rights or rights at law or in equity or legislation that may be available to the City, the City may, in its sole discretion:
- (a) disqualify a Bidder that fails to disclose a perceived, potential or actual Conflict of Interest of the Bidder or any of its employees proposed for the Work;
  - (b) require the removal or replacement of any employees proposed for the Work that has a perceived, actual or potential Conflict of Interest that the City, in its sole discretion, determines cannot be avoided or mitigated;
  - (c) disqualify a Bidder or employees proposed for the Work that fails to comply with any requirements prescribed by the City pursuant to B11.4 to avoid or mitigate a Conflict of Interest; and
  - (d) disqualify a Bidder if the Bidder, or one of its employees proposed for the Work, has a perceived, potential or actual Conflict of Interest that, in the City's sole discretion, cannot be avoided or mitigated, or otherwise resolved.
- B11.6 The final determination of whether a perceived, potential or actual Conflict of Interest exists shall be made by the City, in its sole discretion.

## **B12. QUALIFICATION**

- B12.1 The Bidder shall:
- (a) undertake to be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Bidder does not carry on business in Manitoba, in the jurisdiction where the Bidder does carry on business; and
  - (b) be financially capable of carrying out the terms of the Contract; and
  - (c) have all the necessary experience, capital, organization, and equipment to perform the Work in strict accordance with the terms and provisions of the Contract.
- B12.2 The Bidder and any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) be responsible and not be suspended, debarred or in default of any obligations to the City. A list of suspended or debarred individuals and companies is available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/debar.stm>
- B12.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:
- (a) have successfully carried out work similar in nature, scope and value to the Work; and
  - (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract;
  - (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba);
  - (d) have performed snow clearing services under contract that utilize similar equipment complement as stated in E4.1.
- B12.4 Further to B12.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:
- (a) Written confirmation of a safety and health certification meeting SAFE Work Manitoba's SAFE Work Certified Standard (e.g., COR™ and SECOR™) or

- (i) 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
  - (ii) 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
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt/>).

B12.5 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.

B12.6 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.

### **B13. OPENING OF BIDS AND RELEASE OF INFORMATION**

B13.1 Bid Submissions will not be opened publicly.

B13.2 Following the Submission Deadline, the names of the Bidders and their 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/>

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

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

B13.4.1 To the extent permitted, the City shall treat as confidential information, those aspects of a Bid Submission identified by the Bidder as such in accordance with and by reference to Part 2, Section 17 or Section 18 or Section 26 of The Freedom of Information and Protection of Privacy Act (Manitoba), as amended.

### **B14. IRREVOCABLE BID**

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

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

## **B15. WITHDRAWAL OF BIDS**

- B15.1 A Bidder may withdraw his/her Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.
- B15.1.1 Notwithstanding C22.5, the time and date of receipt of any notice withdrawing a Bid shall be the time and date of receipt as determined by the Manager of Materials.
- B15.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 11 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B15.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
  - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 11 of Form A: Bid; and
  - (c) if the notice has been given by any one of the persons specified in B15.1.3(b), declare the Bid withdrawn.
- B15.2 A Bidder who withdraws his/her Bid after the Submission Deadline but before his/her Bid has been released or has lapsed as provided for in B14.2 shall be liable for such damages as are imposed upon the Bidder by law and subject to such sanctions as the Chief Administrative Officer considers appropriate in the circumstances. The City, in such event, shall be entitled to all rights and remedies available to it at law.

## **B16. EVALUATION OF BIDS**

- B16.1 Award of the Contract shall be based on the following bid evaluation criteria:
- (a) compliance by the Bidder with the requirements of the Bid Opportunity, or acceptable deviation therefrom (pass/fail);
  - (b) qualifications of the Bidder and the Subcontractors, if any, pursuant to B12 (pass/fail);
  - (c) Total Bid Price;
  - (d) economic analysis of any approved alternative pursuant to B6;
- B16.2 Further to B16.1(a), the Award Authority may reject a Bid as being non-responsive if the Bid Submission is incomplete, obscure or conditional, or contains additions, deletions, alterations or other irregularities. The Award Authority may reject all or any part of any Bid, or waive technical requirements or minor informalities or irregularities if the interests of the City so require.
- B16.3 Further to B16.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his/her Bid or in other information required to be submitted, that he/she is responsible and qualified.
- B16.4 Further to B16.1(c), the Total Bid Price shall be the sum of the quantities multiplied by the unit prices for each item shown on Form B: Prices.
- B16.4.1 Further to B16.1(a), in the event that a unit price is not provided on Form B: Prices, the City will determine the unit price by dividing the Amount (extended price) by the approximate quantity, for the purposes of evaluation and payment.
- B16.5 This Contract will be awarded as a whole.

## **B17. AWARD OF CONTRACT**

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

- B17.2 The City will have no obligation to award a Contract to a Bidder, even though one or all of the Bidders are determined to be responsible and qualified, and the Bids are determined to be responsive.
- B17.2.1 Without limiting the generality of B17.2, the City will have no obligation to award a Contract where:
- (a) the prices exceed the available City funds for the Work;
  - (b) the prices are materially in excess of the prices received for similar work in the past;
  - (c) the prices are materially in excess of the City's cost to perform the Work, or a significant portion thereof, with its own forces;
  - (d) only one Bid is received; or
  - (e) in the judgment of the Award Authority, the interests of the City would best be served by not awarding a Contract.
- B17.3 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 B16 .
- B17.3.1 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.
- B17.4 Notwithstanding C4.1, the City may issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B17.5 The Contract Documents, as defined in C1.1(n)(ii), in their entirety shall be deemed to be incorporated in and to form a part of the Purchase Order notwithstanding that they are not necessarily attached to or accompany said Purchase Order.

## PART C - GENERAL CONDITIONS

### C0. GENERAL CONDITIONS

- C0.1 The *General Conditions for Supply of Services* (Revision 2007 04 12) are applicable to the Work of the Contract.
- C0.1.1 The *General Conditions for Supply of Services* are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at [http://www.winnipeg.ca/matmgt/gen\\_cond.stm](http://www.winnipeg.ca/matmgt/gen_cond.stm)
- C0.2 A reference in the Bid Opportunity to a section, clause or subclause with the prefix “**C**” designates a section, clause or subclause in the *General Conditions for Supply of Services*.

## PART D - SUPPLEMENTAL CONDITIONS

### GENERAL

#### D1. GENERAL CONDITIONS

D1.1 In addition to the *General Conditions for Supply of Services*, 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 snow clearing supplemental to the City of Winnipeg's snow clearing operations for the period of October 15, 2018 to April 15, 2022, with a one (1) year extension at the option of the City, under mutually agreeable terms.

D2.1.1 Snow clearing shall be performed on those bus route and collector streets, residential streets, back lanes and sidewalks listed in Appendix A, Appendix B, shown on Drawing 1, Drawing 2, and Drawing 3, where full width snow clearing is required on all or a major portion of the above streets.

D2.2 The Contractor shall perform the Work of this Contract on an "as-required" basis for four (4) winter seasons from October 15, 2018 to April 15, 2022 except as hereinafter specified:

- (a) the Contractor may be required to remove snow which has fallen prior to October 15th and is on the streets as of that date;
- (b) the Contractor shall continue and complete all authorized Work for a snowfall that begins on or before April 15th, notwithstanding that the Work occurs after April 15th; and,
- (c) the Contractor shall remedy all damage and deficiencies such as curb damage by June 30th following the Contract year;
- (d) the above requirements will apply also to any extension mutually agreed upon.

D2.3 The major components of the Work are as follows:

- (a) full width snow clearing on the Priority II (Bus Routes and Collectors) Streets System identified in Appendix B and Drawing 1;
- (b) full width snow clearing on the Priority III (Residential) Street System identified in Appendix C and Drawing 1;
- (c) 2.7 metre width snow clearing on back lanes identified on Drawing 2;
- (d) 1.5 metre width snow clearing on sidewalks on Priority II and III streets identified on Drawing 3;
- (e) opening and keeping streets and lanes open during a major snowfall and/or snow blizzard;
- (f) snow clearing using truck plows on the Priority II and Priority III streets noted in Appendices A and B and identified on Drawing 1;
- (g) other winter maintenance activities as required between major snowfalls.

D2.4 The Contract Administrator reserves the right to perform routine winter maintenance on the streets listed in Appendices A and B, shown on Drawing 1, back lanes shown on Drawing 2, and sidewalks shown on Drawing 3 using City forces. Routine winter maintenance includes:

- (a) curb lane spot plowing of street sections;
- (b) full width spot plowing of street sections;
- (c) spot plowing of back lane sections;
- (d) spot plowing of sidewalk sections;
- (e) curb lane truck plowing;
- (f) full width truck plowing;

- (g) widening for snow storage;
- (h) snow hauling;
- (i) clearing of drainage inlets in spring.

### D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) **"User"** means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract.
- (b) **"Highway"** means any place or way, including any structure forming part thereof, which or any part of which the public is ordinarily entitled or permitted to use for the passage of vehicles or pedestrians, with or without fee or charge therefore, and includes all the space between the boundary lines thereof, whether or not used for vehicular or pedestrian traffic; and, without restricting the generality of the foregoing, includes roads, road allowances, streets, lanes, thoroughfares and other means of communication dedicated to the public use as highways as so defined, and also includes all bridges, subways, underpasses, grade separations, piers, wharves, ferries, and squares, and the road improvements thereon, dedicated to the public use.
- (c) **"Roadway"** means the paved portion of the street that is used exclusively for the passage of motorized vehicles.
- (d) **"Street"** means a highway over which the City of Winnipeg has jurisdiction.
- (e) **"Sidewalk"** means the paved portion of the street that is used exclusively for a passage of pedestrians.
- (f) **"Back lane"** means a highway situated wholly within the limits of any city, town or village or restricted speed area or reduced restricted speed area which has been designated, constructed and intended to provide access to and service at the rear of places of residence or business and includes alleys having a right-of-way width of not more than 9 metres.
- (g) **"Boulevard"** means the area between the street line and the nearest edge of a roadway and/or the area separating the roadways or a divided highway.
- (h) **"Street Right-of-Way"** means the limit of the publicly-owned land acquired for and devoted to streets, boulevards, appurtenances, as well as underground facilities.
- (i) **"Private approach"** and **"Approach"** means a roadway, culvert crossing or other structure theretofore and hereafter, erected, installed or maintained in a street between the property of an owner and the nearest curb or edge of a roadway in the said street, for the use or benefit of the owner or occupant of the property adjoining or connected therewith, but does not include a roadway or other structure constructed for such purpose within an alley.
- (j) **"Traffic lane"** means a 3.6 metre or greater width of pavement.
- (k) **"Pavement"** or the adjective "Paved" when used to describe a street, road, alley or other area, means an area which has a surface constructed of Portland Cement concrete, asphaltic concrete, brick, tile or similar material.
- (l) **"Bare pavement"** means that the Contractor shall endeavour to completely clear the full pavement width of snow.
- (m) **"Face to face"** of curb on Priority I and II streets means the periodic exposure of the barrier curb vertical face with a maximum horizontal deviation of 150 mm (6 inches). This will enable the full width of the curb lane to be available for vehicular traffic.
- (n) **"Face to face"** of curb on Priority III streets means the periodic exposure of the top of the roll curb with a maximum horizontal deviation of 300 mm (12 inches) from the top of the curb into the traffic lane. Where barrier curb exists on Priority III streets, "face to face" curb means the periodic exposure of the barrier curb vertical face with a maximum horizontal deviation of 150 mm (6 inches).

- (o) "**Hauling**" means the relocation of cleared snow volumes by equipment normally employed for the snow clearing activity, but does not include the use of trucks.
- (p) "**Hauling away**" means the relocation of cleared snow volumes by use of trucks for purposes of transporting to a distant storage location.
- (q) "**Snow**" means all forms of frozen precipitation including ice associated with such snow.
- (r) "**Wing Back**" means the Contractor shall push back the windrow to create storage space for snow in future plowing operations.
- (s) "**Cross walk**" means any sidewalk at street intersections or at signed corridors.
- (t) "**Compacted snow surface**" of back lanes means a level, dense compacted layer of snow that will only allow minimal rutting from vehicular traffic and has a maximum thickness of 200mm from the compacted snow surface to underlying pavement.
- (u) "**Clearing Operation**" In this Contract, means each such direction by the Contract Administrator for clearing and hauling services for snow removal and the performance thereof by the Contractor.

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

D4.1 The Contract Administrator is:

Jean-Luc Lambert, P.Eng.  
Support Services Engineer

Telephone No. 204- 986-7087

Email Address: jeanlambert@winnipeg.ca

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

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

D5.1 Further to C6.19, the Contractor shall employ and keep on the Work, at all times during the performance of the Work, a competent supervisor and assistants, if necessary, acceptable to the Contract Administrator. The supervisor shall represent the Contractor on the Site. The supervisor shall not be replaced without the prior consent of the Contract Administrator unless the supervisor proves to be unsatisfactory to the Contractor and ceases to be in his/her employ.

D5.2 Before commencement of Work, the Contractor shall identify his/her designated supervisor and any additional personnel representing the Contractor and their respective roles and responsibilities for the Work.

D5.2.1 Further to C5.5 Contract Administrator may give instructions or orders to the Contractor's supervisor and such instructions or orders shall be deemed to have been given to the Contractor.

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

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

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

D6.3 The following shall be confidential and shall not be disclosed by the Contractor to the media or any member of the public without the prior written authorization of the Contract Administrator;

- (a) information provided to the Contractor by the City or acquired by the Contractor during the course of the Work;

- (b) the Contract, all deliverables produced or developed; and
- (c) any statement of fact or opinion regarding any aspect of the Contract.

D6.4 A Contractor who violates any provision of D6 may be determined to be in breach of Contract.

#### **D7. OPERATOR'S COMPETENCE AND PERFORMANCE**

D7.1 The Contractor's operator shall maintain all equipment/trucks in good working order and shall perform all obligations expressed and implied in this Bid Opportunity in a good, safe and workmanlike manner. Where, in the opinion of the City Inspector, an operator fails to meet the obligations expressed or implied in this Bid Opportunity, and without limited the generality of the foregoing, the operator is:

- (a) unqualified, or
- (b) operating in an unsafe manner, or
- (c) not performing a satisfactory amount of Work, or
- (d) engaged in activity outside the City's interests.

D7.2 The equipment/truck and operator may be dismissed immediately and shall not be re-engaged until such time as the inadequacies that resulted in the dismissal have been remedied to the sole satisfaction of the Contract Administrator.

#### **D8. NOTICES**

D8.1 Notwithstanding C22.3, all notices of appeal to the Chief Administrative Officer shall be sent to the attention of the Chief Financial Officer.

#### **SUBMISSIONS**

#### **D9. AUTHORITY TO CARRY ON BUSINESS**

D9.1 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.

#### **D10. INSURANCE**

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

- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, contractual liability, unlicensed equipment liability (Contractor's equipment) non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
- (b) 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 Service. 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;

D10.2 Deductibles for commercial general liability must be expressly stated on the certificate of insurance and must not exceed \$5,000.00.

D10.3 Deductibles shall be borne by the Contractor.

- D10.4 The certificate must clearly state: "Operations include snow removal on City right-of-way's during winter months" (i.e. insurance to cover snow removal and ice control of streets, roadways, back lanes/alleys, sidewalks, etc.). And confirmation that the operations include loading, unloading, hauling and dumping.
- D10.5 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 on the Site but in no event later than the date specified in C4.1 for the return of the executed Contract.
- D10.6 The Contractor shall not cancel, materially alter, or cause the policy to lapse without providing at least thirty (30) Calendar Days prior written notice to the Contract Administrator.

## **SCHEDULE OF WORK**

### **D11. COMMENCEMENT**

- D11.1 The Contractor shall not commence any Work until he/she is in receipt of a notice of award from the City 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 D9;
    - (ii) evidence of the workers compensation coverage specified in C6.14; and
    - (iii) evidence of the insurance specified in D10.
  - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

### **D12. TOTAL PERFORMANCE**

- D12.1 The Contractor shall achieve Total Performance by June 30, 2022, for work specified in D2.
- D12.2 When the Contractor or the Contract Administrator considers the Work to be totally performed, the Contractor shall arrange, attend and assist in the inspection of the Work with the Contract Administrator for purposes of verifying Total Performance. Any defects or deficiencies in the Work noted during that inspection shall be remedied by the Contractor at the earliest possible instance and the Contract Administrator notified so that the Work can be reinspected.
- D12.3 The date on which the Work has been certified by the Contract Administrator as being totally performed to the requirements of the Contract through the issue of a certificate of Total Performance is the date on which Total Performance has been achieved.

## **CONTROL OF WORK**

### **D13. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)**

- D13.1 Further to C6.23, 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).

### **D14. THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA) – QUALIFICATIONS**

- D14.1 Further to B12.4, the Contractor/Subcontractor must, throughout the term of the Contract, have a Workplace Safety and Health Program meeting the requirements of The Workplace Safety and Health Act (Manitoba). At any time during the term of the Contract, the City may, at its sole discretion and acting reasonably, require updated proof of compliance, as set out in B12.4.

**D15. SAFETY**

- D15.1 The Contractor shall be solely responsible for safety at the Site and for compliance with all laws, rules, regulations and practices required by the applicable safety legislation.
- D15.2 The Contractor shall be solely responsible for securing the Site, and any existing facility thereon, and for the proper care and protection of the Work already performed.
- D15.3 The Contractor shall do whatever is necessary to ensure that:
- (a) no person, property, right, easement or privilege is injured, damaged or infringed by reason of the Contractor's activities in performing the Work;
  - (b) the health and safety of all persons employed in the performance of the Work or otherwise is not endangered by the method or means of its performance;
  - (c) adequate medical services are available to all persons employed on the Work and at all times during the performance of the Work;
  - (d) adequate sanitation measures are taken with respect to the Work; and
  - (e) pedestrian and other traffic on any public or private road is not unduly endangered by the performance of the Work.

**MEASUREMENT AND PAYMENT**

**D16. PAYMENT**

- D16.1 Further to C11, the City may at its option pay the Contractor by direct deposit to the Contractor's banking institution.

## PART E - SPECIFICATIONS

### GENERAL

#### E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 These Specifications shall apply to the Work.

E1.2 The following are applicable to the Work:

<u>Drawing No.</u>	<u>Drawing Name/Title</u>
1	East Area (South East) Snow Clearing Priority Streets
2	East Area (South East) Snow Clearing Back Lanes
3	East Area (South East) Snow Clearing Sidewalks

E1.3 Bidders are reminded that requests for approval of substitutes as an approved equal or an approved alternative shall be made in accordance with B6.

#### E2. SNOW CLEARING REQUIREMENTS

E2.1 General Work

E2.1.1 The entire shoulder width of highway type pavement shall be cleared of snow during the snow clearing operation.

E2.1.2 The entire length of the curb along the centre median shall be cleared to the face of the curb.

E2.1.3 Snow shall be cleared from centre median crosswalks and shall be stored on the side boulevards.

E2.1.4 Snow from centre median openings and traffic storage lanes shall be removed and stored in the side boulevards.

E2.1.5 Windrows at all intersections, cross walks, corridors, railway crossing and private approaches shall be removed in the initial clearing operations. The windrows shall be pushed downstream of traffic or into available storage area on the street right-of-way in order to eliminate blind spots for motorists. Snow shall not be placed on boulevards at or near corners so as to block visibility of vehicles moving through the intersection.

E2.1.6 Windrows at pedestrian corridors shall be cleared for a distance of fifteen (15) metres approaching the corridor and five (5) metres leaving the corridor on undivided roadways and for a distance of fifteen (15) metres approaching the corridor on divided roadways.

E2.1.7 Windrows at bus stops shall be removed to a distance specified in E2.1.7(i) or E2.1.7(ii) from the bus stop sign. The bus stop platform and walk area connecting to the adjacent sidewalk shall be level to provide a safe footing for pedestrians.

(i) At bus stops that accommodates a non-articulated bus the windrow shall be removed to a distance of twelve (12) meters upstream of the bus stop sign;

(ii) At bus stops that accommodates an articulated bus the windrow shall be removed to a distance of eighteen (18) meters upstream of the bus stop sign;

E2.1.8 Snow windrows at hydrants shall be removed one (1) loader bucket width.

E2.1.9 Snow windrows shall be removed a loader bucket width and a path cleared by back blading to a hard surface from the curb to the sidewalk at a limited number of locations designated as handicapped access. Actual addresses will be supplied to the Contractor after Contract award.

