



THE CITY OF WINNIPEG

BID OPPORTUNITY

BID OPPORTUNITY NO. 651-2009

**SNOW CLEARING ON LOCAL STREETS IN WAVERLEY HEIGHTS AND ST.
NORBERT**

Summary of Changes from Previous Years' Contracts

1. New

D6	OPERATOR'S COMPENTENCE AND PERFORMANCE
E2.1.17	0.6m median cut on P2 contract plow is now included in lane km price.
E2.1.22	Coordination with garbage / recycling collection required.
E2.3.8	Contractor to provide proposed P3 plow locations for mapping.
E5	DRIVERS LICENSE FOR ALL HIRED HOURLY EQUIPMENT
E11.2	Reporting damage to City or private property

2. Revisions

D2.1	One (1) year contract with a one (1) year extension at the option of the City of Winnipeg
E11.4	Damaged curbs to be removed by April 15 th each year

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PART B - BIDDING PROCEDURES

B1. CONTRACT TITLE

B1.1 SNOW CLEARING ON LOCAL STREETS IN WAVERLEY HEIGHTS AND ST. NORBERT

B2. SUBMISSION DEADLINE

B2.1 The Submission Deadline is 4:00 p.m. Winnipeg time, September 14, 2009.

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. ADDENDA

B4.1 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.

B4.2 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.

B4.2.1 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>

B4.2.2 The Bidder is responsible for ensuring that he has received all addenda and is advised to check the Materials Management Division website for addenda regularly and shortly before the Submission Deadline, as may be amended by addendum.

B4.3 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.

B5. SUBSTITUTES

- B5.1 The Work is based on the Plant, Materials and methods specified in the Bid Opportunity.
- B5.2 Substitutions shall not be allowed unless application has been made to and prior approval has been granted by the Contract Administrator in writing.
- B5.3 Requests for approval of a substitute will not be considered unless received in writing by the Contract Administrator at least five (5) Business Days prior to the Submission Deadline.
- B5.4 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.
- B5.5 The Contract Administrator, after assessing the request for approval of a substitute, may in his sole discretion grant approval for the use of a substitute as an “approved equal” or as an “approved alternative”, or may refuse to grant approval of the substitute.
- B5.6 The Contract Administrator will provide a response in writing, at least two (2) Business Days prior to the Submission Deadline, only to the Bidder who requested approval of the substitute.
- B5.6.1 The Bidder requesting and obtaining the approval of a substitute shall be entirely responsible for disseminating information regarding the approval to any person or persons he wishes to inform.
- B5.7 If the Contract Administrator approves a substitute as an “approved equal”, any Bidder may use the approved equal in place of the specified item.
- B5.8 If the Contract Administrator approves a substitute as an “approved alternative”, any Bidder bidding that approved alternative may base his Total Bid Price upon the specified item but may also indicate an alternative price based upon the approved alternative. Such alternatives will be evaluated in accordance with B13.
- B5.9 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.
- B5.10 Notwithstanding B5.2 to B5.9, and in accordance with B6.5, deviations inconsistent with the Bid Opportunity document shall be evaluated in accordance with B13.1(a).

B6. BID SUBMISSION

- B6.1 The Bid shall consist of the following components:

- (a) Form A: Bid;
- (b) Form B: Prices.

- B6.2 Further to B6.1, the Bidder should include the written correspondence from the Contract Administrator approving a substitute in accordance with B5.
- B6.3 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 in ink, to constitute a responsive Bid.
- B6.4 Bidders are advised not to include any information/literature except as requested in accordance with B6.1.
- B6.5 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 B13.1(a)
- B6.6 The Bid may be submitted by mail, courier or personal delivery, or by facsimile transmission.
- B6.7 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
- B6.7.1 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.
- B6.8 If the Bid is submitted by facsimile transmission, it shall be submitted to (204) 949-1178.
- B6.8.1 The Bidder is advised that the City cannot take responsibility for the availability of the facsimile machine at any time.
- B6.9 Bids submitted by internet electronic mail (e-mail) will not be accepted.