- E2.1.10 Snow shall be removed around all G.R.E.A.T. (Guard Rail Energy Absorbing Terminal), Energite Barrel installations and between the curb and any adjacent guard rail that is within 3m of the curb and in the right-of-way. The G.R.E.A.T. units are used as crash cushions on the ends of guard rails to avoid abrupt stoppage of a vehicle. The Energite Barrel installations are used as crash cushions near overhead signs or any posts which do not have breakaway bases. This Work must be done carefully (by hand where necessary) such that the installations are not hit by snow clearing equipment or left covered in snow. The location of a limited number of installations will be supplied to the Contractor after the award.
- E2.1.11 Where adequate storage exists adjacent to the street, snow spillage onto the street as a result of the snow clearing operation shall be removed immediately by the Contractor. Any snow not removed may be removed by the City and the cost of the Work charged to the Contractor.
- E2.1.12 The City reserves the right, at its sole discretion, to allow windrow snow storage on the curb lane where no storage exists, provided that a reasonable attempt, satisfactory to the Contract Administrator or his designate, is made to minimize the extent of the encroachment during the Contractor's snow clearing operation. This storage shall only be utilized when specifically directed to do so by the Contract Administrator or his designate and only during unusual snow and blizzard conditions.
- E2.1.13 Snow shall not be deposited on islands between a yield or turnoff and the main roadway.
- E2.1.14 Snow shall not be stored or deposited on private property.
- E2.1.15 Snow from snow clearing operations shall not be deposited in sidewalk areas. All blocked sidewalk ends at intersections must be immediately cleared of snow in order to provide access for pedestrians and sidewalk plows. Any snow not immediately removed may be removed by the City and the resulting cost of the Work charged against the Contractor.
- E2.1.16 Snow from intersection windrows shall not be placed in bus stop areas.
- E2.1.17 The Contractor shall remove snow from the centre median (median cut) for snow storage and snow thaw purposes as directed by the Contract Administrator. The median cut shall be to a width of 0.6 m from the curb face and shall not expose, but be within 100 mm of the median surface. The median cut shall be carried out in conjunction with the adjacent grader plow operations, and shall be included in the lane km price.
- E2.1.18 Snow removal at traffic circles shall include the removal of snow from the inner shoulder area, which shall be considered incidental to the full width snow clearing operation.
- E2.1.19 Work for each snow clearing operation shall commence only upon the instructions of the Contract Administrator.
- E2.1.20 Normally, Priority I (Regional) Streets shall receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) Streets and then Priority III (Residential) Streets. However, the Contact Administrator may direct otherwise and the Contractor shall conform to all such directives, either oral or written.
- E2.1.21 Back lane and sidewalk snow clearing operations will normally be undertaken concurrently with street and street priority operations. However, the Contract Administrator may direct otherwise and the contractor shall conform to all such directives.
- E2.1.22 The Contractor shall respond immediately to rectify snow clearing deficiencies which generate citizens' complaints. If in the opinion of the Contract Administrator, the response is inadequate, then the City shall have the option of performing the necessary Work and the costs of such Work shall be borne by the Contractor.
- E2.1.23 The Contractor shall coordinate residential plowing location to minimize conflicts with the Waste/Recycling collection. Where conflicts are unavoidable the Contract Administrator will give instructions to the Contractor to relocate Waste/Recycling containers during the plowing operations. The relocation work shall consist of moving the container behind area affected by snow clearing and then placing it back to its original position.

## E2.2 PRIORITY II (BUS ROUTES/COLLECTORS) STREETS (See Appendix A)

E2.2.1 Snow clearing activities on Priority II streets includes:

- (a) full width snow clearing and hauling;
- (b) curb lane snow clearing;
- (c) truck plow snow clearing;
- (d) interim plowing during major snowfalls; and
- (e) other winter maintenance Work.

E2.2.2 Snow clearing on Priority II streets may be required after:

- (a) a recent accumulation of 5 cm or more of snowfall;
- (b) poor street conditions caused by less than 5 cm of recent snow accumulation accompanied by snow drifting; and
- (c) gradual accumulation of snowfall that results in poor street conditions.

E2.2.3 Priority II streets shall be completed within a twenty-four (24) hour period for a clearing operation of a recent accumulation following the time of commencement designated by the Contract Administrator.

E2.2.4 Priority II streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage and perform the 0.6 m median cut as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.

E2.2.5 Payment for the full width snow clearing of Priority II streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.

## E2.3 PRIORITY III (RESIDENTIAL) STREETS (See Appendix B)

E2.3.1 Residential streets shall normally be cleared after:

- (a) a recent snow accumulation of 10 cm or more;
- (b) poor street conditions caused by less than 10 cm of recent snow accumulation accompanied by snow drifting; and
- (c) gradual accumulation of snowfall that results in poor street conditions.

E2.3.2 Residential streets shall normally be cleared after Priority I and II streets.

E2.3.3 Priority III streets shall be completed within a thirty-six (36) hour period following the commencement time designated by the Contract Administrator.

E2.3.4 When Priority III streets are plowed within the same clearing operation as Priority II streets, the Priority III streets shall be completed within sixty (60) hours following the commencement time for the clearing of the Priority II streets.

E2.3.5 Priority III streets shall be cleared to bare pavement over the full pavement width. The Contractor shall wing back snow windrows in order to create the required storage as directed by the Contract Administrator. Where the Contractor is unable to meet the requirements of this specification due to parked vehicles, he shall arrange for a sign and tow operation with City forces to facilitate completion in these areas.

E2.3.6 Notwithstanding the requirements of this specification, abnormal snow and ice conditions may make it impossible to adequately clear the Priority III streets to bare pavement. On those occasions, the Contract Administrator shall determine the level of snow clearing required and the time required to complete the operation.

E2.3.7 Payment for the full width snow clearing of Priority III streets will be made at the unit price per lane kilometre and all the Work herein described shall be considered as incidental to the Contract and no further compensation will be considered.

E2.3.8 Prior to October 15<sup>th</sup> of the Contract year:

- (a) the Contract Administrator shall provide to the Contractor a grouping of streets to be completed in each twelve (12) hour shift. Each twelve (12) hour shift will be recognized as a Designated Snow Clearing Zone;
- (b) the Contract Administrator shall assign a letter to each Designated Snow Clearing Zone based upon the Residential Parking Ban. Commencement date and time will determine whether the Designated Snow Clearing Zone is cleared between 0700 to 1900 hours or 1900 to 0700 hours; and
- (c) the Contractor shall provide a start point and equipment deployment schedule for each Designated Snow Clearing Zones.

E2.3.9 The Contractor is responsible to ensure timeframes are adhered to when clearing operations have commenced as per the Residential Parking Ban.

E2.4 BACK LANES (see Drawing 2)

E2.4.1 Back lanes shall normally be cleared after:

- (a) a recent snow accumulation of 5 cm or more;
- (b) poor back lane conditions caused by less than 5 cm of recent snow accumulation accompanied by snow drifting; and
- (c) gradual accumulation of snowfall resulting in poor back lane conditions.

E2.4.2 Back lanes shall normally be cleared concurrently with Priority I and II street snow clearing operations and shall normally be undertaken during the day shift (0700 hours to 1900 hours) unless otherwise directed by the Contract Administrator.

E2.4.3 Back lanes shall be completed within a forty-eight (48) hour period following the commencement time designated by the Contract Administrator.

E2.4.4 Back lanes shall be cleared to a width of 2.7m and maintained to a compacted snow surface as defined in D3.

E2.4.5 Payment for back lane snow clearing will be made at the unit price per kilometre and all work herein described shall be considered incidental to the contract and no further compensation will be considered.

E2.5 SIDEWALKS (see Drawing 3)

E2.5.1 Sidewalks shall normally be cleared after:

- (a) a recent snow accumulation of 5 cm or more for sidewalks on Priority II streets and 8 cm or more for sidewalks on Priority III streets;
- (b) poor sidewalk conditions caused by less than 5 cm of recent snow accumulation accompanied by snow drifting, and
- (c) gradual accumulation of snowfall resulting in poor sidewalk conditions.

E2.5.2 Sidewalks on Priority II streets shall normally be cleared concurrently with Priority II street clearing operations.

E2.5.3 Sidewalk snow clearing on Priority II streets shall be completed within a thirty-six (36) hour period following the commencement time designated by the Contract Administrator. Sidewalk snow clearing on Priority III streets shall be completed within one hundred and twenty (120) hours of the commencement time designated by the Contract Administrator.

- E2.5.4 Sidewalks in the immediate vicinity of schools, hospitals and seniors complexes shall be given their highest priority when scheduling and routing sidewalk clearing operations. Where a senior complex is situated on a Priority III street, the sidewalk to the most logical Priority I or II street shall be cleared within thirty-six (36) hours of any walk clearing operation.
- E2.5.5 Sidewalks shall be cleared to a width of 1.5 m and maintained to a compacted snow surface.
- E2.5.6 Payment for sidewalk snow clearing will be made at the unit price per kilometre and all work herein described shall be considered incidental to the contract and no further compensation will be considered.

### E3. HOURLY EQUIPMENT SERVICES

#### E3.1 General

- E3.1.1 Snow clearing equipment shall be supplied on an hourly basis when requested by the Contract Administrator for winter maintenance activities between storms and opening up streets, back lanes and sidewalks and keeping them open during major snow storms and blizzards.
- E3.1.2 Snow hauling equipment shall be supplied on an hourly basis when requested by the Contract Administrator for the loading and hauling away of snow between major snowfalls.
- E3.1.3 Any equipment supplied by the Contractor on an hourly basis shall meet the following specifications:
- (a) **Semi-Trailer Dump Trucks:** Category 3 GVW 36,500 kg;
  - (b) **J2 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 75 H.P.;
    - (ii) Operating Weight 15,000 - 21,000 lbs. (6803.9 kg – 9525.4 kg); and
    - (iii) Bucket Size 1.5 – 2.25 cu. yd.
  - (c) **J3 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 100 H.P.;
    - (ii) Operating Weight 21,000 - 30,500 lbs. (9,525.4 kg – 13,834.6 kg); and
    - (iii) Bucket Size 2.25 – 3.0 cu. yd.
  - (d) **J5 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader;
    - (i) SAE Net Horsepower Minimum 150 H.P.;
    - (ii) Operating Weight 30,500 – 42,500 lbs. (13,834.6 kg – 19,277.7 kg); and
    - (iii) Bucket Size 2.7m (8'9") width.
  - (e) **K4 Class Motor Graders:** Minimum 140 - 159 Flywheel Horsepower;
  - (f) **K5 Class Motor Graders:** Minimum 160 – 179 Flywheel Horsepower;
  - (g) **K6 Class Motor Graders:** Minimum 180 and over Flywheel Horsepower;
  - (h) **J14 Sidewalk Plows:** Trackless Tractors for Sidewalk Snow Clearing;
    - (i) Snow Blade – maximum 60" width;
    - (ii) Two way blade controlled inside cab; and
    - (iii) Minimum 30" blade height.
  - (i) **V4 Sidewalk Blowers:** Snow Blowers Mounted on Trackless Tractors;
    - (i) Cutting Width – Maximum 60";
    - (ii) Cutting Height – Approximately 30";
    - (iii) Discharge Chute – Minimum 270-degree rotation; and
    - (iv) Full remote control from inside cab for chute while blowing snow.
  - (j) **Truck Plows:** As specified in E3.2 and E4.7 of the Specifications.

- E3.1.4 Contract supervision shall be as specified in E6.
- E3.1.5 The Contract Administrator may request snow clearing equipment on an hourly basis up to the number and type of pieces of equipment specified in E4.
- E3.1.6 The Contractor shall respond to the assigned location within two (2) hours of official notice from the Contract Administrator or be subject to penalties as outlined in E14.
- E3.1.7 Contractors will be required to fill out approved Work tickets showing hours of Work, type of equipment, equipment model and serial number. All Work tickets must be signed by the City inspector and a representative of the Contractor to be valid.
- E3.1.8 Payment for hourly equipment will be made based on the hours actually worked and the unit price per hour shown in Form B: Prices. There will be no overtime premium for Work under this Contract.

## E3.2 TRUCK PLOW CLEARING OPERATIONS

- E3.2.1 Notwithstanding the requirements of E2 of the Specifications, the clearing of snow using truck plows shall be in accordance with the following:
- (a) Truck plowing on Priority I, Priority II and Priority III streets may be required during and after any measurable snowfall. The decision to perform a snow clearing operation will be made by the Contract Administrator or his designate;
  - (b) Priority I (Regional) streets shall normally receive the highest priority for snow clearing followed by Priority II (Bus Routes and Collectors) streets and then Priority III (Residential) streets. However, there may be circumstances when Collectors and Bus Routes would be cleared before Regional streets. This shall only be done when so directed by the Contract Administrator;
  - (c) Priority I, Priority II and Priority III streets shall be cleared to bare pavement over the full width, except at isolated locations where parked cars make the plowing of the curb lane(s) impossible;
  - (d) Notwithstanding E7 the Contractor may be directed to clear only the travel lanes;
  - (e) Windrows at all intersections, crosswalks, corridors, railway crossings and private approaches shall be removed if the Contract Administrator or his designate deem that they present a hazard to traffic;
  - (f) Reasonable care shall be taken so that snow from the truck plow clearing operations shall not be deposited in sidewalk areas. Snow deposited on the sidewalk areas unnecessarily shall be removed by the Contractor at his expense; and
  - (g) Snow may be deposited on centre medians when allowed by the Contract Administrator.

## E4. EQUIPMENT

- E4.1 The Contractor shall provide the following minimum quantity and type of equipment in first class working condition:
- (a) 9 motor graders;
  - (b) 12 loaders;
  - (c) 6 truck plows;
  - (d) 2 sidewalk snow plows; and
  - (e) 1 sidewalk snow blower.
- E4.2 All equipment shall be made available for inspection by the Contract Administrator or his designate prior to the award of Contract.

E4.3 The Bidder is not required to own the equipment at the time of the Submission Deadline. The Bidder shall, however, provide the Contract Administrator, within seventy-two (72) hours of being requested, the name of the registered owner of each proposed piece of equipment and a copy of a binding contract, or option to purchase or to contract, for the use of the equipment for the duration of the Contract.

#### E4.4 LIGHTING

E4.4.1 Each vehicle and each piece of equipment shall be provided with all of the necessary lighting prescribed by the motor vehicle laws of the Province of Manitoba.

E4.4.2 Notwithstanding the generality of the foregoing, the Contractor shall ensure that all equipment is equipped with working lighting systems sufficient to facilitate the Work. At a minimum, all equipment must be equipped with the following lighting:

- (a) at least two headlights;
- (b) at least two rear running lights;
- (c) turning signals front and rear;
- (d) stop light at rear;
- (e) at least one flashing or oscillating blue or amber light, clearly visible in all directions (360 degrees);
- (f) if the machine is in excess of two (2) metres wide, at least four clearance lights (one blue or amber light on each side at the front, facing the front, and one red light on each side at the rear facing rear-ward).
- (g) All equipment must maintain proper lighting though out the entire shift or be removed from hired and contract work.

#### E4.5 IDENTIFICATION

E4.5.1 All equipment shall be clearly labelled, indicating the Contractor's name and unit number. Letters and numbers used for identification purposes must be a minimum of 100 mm in height and positioned in such a manner as to be clearly visible when standing at either side of the machine.

#### E4.6 COMMUNICATION

E4.6.1 At least one piece of equipment in a crew working in a specific area must have a means of two-way communications with the Contractor's Supervisor and office.

#### E4.7 TRUCK PLOWS

E4.7.1 Each truck plow shall conform to the following:

- (a) be capable of providing a level of performance consistent with the front-mounted truck plows currently in use by the City;
- (b) be equipped with a hydraulically reversible straight blade that will ride on the pavement surface;
- (c) the plow blade shall be suitable for clearing a minimum 2.4 m wide path when fully angled (approximately 40°); and
- (d) the plow blade and/or cutting edges shall be spring loaded or flexible to allow deflection when an obstacle is encountered. This deflection shall cause the blade to raise to clear manholes, catch basins, curbs and other obstructions protruding above pavement, without damage.

### E5. DRIVERS LICENSE FOR ALL HIRED HOURLY EQUIPMENT

E5.1 The City requires that the Contractor's supervisor is to ensure all drivers and operators have the appropriate driver's license for all Hired Hourly and Contract Equipment supplied under this contract.

## **E6. CONTRACTOR'S SUPERVISION AND COMMUNICATION**

- E6.1 The Contractor shall have a qualified Supervisor on duty during all snow clearing activities regardless of the type and magnitude of the operation. The Supervisor shall be able to attend, monitor and respond to all operational and equipment concerns throughout the contract area.
- E6.2 The Contractor's Supervisor shall have two-way communications with the Contractor's office and field crews, and continuously direct, coordinate and inspect the work of the field crews.
- E6.3 The Supervisor, or his designate, shall provide a means of cellular communications with City staff involved in the inspection of contract snow clearing operations. Failure by the Contractor to provide cellular communication to the City staff by first call-out will result in the City furnishing such equipment and deducting costs from the Contract payment.
- E6.4 The Contractor shall have the capability of receiving email, text, and facsimile transmission (fax machine) and shall supply the email address, cellular number, and facsimile number to the Contract Administrator.

## **E7. EXTREME SNOWFALL AND BLIZZARD CONDITIONS**

- E7.1 The Contractor shall provide snow clearing equipment to keep streets, sidewalks and back lanes open during extreme snowfall events if requested by the Contract Administrator. The Contract Administrator shall evaluate field conditions and at his discretion, continue or terminate the hourly snow clearing operations.
- E7.2 Time utilized by the Contractor to keep streets, sidewalks and back lanes open during the snow storm shall not be part of the time limits established in E2.2, E2.3, E2.4, and E2.5.
- E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that Collector streets, sidewalks and back lanes be opened using both Contract and City forces in order to open such streets and emergency routes as quickly as possible. The Contractor may be required to dispatch his equipment to work inside and outside the contract area with and under the direction of City forces.
- E7.4 Once notified by the Contract Administrator of the official start time for the formal snow clearing operations following extreme snowfall and/or blizzards the Contractor shall immediately initiate the snow clearing operation.

## **E8. QUANTITIES**

- E8.1 Further to B9 of the Bidding Procedures, the estimated quantities identified on Form B: Prices for the clearing and hauling of snow on the Priority II and III street systems, sidewalks and back lanes are based on the following:
- (a) **Item No. 1 - Priority II (Bus Routes and Collector) Street System:** The approximate quantity is based on 101.33 lane km of street for three (3) clearing operations of 0-10 cm;
  - (b) **Item No. 2 - Priority III (Residential) Street System:** The approximate quantity is based on 219.76 lane km of street for three (3) clearing operations of 0-10 cm;
  - (c) **Item No. 3 – Back Lanes:** The approximate quantity is based on 13.31 linear km of back lanes for six (6) clearing operations of 0-10 cm;
  - (d) **Item No. 4 – Sidewalks (on Priority II Streets):** The approximate quantity is based on 61.26 km of sidewalks for eight (8) clearing operations of 0-10 cm; and
  - (e) **Item No. 5 – Sidewalks (on Priority III Streets):** The approximate quantity is based on 8.57 km of sidewalks for three (3) clearing operations of 0-10 cm.

- E8.2 The total length of lane kilometres, as established by the Public Works Department, are provided in Appendix A - Priority II Streets, and Appendix B - Priority III Streets. Drawing 1 indicates the inventory of streets, Drawing 2 indicates the inventory of back lanes, and Drawing 3 indicates the inventory of sidewalks. In the event that streets, back lanes or sidewalks are either added or deleted, then the total length shall be adjusted correspondingly for the purpose of measurement and payment.
- E8.3 Appendix C showing the annual accumulation of snow based on the meteorological summary of the Records kept by the City of Winnipeg for the last forty one (44) years is provided strictly for the information of Bidders.

## **E9. TRAFFIC MOVEMENT AND PARKING**

- E9.1 After a significant snowfall, overnight parking may be restricted on Priority II streets with the declaration of the Declared Snow Route Parking Ban. This By-Law, when declared by the Director of Public Works, prohibits parking on Priority I and Priority II streets between the hours of midnight and 07:00 am. The ban will normally last for twenty-four (24) hours but may be extended.
- E9.2 During snow clearing and hauling operations, the Contractor shall take all reasonable measures to facilitate the movement of traffic in accordance with the Manual of Temporary Traffic Control.