B7. BID

- B7.1 The Bidder shall complete Form A: Bid, making all required entries.
- B7.2 Paragraph 2 of Form A: Bid shall be completed in accordance with the following requirements:
- (a) if the Bidder is a sole proprietor carrying on business in his own name, his name shall be inserted;
 - (b) if the Bidder is a partnership, the full name of the partnership shall be inserted;
 - (c) if the Bidder is a corporation, the full name of the corporation shall be inserted;
 - (d) if the Bidder is carrying on business under a name other than his own, the business name and the name of every partner or corporation who is the owner of such business name shall be inserted.
- B7.2.1 If a Bid is submitted jointly by two or more persons, each and all such persons shall identify themselves in accordance with B7.2.
- B7.3 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.
- B7.4 Paragraph 10 of Form A: Bid shall be signed in accordance with the following requirements:

- (a) if the Bidder is a sole proprietor carrying on business in his 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 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.

B7.4.1 The name and official capacity of all individuals signing Form A: Bid should be printed below such signatures.

B7.4.2 All signatures shall be original.

B7.5 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.

B8. PRICES

B8.1 The Bidder shall state a price in Canadian funds for each item of the Work identified on Form B: Prices.

B8.1.1 Notwithstanding C11.1.1, prices on Form B: Prices shall not include the Goods and Services Tax (GST) which shall be extra where applicable.

B8.2 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.

B8.3 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. QUALIFICATION

B9.1 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.

B9.2 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>

B9.3 The Bidder and/or any proposed Subcontractor (for the portion of the Work proposed to be subcontracted to them) shall:

- (a) have successfully carried out work similar in nature, scope and value to the Work; and
- (b) be fully capable of performing the Work required to be in strict accordance with the terms and provisions of the Contract; and

- (c) have a written workplace safety and health program, if required, pursuant to The Workplace Safety and Health Act (Manitoba).

B9.4 Further to B9.3(c), the Bidder shall, within five (5) Business Days of a request by the Contract Administrator, provide proof satisfactory to the Contract Administrator that the Bidder/Subcontractor has a workplace safety and health program meeting the requirements of The Workplace Safety and Health Act (Manitoba), by providing:

- (a) a valid COR certification number under the Certificate of Recognition (COR) Program administered by the Manitoba Construction Safety Association or by the Manitoba Heavy Construction Association's Safety, Health and Environment Program; or
- (b) a report or letter to that effect from an independent reviewer acceptable to the City. (A list of acceptable reviewers and the review template are available on the Information Connection page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>)

B9.5 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.

B9.6 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.

B9.7 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.

B10. OPENING OF BIDS AND RELEASE OF INFORMATION

B10.1 Bid Submissions will not be opened publicly.

B10.2 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>

B10.3 After award of Contract, the name(s) of the successful Bidder(s) and the Contract Amount(s) will be available on the Closed Bid Opportunities (or Public/Posted Opening & Award Results) page at The City of Winnipeg, Corporate Finance, Materials Management Division website at <http://www.winnipeg.ca/matmgt>

B10.4 The Bidder is advised that any information contained in any Bid may be released if required by City policy or procedures, The Freedom of Information and Protection of Privacy Act (Manitoba), or by other authorities having jurisdiction.

B11. IRREVOCABLE BID

B11.1 The Bid(s) submitted by the Bidder shall be irrevocable for the time period specified in Paragraph 9 of Form A: Bid.

B11.2 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.

B12. WITHDRAWAL OF BIDS

B12.1 A Bidder may withdraw his Bid without penalty by giving written notice to the Manager of Materials at any time prior to the Submission Deadline.

- B12.1.1 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.
- B12.1.2 The City will assume that any one of the contact persons named in Paragraph 3 of Form A: Bid or the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid, and only such person, has authority to give notice of withdrawal.
- B12.1.3 If a Bidder gives notice of withdrawal prior to the Submission Deadline, the Manager of Materials will:
- (a) retain the Bid until after the Submission Deadline has elapsed;
 - (b) open the Bid to identify the contact person named in Paragraph 3 of Form A: Bid and the Bidder's authorized representatives named in Paragraph 10 of Form A: Bid; and
 - (c) if the notice has been given by any one of the persons specified in B12.1.3(b), declare the Bid withdrawn.
- B12.2 A Bidder who withdraws his Bid after the Submission Deadline but before his Bid has been released or has lapsed as provided for in B11.2 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.

B13. EVALUATION OF BIDS

- B13.1 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 B9 (pass/fail);
 - (c) Total Bid Price;
 - (d) economic analysis of any approved alternative pursuant to B5;
- B13.2 Further to B13.1(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.
- B13.3 Further to B13.1(b), the Award Authority shall reject any Bid submitted by a Bidder who does not demonstrate, in his Bid or in other information required to be submitted, that he is responsible and qualified.
- B13.4 Further to B13.1(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.
- B13.4.1 If there is any discrepancy between the Total Bid Price written in figures, the Total Bid Price written in words and the sum of the quantities multiplied by the unit prices for each item, the sum of the quantities multiplied by the unit prices for each item shall take precedence.
- B13.4.2 Further to B13.1(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.
- B13.5 This Contract will be awarded as a whole.

B14. AWARD OF CONTRACT

- B14.1 The City will give notice of the award of the Contract or will give notice that no award will be made.

- B14.2 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.
- B14.2.1 Without limiting the generality of B14.2, 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.
- B14.3 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 B13 .
- B14.3.1 Following the award of contract, a Bidder will be provided with information related to the evaluation of his Bid upon written request to the Contract Administrator.
- B14.4 Notwithstanding C4.1, the City will issue a Purchase Order to the successful Bidder in lieu of the execution of a Contract.
- B14.5 The Contract Documents, as defined in C1.1(n), 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
- 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, 2009 to April 15, 2010, 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, collector and residential streets listed in Appendices A and B, 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 one (1) winter season from October 15, 2009 to April 15, 2010, 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;
- (c) the Contractor shall remedy all damage and deficiencies such as curb damage by June 30th following the Contract year; and
- (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) Street System identified in Appendix A;
- (b) full width snow clearing on the Priority III (Residential) Street System identified in Appendix B;
- (c) opening and keeping streets and lanes open during a major snowfall and/or snow blizzard; and
- (d) 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 using City forces. Routine winter maintenance includes:

- (a) curb lane spot plowing of street sections;
- (b) full width spot plowing of street sections;
- (c) widening for snow storage;
- (d) snow hauling;
- (e) clearing of drainage inlets in spring.

D3. DEFINITIONS

D3.1 When used in this Bid Opportunity:

- (a) **"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.

- (b) **"Bare Pavement"** means that the Contractor shall endeavour to completely clear the full pavement width of snow.
- (c) **"Business Day"** means any Calendar Day, other than a Saturday, Sunday, or a Statutory or Civic Holiday;
- (d) **"Cross Walk"** means any sidewalk at street intersections or at signed corridors.
- (e) **"Compacted Snow Surface"** of backlanes 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.
- (f) **"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.
- (g) **"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).
- (h) **"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.
- (i) **"Hauling away"** means the relocation of cleared snow volumes by use of trucks for purposes of transporting to a distant storage location. **"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.
- (j) **"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.
- (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) **"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.
- (m) **"Roadway"** means the paved portion of the street that is used exclusively for the passage of motorized vehicles.
- (n) **"Sidewalk"** means the paved portion of the street that is used exclusively for a passage of pedestrians.
- (o) **"Snow"** means all forms of frozen precipitation including ice associated with such snow.
- (p) **"Street"** means a highway over which the City of Winnipeg has jurisdiction.
- (q) **"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.
- (r) **"Submission Deadline"** and **"Time and Date Set for the Final Receipt of Bids"** mean the time and date set out in the Bidding Procedures for final receipt of Bids;

- (s) "**Traffic Lane**" means a 3.6 metre or greater width of pavement.
- (t) "**User**" means a person, department or other administrative unit of the City authorized by the Contract Administrator to order Work under this Contract.
- (u) "**Wing back**" means the Contractor shall push back the windrow to create storage space for snow in future plowing operations.

D4. CONTRACT ADMINISTRATOR

D4.1 The Contract Administrator is:

Mr. Ken Boyd, P. Eng.
Support Services Engineer
Public Works Department
Streets Maintenance Division
104-1155 Pacific Avenue
Winnipeg, MB R3E 3P1

Telephone No. (204) 986-5076
Facsimile No. (204) 986-5566

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 employ.

D5.2 Before commencement of Work, the Contractor shall identify his 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. OPERATOR'S COMPETENCE AND PERFORMANCE

D6.1 **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.