## **E10. MEASUREMENT AND PAYMENT**

- E10.1 This section will govern payment for full width street clearing, back lane clearing and sidewalk clearing of snow and hauling services for snow removal performed by the Contractor which include:
- (a) clearing and hauling services for snow after a recent accumulation of snow;
  - (b) clearing and hauling services after a gradual accumulation of snow where, in the opinion of the Contract Administrator, such clearing and hauling services are warranted;
  - (c) clearing and hauling services after a recent accumulation of snow combined with a gradual accumulation of snow; and
  - (d) maintenance snow clearing services between storms and keeping streets, sidewalks and back lanes open during major snow storms and/or blizzards on the streets specified in this Contract.
- E10.2 If there is additional precipitation before the expiration of the specified time period, the Contract Administrator will define the end of the most recent snowfall and will set another time limit based on the quantity of precipitation.
- E10.3 Where in the opinion of the Contract Administrator the amount of snowfall and/or accompanying severe drifting conditions makes it impractical to complete the full width snow clearing, sidewalk clearing and back lane clearing operations with the Contractor's full complement of equipment and continuous effort, the Contract Administrator may, at his sole discretion, extend the time limits specified.
- E10.4 Payment will be made for back lane and sidewalk clearing operations based on the unit price per kilometre. The payment for such clearing operations will be based on multiplying the unit bid price for Item No. 3, 4, or 5 on Form B: Prices by the length in kilometres of back lanes and sidewalk cleared.
- E10.5 The Contract Administrator will have the authority to determine whether any clearing and hauling operation constitutes a recent accumulation, a gradual accumulation or a combination of the two. The guideline to be utilized by the Contract Administrator for determining whether a clearing operation is a recent accumulation or a gradual accumulation will be that, where 5 cm or more of snow has fallen over the forty-eight (48) hour period preceding the direction to commence clearing services, the accumulation will be considered a recent accumulation. Otherwise, the clearing operation will be considered a gradual accumulation.

- E10.6 Payment will be made for full width clearing and hauling operations on Priority II (Collector) Streets, Priority III (Residential) streets based on the unit price per lane kilometre and a snow accumulation factor (F) which is dependent on the quantity of snowfall and the type of snow accumulation. The payment for all such clearing operations will be based on multiplying the unit price (R) for Item No. 1, 2, or 3, on Form B: Prices, as the case may be, by the length in kilometres cleared (L), as determined by the Contract Administrator, multiplied by the snow accumulation factor (F), as determined by the Contract Administrator; or  $\text{Payment} = R \times L \times F$ .
- E10.7 The snow accumulation for purposes of payment for a recent accumulation shall be the quantity of snow deemed to be cleared/hailed by the Contractor as determined by the Contract Administrator in accordance with this section. There may be hourly snow hauling, plowing and/or salting operations carried on by others on some portions of the street systems affected by this Contract. Therefore, the depth of the snow accumulation to be used for payment for the removal of a recent accumulation will be that portion of snow that has recently fallen immediately preceding the start of a clearing operation and during the said operation, but not including cleared or removed by others or by environmental processes, as determined solely by the Contract Administrator. The duration and depth of snowfall will be based on official reports from a weather consulting service. Notice of any dispute by the City arising from the amount of snow accumulation used to calculate payments for a recent clearing operation shall be forwarded to the Contract Administrator within fifteen (15) days of the City notifying the Contractor of the amounts used for payment for a given clearing operation. Failure by the Contractor to give notice of such dispute within the time specified shall preclude the Contractor from disputing the amount for which the City will pay.
- E10.8 The snow accumulation for purposes of payment for a gradual accumulation or combination of a recent and gradual accumulation shall be the quantity of snow deemed to be cleared/hailed by the Contractor as determined by the Contract Administrator in accordance with this section. There may be hourly snow hauling, plowing and/or salting operations carried on by others on some portions of the street systems affected by this Contract. Therefore, the depth of the snow accumulation to be used for payment for the removal of a gradual accumulation will not include snow that has been melted by environmental affects, chemical action, or both as determined by the Contract Administrator
- E10.9 No payment will be made for gradual accumulation after March 15 of the Contract year in the event that all of the gradual accumulation has completely melted and does not physically exist on the street at the time of a plowing operation initiated by a recent accumulation. This determination will be made by the Contract Administrator.
- E10.10 The snow accumulation factor will be determined by the appropriate formula based on the type of accumulation and the quantity of snowfall. The formula to be used to calculate the snow accumulation factor for each payment scenario are identified in Table 1 below and are further detailed in E10.10.1, E10.10.2, E10.10.3, E10.10.4, and E10.10.5.

Type of Accumulation	Snowfall Measurement	Snow Accumulation Factor Calculation
(1) Recent	0-10.0 cm	$F = 1.000$
(2) Recent	Greater than 10.0 cm	$F = 1 + (0.90 \times (x - 10) / 10)$ where $x$ is the number of centimeters of recent accumulation snowfall. $F = 1 + \left[ 0.90 \left( \frac{x - 10}{10} \right) \right]$
(3) Gradual	Starting after December 15th of Contract year or since the preceding clearing operation, whichever is later.	$F = 1.000$ or $F = (0.30 \times y) / 10$ , whichever value is greater, where $y$ is the number of centimeters of gradual accumulation snowfall.
(4) Combination of Recent and Gradual	0-10.0 cm ( $x$ ) of recent and ( $y$ ) cm of gradual starting after December 15 <sup>th</sup> of Contract year or since the preceding clearing operation, whichever is later.	$F = 1.000$ or $F = (x + (0.30 \times y)) / 10$ , whichever value is greater, where $x$ is the number of centimeters of recent accumulation snowfall and $y$ is the number of centimeters of gradual accumulation snowfall.
(5) Combination of Recent and Gradual	Greater than 10.0 cm of recent ( $x$ ) and ( $y$ ) cm of gradual starting after December 15 <sup>th</sup> of Contract year or since the preceding clearing operation, whichever is later.	$F = 1 + (0.90 \times (x - 10) / 10) + ((0.30 \times y) / 10)$ , where $x$ is the number of centimeters of recent accumulation snowfall and $y$ is the number of centimeters of gradual accumulation snowfall.

E10.10.1 For a clearing operation required as a result of a Recent Accumulation of 10 cm or less (0-10 cm), the accumulation factor (F) is 1.00. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by 1.000.

Example: The total payment for a clearing operation after 9.3 cm of Recent Accumulation would be unit price x lane kilometres x 1.000).

E10.10.2 For a clearing operation required as a result of a Recent Accumulation in excess of 10 cm, the accumulation factor will be determined by adding 1.000 (which is the factor for the first 10 cm) to 90% of the snow accumulation in excess of 10 cm divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: The snow accumulation factor for a clearing operation after 14.3 cm of Recent Accumulation, would be based on the calculation,  $F=1 + (0.9 \times (14.3 - 10)/10)=1.387$ . The total payment for the clearing operation would be (unit price x lane kilometres x 1.387).

E10.10.3 For a clearing operation required as a result of a Gradual Accumulation, excluding salted or chemically cleared snow, the snow accumulation factor would be 1.000 or 30% of the Gradual Accumulation divided by ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that, on February 28<sup>th</sup>, the condition of the Priority III streets was such that a plowing operation was required and that no snowfall had occurred in the past 48 hours. The date of the last clearing operation was January 28<sup>th</sup> and 19 cm of snowfall (Gradual Accumulation) had fallen since that date. The snow accumulation factor would be 30% of 19 cm divided by 10, or  $F = (0.30 \times 19) / 10 = 0.570$ . Since the calculated factor is less than 1.000, the greater value of 1.000 would be used and the total payment for the clearing operation would be (unit price x lane kilometres x 1.000).

E10.10.4 For a clearing operation required as result of a Recent Accumulation of 10 cm or less (0-10 cm) and where there has also been Gradual Accumulation, excluding Gradual Accumulation that was salted or chemically treated, measured starting after December 15<sup>th</sup> of the Contract year or since the immediately preceding clearing operation, whichever is later, the snow accumulation factor will be 1.000 or the value calculated by adding the recent accumulation to 30% of the Gradual Accumulation and dividing the sum by ten (10), whichever value is greater. Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20<sup>th</sup> of 5.0 cm with severe winds, and in the opinion of the Contract Administrator, there is a need for a snow clearing operation. Assume further that 14.5 cm of snow has Gradually Accumulated between December 15<sup>th</sup> and the commencement of the Recent Accumulation on January 20<sup>th</sup>. The snow accumulation factor and payment would be calculated as follows:

- (i) The Recent Accumulation of 5.0 cm is added to 30% of the Gradual Accumulation of 14.5 cm and the sum divided by 10 or  $F = (5.0 + (0.30 \times 14.5)) / 10 = 0.935$ . Since the calculated factor is less than 1.000, the total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  1.000).

Assume that in the above scenario the snowfall on January 20<sup>th</sup> was 8.0 cm. Then the snow accumulation factor and payment would be calculated as follows:

- (ii) The Recent Accumulation of 8.0 cm is added to 30% of the Gradual Accumulation of 14.5 cm and the sum divided by 10 or  $F = (8.0 + (0.30 \times 14.5)) / 10 = 1.235$ . The total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  1.235).

E10.10.5 For a clearing operation required as result of a Recent Accumulation of greater than 10 cm and where there has also been Gradual Accumulation measured starting after December 15<sup>th</sup> of the Contract year or since the immediately preceding clearing operation, whichever is later, the snow accumulation factor will be determined by adding 1.000 (which is the factor for the first 10 cm of Recent Accumulation) to 90% of the Recent Accumulation in excess of 10 cm divided by ten (10) and then adding 30% of the Gradual Accumulation and divided by ten (10). Payment will be made at the unit price multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that during the Contract year there has been a snowfall on January 20<sup>th</sup> of 16.8 cm and, in the opinion of the Contract Administrator, there is need for a snow clearing operation. Assume further that 20.5 cm of snow has Gradually Accumulated between December 15<sup>th</sup> and the commencement of the Recent Accumulation on January 20<sup>th</sup>. The snow accumulation factor and payment would be calculated by adding 1.000 for the first 10 cm of Recent Accumulation to 90% of 6.8 cm (which is the Recent Accumulation in excess of 10 cm) divided by 10 and then adding 30% of 20.5 cm (which is the Gradual Accumulation) divided by 10, or  $F = 1.000 + (0.90 \times (16.8 - 10) / 10) + ((0.30 \times 20.5) / 10) = 2.227$ . The total payment for the clearing operation would be (unit price  $\times$  lane kilometres  $\times$  2.227).

E10.11 Payment shall be made for snow clearing services, such as truck plowing or maintenance snow clearing between snow storms and snow clearing during major storms/blizzards, as specified in E2.5.6 of the Specifications at the Bid hourly rate per equipment class on Form B: Prices, as the case may be, multiplied by the hours actually worked for each specific class as determined by the Contract Administrator.

E10.12 Payment for wings, ice blades, and/or straight blades for Motor Graders engaged in snow clearing operations shall be included in the unit price per lane kilometre or kilometre respectively in Form B: Prices, Item no. 1, and 2.

E10.13 Ice blades and wings specifically requested for Hourly work by the Contract Administrator or his designate will be compensated for at the same rate per hour as those specified in the "Hourly Rental Rate for Public Works Department for the 2018 to 2019 Snow Season".

- E10.14 The City shall guarantee to pay to the Contractor a minimum amount, referred to as the "Guaranteed Minimum Amount", equal to 60% of the unit price shown on Form B: Prices.
- E10.14.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the Guaranteed Minimum Amount.
- E10.14.2 On December 31<sup>st</sup>, all payments received by the Contractor under this Contract will be totalled and the total compared with 10% of the Total Bid Price. If the total of the payments received is less than 10% of the Total Bid Price, then the difference between the aforesaid figures will be paid to the Contractor as an advance on the Guaranteed Minimum Amount. The amount of the advance will be set off against subsequent payments for work done by the Contractor.
- E10.14.3 On February 28<sup>th</sup>, all payments received by the Contractor under this Contract for Work done and as an advance on the Guaranteed Minimum Amount will be totalled and that total compared with 35% of the Total Bid Price. If the total of the payments received is less than 35% of the Total Bid Price, then the difference will be paid to the Contractor as an advance on the Guaranteed Minimum Amount. The amounts of any advances received by the Contractor will be set off against subsequent payments for Work done by the Contractor pursuant to the Contract.
- E10.14.4 At the conclusion of the Contract year, all payments received by the Contractor or under this Contract for Work done or as an advance on the Guaranteed Minimum Amount will be totalled and that total compared with the Guaranteed Minimum Amount. Only when the total of the payments received is less than the Guaranteed Minimum Amount will additional monies be payable by the City to the Contractor under the terms of this Contract.
- E10.14.5 The Contractor will not be compensated for any inconvenience and costs which may result from excavation Work on the streets, sidewalks or back lanes, the parking of vehicles on the roadway, vehicle movement, or any other obstruction to his Work.
- E10.14.6 The Contractor shall note that on the Priority II street system portion of this Contract, the unit price bid shall include the cost of the 0.6 m median cut as specified in the contract.
- E10.14.7 It is the City of Winnipeg's intent to hold back five percent (5%) of progress estimates for all Work performed under this Contract as a damage deposit relating to E13 of the Specifications. These funds will be released when damages are rectified in accordance with E13.

## **E11. ANNUAL REVIEW – INFLATIONARY ADJUSTMENT**

- E11.1 The unit prices specified on Form B: Prices will be adjusted on the first Contract anniversary date, and subsequent anniversary dates based on the percentage increase or decrease in unit prices for the Contract year from the All-items Consumer Price Index for Winnipeg, normally referred to by Statistics Canada as Table 326-0001. The calculation of the adjustment will be based on October 1<sup>st</sup> of the previous year to October 1<sup>st</sup> of the current year. The first inflationary adjustment shall occur on October 1, 2019. The maximum annual adjustment shall not exceed ten percent (10%).
- E11.2 The index used will be that prepared by Statistics Canada. Since the index may not be available until sometime after the adjustment date, the adjustment will be retroactive.

## **E12. PRICE ADJUSTMENT – FUEL COSTS**

- E12.1 Notwithstanding C11.2, price adjustments for unforeseen fuel cost changes will include increases or decreases in the price of diesel fuel.
- E12.2 The City of Winnipeg will determine the Base Price of fuel costs based on the average diesel fuel price for the month of July of 2018 charged to the Streets Maintenance Division by the City of Winnipeg Fleet Management Agency.
- E12.3 Price adjustments will be assessed on October 1<sup>st</sup> and on January 1<sup>st</sup> of each contract year.

- E12.3.1 Price adjustments will only be made for any fuel price increase or decrease in excess of three percent (3%).
- E12.3.2 The actual diesel fuel price (Actual Price) will be determined on the dates indicated in E12.3 using the average fuel price of the previous month (e.g. for October 1<sup>st</sup> the average price for the month of September will be used and for January 1<sup>st</sup> the average price for December will be used).
- E12.4 Price adjustments will be applied to seventeen percent (17%) of the unit price by the Contractor on all items, which is the portion of the bid price that is attributable to fuel.
- E12.4.1 If fuel prices increase by more than three percent (3%) of the Base Price identified in E12.2, then a price adjustment for fuel will be made and paid for based on the quantity of eligible work on each progress estimate following the date of adjustment in accordance with the following formula:  
$$\text{Price Adjustment} = (\text{Actual Price} - (1.03 \times \text{Base Price}))$$
- E12.4.2 If fuel prices decrease by more than three percent (3%) of the Base Price, then a price adjustment for fuel will be made and paid for based on the quantity of eligible Work on each progress estimate following the date of adjustment in accordance with the following formula:  
$$\text{Price Adjustment} = ((0.97 \times \text{Base Price}) - \text{Actual Price})$$
- E12.4.3 Unit Price is as follows:  
$$\text{Unit Price Adjustment} = \text{Unit Price} - (\text{Price Adjustment} \times 0.17 \times \text{Unit Price}).$$

### **E13. DAMAGE TO PUBLIC AND PRIVATE PROPERTY**

- E13.1 The Contractor will be held responsible for any damage to City or private property sustained as a result of his snow clearing operation. Prior to commencement of the first clearing operation, the Contractor shall document and/or photograph all existing damage to pavements, curbs, utilities, street furniture, street signs, parking meters, etc., and shall provide this information to the Contract Administrator for verification.
- E13.2 The Contractor shall immediately report damages to City or private property to the Contract Inspector.
- E13.3 Any damage to pavements, boulevards, trees, etc. that in no way present a hazard to either pedestrian or vehicular traffic shall be reported to the Contract Administrator and rectified by the Contractor in accordance with City of Winnipeg specifications prior to June 30<sup>th</sup> following the snow clearing season. Damages not rectified by June 30<sup>th</sup> may be rectified by the City or its agents and all costs shall be borne by the Contractor and shall be deducted from monies owing.
- E13.4 The Contractor shall repair all curbs damaged as a result of snow clearing operations. The repairs will be conducted at the exact locations at which the curb damage was assessed. The Contractor shall remove and dispose of any loose curb material prior to April 15<sup>th</sup> of each year.
- E13.5 Any damage to street appurtenances such as, but not limited to, street light standards, signal lights, hydrants, valve boxes, railway signal arm protective devices shall be rectified immediately. If in the process of clearing snow from a street, the Contractor dislodges a manhole frame, it must be restored immediately. Failure to rectify damages immediately may result in the damages being rectified by the City or its agents and the associated costs borne by the Contractor. In the event that the manhole frame is damaged beyond replacement, the Contractor shall immediately install temporary warning devices to protect pedestrians and vehicles and notify the City at 311, so that a repair can be made by City forces. The costs for such repair will be borne totally by the Contractor.
- E13.6 The Contractor shall repair any sod damage caused by his snow clearing operations with top soil and seed or with sod as directed by the Contract Administrator. All restorations shall be in accordance with City of Winnipeg Standard Construction Specifications.

E13.7 The Contractor shall replace with equal, any recycling bins or refuse containers destroyed, lost or misplaced by his operations at least one (1) day prior to the next refuse day cycle.

#### **E14. PENALTIES**

E14.1 Where the Contractor does not satisfactorily complete the Work on Priority II or III streets, sidewalks or back lanes in accordance with the time and quality requirements specified in E2, the Contractor shall be assessed a penalty.

E14.1.1 For Priority II and Priority III streets, the penalty shall be in the amount of \$2,000.00 or an amount equal to twenty-five percent (25%) of the unit price per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.

E14.1.2 For sidewalks and back lanes, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price per kilometre times the kilometres not satisfactorily completed, whichever is greater for each back lane.

E14.1.3 Streets, sidewalks and back lanes that the Contract Administrator deems to be deficient in whole and not in part will be considered incomplete and may be subject to the above penalty.

E14.2 Where the Contractor does not supply up to the minimum quantity and type of equipment identified in E4 within two hours as outlined in E3.1.6 of the Specifications, the Contractor shall be assessed a penalty of five hundred dollars (\$500.00) per piece of equipment per call out below the minimum number as specified in E4. The minimum requirement shall apply throughout the duration of the operation from call-out to release of equipment.

E14.3 Where the Contractor does not satisfactorily perform any snow clearing operation in accordance with the requirements of E2, particularly in reference to the quality of the Work following an inspection by the Contract Administrator the Work shall be declared a deficiency. The Contractor shall be requested to rectify the portion of streets, sidewalks or back lanes found to be unsatisfactory in quality within twenty-four (24) hours of notification or in a time period to be agreed to by the Contract Administrator. Failure to respond may result in the City performing the required Work and charging the cost of such Work back to the Contractor.

E14.4 Any performance deficiency related to E2 such as, but not limited to, depositing snow in unauthorized locations, depositing snow on private property, or not removing snow windrows from approaches, shall be rectified immediately by the Contractor. Failure to respond will result in the City or its agent rectifying the deficiencies and charging the costs back to the Contractor.

E14.5 Where the Contractor fails to replace recycling bins or refuse containers as described in E13.7, the City will replace these items and assess a penalty of \$100.00 per item.