D6.2 **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.**

D7. NOTICES

- D7.1 C22.1 is further amended hereby to include delivery by facsimile transmission (fax) as an acceptable means of delivering notices, consents, approvals, statements, authorizations, documents or other communications required or permitted to be given under this Contract. Deliveries by fax will be deemed to have been received on the day of delivery, if a business day, or if not a business day, on the business day next following the day of delivery.
- D7.2 Further to C22.2, all notices, consents, approvals, statements, authorizations, documents or other communications to the City, except as expressly otherwise required in D7.3, D7.4 or elsewhere in the Contract, shall be sent to the attention of the Contract Administrator at the address or facsimile number identified in D4.1.
- D7.3 All notices of appeal to the Chief Administrative Officer shall be sent to the following address or facsimile number:
The City of Winnipeg
Chief Administrative Officer Secretariat
Administration Building, 3rd Floor
510 Main Street
Winnipeg MB R3B 1B9
Facsimile No.: (204) 949-1174
- D7.4 All notices, requests, nominations, proposals, consents, approvals, statements, authorizations, documents or other communications required to be submitted or returned to the City Solicitor shall be sent to the following address or facsimile number:
The City of Winnipeg
Corporate Services Department
Legal Services Division
185 King Street, 3rd Floor
Winnipeg MB R3B 1J1
Facsimile No.: (204) 947-9155

SUBMISSIONS

D8. AUTHORITY TO CARRY ON BUSINESS

- D8.1 The Contractor shall be in good standing under The Corporations Act (Manitoba), or properly registered under The Business Names Registration Act (Manitoba), or otherwise properly registered, licensed or permitted by law to carry on business in Manitoba, or if the Contractor does not carry on business in Manitoba, in the jurisdiction where the Contractor does carry on business, throughout the term of the Contract, and shall provide the Contract Administrator with evidence thereof upon request.

D9. INSURANCE

- D9.1 The Contractor shall provide and maintain the following insurance coverage:
- (a) commercial general liability insurance, in the amount of at least two million dollars (\$2,000,000.00) inclusive, with The City of Winnipeg added as an additional insured; such liability policy to also contain a cross-liability clause, non-owned automobile liability and products and completed operations cover, to remain in place at all times during the performance of the Work;
 - (b) if required, automobile liability insurance for owned automobiles used for or in connection with the Work in the amount of at least two million dollars (\$2,000,000.00), to remain in place at all times during the performance of the Work.
- D9.2 Deductibles must be expressly stated on the certificate of insurance and must not exceed \$5,000.00.

- D9.3 Deductibles shall be borne by the Contractor.
- D9.4 The Certificate must clearly state: "Operations include snow removal on City right-of-ways during winter months" (i.e. insurance to cover snow removal and ice control of streets, roadways, backlanes/alleys, sidewalks, etc.).
- D9.5 The Contractor shall file with the City certificate(s) of insurance, confirming and expressly stating all requirements, in a form satisfactory to the City Solicitor; these certificates must be received by the City and approved, prior to commencement of any Work.
- D9.6 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.
- D9.7 The City shall have the right to alter limits and/or coverages as reasonably required from time to time during the continuance of this agreement.

SCHEDULE OF WORK

D10. COMMENCEMENT

- D10.1 The Contractor shall not commence any Work until he is in receipt of a notice of award from the City authorizing the commencement of the Work.
- D10.2 The Contractor shall not commence any Work on the Site until:
- (a) the Contract Administrator has confirmed receipt and approval of:
 - (i) evidence of authority to carry on business specified in D8;
 - (ii) evidence of the workers compensation coverage specified in C6.14;
 - (iii) evidence of the insurance specified in D9.
 - (b) the Contractor has attended a meeting with the Contract Administrator, or the Contract Administrator has waived the requirement for a meeting.

D11. TOTAL PERFORMANCE

- D11.1 The Contractor shall achieve Total Performance by June 30, 2010 for Work specified in D2.
- D11.2 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.
- D11.3 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.

D12. PRIME CONTRACTOR – THE WORKPLACE SAFETY AND HEALTH ACT (MANITOBA)

- D12.1 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).

PART E - SPECIFICATIONS

GENERAL

E1. APPLICABLE SPECIFICATIONS AND DRAWINGS

E1.1 These Specifications shall apply to the Work.

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 of 12 m upstream 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.