## APPENDIX A – EAST AREA (SOUTH EAST) PRIORITY II STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Aldgate Rd	Keelegate Pl	Twickenham Cir	Non-Regional	P2	0.17
Aldgate Rd	Twickenham Cir	Vogans Rn	Non-Regional	P2	0.32
Aldgate Rd	Vogans Rn	Kamberwell By	Non-Regional	P2	0.25
Aldgate Rd	Dakota St	Hallfield By	Non-Regional	P2	0.19
Aldgate Rd	St Annes Rd	Abbotsfield Dr	Non-Regional	P2	0.31
Aldgate Rd	St Annes Rd	Abbotsfield Dr	Non-Regional	P2	0.03
Aldgate Rd	Paddington Rd	Cotter Cl	Non-Regional	P2	0.22
Aldgate Rd	Cotter Cl	Zylema Cv	Non-Regional	P2	0.22
Aldgate Rd	Uppingham Rd	Harding Cr	Non-Regional	P2	0.17
Aldgate Rd	Michaud Cr	Higham By	Non-Regional	P2	0.20
Aldgate Rd	Cotswold Pl	Wainwright Cr	Non-Regional	P2	0.16
Aldgate Rd	Everingham By	Dakota St	Non-Regional	P2	0.19
Aldgate Rd	Farnsworth Cr	Kellendonk Rd	Non-Regional	P2	0.18
Aldgate Rd	Kellendonk Rd	Michaud Cr	Non-Regional	P2	0.32
Aldgate Rd	Scammel Rd	Tilstone By	Non-Regional	P2	0.21
Aldgate Rd	Pentonville Cr	Ravensden Dr	Non-Regional	P2	0.19
Aldgate Rd	Nault Cl	Vadeboncoeur Dr	Non-Regional	P2	0.19
Aldgate Rd	Wycombe Pl	Pevensey Pl	Non-Regional	P2	0.18
Aldgate Rd	Wainwright Cr	Harding Cr	Non-Regional	P2	0.17
Aldgate Rd	Cummings Cr	Kingsclear Dr	Non-Regional	P2	0.19
Aldgate Rd	Cedarcroft Af	Ravensden Dr	Non-Regional	P2	0.39
Aldgate Rd	Abbotsfield Dr	John Forsyth Rd	Non-Regional	P2	0.41
Aldgate Rd	John Forsyth Rd	Erindale Cr	Non-Regional	P2	0.19
Aldgate Rd	Aldgate Rd	Dakota St	Non-Regional	P2	0.11
Aldgate Rd	Gobert Cr	Eastcote Dr	Non-Regional	P2	0.17
Aldgate Rd	Sloan Cr	Ralston Cr	Non-Regional	P2	0.17
Aldgate Rd	Hallfield By	Upavon Rd	Non-Regional	P2	0.17

Aldgate Rd	Everingham By	Everingham By	Non-Regional	P2	0.17
Aldgate Rd	Gobert Cr	Burland Av	Non-Regional	P2	0.18
Aldgate Rd	Cactus Cv	Wycombe Pl	Non-Regional	P2	0.19
Aldgate Rd	Orford Cr	Cummings Cr	Non-Regional	P2	0.18
Aldgate Rd	Eastcote Dr	Gobert Cr	Non-Regional	P2	0.14
Aldgate Rd	Willesden Cr	Eastcote Dr	Non-Regional	P2	0.19
Aldgate Rd	Burland Av	Burland Av	Non-Regional	P2	0.03
Aldgate Rd	Aldgate Rd	Orford Cr	Non-Regional	P2	0.09
Aldgate Rd	Keelegate Pl	Highcastle Cr	Non-Regional	P2	0.18
Aldgate Rd	Clerkenwell By	Everingham By	Non-Regional	P2	0.18
Aldgate Rd	Ralston Cr	Aldgate Rd	Non-Regional	P2	0.09
Aldgate Rd	Kingsclear Dr	Dakota St	Non-Regional	P2	0.16
Aldgate Rd	Hallfield By	Sloane Cr	Non-Regional	P2	0.17
Aldgate Rd	Becontree By	Gobert Cr	Non-Regional	P2	0.47
Aldgate Rd	Brabant Cv	Hindle Gt	Non-Regional	P2	0.20
Aldgate Rd	Higham By	Paddington Rd	Non-Regional	P2	0.13
Aldgate Rd	Higham By	Higham By	Non-Regional	P2	0.18
Aldgate Rd	Pevensey Pl	Highbury Rd	Non-Regional	P2	0.19
Aldgate Rd	Clerkenwell By	Clerkenwell By	Non-Regional	P2	0.18
Aldgate Rd	Dakota St	Cactus Cv	Non-Regional	P2	0.16
Aldgate Rd	St Annes Rd	St Annes Rd	Non-Regional	P2	0.03
Aldgate Rd	Faraway Ln	EB Clayton Rd	Non-Regional	P2	0.18
Aldgate Rd	Abbotsfield Dr	St Annes Rd	Non-Regional	P2	0.31
Aldgate Rd	Aldgate Rd	St Annes Rd	Non-Regional	P2	0.14
Alpine Av	Fermor Av	Seagrim Rd	Non-Regional	P2	0.20
Alpine Av	Fermor Av	Seagrim Rd	Non-Regional	P2	0.75
Archibald St	Niakwa Rd	Royal Salinger Rd	Non-Regional	P2	0.10
Ashworth St S	Coombs Dr	Wilford Cs	Non-Regional	P2	0.09
Ashworth St S	Gablehurst Cr	Wilford Cs	Non-Regional	P2	0.18
Ashworth St S	Fulton St	Gablehurst Cr	Non-Regional	P2	0.17
Ashworth St S	Coombs Dr	Baisinger Dr	Non-Regional	P2	0.18

Ashworth St S	Baisinger Dr	Abbotsfield Dr	Non-Regional	P2	0.17
Ashworth St S	Julia Rd	John Forsyth Rd	Non-Regional	P2	0.31
Ashworth St S	Everden Rd	Warde Av	Non-Regional	P2	0.15
Baisinger Dr	John Forsyth Rd	John Forsyth Rd	Non-Regional	P2	0.01
Beaverhill Bv	Culloden Rd	Farnham Rd	Non-Regional	P2	0.08
Beaverhill Bv	Lakewood Bv	Driftwood By	Non-Regional	P2	0.31
Beaverhill Bv	Fermor Av	Vermillion Rd	Non-Regional	P2	0.02
Beaverhill Bv	Fermor Av	Vermillion Rd	Non-Regional	P2	0.48
Beaverhill Bv	Fermor Av	Vermillion Rd	Non-Regional	P2	0.48
Beaverhill Bv	Lakewood Bv	Lakewood Bv	Non-Regional	P2	0.05
Beaverhill Bv	Rockcliffe Rd	Grover Hills Ln	Non-Regional	P2	0.13
Beaverhill Bv	Lakewood Bv	Lakewood Bv	Non-Regional	P2	0.05
Beaverhill Bv	Harwick Ln	Baywater Pl	Non-Regional	P2	0.05
Beaverhill Bv	Beaverhill Bv	Lakewood Bv	Non-Regional	P2	0.08
Beaverhill Bv	Harwick Ln	Edgemont Dr	Non-Regional	P2	0.15
Beaverhill Bv	Courtwood Pl	Shamrock Dr	Non-Regional	P2	0.14
Beaverhill Bv	Seabrook Cv	Shoreview By	Non-Regional	P2	0.06
Beaverhill Bv	Beaverhill Bv	Lakewood Bv	Non-Regional	P2	0.24
Beaverhill Bv	Lakewood Bv	Beaverhill Bv	Non-Regional	P2	0.06
Beaverhill Bv	Collingwood Cr	Park Grove Dr	Non-Regional	P2	0.17
Beaverhill Bv	Abington Rd	Agincourt Rd	Non-Regional	P2	0.17
Beaverhill Bv	Vermillion Rd	Everglade Pl	Non-Regional	P2	0.31
Beaverhill Bv	Agincourt Rd	Bromton Rd	Non-Regional	P2	0.09
Beaverhill Bv	Shoreview By	Radburn Pl	Non-Regional	P2	0.17
Beaverhill Bv	Bayshore Cv	Edgewater Dr	Non-Regional	P2	0.16
Beaverhill Bv	Edgemont Dr	Shamrock Dr	Non-Regional	P2	0.15
Beaverhill Bv	Park Terrace Dr	Rockcliffe Rd	Non-Regional	P2	0.14
Beaverhill Bv	Collingwood Cr	Park Grove Dr	Non-Regional	P2	0.15
Beaverhill Bv	Culloden Rd	Cherwell Rd	Non-Regional	P2	0.09
Beaverhill Bv	Courtwood Pl	Lake Lawn Dr	Non-Regional	P2	0.19
Beaverhill Bv	Baywater Pl	Kenton Cv	Non-Regional	P2	0.05

Beaverhill Bv	Seabrook Cv	Bayshore Cv	Non-Regional	P2	0.15
Beaverhill Bv	Burntwood Cr	Park Grove Dr	Non-Regional	P2	0.17
Beaverhill Bv	Baywater Pl	Harwick Ln	Non-Regional	P2	0.06
Beaverhill Bv	Edgewater Dr	Shoreview By	Non-Regional	P2	0.18
Beaverhill Bv	Shoreview By	Lake Lawn Dr	Non-Regional	P2	0.12
Beaverhill Bv	Lake Lawn Dr	Driftwood By	Non-Regional	P2	0.18
Beaverhill Bv	Driftwood By	Park Grove Dr	Non-Regional	P2	0.20
Beaverhill Bv	Abington Rd	St Hilaire Pl	Non-Regional	P2	0.27
Beaverhill Bv	Bluewater Cr	Culloden Rd	Non-Regional	P2	0.18
Beaverhill Bv	Willowlake Cr	Bluewater Cr	Non-Regional	P2	0.19
Beaverhill Bv	Everglade Pl	Grover Hills Ln	Non-Regional	P2	0.15
Beaverhill Bv	Vermillion Rd	Everglade Pl	Non-Regional	P2	0.29
Beaverhill Bv	Lake Lawn Dr	Kenton Cv	Non-Regional	P2	0.16
Beliveau Rd E	St Annes Rd	Marlene St	Non-Regional	P2	0.67
Blue Mountain Rd	Copperstone Cr	Red Willow Cr	Non-Regional	P2	0.16
Blue Mountain Rd	Bluestem Cv	Copperstone Cr	Non-Regional	P2	0.17
Blue Mountain Rd	Red Willow Cr	Royal Mint Dr	Non-Regional	P2	0.37
Blue Mountain Rd	Bluestem Cv	Royal Mint Dr	Non-Regional	P2	0.41
Blue Sun Dr	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.02
Breakwater Cv	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Burland Av	Malmsbury Av	Knotsberry By	Non-Regional	P2	0.42
Burland Av	St Marys Rd	Postras Pl	Non-Regional	P2	0.30
Burland Av	Postras Pl	St Marys Rd	Non-Regional	P2	0.30
Burland Av	Brixton By	Paddington Rd	Non-Regional	P2	0.19
Burland Av	Malmsbury Av	Burland Av	Non-Regional	P2	0.25
Burland Av	St Marys Rd	Burland Av	Non-Regional	P2	0.05
Burland Av	Brixton By	Westham Pl	Non-Regional	P2	0.31
Burland Av	Aldgate Rd	Malmsbury Av	Non-Regional	P2	0.21
Burland Av	Healy Cr	Pately Cr	Non-Regional	P2	0.28
Burland Av	Knotsberry By	Pately Cr	Non-Regional	P2	0.17
Burland Av	Brixton By	Chancery By	Non-Regional	P2	0.18

Burland Av	Paddington Rd	Furness By	Non-Regional	P2	0.19
Burland Av	John Forsyth Rd	Westham Pl	Non-Regional	P2	0.19
Burland Av	Malmsbury Av	Aldgate Rd	Non-Regional	P2	0.21
Burland Av	Aldgate Rd	Postras Pl	Non-Regional	P2	0.15
Burland Av	Brixton By	Chancery By	Non-Regional	P2	0.18
Burland Av	Chancery By	Chancery By	Non-Regional	P2	0.18
Burland Av	Postras Pl	Aldgate Rd	Non-Regional	P2	0.15
Burland Av	Furness By	Healy Cr	Non-Regional	P2	0.17
Burmac Rd	Capston Rd	Lagimodiere Bv	Non-Regional	P2	1.25
Burning Glass Rd	Sage Creek Bv	Lafrance Ln	Non-Regional	P2	0.33
Burning Glass Rd	Lafrance Ln	Burning Glass Rd	Non-Regional	P2	0.03
Burning Glass Rd	Lafrance Ln	Red Moon Rd	Non-Regional	P2	0.16
Burning Glass Rd	Red Moon Rd	Lafrance Ln	Non-Regional	P2	0.32
Burning Glass Rd	Red Moon Rd	Red Moon Rd	Non-Regional	P2	0.16
Burning Glass Rd	Sage Cr Bv	Dr David Friesen Dr	Non-Regional	P2	0.52
Capston Rd	Mount Laurel Cr	Burmac Rd	Non-Regional	P2	0.02
Capston Rd	Burmac Rd	Cliffwood Dr	Non-Regional	P2	0.17
Capston Rd	Garwick Cv	Garwick Cv	Non-Regional	P2	0.17
Capston Rd	Garwick Cv	Garwick Cv	Non-Regional	P2	0.17
Capston Rd	Mount Laurel Cr	Burmac Rd	Non-Regional	P2	0.17
Capston Rd	Mount Laurel Cr	Lagimodiere Bv	Non-Regional	P2	0.15
Capston Rd	Garwick Cv	Lagimodiere Bv	Non-Regional	P2	0.15
Cassin Cr	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Cassin Cr	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Charbonneau Cr	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Charity Ln	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.02
Cliffwood Dr	Capston Rd	Newcroft Rd	Non-Regional	P2	0.09
Creek Bend Rd	Creek Bend Rd	End	Non-Regional	P2	0.27
Creek Bend Rd	St Annes Rd	Creek Bend Rd	Non-Regional	P2	0.16
Cummings Cr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.02
Dakota St	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.03

Dawson Rd S	Royal Mint Dr	Lagimodiere Bv	Non-Regional	P2	0.17
Dawson Rd S	Fermor Av	Dawson Rd S	Non-Regional	P2	0.15
Dawson Rd S	Dawson Rd S	Dawson Rd S	Non-Regional	P2	0.21
Dawson Rd S	Dawson Rd S	Fermor Av	Non-Regional	P2	0.22
De La Seigneurie Bv	Warde Av	Nordstrom Dr	Non-Regional	P2	0.15
De La Seigneurie Bv	Cassin Cr	Pynoo Pl	Non-Regional	P2	0.19
De La Seigneurie Bv	De La Seigneurie Bv	Warde Av	Non-Regional	P2	0.08
De La Seigneurie Bv	Dedjardins Dr	Cassin Cr	Non-Regional	P2	0.40
De La Seigneurie Bv	Pynoo Pl	Surfside Cr	Non-Regional	P2	0.17
De La Seigneurie Bv	Cassin Cr	Peres Oblats Dr	Non-Regional	P2	0.38
De La Seigneurie Bv	Pauline Boutal Cr	Lessard Pl	Non-Regional	P2	0.36
De La Seigneurie Bv	Cassin Cr	Island Lakes Dr	Non-Regional	P2	0.54
De La Seigneurie Bv	Frigate By	Frigate By	Non-Regional	P2	0.22
De La Seigneurie Bv	Brian Monkman By	Island Shore Bv	Non-Regional	P2	0.23
De La Seigneurie Bv	Langton Dr	Dockside Wy	Non-Regional	P2	0.51
De La Seigneurie Bv	Nordstrom Dr	Warde Av	Non-Regional	P2	0.15
De La Seigneurie Bv	Warde Av	Brian Monkman By	Non-Regional	P2	0.16
De La Seigneurie Bv	Island Lakes Dr	Pauline Boutal Cr	Non-Regional	P2	0.34
De La Seigneurie Bv	Frigate By	Pauline Boutal Cr	Non-Regional	P2	0.30
De La Seigneurie Bv	Brian Monkman By	Warde Av	Non-Regional	P2	0.16
De La Seigneurie Bv	Bishop Grandin Bv	Peres Oblats Dr	Non-Regional	P2	0.42
De La Seigneurie Bv	Bishop Grandin Bv	Desjardins Dr	Non-Regional	P2	0.42
De La Seigneurie Bv	Island Lakes Dr	Cassin Cr	Non-Regional	P2	0.56
De La Seigneurie Bv	McKall By	McKall By	Non-Regional	P2	0.18
De La Seigneurie Bv	Cassin Cr	Pynoo Pl	Non-Regional	P2	0.18
De La Seigneurie Bv	Surfside Cr	Cassin Cr	Non-Regional	P2	0.19
De La Seigneurie Bv	Pynoo Pl	Pynoo Pl	Non-Regional	P2	0.17
De La Seigneurie Bv	Cassin Cr	Desjardins Dr	Non-Regional	P2	0.03
De La Seigneurie Bv	Pynoo Pl	Cassin Cr	Non-Regional	P2	0.18
De La Seigneurie Bv	De La Seigneurie Bv	McKall By	Non-Regional	P2	0.11
De La Seigneurie Bv	Dockside Wy	Island Shore Bv	Non-Regional	P2	0.32

Des Hivernants Bv	Lafrance Ln	Sage Creek Bv	Non-Regional	P2	0.33
Des Hivernants Bv	Wood Sage Cr	Wood Sage Cr	Non-Regional	P2	0.02
Des Hivernants Bv	Sage Creek Bv	Lafrance Ln	Non-Regional	P2	0.33
Des Hivernants Bv	Ironweed Rd	Ironweed Rd	Non-Regional	P2	0.02
Des Hivernants Bv	Edward Turner Dr	Edward Turner Dr	Non-Regional	P2	0.05
Des Hivernants Bv	Ironweed Rd	Lafrance Ln	Non-Regional	P2	0.70
Des Hivernants Bv	Lafrance Ln	Woodsage Cr	Non-Regional	P2	0.69
Des Hivernants Bv	Warde Av	Warde Av	Non-Regional	P2	0.05
Des Hivernants Bv	Wood Sage Cr	Warde Av	Non-Regional	P2	0.27
Des Hivernants Bv	Edward Turner Dr	Edward Turner Dr	Non-Regional	P2	0.05
Des Hivernants Bv	Dr David Friesen Dr	Sage Creek Bv	Non-Regional	P2	0.52
Des Hivernants Bv	Sage Cr Bv	Dr David Friesen Dr	Non-Regional	P2	0.52
Des Hivernants Bv	Ironweed Rd	Warde Av	Non-Regional	P2	0.28
Des Hivernants Bv	Warde Av	Warde Av	Non-Regional	P2	0.05
Des Hivernants Bv	Edward Turner Dr	Dr David Friesen Dr	Non-Regional	P2	0.66
Des Hivernants Bv	Dr David Friesen Dr	Edward Turner Dr	Non-Regional	P2	0.65
Desjardins Dr	Leeward Pl	Myles Robinson Wy	Non-Regional	P2	0.17
Desjardins Dr	Surfside Cr	Myles Robinson Wy	Non-Regional	P2	0.59
Desjardins Dr	Island Lakes Dr	Leeward Pl	Non-Regional	P2	0.21
Desjardins Dr	De La Seigneurie Bv	Surfside Cr	Non-Regional	P2	0.29
Dr David Friesen Dr	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.03
Dr David Friesen Dr	Burning Glass Rd	Des Hivernants Bv	Non-Regional	P2	0.41
Dragonfly Ct	Edward Turner Dr	Edward Turner Dr	Non-Regional	P2	0.02
East Mint Pl	Royal Mint Dr	Lagimodiere Bv	Non-Regional	P2	0.32
East Mint Pl	Lagimodiere Bv	Royal Mint Dr	Non-Regional	P2	0.32
East Mint Pl	East Mint Pl	Lagimodiere Bv	Non-Regional	P2	0.20
Edgewater Dr	Sweetwater By	Sweetwater By	Non-Regional	P2	0.17
Edgewater Dr	Sweetwater By	Cormorant By	Non-Regional	P2	0.42
Edgewater Dr	Cormorant By	Lakewood Bv	Non-Regional	P2	0.48
Edgewater Dr	Cormorant By	Watercress Rd	Non-Regional	P2	0.16
Edgewater Dr	Beaverhill Bv	Sweetwater By	Non-Regional	P2	0.56

Edgewater Dr	Cormorant By	Watercress Rd	Non-Regional	P2	0.16
Edward Turner Dr	Sage Creek Bv	Dragonfly Crt	Non-Regional	P2	0.36
Edward Turner Dr	Sage Creek Bv	Grey Owl Pl	Non-Regional	P2	0.18
Edward Turner Dr	Des Hivernants Bv	Silver Sage Cr	Non-Regional	P2	0.42
Edward Turner Dr	Silver Sage Cr	Silver Sage Cr	Non-Regional	P2	0.18
Edward Turner Dr	Vireo Ln	Water Lily Ln	Non-Regional	P2	0.26
Edward Turner Dr	Wild Iris Wk	Vireo Ln	Non-Regional	P2	0.03
Edward Turner Dr	Grey Owl Pl	Dragonfly Crt	Non-Regional	P2	0.18
Edward Turner Dr	Wild Iris Wk	Vireo Ln	Non-Regional	P2	0.21
Edward Turner Dr	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.05
Edward Turner Dr	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.05
Edward Turner Dr	Dragonfly Ct	Edward Turner Dr	Non-Regional	P2	0.17
Edward Turner Dr	Wild Iris Wk	Vireo Ln	Non-Regional	P2	0.13
Edward Turner Dr	Silver Sage Cr	Wild Iris Wk	Non-Regional	P2	0.19
Edward Turner Dr	Silver Sage Cr	Des Hivernants Bv	Non-Regional	P2	0.41
Edward Turner Dr	Silver Sage Cr	Silver Sage Cr	Non-Regional	P2	0.18
Edward Turner Dr	Vireo Ln	Water Lily Ln	Non-Regional	P2	0.18
Edward Turner Dr	Water Lily Ln	Edward Turner Dr	Non-Regional	P2	0.28
Frigate By	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Frigate By	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Glenham Cv	John Forsyth Rd	John Forsyth Rd	Non-Regional	P2	0.02
Hackmore Cr	John Forsyth Rd	John Forsyth Rd	Non-Regional	P2	0.02
Hallfield By	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.03
Heartleaf Ln	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.02
Heartleaf Ln	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.02
Highbury Rd	Southfields Dr	Tiverton By	Non-Regional	P2	0.17
Highbury Rd	Hackmore Cr	Tiverton By	Non-Regional	P2	0.17
Highbury Rd	John Forsyth Rd	Hackmore Cr	Non-Regional	P2	0.19
Highbury Rd	Aldgate Rd	Southfields Dr	Non-Regional	P2	0.57
Huppe By	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Ironweed Rd	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.03

Island Cv	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Island Lakes Dr	Camirant Cr	De La Seigneurie Bv	Non-Regional	P2	0.20
Island Lakes Dr	Bounty By	Wayfarers Haven Af	Non-Regional	P2	0.18
Island Lakes Dr	Camirant Cr	De Caigny Cv	Non-Regional	P2	0.37
Island Lakes Dr	Wayfarers Haven Af	Coral Reef Cv	Non-Regional	P2	0.18
Island Lakes Dr	Black Pearl Cv	Gull Wing By	Non-Regional	P2	0.08
Island Lakes Dr	Boisselle By	Myles Robinson Wy	Non-Regional	P2	0.36
Island Lakes Dr	De Caigny Cv	Camirant Cr	Non-Regional	P2	0.09
Island Lakes Dr	Desjardins Dr	Myles Robinson Wy	Non-Regional	P2	0.10
Island Lakes Dr	Gull Wing By	Wayfarers Haven Af	Non-Regional	P2	0.15
Island Lakes Dr	Boisselle By	Boisselle By	Non-Regional	P2	0.17
Island Lakes Dr	Black Pearl Cv	Desjardins Dr	Non-Regional	P2	0.11
Island Lakes Dr	Boisselle By	Island Shore Bv	Non-Regional	P2	0.18
Island Lakes Dr	Wayfarers Haven Af	Camirant Cr	Non-Regional	P2	0.32
Island Shore Bv	Tidewater By	Charbonneau Cr	Non-Regional	P2	0.15
Island Shore Bv	Island Cv	Waterfront Rd	Non-Regional	P2	0.16
Island Shore Bv	Leger Cr	Lagace Pl	Non-Regional	P2	0.20
Island Shore Bv	Waterfront Rd	Bishop Grandin Bv	Non-Regional	P2	0.26
Island Shore Bv	Huppe By	Leger Cr	Non-Regional	P2	0.16
Island Shore Bv	Lagace Pl	Pamela Rd	Non-Regional	P2	0.39
Island Shore Bv	Pamela Rd	Ebb Tide Dr	Non-Regional	P2	0.43
Island Shore Bv	Evelyne Reese Bv	Lands End Cv	Non-Regional	P2	0.20
Island Shore Bv	Bishop Grandin Bv	Waterfront Rd	Non-Regional	P2	0.25
Island Shore Bv	Lands End Cv	Henry Dormer Dr	Non-Regional	P2	0.18
Island Shore Bv	Ebb Tide Dr	Evely Reese Bv	Non-Regional	P2	0.19
Island Shore Bv	Waterfront Rd	Island Cv	Non-Regional	P2	0.15
Island Shore Bv	Tidewater By	Huppe By	Non-Regional	P2	0.45
Island Shore Bv	Charbonneau Cr	Gauvreau Rd	Non-Regional	P2	0.16
Island Shore Bv	Breakwater Cv	Charbonneau Cr	Non-Regional	P2	0.29
Island Shore Bv	Huppe By	Huppe By	Non-Regional	P2	0.16
Island Shore Bv	Waterside Cv	Island Cv	Non-Regional	P2	0.16

Island Shore Bv	Huppe By	Lighthouse Pt	Non-Regional	P2	0.16
Island Shore Bv	Breakwater Cv	Waterside Cv	Non-Regional	P2	0.18
Island Shore Bv	Island Shore Bv	Lighthouse Pt	Non-Regional	P2	0.02
Island Shore Bv	Tidewater By	Huppe By	Non-Regional	P2	0.42
Island Shore Bv	Charbonneau Cr	Breakwater Cv	Non-Regional	P2	0.28
Island Shore Bv	Island Lakes Dr	Leger Cr	Non-Regional	P2	0.31
Island Shore Bv	De La Seigneurie Bv	Henry Dormer Dr	Non-Regional	P2	0.40
Island Shore Bv	Waterside Cv	Tidal Cv	Non-Regional	P2	0.17
Island Shore Bv	Tidal Cv	Waterside Cv	Non-Regional	P2	0.16
John Forsyth Rd	Glenham Cv	Dakota St	Non-Regional	P2	0.15
John Forsyth Rd	Hackmore Cr	Glenham Cv	Non-Regional	P2	0.17
John Forsyth Rd	Coombs Dr	Baisinger Dr	Non-Regional	P2	0.17
John Forsyth Rd	Hackmore Cr	Theydon Pl	Non-Regional	P2	0.24
John Forsyth Rd	Beckwith Ln	Ashworth St S	Non-Regional	P2	0.24
John Forsyth Rd	Dakota St	Glenham Cv	Non-Regional	P2	0.15
John Forsyth Rd	Dakota St	Manorhaven Dr	Non-Regional	P2	0.31
John Forsyth Rd	Everden Rd	Winterhaven	Non-Regional	P2	0.18
John Forsyth Rd	Manorhaven Dr	Dakota St	Non-Regional	P2	0.31
John Forsyth Rd	John Forsyth Rd	Dakota St	Non-Regional	P2	0.13
John Forsyth Rd	Quantrell By	Quantrell By	Non-Regional	P2	0.16
John Forsyth Rd	John Forsyth Rd	Dakota St	Non-Regional	P2	0.12
John Forsyth Rd	Quantrell By	Aldgate Rd	Non-Regional	P2	0.20
John Forsyth Rd	Glenham Cv	Hackmore Cr	Non-Regional	P2	0.17
John Forsyth Rd	Ashworth St S	Quantrell By	Non-Regional	P2	0.19
John Forsyth Rd	Winterhaven Dr	Tretheway Cs	Non-Regional	P2	0.21
John Forsyth Rd	Manorhaven Dr	Baisinger Dr	Non-Regional	P2	0.17
John Forsyth Rd	John Forsyth Rd	Hackmore Cr	Non-Regional	P2	0.17
John Forsyth Rd	Baisinger Dr	Manorhaven Dr	Non-Regional	P2	0.17
John Forsyth Rd	Baisinger Dr	John Forsyth Rd	Non-Regional	P2	0.09
John Forsyth Rd	Everden Rd	Coombs Dr	Non-Regional	P2	0.27
John Forsyth Rd	Brotman By	Theydon Pl	Non-Regional	P2	0.18

John Forsyth Rd	Brotman By	Warde Av	Non-Regional	P2	0.48
John Forsyth Rd	Brotman By	Burland Av	Non-Regional	P2	0.17
Kingsclear Dr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.03
Lafrance Ln	Burning Glass Rd	Proulx Pl	Non-Regional	P2	0.19
Lafrance Ln	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.03
Lafrance Ln	Proulx Pl	Des Hivernants Bv	Non-Regional	P2	0.20
Lafrance Ln	Burning Glass Rd	Burning Glass Rd	Non-Regional	P2	0.02
Lakewood Bv	Brookhaven By	Meadowbrook Rd	Non-Regional	P2	0.15
Lakewood Bv	Fermor Av	Weatherstone Pl	Non-Regional	P2	0.02
Lakewood Bv	Beaverhill Bv	Cyril Pl	Non-Regional	P2	0.20
Lakewood Bv	Beaverhill Bv	Lakewood Bv	Non-Regional	P2	0.07
Lakewood Bv	Fermor Av	Weatherstone Pl	Non-Regional	P2	0.48
Lakewood Bv	Fermor Av	Vermillion Rd	Non-Regional	P2	0.48
Lakewood Bv	Beaverhill Bv	Beaverhill Bv	Non-Regional	P2	0.05
Lakewood Bv	Tahoe By	Tahoe By	Non-Regional	P2	0.16
Lakewood Bv	Bishop Grandin Bv	Mcgurran Pl	Non-Regional	P2	0.41
Lakewood Bv	Bishop Grandin Bv	Mcgurran Pl	Non-Regional	P2	0.18
Lakewood Bv	Appleby Cv	Beaverhill Bv	Non-Regional	P2	0.15
Lakewood Bv	Tamarac By	Tamarac By	Non-Regional	P2	0.17
Lakewood Bv	Appleby Cv	Mcgurran Pl	Non-Regional	P2	0.22
Lakewood Bv	Appleby Cv	Lonergan Pl	Non-Regional	P2	0.03
Lakewood Bv	Mcgurran Pl	Lonergan Pl	Non-Regional	P2	0.03
Lakewood Bv	Brookhaven By	Edgewater Dr	Non-Regional	P2	0.13
Lakewood Bv	Vermillion Rd	Weatherstone Pl	Non-Regional	P2	0.17
Lakewood Bv	Tamarac By	Willowlake Cr	Non-Regional	P2	0.20
Lakewood Bv	Burntwood Cr	Tamarac By	Non-Regional	P2	0.17
Lakewood Bv	Burntwood Cr	Cyril Pl	Non-Regional	P2	0.18
Lakewood Bv	Tahoe By	Edgewater Dr	Non-Regional	P2	0.16
Lakewood Bv	Brookhaven By	Brookhaven By	Non-Regional	P2	0.16
Lakewood Bv	Tahoe By	Willowlake Cr	Non-Regional	P2	0.23
Lakewood Bv	Meadowbrook Rd	Weatherstone Pl	Non-Regional	P2	0.17

Lakewood Bv	Vermillion Rd	Weatherstone Pl	Non-Regional	P2	0.17
Lakewood Bv	Beaverhill Bv	Beaverhill Bv	Non-Regional	P2	0.05
Lakewood Bv	Appleby Cv	Beaverhill Bv	Non-Regional	P2	0.08
Lighthouse Pt	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.01
Malmsbury Av	Burland Av	Burland Av	Non-Regional	P2	0.03
Manorhaven Dr	John Forsyth Rd	John Forsyth Rd	Non-Regional	P2	0.02
Marlene St	Beliveau Rd E	Worthington Av	Non-Regional	P3S	0.48
McKall By	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Meadowbrook Rd	Pebble Beach Rd	Lakewood Bv	Non-Regional	P2	0.65
Melnick Rd	Warde Av	Warde Av	Non-Regional	P2	0.02
Mount Laurel Cr	Capston Rd	Capston Rd	Non-Regional	P2	0.01
Mount Laurel Cr	Capston Rd	Garwick Cv	Non-Regional	P2	0.02
Newcroft Rd	Shamrock Dr	Cliffwood Dr	Non-Regional	P2	0.75
Niakwa Rd	Pine Bluff Rd	Pebble Beach Rd	Non-Regional	P2	0.36
Niakwa Rd	Archibald St	Pine Bluff Rd	Non-Regional	P2	0.19
Niakwa Rd	St Annes Rd	Seagrim Rd	Non-Regional	P2	0.38
Nordstrom Dr	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Normand Park Dr	Easy St	Kara Cv	Non-Regional	P2	0.18
Normand Park Dr	St Marys Rd	Henry Pehrson Cv	Non-Regional	P2	0.21
Normand Park Dr	Kara Cv	Redview Dr	Non-Regional	P2	0.18
Orford Cr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.01
Paddington Rd	Vadeboncoeur Dr	Aldgate Rd	Non-Regional	P2	0.35
Paddington Rd	Healy Cr	Vadeboncoeur Dr	Non-Regional	P2	0.38
Paddington Rd	Manby Av	Westbourne Cr	Non-Regional	P2	0.29
Paddington Rd	Burland Av	Pately Cr	Non-Regional	P2	0.19
Paddington Rd	Pately Cr	Warde Av	Non-Regional	P2	0.32
Paddington Rd	Manby Av	Burland Av	Non-Regional	P2	0.17
Pebble Beach Rd	Southmoor Rd	Willow Point Rd	Non-Regional	P2	0.17
Pebble Beach Rd	Niakwa Rd	Pine Bluff Rd	Non-Regional	P2	0.20
Pebble Beach Rd	Gleneagles Rd	Willow Point Rd	Non-Regional	P2	0.40
Pebble Beach Rd	Clarendon Rd	Royal Salinger Rd	Non-Regional	P2	0.16

Pebble Beach Rd	Pine Bluff Rd	Clarendon Rd	Non-Regional	P2	0.16
Pebble Beach Rd	Royal Salinger Rd	Southmoor Rd	Non-Regional	P2	0.16
Pebble Beach Rd	Gleneagles Rd	Willowlake Cr	Non-Regional	P2	0.15
Pebble Beach Rd	Fallbrook By	Southmoor Rd	Non-Regional	P2	0.17
Pebble Beach Rd	Fallbrook By	Fallbrook By	Non-Regional	P2	0.16
Pebble Beach Rd	Fallbrook By	Southmoor Rd	Non-Regional	P2	0.17
Pelican Pt	Robert Bockstael Dr	Robert Bockstael Dr	Non-Regional	P2	0.03
Peres Oblats Dr	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Postras Pl	Burland Av	Burland Av	Non-Regional	P2	0.03
Pynoo Pl	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Pynoo Pl	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Ralston Cr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.01
Ravensden Dr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.03
Ravensden Dr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.02
Red Lily Rd	Warde Av	Warde Av	Non-Regional	P2	0.06
Red Lily Rd	Warde Av	Warde Av	Non-Regional	P2	0.06
Red Moon Rd	Burning Glass Rd	Burning Glass Rd	Non-Regional	P2	0.02
Redpoll Pl	Robert Bockstael Dr	Robert Bockstael Dr	Non-Regional	P2	0.03
Redview Dr	Easy St	End	Non-Regional	P2	0.19
Redview Dr	Normand Park Dr	Brambleforde Cr	Non-Regional	P2	0.16
Redview Dr	Normand Park Dr	Normand Park Dr	Non-Regional	P2	0.17
Robert Bockstael Dr	Redpoll Pl	Warde Av	Non-Regional	P2	0.31
Robert Bockstael Dr	Warde Av	Repoll Pl	Non-Regional	P2	0.32
Robert Bockstael Dr	Pelican Pt	Sage Creek Bv	Non-Regional	P2	0.19
Robert Bockstael Dr	Robert Bockstael Dr	Robert Bockstael Dr	Non-Regional	P2	0.01
Robert Bockstael Dr	Robert Bockstael Dr	Pelican Pt	Non-Regional	P2	0.16
Robert Bockstael Dr	Pelican Pt	Redpoll Pl	Non-Regional	P2	0.20
Robert Bockstael Dr	Redpoll Pl	Pelican Pt	Non-Regional	P2	0.20
Royal Mint Dr	Red Willow Cr	East Mint Pl	Non-Regional	P2	0.67
Royal Mint Dr	East Mint Pl	Goldenrod Cv	Non-Regional	P2	0.19
Royal Mint Dr	Red Willow Cr	Blue Mountain Rd	Non-Regional	P2	0.16

Royal Mint Dr	East Mint Pl	East Mint Pl	Non-Regional	P2	0.03
Royal Mint Dr	Morning Glory Cr	Royal Park Cr	Non-Regional	P2	0.17
Royal Mint Dr	Rainbow Cv	Royal Park Cr	Non-Regional	P2	0.49
Royal Mint Dr	Blue Mountain Rd	Rainbow Cv	Non-Regional	P2	0.37
Royal Mint Dr	Dawson Rd S	Blue Mountain Rd	Non-Regional	P2	0.12
Royal Mint Dr	Goldenrod Cv	Morning Glory Cr	Non-Regional	P2	0.49
Sage Creek Bv	Warde Bv	Wildflower Wy	Non-Regional	P2	0.28
Sage Creek Bv	Warde Av	Blue Sun Dr	Non-Regional	P2	0.12
Sage Creek Bv	Heartleaf Ln	Warde Av	Non-Regional	P2	0.28
Sage Creek Bv	Sundog Dr	Robert Bockstael Dr	Non-Regional	P2	0.54
Sage Creek Bv	Wildflower Wy	Borealis By	Non-Regional	P2	0.32
Sage Creek Bv	Warde Bv	Warde Bv	Non-Regional	P2	0.05
Sage Creek Bv	Warde Av	Warde Av	Non-Regional	P2	0.06
Sage Creek Bv	Ranville Rd	Charity Ln	Non-Regional	P2	0.37
Sage Creek Bv	Blue Sun Dr	Charity Ln	Non-Regional	P2	0.18
Sage Creek Bv	Charity Ln	Blue Sun Dr	Non-Regional	P2	0.18
Sage Creek Bv	Charity Ln	Ranville Rd	Non-Regional	P2	0.38
Sage Creek Bv	Sundog Dr	Borealis By	Non-Regional	P2	0.24
Sage Creek Bv	Wildflower Wy	Wildflower Wy	Non-Regional	P2	0.02
Sage Creek Bv	Heartleaf Ln	Heartleaf Ln	Non-Regional	P2	0.02
Sage Creek Bv	Sage Creek Bv	Heartleaf Ln	Non-Regional	P2	0.18
Sage Creek Bv	Blue Sun Dr	Warde Av	Non-Regional	P2	0.12
Seagrim Rd	Alpine Av	Fermor Av	Non-Regional	P2	0.10
Seagrim Rd	Seagrim Rd	Fermor Av	Non-Regional	P2	0.08
Seagrim Rd	Alpine Av	Niakwa Rd	Non-Regional	P2	0.30
Shamrock Dr	Beaverhill Bv	Cliffwood Dr	Non-Regional	P2	0.56
Shamrock Dr	Cliffwood Dr	Newcombe Cr	Non-Regional	P2	0.17
Shamrock Dr	Newcroft Rd	Newcombe Cr	Non-Regional	P2	0.18
Silver Sage Cr	Edward Turner Dr	Edward Turner Dr	Non-Regional	P2	0.03
Sloane Cr	Aldgate Rd	Aldgate Rd	Non-Regional	P2	0.02
Tidewater By	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03

Van Hull Wy	Van Hull Wy	Van Hull Wy	Non-Regional	P2	0.03
Van Hull Wy	Marvan Cv	Portside Dr	Non-Regional	P2	0.19
Van Hull Wy	Portside Dr	Mardena Cr	Non-Regional	P2	0.17
Van Hull Wy	Van Hull Wy	St Mary's Rd	Non-Regional	P2	0.40
Van Hull Wy	Van Hull Wy	St Mary's Rd	Non-Regional	P2	0.07
Van Hull Wy	St Marys Rd	Mardena Cr	Non-Regional	P2	0.44
Van Hull Wy	Portside Dr	Marvan Cv	Non-Regional	P2	0.19
Vermillion Rd	Clearwater Rd	Brereton Rd	Non-Regional	P2	0.16
Vermillion Rd	Lake Park Dr	Bonavista Pl	Non-Regional	P2	0.18
Vermillion Rd	Clearwater Rd	Lake Park Dr	Non-Regional	P2	0.16
Vermillion Rd	Beaverhill Bv	Beaverhill Bv	Non-Regional	P2	0.02
Vermillion Rd	Weatherstone Pl	Lakewood Bv	Non-Regional	P2	0.03
Vermillion Rd	Clearwater Rd	Minaki By	Non-Regional	P2	0.16
Vermillion Rd	Brereton Rd	Minaki By	Non-Regional	P2	0.16
Vermillion Rd	Minaki By	Minaki By	Non-Regional	P2	0.16
Vermillion Rd	Bonavista Pl	Lake Park Dr	Non-Regional	P2	0.18
Vermillion Rd	Lakewood Bv	Clearwater Rd	Non-Regional	P2	0.46
Vermillion Rd	Beaverhill Bv	Lake Park Dr	Non-Regional	P2	0.28
Warde Av	De La Seigneurie Bv	Evelyne Reese Bv	Non-Regional	P2	0.28
Warde Av	Warde Av	Sage Creek Bv	Non-Regional	P2	0.23
Warde Av	Sage Creek Bv	Red Lily Rd	Non-Regional	P2	0.84
Warde Av	Kotelko Dr	Lagimodiere Bv	Non-Regional	P2	0.10
Warde Av	Warde Av	Lagimodiere Bv	Non-Regional	P2	0.08
Warde Av	Lagimodiere Bv	Kotelko Dr	Non-Regional	P2	0.10
Warde Av	Kotelko Dr	Des Hivernants Bv	Non-Regional	P2	0.33
Warde Av	Des Hivernants Bv	Kotelko Dr	Non-Regional	P2	0.33
Warde Av	Des Hivernants Bv	Warde Av	Non-Regional	P2	0.31
Warde Av	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.05
Warde Av	Red Lily Rd	Des Hivernants Bv	Non-Regional	P2	1.12
Warde Av	Red Lily Rd	Red Lily Rd	Non-Regional	P2	0.05
Warde Av	Warde Av	Melnick Rd	Non-Regional	P2	0.10