E2.1.8 Snow windrows at hydrants shall be removed a 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 and where directed, by the Contract Administrator. The median cut shall be to a width of 0.6m from the curb face and shall not expose, but be within 100mm 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 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.
- E2.1.22 The Contractor shall coordinate residential plowing location to minimize conflicts with the Garbage / Recycling collection.**

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) Loader support for truck plow snow clearing done by others.
 - (d) Interim plowing during major snowfalls.
 - (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.
- (c) Gradual accumulation of snowfall 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 0.6m 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 Bid 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.
- (c) Gradual accumulation of snowfall resulting in poor street conditions.

E2.3.2 Residential streets shall normally be cleared after Priority 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 Bid 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 The Contractor shall provide to the Contract Administrator the start location and the area of streets to be completed in each 12 hour shift. This information shall be provided within 2 hours of being notified of the Priority 3 plow for the initial shift and

4 hours prior to each shift thereafter. The information will be used for the Residential Overnight Parking Ban to notify residents when their street is scheduled to be plowed and for enforcement purposes.

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 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,

SAE Net	Horsepower	Minimum 75 H.P.
Operating Weight	15,000-20,000 lbs.	
Bucket Size	1.5 – 2.25 cu. yd.	
 - (c) **J3 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader

SAE Net	Horsepower	Minimum 100 H.P.
Operating Weight	21,000-28,000 lbs.	
Bucket Size	2.25 – 3.0 cu. yd.	
 - (d) **J5 Class Loaders:** Rubber Tired - 4 Wheel Drive Loader

SAE Net	Horsepower	Minimum 145 H.P.
Operating Weight	28,000-38,000 lbs.	
Bucket Size	3.0 cu. yd. and over	
 - (e) **K4 Class Motor Graders:** Minimum 140 Flywheel Horsepower
 - (f) **K5 Class Motor Graders:** Minimum 160 Flywheel Horsepower
- 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 hours of official notice from the Contract Administrator or be subject to penalties as outlined in **E12**.
- 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: Schedule of Prices. There will be no overtime premium for Work under this Contract.

E4. EQUIPMENT

E4.1 The Contractor shall provide the following minimum quantity and type of equipment in first class working condition:

- (a) 4 motor graders (K4/K5);
- (b) 4 loaders (J2/J3);

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 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 2 metres wide, at least four clearance lights (one green 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 throughout 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.

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 two-way communications with City staff involved in the inspection of contract snow clearing operations. Failure by the Contractor to supply two-way 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 facsimile transmission (fax machine) and shall supply the facsimile number to the Contract Administrator.

E7. EXTREME SNOWFALL AND BLIZZARD CONDITIONS

- E7.1 The Contractor shall provide snow clearing equipment to keep streets open during the extreme snowfall event 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 open during the snow storm shall not be part of the time limits established in E2.2 and E2.3.
- E7.3 During or after extreme snowfall and/or blizzards, the Contract Administrator may require that streets 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 B8 of the Bidding Procedures, the estimated quantities identified on Form B: Schedule of Prices (Unit Price) for the clearing and hauling of snow on the Priority II and III street systems are based on the following:
- (a) **Item No. 1 - Priority II (Bus Routes and Collector) Street System:** The approximate quantity is based on 30.74 lane kms 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 52.21 lane kms of street 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 Street System, Appendix "B" - Priority III Street System. In the event that streets 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 precipitation of snow based on the meteorological summary of the Environment Canada Atmospheric Environment Services for the last 40 years, is provided strictly for the information of Bidders.

E9. TRAFFIC MOVEMENT AND PARKING RESTRICTIONS

E9.1 After a significant snowfall, overnight parking may be restricted on Priority II streets with the declaration of the Major Snowfall Parking Ban. This By-Law, when declared by the Mayor, prohibits parking on Priority II streets between the hours of midnight and 06:00. 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 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 open during major snow storms and/or blizzards on the streets specified in this Contract.

E10.2 In this Contract, each such direction by the Contract Administrator for clearing and hauling services for snow removal and the performance thereof by the Contractor shall be referred to as a "clearing operation".

E10.3 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.

E10.4 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 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.