Warde Av	Red Lily Rd	Red Lily Rd	Non-Regional	P2	0.05
Warde Av	Red Lily Rd	Warde Av	Non-Regional	P2	0.21
Warde Av	Sage Creek Bv	Sage Creek Bv	Non-Regional	P2	0.06
Warde Av	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.06
Warde Av	Warde Av	Lagimodiere Bv	Non-Regional	P2	0.09
Warde Av	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.06
Warde Av	De La Seigneurie Bv	Evelyne Reese Bv	Non-Regional	P2	0.80
Warde Av	Evelyne Reese Bv	Evelyne Reese Bv	Non-Regional	P2	0.03
Warde Av	Warde Av	De La Seigneurie Bv	Non-Regional	P2	0.87
Warde Av	De La Seigneurie Bv	De La Seigneurie Bv	Non-Regional	P2	0.03
Warde Av	Melnick Rd	Lagimodiere Bv	Non-Regional	P2	0.11
Warde Av	Lagimodiere Bv	Melnick Rd	Non-Regional	P2	0.11
Warde Av	Warde Av	Red Lily Rd	Non-Regional	P2	0.24
Waterfront Rd	Island Shore Bv	Windlass By	Non-Regional	P2	0.61
Waterfront Rd	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Waterfront Rd	Desjardins Dr	Windlass By	Non-Regional	P2	0.58
Waterside Cv	Island Shore Bv	Island Shore Bv	Non-Regional	P2	0.03
Willow Point Rd	Pebble Beach Rd	Gleneagles Rd	Non-Regional	P3S	0.34
Willow Point Rd	Gleneagles Rd	Willowlake Cr	Non-Regional	P3S	0.78
Willowlake Cr	Willow Point Rd	Pebble Beach Rd	Non-Regional	P2	0.57
Willowlake Cr	Southbridge Dr	Limetree Cv	Non-Regional	P2	0.14
Willowlake Cr	Bluewater Cr	Beaverhill Bv	Non-Regional	P2	0.48
Willowlake Cr	Limetree Cv	Southbridge Dr	Non-Regional	P2	0.15
Willowlake Cr	Southbridge Dr	Willow Point Rd	Non-Regional	P2	0.17
Willowlake Cr	Lakewood Bv	Stillwater Rd	Non-Regional	P2	0.24
Willowlake Cr	Stillwater Rd	Pebble Beach Rd	Non-Regional	P2	0.28
Willowlake Cr	Bluewater Cr	Southbridge Dr	Non-Regional	P2	0.10
Wood Sage Cr	Des Hivernants Bv	Des Hivernants Bv	Non-Regional	P2	0.03
<b>Total</b>					<b>101.33</b>

## APPENDIX B - EAST AREA (SOUTH EAST) PRIORITY III STREETS

STREET NAME	FROM STREET	TO STREET	SNOW ROUTE	PRIORITY	LANE KM
Abbotsfield Dr	Coleman Cv	Fulton St	N/A	P3	0.73
Abbotsfield Dr	Coleman Cv	Hochman Av	N/A	P3	0.07
Abbotsfield Dr	Ashworth St S	Lanyon Dr	N/A	P3	0.58
Abbotsfield Dr	Lanyon Dr	Fulton St	N/A	P3	0.17
Abbotsfield Dr	Hochman Av	Estabrook Cv	N/A	P3	0.11
Abbotsfield Dr	Julia Rd	Aldgate Rd	N/A	P3	0.18
Abbotsfield Dr	Estabrook Cv	Julia Rd	N/A	P3	0.24
Abington Rd	Beaverhill Bv	End	N/A	P3	0.36
Acton Pl	Brixton By	End	N/A	P3	0.18
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.19
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.36
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.29
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.38
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.26
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.19
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.29
Aldgate Rd	Aldgate Rd	Aldgate Rd	N/A	P3	0.31
Appleby Cv	Lakewood Bv	End	N/A	P3	0.18
Arpin By	Pauline Boutal Cr	Pauline Boutal Cr	N/A	P3	0.69
Ashwood Cv	Sweetwater By	End	N/A	P3	0.20
Aspen Cv	Grover Hills Ln	End	N/A	P3	0.20
Athabasca Tl	Bonaventure Dr E	Bonaventure Dr E	N/A	P3	0.17
Baisinger Dr	Ashworth St S	Everden Rd	N/A	P3	0.38
Baisinger Dr	John Forsyth Rd	Gaitwin Cv	N/A	P3	0.39
Baisinger Dr	Everden Rd	Manorhaven Dr	N/A	P3	0.87
Baptiste Tourond Rd	Sage Creek Bv	Moonbeam Wy	N/A	P3	0.18
Baptiste Tourond Rd	Moonbeam Wy	Moonbeam Wy	N/A	P3	0.34

Battersea Close	Scammel Rd	Scammel Rd	N/A	P3	0.29
Bayfield Av	Clayton Dr	St Annes Rd	N/A	P3	0.33
Bayshore Cv	Beaverhill Bv	End	N/A	P3	0.31
Baywater Pl	Beaverhill Bv	Beaverhill Bv	N/A	P3	0.17
Beaupre By	Charbonneau Cr	Gauvreau Rd	N/A	P3	0.57
Beaverhill Bv	Beaverhill Bv	Beaverhill Bv	N/A	P3	0.12
Beckwith Ln	John Forsyth Rd	Winterhaven	N/A	P3	0.22
Becontree By	Aldgate Rd	Eastcote Dr	N/A	P3	0.59
Bellington Pl	Southbridge Dr	End	N/A	P3	0.17
Berrydale Av	Clayton Dr	St Annes Rd	N/A	P3	0.35
Berrydale Av	Clayton Dr	End	N/A	P3	0.22
Berube Pl	Charbonneau Cr	End	N/A	P3	0.17
Black Pearl Cv	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.30
Blackheath Cs	Hallfield By	Hallfield By	N/A	P3	0.21
Blue Sun Dr	Soltice Ln	Charity Ln	N/A	P3	0.47
Blue Sun Dr	Sage Creek Bv	Soltice Ln	N/A	P3	0.51
Blue Sun Dr	Charity Ln	Sage Creek Bv	N/A	P3	0.52
Bluestem Cv	Blue Mountain Rd	End	N/A	P3	0.22
Bluewater Cr	Willowlake Cr	Bluewater Cr	N/A	P3	0.40
Bluewater Cr	Bluewater Cr	Cherwell Rd	N/A	P3	0.35
Bluewater Cr	Cherwell Rd	Cherwell Rd	N/A	P3	0.64
Bluewater Cr	Bluewater Cr	Beaverhill Bv	N/A	P3	0.39
Boisselle By	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.56
Bonaventure Dr E	Athabasca Tl	Athabasca Tl	N/A	P3	0.92
Bonaventure Dr E	Evelyne Reese Bv	Athabasca Tl	N/A	P3	0.38
Bonaventure Dr E	Evelyne Reese Bv	Athabasca Tl	N/A	P3	0.39
Bonaventure Dr W	Evelyne Reese Bv	Bow Water Dr	N/A	P3	1.23
Bonaventure Dr W	Evelyne Reese Bv	Wapta Cr	N/A	P3	0.31
Bonaventure Dr W	Wapta Cr	Wapta Cr	N/A	P3	0.23
Bonaventure Dr W	Thelon Wy	Bonaventure Dr W	N/A	P3	0.17
Bonaventure Dr W	Geneva Ln	Thelon Wy	N/A	P3	0.18

Bonaventure Dr W	Crimson Wy	Geneva Ln	N/A	P3	0.18
Bonaventure Dr W	Bow Water Dr	Crimson Wy	N/A	P3	0.17
Bonaventure Dr W	Evelyne Reese Bv	Evelyne Reese Bv	N/A	P3	0.02
Bonavista Pl	End	Vermillion Rd	N/A	P3	0.26
Bonita Av	Clayton Dr	Havelock Av	N/A	P3	0.33
Boone Pl	End	Paddington Rd	N/A	P3	0.25
Borealis By	End	Sage Creek Bv	N/A	P3	0.32
Bounty By	Island Lakes Dr	End	N/A	P3	0.18
Bow Water Dr	Evelyne Reese Bv	Bonaventure Dr W	N/A	P3	0.44
Brabant Cv	Aldgate Rd	Aldgate Rd	N/A	P3	0.26
Brambleforde Cr	Florian Pl	End	N/A	P3	0.49
Brambleforde Cr	Redview Dr	Florian Pl	N/A	P3	0.19
Breakwater Cv	Island Shore Bv	End	N/A	P3	0.26
Brereton Rd	Vermillion Rd	Clearwater Rd	N/A	P3	0.48
Brian Monkman By	De La Seigneurie Bv	Island Shore Bv	N/A	P3	0.73
Brian Monkman By	Brian Monkman By	Brian Monkman By	N/A	P3	0.14
Brixton By	Acton Pl	Cardno Cv	N/A	P3	0.17
Brixton By	Cardno Cv	Burland Av	N/A	P3	0.87
Brixton By	Acton Pl	Burland Av	N/A	P3	0.36
Bromton Rd	Beaverhill Bv	End	N/A	P3	0.37
Brookhaven By	Lakewood Bv	Stillwater Rd	N/A	P3	0.21
Brookhaven By	Lakewood Bv	Stillwater Rd	N/A	P3	0.93
Brotman By	John Forsyth Rd	John Forsyth Rd	N/A	P3	0.87
Bruton Pl	Trowbridge By	End	N/A	P3	0.21
Buckley Trow By	Sidebottom Dr	Sidebottom Dr	N/A	P3	0.51
Burntwood Cr	Beaverhill Bv	Lakewood Bv	N/A	P3	0.68
Bursill Rd	Newcombe Cr	Newcombe Cr	N/A	P3	0.48
Cactus Cv	Aldgate Rd	End	N/A	P3	0.18
Cambrai Cv	Malmsbury Av	Malmsbury Av	N/A	P3	0.12
Camirant Cr	Island Lakes Dr	Langton Dr	N/A	P3	0.18
Camirant Cr	Langton Dr	Langton Dr	N/A	P3	0.66

Camirant Cr	Langton Dr	Island Lakes Dr	N/A	P3	0.44
Capston Rd	Capston Rd	Capston Rd	N/A	P3	0.18
Captains Wy	Pamela Rd	Ebb Tide Dr	N/A	P3	0.67
Cardno Cv	Brixton By	End	N/A	P3	0.15
Carnaby Pl	Orchard Ln	End	N/A	P3	0.22
Cassin Cr	De La Seigneurie Bv	Smugglers Cv	N/A	P3	0.27
Cassin Cr	Smugglers Cv	Quayside Cv	N/A	P3	0.41
Cassin Cr	Quayside Cv	De La Seigneurie Bv	N/A	P3	0.40
Causeway By	Pauline Boutal Cr	Pauline Boutal Cr	N/A	P3	0.42
Cedarcroft Pl	Ravensden Dr	End	N/A	P3	0.32
Chancery By	Burland Av	Burland Av	N/A	P3	0.71
Charbonneau Cr	Beaupre By	Berube Pl	N/A	P3	0.15
Charbonneau Cr	Beaupre By	Joyal Pl	N/A	P3	0.16
Charbonneau Cr	Berube Pl	Island Shore Bv	N/A	P3	0.23
Charbonneau Cr	Gauvreau Rd	Joyal Pl	N/A	P3	0.92
Charbonneau Cr	Gauvreau Rd	End	N/A	P3	0.23
Charity Ln	Blue Sun Dr	Ranville Rd	N/A	P3	0.18
Charity Ln	Ranville Rd	Sage Creek Bv	N/A	P3	0.17
Chatsworth Pl	Park Grove Dr	End	N/A	P3	0.22
Chenier By	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.42
Cherwell Rd	Bluewater Cr	Farnham Rd	N/A	P3	0.17
Cherwell Rd	Bluewater Cr	Beaverhill Bv	N/A	P3	0.19
Cherwell Rd	Bromton Rd	Bluewater Cr	N/A	P3	0.15
Chesham Cv	Eastcote Dr	Eastcote Dr	N/A	P3	0.17
Clapham Cv	Kamberwell By	Kamberwell By	N/A	P3	0.13
Clarendon Rd	Pebble Beach Rd	Royal Salinger Rd	N/A	P3	0.54
Clayton Dr	St Annes Rd	Bonita Av	N/A	P3	0.43
Clayton Dr	Berrydale Av	Bayfield Av	N/A	P3	0.16
Clayton Dr	Berrydale Av	Oustic Av E	N/A	P3	0.15
Clayton Dr	Wingham Av	Bayfield Av	N/A	P3	0.21
Clayton Dr	Bonita Av	Wingham Av	N/A	P3	0.19

Clearwater Rd	Lakemere Pl	Brereton Rd	N/A	P3	0.06
Clearwater Rd	Vermillion Rd	Lakemere Pl	N/A	P3	0.24
Clearwater Rd	Vermillion Rd	Brereton Rd	N/A	P3	1.16
Clerkenwell By	Aldgate Rd	Aldgate Rd	N/A	P3	0.59
Cliffwood Dr	Shamrock Dr	Dayton Dr	N/A	P3	0.18
Cliffwood Dr	Manring Cv	Manring Cv	N/A	P3	0.38
Cliffwood Dr	Dayton Dr	Manring Cv	N/A	P3	0.71
Cliffwood Dr	Manring Cv	Dayton Dr	N/A	P3	0.23
Cliffwood Dr	Manring Cv	Manring Cv	N/A	P3	0.12
Cliffwood Dr	Dayton Dr	Newcroft Rd	N/A	P3	0.18
Cliffwood Dr	Capston Rd	End	N/A	P3	0.30
Coleman Cv	Abbotsfield Dr	End	N/A	P3	0.19
Collingwood Cr	Beaverhill Bv	Hidden Valley Cv	N/A	P3	0.40
Collingwood Cr	Hidden Valley Cv	Park Grove Dr	N/A	P3	0.26
Colshort Pl	Ravensden Dr	End	N/A	P3	0.18
Coneflower Cr	Fisette Pl	Sundog Dr	N/A	P3	0.49
Coneflower Cr	Sundog Dr	Sundog Dr	N/A	P3	0.22
Coombs Dr	Everden Rd	Croft Cl	N/A	P3	0.21
Coombs Dr	Draho Cr	Everden Rd	N/A	P3	0.18
Coombs Dr	Ashworth St S	Draho Cr	N/A	P3	0.19
Coombs Dr	Croft Cl	John Forsyth Rd	N/A	P3	0.41
Copperstone Cr	Red Willow Cr	Blue Mountain Rd	N/A	P3	0.77
Coral Reef Cv	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.69
Corbeil Pl	Gauvreau Rd	End	N/A	P3	0.28
Cormorant By	Edgewater Dr	Watercress Rd	N/A	P3	0.27
Cormorant By	Edgewater Dr	Watercress Rd	N/A	P3	0.96
Cotswold Pl	Wainwright Cr	Dacquay Cr	N/A	P3	0.18
Cotswold Pl	Dacquay Cr	Dacquay Cr	N/A	P3	0.31
Cotter Cir	Aldgate Rd	Aldgate Rd	N/A	P3	0.26
Courtwood Pl	Beaverhill Bv	End	N/A	P3	0.22
Coxswain Cv	Pamela Rd	End	N/A	P3	0.19

Creek Bend Rd	Creek Bend Rd Crossing of Seine River	43m South of Seine River	N/A	P3	0.09
Creek Bend Rd	End of Concrete	Creek Bend Rd	N/A	P3	0.42
Creek Bend Rd Crossing of Seine River	Creek Bend Rd	Creek Bend Rd	N/A	P3	0.06
Crimson Wy	Evelyne Reese Bv	Bonaventure Dr W	N/A	P3	0.41
Croft Cir	Coombs Dr	End	N/A	P3	0.24
Culloden Rd	Beaverhill Bv	End	N/A	P3	0.38
Cummings Cr	Kingsclear Dr	Aldgate Rd	N/A	P3	0.46
Cyril Pl	Lakewood Bv	End	N/A	P3	0.26
Dacquay Cr	Wainwright Cr	Cotswold Pl	N/A	P3	0.65
Dayton Dr	Cliffwood Dr	Cliffwood Dr	N/A	P3	1.03
De Caigny Cv	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.72
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.24
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.54
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.34
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.11
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.22
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.19
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.17
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.34
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.20
De La Seigneurie Bv	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.21
Desjardins Dr	Desjardins Dr	Desjardins Dr	N/A	P3	0.20
Desjardins Dr	Desjardins Dr	Desjardins Dr	N/A	P3	0.36
Desjardins Dr	Desjardins Dr	Desjardins Dr	N/A	P3	0.21
Deswood Pl	Newcombe Cr	End	N/A	P3	0.22
Diamond Dust Dr	Edward Turner Dr	John Pelland Rd	N/A	P3	0.19
Diamond Dust Dr	Lacewing Ln	Lacewing Ln	N/A	P3	0.35
Diamond Dust Dr	John Pelland Rd	Lacewing Ln	N/A	P3	0.18
Dockside Wy	Henry Dormer Dr	Georges Druwf Cr	N/A	P3	0.74
Dockside Wy	Georges Druwf Cr	De La Seigneurie Bv	N/A	P3	0.19
Dogwood Cv	Southbridge Dr	End	N/A	P3	0.18

Dorsay Pl	Stillwater Rd	End	N/A	P3	0.31
Dragonfly Ct	Edward Turner Dr	Lacewing Ln	N/A	P3	0.43
Dragonfly Ct	Lacewing Ln	Lacewing Ln	N/A	P3	0.30
Draho Cr	Coombs Dr	Everden Rd	N/A	P3	0.49
Driftwood By	Queensway Cr	Beaverhill Bv	N/A	P3	0.52
Driftwood By	Queensway Cr	Beaverhill Bv	N/A	P3	0.19
Driftwood By	Queensway Cr	Queensway Cr	N/A	P3	0.59
East Plains Dr	High Plain Rd	High Plain Rd	N/A	P3	0.22
East Plains Dr	Edward Turner Dr	High Plain Rd	N/A	P3	0.53
Eastcote Dr	Aldgate Rd	Chesham Cv	N/A	P3	0.74
Eastcote Dr	Becontree By	Chesham Cv	N/A	P3	0.26
Eastcote Dr	Becontree By	Aldgate Rd	N/A	P3	0.19
Eastcote Dr	Chesham Cv	Chesham Cv	N/A	P3	0.03
Easy St	Normand Park Dr	Reese Cv	N/A	P3	0.32
Easy St	Redview Dr	Easy St	N/A	P3	0.18
Easy St	Easy St	Reese Cv	N/A	P3	0.72
Easy St	Normand Park Dr	Easy St	N/A	P3	0.33
EB Clayton Rd	Faraway Ln	Aldgate Rd	N/A	P3	0.17
EB Clayton Rd	Elsey Rd	Elsey Rd	N/A	P3	0.22
EB Clayton Rd	Faraway Ln	Elsey Rd	N/A	P3	0.34
Ebb Tide Dr	Captains Wy	Ebb Tide Dr	N/A	P3	0.63
Ebb Tide Dr	Ebb Tide Dr	Ebb Tide Dr	N/A	P3	0.16
Ebb Tide Dr	Coxswain Cv	Captains Wy	N/A	P3	0.23
Ebb Tide Dr	Ebb Tide Dr	Ebb Tide Dr	N/A	P3	0.03
Ebb Tide Dr	Island Shore Bv	Ebb Tide Dr	N/A	P3	0.45
Edgemont Dr	Marwood Cr	Marwood Cr	N/A	P3	0.58
Edgemont Dr	Beaverhill Bv	Jade Pl	N/A	P3	0.27
Edgemont Dr	Jade Pl	Harwick Ln	N/A	P3	0.40
Edgemont Dr	Beaverhill Bv	Marwood Cr	N/A	P3	0.21
Edgemont Dr	Marwood Cr	Harwick Ln	N/A	P3	0.49
Elsey Rd	Sidebottom Dr	EB Clayton Rd	N/A	P3	0.19