E10.5 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 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 Bid (R) for items (1) to (3), on Form B: Schedule of Prices (Unit Price), 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 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 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.
- E10.9 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 the following table and are further detailed in the sections and examples following the table:

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 centimetres of recent accumulation snowfall.
(3) Gradual	Up to but not including Dec. 15 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 centimetres of gradual accumulation snowfall.
(4) Combination of recent and gradual	0-10.0 cm (x) of recent and y cm of gradual up to but not including Dec. 15 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 centimetres of recent accumulation snowfall and y is the number of centimetres of gradual accumulation snowfall.
(5) Combination of recent and gradual	Greater than 10.0 cm of recent (x) and y cm of gradual up to but not including Dec. 15 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 centimetres of recent accumulation snowfall and y is the number of centimetres of gradual accumulation snowfall.

- E10.9.1 For a clearing operation required as a result of a recent accumulation of ten (10) cm or less (0-10 cm), the accumulation factor (F) is 1.00. Payment will be made at the unit price Bid 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 Bid x lane kilometres x 1.000).

- E10.9.2 For a clearing operation required as a result of a recent accumulation in excess of ten (10) cm, the accumulation factor will be determined by adding 1.000 (which is the factor for the first ten (10) cm) to 90% of the snow accumulation in excess of 10 centimetres divided by 10. Payment will be made at the unit price Bid 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 Bid x lane kilometres x 1.387).

- E10.9.3 For a clearing operation required as a result of a gradual accumulation, the snow accumulation factor would be 1.000 or 30% of the gradual accumulation divided by 10, whichever value is greater. Payment will be made at the unit price Bid multiplied by the length in kilometres of traffic lanes cleared multiplied by the snow accumulation factor.

Example: Assume that, on February 28, 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 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 Bid x lane kilometres x 1.000).

- E10.9.4 For a clearing operation required as result of a recent accumulation of 10.0 cm or less (0-10 cm) and where there has also been gradual accumulation measured up to but not including December 15 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 10, whichever value is greater. Payment will be made at the unit price Bid 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 of 5.0 cm with severe winds, and in the opinion of the Contract Administrator, there is need for a snow clearing operation. Assume further that 14.5 centimetres of snow has gradually accumulated between December 15th and the commencement of the recent accumulation on January 20th. 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 Bid x lane kilometres x 1.000).

Assume that in the above scenario the snowfall on January 20th 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 Bid x lane kilometres x 1.235).

- E10.9.5 For a clearing operation required as result of a recent accumulation of greater than 10.0 cm and where there has also been gradual accumulation measured up to but not including

December 15 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 ten (10) cm of recent accumulation) to 90% of the recent snow accumulation in excess of 10 centimetres divided by 10 and then adding 30% of the gradual accumulation and divided by 10. Payment will be made at the unit price Bid 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 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 15th and the commencement of the recent accumulation on January 20th. 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 snow 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 Bid x lane kilometres x 2.227).

- E10.10 Payment shall be made for snow clearing services or maintenance snow clearing between snow storms and snow clearing during major storms/blizzards, as specified in E3 of the Specifications at the hourly rate Bid per equipment class on Form B: Schedule of Prices (Unit Price), as the case may be, multiplied by the hours actually worked for each specific class as determined by the Contract Administrator.
- E10.11 Payment for wings, ice blades, and/or straight blades for Motor Graders engaged in a full width snow clearing operation shall be included in the unit price Bid per lane kilometre or kilometre respectively.
- E10.12 Those attachments specifically requested 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 2010 Snow Season".
- E10.13 The City shall guarantee to pay to the Contractor a minimum amount (referred to as the "guaranteed minimum amount") equal to 60% of the Bid price shown on Form B: Schedule of Prices (Unit Price).
 - E10.13.1 Payment for Work done shall be as provided in E8 and all such payments shall be deducted from the guaranteed minimum amount.
 - E10.13.2 On December 31st, 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.
 - E10.13.3 On February 28th, 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.
 - E10.13.4 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.

- E10.13.5 The Contractor will not be compensated for any inconvenience and costs which may result from excavation Work on the streets, the parking of vehicles on the roadway, vehicle movement, or any other obstruction to his Work.
- E10.13.6 The Contractor shall note that on the P2 street system portion of this Contract, the unit price bid shall include the cost of the 0.6m median cut as specified in the contract.
- E10.13.7 It is the City of Winnipeg's intent to hold back five (5) percent of progress estimates for all Work performed under this Contract as a damage deposit relating to E11 of the Specifications. These funds will be released when damages are rectified in accordance with E11.