Elsey Rd	End	Aldgate Rd	N/A	P3	0.20
Erindale Cr	John Forsyth Rd	Aldgate Rd	N/A	P3	0.42
Estabrook Cv	Abbotsfield Dr	End	N/A	P3	0.23
Evelyne Reese Bv	Evelyne Reese Bv	Evelyne Reese Bv	N/A	P3	0.19
Evelyne Reese Bv	Evelyne Reese Bv	Evelyne Reese Bv	N/A	P3	0.19
Evelyne Reese Bv	Island Shore Bv	End	N/A	P3	0.22
Evelyne Reese Bv	Bonaventure Dr E	Bonaventure Dr E	N/A	P3	0.26
Evelyne Reese Bv	Island Shore Bv	Bonaventure Dr E	N/A	P3	0.12
Evelyne Reese Bv	Thelon Wy	Bonaventure Dr W	N/A	P3	0.17
Evelyne Reese Bv	Bonaventure Dr E	Crimson Wy	N/A	P3	0.17
Evelyne Reese Bv	Crimson Wy	Geneva Ln	N/A	P3	0.18
Evelyne Reese Bv	Geneva Ln	Thelon Wy	N/A	P3	0.18
Evelyne Reese Bv	Bonaventure Dr W	Thelon Wy	N/A	P3	0.17
Evelyne Reese Bv	Bonaventure Dr W	Warde Av	N/A	P3	0.21
Evelyne Reese Bv	Warde Av	Bonaventure Dr W	N/A	P3	0.22
Everden Rd	Coombs Dr	John Forsyth Rd	N/A	P3	0.24
Everden Rd	Baisinger Dr	Coombs Dr	N/A	P3	0.18
Everden Rd	Baisinger Dr	Ashworth St S	N/A	P3	0.58
Everden Rd	John Forsyth Rd	Draho Cr	N/A	P3	0.25
Everglade Pl	Beaverhill Bv	End	N/A	P3	0.25
Everingham By	Aldgate Rd	Aldgate Rd	N/A	P3	0.54
Fallbrook By	Pebble Beach Rd	Pebble Beach Rd	N/A	P3	0.87
Faraway Ln	Aldgate Rd	EB Clayton Rd	N/A	P3	0.42
Farnham Rd	Beaverhill Bv	Cherwell Rd	N/A	P3	0.44
Farnsworth Cr	Kellendonk Rd	Kellendonk Rd	N/A	P3	0.25
Farnsworth Cr	Kellendonk Rd	Aldgate Rd	N/A	P3	0.50
Fernwood Av	St Annes Rd	End	N/A	P3	0.22
Fisette Pl	Coneflower Cr	Coneflower Cr	N/A	P3	0.19
Fisette Pl	Sage Creek Bv	Coneflower Cr	N/A	P3	0.19
Florian Pl	Brambleforde Cr	End	N/A	P3	0.06
Fonseca Pl	Aldgate Rd	Aldgate Rd	N/A	P3	0.22

Frigate By	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.55
Fulton St	Hochman Av	Abbotsfield Dr	N/A	P3	0.43
Fulton St	Hochman Av	Lanyon Dr	N/A	P3	0.41
Fulton St	Ashworth St S	Lanyon Dr	N/A	P3	0.43
Furness By	Burland Av	Healy Cr	N/A	P3	0.45
Gablehurst Cr	John Forsyth Rd	Ashworth St S	N/A	P3	0.51
Gadwall Pl	Stillwater Rd	End	N/A	P3	0.22
Gaitwin Cv	Baisinger Dr	End	N/A	P3	0.19
Garwick Cv	Capston Rd	Capston Rd	N/A	P3	0.73
Gauvreau Rd	Beaupre By	Charbonneau Cr	N/A	P3	0.16
Gauvreau Rd	Beaupre By	Corbeil Pl	N/A	P3	0.07
Gauvreau Rd	Corbeil Pl	Island Shore Bv	N/A	P3	0.22
Geneva Ln	Evelyne Reese Bv	Bonaventure Dr W	N/A	P3	0.41
George Druwe Cr	Henry Dormer Dr	Dockside Wy	N/A	P3	0.43
Gleneagles Rd	Pebble Beach Rd	Willow Point Rd	N/A	P3	0.73
Glenham Cv	John Forsyth Rd	End	N/A	P3	0.23
Gobert Cr	Aldgate Rd	Vielliers Pl	N/A	P3	0.46
Gobert Cr	Vermette Pl	Willesden Cr	N/A	P3	0.03
Gobert Cr	Parenteau Pl	Vermette Pl	N/A	P3	0.18
Gobert Cr	Parenteau Pl	Vielliers Pl	N/A	P3	0.19
Gobert Cr	Willesden Cr	Aldgate Rd	N/A	P3	0.53
Goldenrod Cv	Royal Mint Dr	End	N/A	P3	0.26
Grey Owl Pl	Edward Turner Dr	Edward Turner Dr	N/A	P3	0.34
Grover Hills Ln	Aspen Cv	Beaverhill Bv	N/A	P3	0.50
Grover Hills Ln	Aspen Cv	Vermillion Rd	N/A	P3	0.21
Guernsey Ln	Wainwright Cr	Wainwright Cr	N/A	P3	0.51
Guernsey Ln	Aldgate Rd	Wainwright Cr	N/A	P3	0.19
Gull Wing By	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.72
Gwynne Rd	Scholberg Ln	Sabourin Pl	N/A	P3	0.17
Hacault Pl	Pamela Rd	End	N/A	P3	0.18
Hackmore Cr	Highbury Rd	John Forsyth Rd	N/A	P3	0.49

Hallfield By	Aldgate Rd	Sloane Cr	N/A	P3	0.29
Hallfield By	Ralston Cr	Hallfield By	N/A	P3	0.17
Hallfield By	Hallfield Pl	Blackheath Cs	N/A	P3	0.26
Hallfield By	Aldgate Rd	Ralston Cr	N/A	P3	0.18
Hallfield By	Sloane Cr	Hallfield Pl	N/A	P3	0.18
Hallfield By	Blackheath Cs	Upavon Rd	N/A	P3	0.19
Hallfield Pl	Hallfield By	Hallfield By	N/A	P3	0.27
Harbours End Cv	Pauline Boutal Cr	End	N/A	P3	0.25
Harding Cr	Ravensden Dr	Ravensden Dr	N/A	P3	0.35
Harding Cr	Aldgate Rd	Ravensden Dr	N/A	P3	0.37
Harwick Ln	Beaverhill Bv	Edgemont Dr	N/A	P3	0.51
Hazelnut Ln	Tallgrass Cr	Tallgrass Cr	N/A	P3	0.22
Healy Cr	Furness By	Paddington Rd	N/A	P3	0.52
Healy Cr	Burland Av	Furness By	N/A	P3	0.29
Heartleaf Ln	Purplesage Cr	Heartleaf Ln	N/A	P3	0.10
Heartleaf Ln	Purplesage Cr	Purplesage Cr	N/A	P3	0.22
Heartleaf Ln	Sage Creek Bv	Purplesage Cr	N/A	P3	0.11
Heartleaf Ln	Purplesage Cr	Sage Creek Bv	N/A	P3	0.11
Hedgewood Cv	Portside Dr	End	N/A	P3	0.17
Henry Dormer Dr	Henry Dormer Dr	Henry Dormer Dr	N/A	P3	0.15
Henry Dormer Dr	Island Shore Bv	Georges Druwf Cr	N/A	P3	0.19
Henry Dormer Dr	Georges Druwf Cr	Dockside Wy	N/A	P3	0.64
Henry Pehrson Cv	Easy St	End	N/A	P3	0.06
Hidden Valley Cv	Collingwood Cr	End	N/A	P3	0.18
High Plain Rd	East Plains Rd	End	N/A	P3	0.10
High Plain Rd	Red Sky Rd	East Plains Dr	N/A	P3	0.09
High Plain Rd	Red Sky Rd	Red Sky Rd	N/A	P3	0.28
High Plain Rd	Red Sky Rd	West Plains Dr	N/A	P3	0.19
Higham By	Aldgate Rd	Aldgate Rd	N/A	P3	0.51
Highcastle Cr	Keelegate Pl	Aldgate Rd	N/A	P3	0.45
Hindle Gt	Aldgate Rd	Aldgate Rd	N/A	P3	0.26

Hindley Av	St Annes Rd	End	N/A	P3	0.74
Hochman Av	Fulton St	Lanyon Dr	N/A	P3	0.23
Hochman Av	Fulton St	Abbotsfield Dr	N/A	P3	0.17
Huppe By	Island Shore Bv	Island Shore Bv	N/A	P3	0.67
Ironweed Rd	Tallgrass Cr	Tallgrass Cr	N/A	P3	0.25
Ironweed Rd	Tallgrass Cr	Des Hivernants Bv	N/A	P3	0.11
Ironweed Rd	Tallgrass Cr	Des Hivernants Bv	N/A	P3	0.11
Island Cv	Island Shore Bv	End	N/A	P3	0.18
Island Lakes Dr	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.18
Island Lakes Dr	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.27
Island Shore Bv	Island Shore Bv	Island Shore Bv	N/A	P3	0.24
Island Shore Bv	Island Shore Bv	Island Shore Bv	N/A	P3	0.25
Island Shore Bv	Island Shore Bv	Island Shore Bv	N/A	P3	0.29
Island Shore Bv	Island Shore Bv	Island Shore Bv	N/A	P3	0.19
Island Shore Bv	Island Shore Bv	Island Shore Bv	N/A	P3	0.18
Islington Ct	Scammel Rd	Scammel Rd	N/A	P3	0.26
Jade Pl	Edgemont Dr	End	N/A	P3	0.22
John Forsyth Rd	John Forsyth Rd	John Forsyth Rd	N/A	P3	0.17
John Forsyth Rd	John Forsyth Rd	John Forsyth Rd	N/A	P3	0.29
John Pelland Rd	Diamond Dust Dr	Lacewing Ln	N/A	P3	0.45
Joyal Pl	Charbonneau Cr	Charbonneau Cr	N/A	P3	0.24
Julia Cv	Julia Rd	Julia Rd	N/A	P3	0.15
Julia Rd	Ashworth St S	Abbotsfield Dr	N/A	P3	0.83
Kamberwell By	Aldgate Rd	Clapham Cv	N/A	P3	0.32
Kamberwell By	Aldgate Rd	Clapham Cv	N/A	P3	0.28
Kara Cv	Normand Park Dr	End	N/A	P3	0.06
Karen Irvine Cres	Kingsclear Dr	Kingsclear Dr	N/A	P3	0.44
Keelegate Pl	Highcastle Cr	End	N/A	P3	0.16
Keelegate Pl	Aldgate Rd	Highcastle Cr	N/A	P3	0.28
Kellendonk Rd	Michaud Cr	Aldgate Rd	N/A	P3	0.20
Kellendonk Rd	Michaud Cr	Farnsworth Cr	N/A	P3	0.20

Kenton Cv	Beaverhill Bv	End	N/A	P3	0.32
Kingsclear Dr	Aldgate Rd	Cummings Cr	N/A	P3	0.33
Kingsclear Dr	Cummings Cr	Karen Irvine Cres	N/A	P3	0.10
Kingsclear Dr	Cummings Cr	End	N/A	P3	0.09
Kingsclear Dr	Karen Irvine Cres	Karen Irvine Cres	N/A	P3	0.40
Kingsclear Dr	Karen Irvine Cres	Tilstone By	N/A	P3	0.17
Kinsbourne Green Af	Westbourne Cr	End	N/A	P3	0.16
Knotsberry By	Burland Av	Malmsbury Av	N/A	P3	0.49
Knotsberry By	Malmsbury Av	Trowbridge By	N/A	P3	0.17
Knotsberry By	Postras Pl	Trowbridge By	N/A	P3	0.19
Lacewing Ln	Rain Shadow By	Pintail Pt	N/A	P3	0.17
Lacewing Ln	Dragonfly Ct	Rain Shadow By	N/A	P3	0.18
Lacewing Ln	Rain Shadow By	Rain Shadow By	N/A	P3	0.17
Lacewing Ln	Pintail Pt	Diamond Dust Dr	N/A	P3	0.15
Lagace Pl	Island Shore Bv	End	N/A	P3	0.21
Lake Lawn Dr	Beaverhill Bv	Marina Pl	N/A	P3	0.37
Lake Lawn Dr	Beaverhill Bv	Marina Pl	N/A	P3	0.56
Lake Park Dr	Lake Park Dr	Vermillion Rd	N/A	P3	0.30
Lake Park Dr	Vermillion Rd	Lake Park Dr	N/A	P3	0.71
Lake Park Dr	Lake Park Dr	Lake Park Dr	N/A	P3	0.16
Lakemere Pl	Clearwater Rd	End	N/A	P3	0.23
Lakeview Cv	De La Seigneurie Bv	End	N/A	P3	0.18
Lands End Cv	Island Shore Bv	End	N/A	P3	0.26
Langton Dr	De La Seigneurie Bv	Camirant Cr	N/A	P3	0.20
Langton Dr	Camirant Cr	Camirant Cr	N/A	P3	0.49
Lanyon Dr	Abbotsfield Dr	Warde Av	N/A	P3	0.15
Lanyon Dr	Hochman Av	Abbotsfield Dr	N/A	P3	0.44
Lanyon Dr	Hochman Av	Fulton St	N/A	P3	0.19
Lavalee Rd	St Annes Rd	End	N/A	P3	0.70
Leeward Pl	Desjardins Dr	Myles Robinson Wy	N/A	P3	0.30
Leger Cr	Island Shore Bv	Marcoux Pl	N/A	P3	0.89

Leger Cr	Island Shore Bv	Marcoux Pl	N/A	P3	0.17
Lessard Pl	Pauline Boutal Cr	De La Seigneurie Bv	N/A	P3	0.20
Lighthouse Pt	Tidewater By	End	N/A	P3	0.25
Lighthouse Pt	Island Shore Bv	Tidewater By	N/A	P3	0.19
Limetree Cv	Willowlake Cr	End	N/A	P3	0.31
Linmar Wy	Royal Mint Dr	End	N/A	P3	1.04
Loneoak Pl	Southbridge Dr	End	N/A	P3	0.17
Lonergan Pl	Lakewood Bv	End	N/A	P3	0.22
Lyonsgate Cv	Ravensden Dr	End	N/A	P3	0.25
Malmsbury Av	Burland Av	Knotsberry By	N/A	P3	0.18
Malmsbury Av	Trowbridge By	Cambrai Cv	N/A	P3	0.17
Malmsbury Av	Cambrai Cv	Pately Cr	N/A	P3	0.59
Malmsbury Av	Knotsberry By	Trowbridge By	N/A	P3	0.47
Malmsbury Av	Cambrai Cv	Cambrai Cv	N/A	P3	0.03
Manbrough Pl	Park Grove Dr	End	N/A	P3	0.22
Manby Av	Paddington Rd	Westbourne Cr	N/A	P3	0.37
Manorhaven Dr	Baisinger Dr	John Forsyth Rd	N/A	P3	0.47
Manring Cv	Cliffwood Dr	Vale Pl	N/A	P3	0.32
Manring Cv	Cliffwood Dr	Vale Pl	N/A	P3	0.32
Marcoux Pl	Leger Cr	End	N/A	P3	0.25
Mardena Cr	Portside Dr	Mardena Cr	N/A	P3	0.76
Marina Pl	Lake Lawn Dr	End	N/A	P3	0.18
Marine Dr	Yachts Cv	Yachts Cv	N/A	P3	0.03
Marine Dr	Yachts Cv	Marine Dr	N/A	P3	0.34
Marine Dr	Brambleforde Cr	Marine Dr	N/A	P3	0.25
Marine Dr	Marine Dr	Portside Dr	N/A	P3	0.17
Marine Dr	Brambleforde Cr	Yachts Cv	N/A	P3	0.32
Marlene St	Beliveau Rd E	End	N/A	P3	0.10
Marvan Cv	End	Van Hull Wy	N/A	P3	0.17
Marwood Cr	Edgemont Dr	Edgemont Dr	N/A	P3	0.53
McGurran Pl	Lakewood Bv	Lakewood Bv	N/A	P3	0.13

McKall By	De La Seigneurie Bv	Island Lakes Dr	N/A	P3	0.56
Michaud Cr	Aldgate Rd	Kellendonk Rd	N/A	P3	0.47
Minaki By	Vermillion Rd	Vermillion Rd	N/A	P3	0.62
Miner Cv	End	Aldgate Rd	N/A	P3	0.09
Moonbeam Wy	Baptiste Tourond Rd	Baptiste Tourond Rd	N/A	P3	0.68
Moonbeam Wy	Sage Creek Bv	Baptiste Tournond Rd	N/A	P3	0.64
Morning Glory Cr	Royal Mint Dr	Royal Mint Dr	N/A	P3	0.68
Morrow Av	St Annes Rd	End	N/A	P3	0.55
Mount Laurel Cr	Capston Rd	Capston Rd	N/A	P3	1.22
Myles Robinson Wy	Desjardins Dr	Leeward Pl	N/A	P3	0.38
Myles Robinson Wy	Island Lakes Dr	Leeward Pl	N/A	P3	0.53
Nault Cir	Aldgate Rd	End	N/A	P3	0.21
Newcombe Cr	Bursill Rd	Deswood Pl	N/A	P3	0.65
Newcombe Cr	Bursill Rd	Deswood Pl	N/A	P3	0.19
Newcombe Cr	Shamrock Dr	End	N/A	P3	0.23
Newcombe Cr	Bursill Rd	Shamrock Dr	N/A	P3	0.18
Newcombe Cr	Bursill Rd	Shamrock Dr	N/A	P3	0.19
Newcroft Rd	Newcroft Rd	Newcroft Rd	N/A	P3	0.67
Newcroft Rd	Cliffwood Dr	Shamrock Dr	N/A	P3	0.04
Niakwa Rd	Seagrim Rd	End	N/A	P3	0.56
Niakwa Rd	Archibald St	End	N/A	P3	1.06
Nordstrom Dr	De La Seigneurie Bv	Scholberg Ln	N/A	P3	0.19
Nordstrom Dr	Sabourin Pl	Sabourin Pl	N/A	P3	0.85
Nordstrom Dr	Sabourin Pl	Scholberg Ln	N/A	P3	0.18
Normand Av	St Marys Rd	End	N/A	P3	0.82
Normand Park Dr	Redview Dr	Redview Dr	N/A	P3	0.39
Normand Park Dr	Normand Park Dr	End	N/A	P3	0.04
Normand Park Dr	Normand Park Dr	Redview Dr	N/A	P3	0.25
Orchard Ln	Carnaby Pl	Shoreview By	N/A	P3	0.24
Orchard Ln	Shoreview By	Carnaby Pl	N/A	P3	0.18
Orford Cr	Aldgate Rd	Tilstone By	N/A	P3	0.43

Osprey Pl	Stillwater Rd	End	N/A	P3	0.32
Oustic Av E	Clayton Dr	End	N/A	P3	0.09
Oustic Av E	St Annes Rd	Clayton Dr	N/A	P3	0.36
Packard Pl	Southfields Dr	End	N/A	P3	0.19
Paddington Rd	Aldgate Rd	Sidebottom Dr	N/A	P3	0.36
Paddington Rd	Sidebottom Dr	Scammel Rd	N/A	P3	0.15
Palisade Cv	End	Prairie Smoke Dr	N/A	P3	0.26
Pamela Rd	Island Shore Bv	Captains Wy	N/A	P3	0.20
Pamela Rd	Captains Wy	Hacault Pl	N/A	P3	0.22
Pamela Rd	Hacault Pl	Ebb Tide Dr	N/A	P3	0.19
Parenteau Pl	Gobert Cr	End	N/A	P3	0.06
Park Grove Dr	Beaverhill Bv	Collingwood Cr	N/A	P3	0.62
Park Grove Dr	Manbrough Pl	Chatsworth Pl	N/A	P3	0.42
Park Grove Dr	Chatsworth Pl	Collingwood Cr	N/A	P3	0.10
Park Grove Dr	Beaverhill Bv	Manbrough Pl	N/A	P3	0.59
Park Terrace Dr	Beaverhill Bv	Beaverhill Bv	N/A	P3	0.67
Pately Cr	Malmsbury Av	Paddington Rd	N/A	P3	0.19
Pately Cr	Burland Av	Malmsbury Av	N/A	P3	0.71
Pauline Boutal Cr	Arpin By	Harbours End Cv	N/A	P3	0.20
Pauline Boutal Cr	Arpin By	Arpin By	N/A	P3	0.17
Pauline Boutal Cr	De La Seigneurie Bv	Arpin By	N/A	P3	0.36
Pauline Boutal Cr	Treasure Cv	Harbours End Cv	N/A	P3	0.21
Pauline Boutal Cr	Treasure Cv	Causeway By	N/A	P3	0.20
Pauline Boutal Cr	Causeway By	De La Seigneurie Bv	N/A	P3	0.40
Pelican Pt	Robert Bockstael Dr	Robert Bockstael Dr	N/A	P3	0.20
Pentonville Cr	Aldgate Rd	Ravensden Dr	N/A	P3	0.50
Pepin Pl	Snowberry Ci	Snowberry Cir	N/A	P3	0.23
Peres Oblats Dr	Quayside Cv	De La Seigneurie Bv	N/A	P3	0.38
Peres Oblats Dr	Peres Oblats Dr	Peres Oblats Dr	N/A	P3	0.15
Peres Oblats Dr	Quayside Cv	Quayside Cv	N/A	P3	0.25
Peres Oblats Dr	Quayside Cv	Smugglers Cv	N/A	P3	0.35

Pevensey Pl	Aldgate Rd	End	N/A	P3	0.22
Pine Bluff Rd	Niakwa Rd	Pebble Beach Rd	N/A	P3	0.66
Pintail Pt	Lacewing Ln	Lacewing Ln	N/A	P3	0.30
Postras Pl	Knotsberry By	End	N/A	P3	0.19
Postras Pl	Burland Av	Knotsberry By	N/A	P3	0.20
Portside Dr	Mardena Cr	Van Hull Wy	N/A	P3	0.26
Portside Dr	Mardena Cr	Hedgewood Cv	N/A	P3	0.26
Portside Dr	Marine Dr	Van Hull Wy	N/A	P3	0.17
Portside Dr	Hedgewood Cv	Marine Dr	N/A	P3	0.35
Portside Dr	Van Hull Wy	Van Hull Wy	N/A	P3	0.04
Prairie Smoke Dr	Wild Iris Wk	Palisade Cv	N/A	P3	0.18
Prairie Smoke Dr	Water Lily Ln	Edward Turner Dr	N/A	P3	0.18
Prairie Smoke Dr	Wild Iris Wk	Palisade Cv	N/A	P3	0.17
Prairie Smoke Dr	End	Wild Iris Wk	N/A	P3	0.35
Proulx Pl	Lafrance Ln	Lafrance Ln	N/A	P3	0.26
Prudhomme By	Aldgate Rd	Aldgate Rd	N/A	P3	0.50
Purplesage Cr	Heartleaf Ln	Heartleaf Ln	N/A	P3	0.01
Purplesage Cr	Heartleaf Ln	Heartleaf Ln	N/A	P3	0.53
Purplesage Cr	Heartleaf Ln	Heartleaf Ln	N/A	P3	0.60
Pynoo Pl	De La Seigneurie Bv	De La Seigneurie Bv	N/A	P3	0.40
Quantrell By	John Forsyth Rd	Quantrell By	N/A	P3	0.33
Quantrell By	Quantrell By	End	N/A	P3	0.09
Quantrell By	Quantrell By	John Forsyth Rd	N/A	P3	0.17
Quayside Cv	Peres Oblats Dr	Peres Oblats Dr	N/A	P3	0.70
Quayside Cv	Cassin Cr	Peres Oblats Dr	N/A	P3	0.17
Queensway Cr	Driftwood By	Serino Pl	N/A	P3	0.37
Queensway Cr	Driftwood By	Serino Pl	N/A	P3	0.28
Radburn Pl	Beaverhill Bv	End	N/A	P3	0.25
Rain Shadow By	Lacewing Ln	Lacewing Ln	N/A	P3	0.58
Rainbow Cv	Royal Mint Dr	End	N/A	P3	0.19
Ralston Cr	Aldgate Rd	Hallfield By	N/A	P3	0.37

Ranville Rd	Ranville Rd	Charity Ln	N/A	P3	0.27
Ranville Rd	Sage Creek Bv	Ranville Rd	N/A	P3	0.16
Ranville Rd	Sage Creek Bv	Ranville Rd	N/A	P3	0.36
Ranville Rd	Ranville Rd	Sage Creek Bv	N/A	P3	0.07
Ravensden Dr	Cedarcroft Pl	Uppingham Pl	N/A	P3	0.18
Ravensden Dr	Aldgate Rd	Lyonsgate Cv	N/A	P3	0.20
Ravensden Dr	Lyonsgate Cv	Pentonville Cr	N/A	P3	0.19
Ravensden Dr	Harding Cr	Colshort Pl	N/A	P3	0.18
Ravensden Dr	Ravensden Dr	Ravensden Dr	N/A	P3	0.33
Ravensden Dr	Roehampton Pl	William Johnstone Ct	N/A	P3	0.82
Ravensden Dr	Harding Cr	William Johnstone Ct	N/A	P3	0.39
Red Lily Rd	Willow Ln	Willow Ln	N/A	P3	0.57
Red Lily Rd	Red Lily Rd	Willow Ln	N/A	P3	0.38
Red Lily Rd	Red Lily Rd	Warde Av	N/A	P3	0.11
Red Lily Rd	Red Lily Rd	Red Lily Rd	N/A	P3	0.01
Red Lily Rd	Red Lily Rd	Willow Ln	N/A	P3	0.41
Red Lily Rd	Warde Av	Red Lily Rd	N/A	P3	0.11
Red Moon Rd	Red Moon Rd	Tansi Ln	N/A	P3	0.07
Red Moon Rd	Tansi Ln	Tansi Ln	N/A	P3	0.04
Red Moon Rd	Tansi Ln	Tansi Ln	N/A	P3	0.55
Red Moon Rd	Tansi Ln	Tansi Ln	N/A	P3	0.04
Red Moon Rd	Tansi Ln	Burning Glass Rd	N/A	P3	0.18
Red Moon Rd	Tansi Ln	Burning Glass Rd	N/A	P3	0.18
Red Sky Rd	High Plain Rd	High Plain Rd	N/A	P3	0.93
Red Willow Cr	Copperstone Cr	Royal Mint Dr	N/A	P3	0.28
Red Willow Cr	Blue Mountain Rd	Copperstone Cr	N/A	P3	0.29
Redpoll Pl	Robert Bockstael Dr	Robert Bockstael Dr	N/A	P3	0.21
Redview Dr	Normand Park Dr	Waterview Cv	N/A	P3	0.16
Redview Dr	Waterview Cv	St Marys Rd	N/A	P3	0.69
Redview Dr	Redview Dr	Redview Dr	N/A	P3	0.19
Redview Dr	Portside Dr	Portside Dr	N/A	P3	0.17

Redview Dr	Portside Dr	Portside Dr	N/A	P3	0.12
Reese Cv	Easy St	End	N/A	P3	0.09
Rockcliffe Rd	Beaverhill Bv	Shoreview By	N/A	P3	0.74
Roehampton Pl	Ravensden Dr	End	N/A	P3	0.26
Royal Mint Dr	Royal Mint Dr	Royal Mint Dr	N/A	P3	0.40
Royal Mint Dr	Royal Mint Dr	Royal Mint Dr	N/A	P3	0.31
Royal Park Cr	Royal Mint Dr	End	N/A	P3	0.08
Royal Park Cr	Royal Mint Dr	Royal Mint Dr	N/A	P3	0.92
Royal Salinger Rd	Clarendon Rd	Niakwa Rd	N/A	P3	0.91
Royal Salinger Rd	Clarendon Rd	Pebble Beach Rd	N/A	P3	0.38
Sabourin Pl	Nordstrom Dr	Gwynne Rd	N/A	P3	0.14
Sabourin Pl	Nordstrom Dr	Nordstrom Dr	N/A	P3	0.17
Sabourin Pl	Gwynne Rd	Gwynne Rd	N/A	P3	0.29
Sadler Av	St Annes Rd	End	N/A	P3	0.54
Scammel Rd	Battersea Cl	Stanhope Gdn	N/A	P3	0.21
Scammel Rd	Paddington Rd	Battersea Cl	N/A	P3	0.24
Scammel Rd	Stanhope Gdn	Islington Ct	N/A	P3	0.20
Scammel Rd	Aldgate Rd	Islington Ct	N/A	P3	0.71
Scholberg Ln	Gwynne Rd	End	N/A	P3	0.02
Scholberg Ln	Nordstrom Dr	Gwynne Rd	N/A	P3	0.31
Seabrook Cv	Beaverhill Bv	End	N/A	P3	0.31
Serino Pl	Queensway Cr	End	N/A	P3	0.18
Shamrock Dr	Newcombe Cr	Newcroft Rd	N/A	P3	0.46
Shamrock Dr	Shamrock Dr	Shamrock Dr	N/A	P3	0.27
Shoreview By	Beaverhill Bv	Orchard Ln	N/A	P3	0.19
Shoreview By	Orchard Ln	Rockcliffe Rd	N/A	P3	0.62
Shoreview By	Orchard Ln	Rockcliffe Rd	N/A	P3	0.15
Shoreview By	Beaverhill Bv	Orchard Ln	N/A	P3	0.19
Sidebottom Dr	Elsey Rd	Stellarton Cr	N/A	P3	0.25
Sidebottom Dr	Stellarton Cr	Stellarton Cr	N/A	P3	0.17
Sidebottom Dr	Stellarton Cr	Buckley Trow By	N/A	P3	0.18

Sidebottom Dr	Buckley Trow By	Paddington Rd	N/A	P3	0.13
Sidebottom Dr	Buckley Trow By	Buckley Trow By	N/A	P3	0.18
Silver Sage Cr	Edward Turner Dr	Edward Turner Dr	N/A	P3	0.90
Sloane Cr	Aldgate Rd	Hallfield By	N/A	P3	0.39
Smugglers Cv	Cassin Cr	Peres Oblats Dr	N/A	P3	0.47
Smugglers Cv	Peres Oblats Dr	End	N/A	P3	0.23
Snowberry Cir	Snowberry Cir	Snowberry Cir	N/A	P3	0.03
Snowberry Cir	Edward Turner Dr	Snowberry Cir	N/A	P3	0.11
Snowberry Cir	Snowberry Cir	Pepin Pl	N/A	P3	0.64
Snowberry Cir	Pepin Pl	Snowberry Cir	N/A	P3	0.62
Snowberry Cir	Snowberry Cir	Edward Turner Dr	N/A	P3	0.11
Soltice Ln	Blue Sun Dr	Sage Creek Bv	N/A	P3	0.31
Southbridge Dr	Willowlake Cr	Bellington Pl	N/A	P3	0.10
Southbridge Dr	Bellington Pl	Loneoak Pl	N/A	P3	0.10
Southbridge Dr	Willowlake Cr	Bellington Pl	N/A	P3	0.10
Southbridge Dr	Willowlake Cr	Dogwood Cv	N/A	P3	0.24
Southbridge Dr	Willowlake Cr	Bellington Pl	N/A	P3	0.73
Southbridge Dr	Bellington Pl	Loneoak Pl	N/A	P3	0.10
Southbridge Dr	Dogwood Cv	Loneoak Pl	N/A	P3	0.37
Southbridge Dr	Bellington Pl	Loneoak Pl	N/A	P3	0.79
Southfields Dr	Burland Av	Packard Pl	N/A	P3	0.45
Southfields Dr	Highbury Rd	Packard Pl	N/A	P3	0.26
Southmoor Rd	Pebble Beach Rd	Pebble Beach Rd	N/A	P3	1.56
St Hilaire Pl	Beaverhill Bv	End	N/A	P3	0.33
Stanhope Gdn	Scammel Rd	Scammel Rd	N/A	P3	0.26
Stellarton Cr	Sidebottom Dr	Sidebottom Dr	N/A	P3	0.52
Stillwater Rd	Dorsay Pl	Osprey Pl	N/A	P3	0.17
Stillwater Rd	Gadwall Pl	Willowlake Cr	N/A	P3	0.18
Stillwater Rd	Brookhaven By	Osprey Pl	N/A	P3	0.15
Stillwater Rd	Dorsay Pl	Gadwall Pl	N/A	P3	0.17
Sundog Dr	Sage Creek Bv	Coneflower Cr	N/A	P3	0.41

Surfside Cr	Desjardins Dr	De La Seigneurie Bv	N/A	P3	0.94
Surfside Cr	Surfside Cr	Surfside Cr	N/A	P3	0.17
Sweetwater By	Ashwood Cv	Edgewater Dr	N/A	P3	0.18
Sweetwater By	Ashwood Cv	Edgewater Dr	N/A	P3	0.97
Tahoe By	Lakewood Bv	Lakewood Bv	N/A	P3	0.73
Tallgrass Cr	Hazelnut Ln	Hazelnut Ln	N/A	P3	0.60
Tallgrass Cr	Ironweed Rd	Hazelnut Ln	N/A	P3	0.17
Tallgrass Cr	Hazelnut Ln	Ironweed Rd	N/A	P3	0.17
Tallgrass Cr	Ironweed Rd	Ironweed Rd	N/A	P3	0.61
Tamarac By	Lakewood Bv	Lakewood Bv	N/A	P3	0.93
Tansi Ln	Red Moon Rd	Red Moon Rd	N/A	P3	0.23
Tansi Ln	Red Moon Rd	Red Moon Rd	N/A	P3	0.16
Thelon Wy	Evelyne Reese Bv	Bonaventure Dr W	N/A	P3	0.48
Theydon Pl	John Forsyth Rd	End	N/A	P3	0.30
Tidal Cv	Island Shore Bv	Island Shore Bv	N/A	P3	0.54
Tidal Cv	Breakwater Cv	Island Shore Bv	N/A	P3	0.11
Tidal Cv	Breakwater Cv	Island Cv	N/A	P3	0.18
Tidal Cv	Island Shore Bv	Island Shore Bv	N/A	P3	0.21
Tidewater By	Gauvreau Rd	Lighthouse Pt	N/A	P3	0.49
Tilstone By	Aldgate Rd	Orford Cr	N/A	P3	0.24
Tilstone By	Orford Cr	Kingsclear Dr	N/A	P3	0.34
Tiverton By	Highbury Rd	Highbury Rd	N/A	P3	0.51
Treasure Cv	Pauline Boutal Cr	End	N/A	P3	0.24
Tretheway Cs	John Forsyth Rd	End	N/A	P3	0.19
Trowbridge By	Bruton Pl	Knotsberry By	N/A	P3	0.33
Trowbridge By	Bruton Pl	Malmsbury Av	N/A	P3	0.47
Twickenham Cir	Wainwright Cr	Wainwright Cr	N/A	P3	0.70
Twickenham Cir	Aldgate Rd	Wainwright Cr	N/A	P3	0.19
Upavon Rd	Aldgate Rd	Hallfield By	N/A	P3	0.60
Uppingham Pl	Ravensden Dr	End	N/A	P3	0.28
Vadeboncoeur Dr	Aldgate Rd	Paddington Rd	N/A	P3	1.10

Vale Pl	Manring Cv	End	N/A	P3	0.19
Van Hull Wy	Portside Dr	Van Hull Wy	N/A	P3	0.38
Van Hull Wy	Van Hull Wy	Portside Dr	N/A	P3	0.28
Vermette Pl	Gobert Cr	Gobert Cr	N/A	P3	0.13
Vermillion Rd	Beaverhill Bv	Grover Hills Ln	N/A	P3	0.50
Vielliers Pl	Gobert Cr	End	N/A	P3	0.07
Vireo Ln	Wild Iris Wk	Edward Turner Dr	N/A	P3	0.41
Vogans Rn	Aldgate Rd	Aldgate Rd	N/A	P3	0.27
Wainwright Cr	Aldgate Rd	Cotswold Pl	N/A	P3	0.34
Wainwright Cr	Guernsey Ln	Guernsey Ln	N/A	P3	0.18
Wainwright Cr	Tickenham Cl	Guernsey Ln	N/A	P3	0.18
Wainwright Cr	Dacquay Cr	Guernsey Ln	N/A	P3	0.18
Wainwright Cr	Cotswold Pl	Dacquay Cr	N/A	P3	0.23
Wapta Cr	Bonaventure Dr W	Bonaventure Dr W	N/A	P3	0.56
Warde Av	Evelyne Reese Bv	End	N/A	P3	0.34
Water Lily Ln	Prairie Smoke Dr	Edward Turner Dr	N/A	P3	0.40
Watercress Rd	Cormorant By	Edgewater Dr	N/A	P3	0.46
Waterside Cv	Island Shore Bv	End	N/A	P3	0.15
Waterview Cv	Redview Dr	End	N/A	P3	0.09
Wayfarers Haven Af	Island Lakes Dr	Island Lakes Dr	N/A	P3	0.86
Weatherstone Pl	Lakewood Bv	Lakewood Bv	N/A	P3	1.27
West Plains Dr	High Plain Rd	High Plain Rd	N/A	P3	0.26
West Plains Dr	High Plain Rd	Edward Turner Dr	N/A	P3	0.41
Westbourne Cr	Paddington Rd	Kinsbourne Green Af	N/A	P3	0.19
Westbourne Cr	Kinsbourne Green Af	Manby Av	N/A	P3	0.37
Westbourne Cr	Manby Av	Burland Av	N/A	P3	0.18
Westham Pl	Burland Av	End	N/A	P3	0.22
Wild Iris Wk	Edward Turner Dr	Vireo Ln	N/A	P3	0.19
Wild Iris Wk	Vireo Ln	Prairie Smoke Dr	N/A	P3	0.53
Wildflower Wy	Wildflower Wy	Sage Creek Bv	N/A	P3	0.11
Wildflower Wy	Wildflower Wy	Sage Creek Bv	N/A	P3	0.11

Wildflower Wy	Wildflower Wy	Wildflower Wy	N/A	P3	0.80
Wildflower Wy	Wildflower Wy	Wildflower Wy	N/A	P3	0.02
Wilford Cs	Ashworth St S	End	N/A	P3	0.33
Willesden Cr	Gobert Cr	Aldgate Rd	N/A	P3	0.19
William Johnstone Ct	Ravensden Dr	Ravensden Dr	N/A	P3	0.18
Willow Ln	Red Lily Rd	Red Lily Rd	N/A	P3	0.38
Windlass By	Waterfront Rd	End	N/A	P3	0.19
Wingham Av	Clayton Dr	St Annes Rd	N/A	P3	0.33
Winterhaven Dr	John Forsyth Rd	Beckwith Ln	N/A	P3	0.51
Winterhaven Dr	Beckwith Ln	John Forsyth Rd	N/A	P3	0.46
Wood Sage Cr	Wood Sage Cr	Wood Sage Cr	N/A	P3	0.34
Wood Sage Cr	Wood Sage Cr	Wood Sage Cr	N/A	P3	0.85
Wood Sage Cr	Wood Sage Cr	Des Hivernants Bv	N/A	P3	0.11
Wood Sage Cr	Wood Sage Cr	Des Hivernants Bv	N/A	P3	0.11
Wood Sage Cr	Wood Sage Cr	Wood Sage Cr	N/A	P3	0.02
Worthington Av	Marlene St	St Annes Rd	N/A	P3	0.59
Worthington Av	Marlene St	End	N/A	P3	0.07
Wycombe Pl	Aldgate Rd	End	N/A	P3	0.19
Yachts Cv	Marine Dr	Marine Dr	N/A	P3	0.22
Zylema Cv	Aldgate Rd	End	N/A	P3	0.26
<b>Total</b>					<b>219.76</b>

## APPENDIX C – HISTORICAL WEATHER DATA

YEAR	TOTAL ANNUAL SNOWFALL [CENTIMETER]
1974-1975	125.2
1975-1976	136.2
1976-1977	64.4
1977-1978	73.1
1978-1979	148.6
1979-1980	108
1980-1981	72.5
1981-1982	77.2
1982-1983	77.4
1983-1984	56.3
1984-1985	93.2
1985-1986	124.2
1986-1987	120.2
1987-1988	65.4
1988-1989	153.6
1989-1990	96.4
1990-1991	120.5
1991-1992	133
1992-1993	111.6
1993-1994	82
1994-1995	88.6
1995-1996	202.5
1996-1997	211.4
1997-1998	104.1
1998-1999	144.7
1999-2000	71.4
2000-2001	109.7
2001-2002	105.4
2002-2003	90.9
2003-2004	149.8
2004-2005	136.6
2005-2006	151.2
2006-2007	135.6
2007-2008	111.9
2008-2009	129.2
2009-2010	81.6
2010-2011	149.1
2011-2012	72.6
2012-2013	151
2013-2014	177
2014-2015	82.0
2015-2016	124.0
2016-2017	81.2
2017-2018	48.8