E11. DAMAGE TO PUBLIC AND PRIVATE PROPERTY

- E11.1 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 City for verification.
- E11.2 The Contractor shall immediately report damages to City or private property to the Contract Inspector.**
- E11.3 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 following the snow clearing season. Damages not rectified by June 30 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.
- E11.4 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 15th each year.**
- E11.5 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.
- E11.6 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.
- E11.7 The Contractor shall replace with equal, any recycling bins or refuse containers destroyed, lost or misplaced by his operations at least (1) day prior to the next refuse day cycle.

E12. PENALTIES

- E12.1 Where the Contractor does not satisfactorily complete the Work on Priority II or III streets in accordance with the time and quality requirements specified in E2, the Contractor shall be assessed a penalty.
- E12.1.1 For Priority II and Priority III streets, the penalty shall be in the amount of \$1,500.00 or an amount equal to twenty-five percent (25%) of the unit price bid per lane kilometre multiplied by the lane kilometres not satisfactorily completed multiplied by the snow accumulation factor, whichever is greater.
- E12.1.2 Streets 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.
- E12.2 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.
- E12.3 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 found to be unsatisfactory in quality within 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.
- E12.4 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.
- E12.5 Where the Contractor fails to replace recycling bins or refuse containers as described in E11.7, the City will replace these items and assess a penalty of \$100.00 per item.

PART F - APPENDICES

APPENDIX A – SOUTH AREA (WAVERLEY HEIGHTS/ST. NORBERT) PRIORITY II

St	From	To	Where to Plow	Kms of St	No. of Lanes	No. of Lane Kms
Campeau St	De L'eglise Ave	South Limit	B/S	0.24	2	0.48
Chancellor Dr	Gaylane Pl	Markham Rd	B/S	2.50	3	7.50
Chancellor Dr	Markham Rd	Markham Rd	B/S	1.02	2	2.04
Chancellor Dr	Markham Rd	Chancellor Dr.	B/S	0.78	3	2.34
De L'eglise Ave	Pembina Hwy	St. Pierre St.	B/S	0.61	3	1.83
De La Digue Ave	Pembina Hwy	Landry	B/S	0.21	2	0.42
Des Trappistes St	Pembina Hwy	Villeneuve Blvd	B/S	0.17	3	0.51
Ducharme Ave	Pembina Hwy	Le Maire St	B/S	0.64	2	1.28
Grandmont Blvd	Waverley St	Pembina Hwy	B/S	1.58	3	4.74
Houde Dr.	Ducharme Ave	1 st lane south	B/S	0.10	2	0.20
Lake Crest Rd	Waverley St	Chancellor Dr	B/S	0.14	4	0.56
Le Maire St	Grandmont Blvd	Ducharme Ave	B/S	0.49	3	1.47
Lemay Ave	Pembina Hwy	St. Pierre St.	B/S	0.68	2	1.36
Markham Rd	Bison Dr	Chancellor Dr	B/S	0.15	4	0.60
Markham Rd	Chancellor Dr	Pembina Hwy	B/S	1.11	3	3.33
St. Pierre St	Lemay Ave	De Leglise Ave	B/S	0.40	2	0.80
St. Therese Ave.	Campeau	La Barriere	B/S	0.13	2	0.26
Villeneuve Blvd	Des Trappistes St	Ducharme Ave	B/S	0.51	2	1.02
				TOTAL PII		30.74

APPENDIX B – SOUTH AREA (WAVERLEY HEIGHTS/ST. NORBERT) PRIORITY III

St	From	To	Where to Plow	Kms of St	No. of Lanes	No. of Lane Kms
Alumni Pl	Chancellor Dr	Chancellor Dr.	B/S	0.12	2	0.24
Audubon Pl	Lake Grove By	S. End	B/S	0.12	2	0.24
Augusta Dr	Greensboro By	Chancellor Dr.	B/S	0.09	2	0.18
Augusta Dr	Chancellor Dr	Chancellor Dr.	B/S	1.07	2	2.14
Bellemer Dr	Grandmont Bv	Le Maire St	B/S	0.61	2	1.22
Berard Wy	Grandmont Bv	Dubois Pl	B/S	0.28	2	0.56
Bibeaudel Pl	Grandmont Bv	N. End	B/S	0.08	2	0.16
Blue Lake By	East Lake Dr	Gull Lake Rd	B/S	0.24	2	0.48
Bonin By	Grandmont Bv	S. End	B/S	0.11	2	0.22
Champagne Cr	Lamirande Pl	Dubois Pl	B/S	0.26	2	0.52
Charette St	St Gabriel Av	Du Couvent Av	B/S	0.12	2	0.24
Cross Creek Pl	Grandmont Bv	Grandmont Bv	B/S	0.07	2	0.14
Delorme By	Grandmont Bv	Grandmont Bv	B/S	0.29	2	0.58
Delorme Pl	Grandmont Bv	Delorme By	B/S	0.09	2	0.18
Demers Pl	Bellemer Dr	S. End	B/S	0.13	2	0.26
Des Trappistes	Villeneuve Bv	Du Monastere	B/S	0.56	2	1.12
Dorge Dr	Gendreau Av	Gendreau Av	B/S	0.50	2	1.00
Du Couvent Av	La Barriere St	St Pierre St	B/S	0.39	2	0.78
Dubois Pl	W. End	E. End	B/S	0.33	2	0.66
Dufort Pl	La Porte Dr	W. End	B/S	0.07	2	0.14
East LakeDr	Chancellor Dr	Gull Lake Rd	B/S	0.34	2	0.68
Forest Lake Dr	Lakeside Dr	Markham Rd	B/S	0.45	2	0.90
Gaylene Pl	Chancellor Dr	N. End	B/S	0.21	2	0.42
Gendreau Av	Le Maire St	Villeneuve Bv	B/S	0.44	2	0.88
Gervais Pl	Bellemer Dr	S. End	B/S	0.06	2	0.12

Gosselin By	Berard Wy	E. End	B/S	0.08	2	0.16
Greensboro By	Chancellor Dr	Augusta Dr	B/S	0.31	2	0.62
Greensboro By	Augusta Dr	E. End	B/S	0.12	2	0.24
Gull Lake Rd	Chancellor Dr	Markham Rd	B/S	0.82	2	1.64
Gundy Lake By	Gull Lake Rd	W. End	B/S	0.10	2	0.20
High Lake By	Gull Lake Rd	W. End	B/S	0.14	2	0.28
Hobson Pl	Swan Lake By	W. End	B/S	0.07	2	0.14
Houde Dr	Ducharme Av	1 st lane S. of Ducharme	B/S	0.71	2	1.42
Houde Dr	Ducharme Av	Ducharme Av	B/S	0.50	2	1.00
Jolibois Pl	Bellemer Dr	N. End	B/S	0.07	2	0.14
Julien Pl	Grandmont Bv	E. End	B/S	0.06	2	0.12
La Barriere St	Lemay Av	St Therese Av	B/S	0.36	2	0.72
La Fleur Pl	Bellemer Dr	S. End	B/S	0.10	2	0.20
La Grave St	Lemay Av	Lord Av	B/S	0.18	2	0.36
La Porte Dr	Le Maire St	S. End	B/S	0.20	2	0.40
Lake Albrin By	Chancellor Dr	Chancellor Dr.	B/S	0.38	2	0.76
Lake Fall Pl	Gull Lake Rd	E. End	B/S	0.08	2	0.16
Lake Green Pl	Lake Lindero Rd	Lake Lindero Rd	B/S	0.11	2	0.22
Lake Grove By	Chancellor Dr	Chancellor Dr.	B/S	0.61	2	1.22
Lake Island Cr	Chancellor Dr	W. End	B/S	0.22	2	0.44
Lake Land Pl	Markham Rd	E. End	B/S	0.22	2	0.44
Lake Lindero Rd	Chancellor Dr	Chancellor Dr.	B/S	0.55	2	1.10
Lake Lindero Rd	Chancellor Dr	Lakedale Pl	B/S	0.07	2	0.14
Lake Linnet Pl	Lake Lindero Rd	Lake Lindero Rd	B/S	0.10	2	0.20
Lake Pointe Rd	Syracuse Cr	Chancellor Dr.	B/S	0.23	2	0.46
Lake Port Pl	Lakeglen Dr	Lakeglen Dr	B/S	0.08	2	0.16
Lake Village Rd	Chancellor Dr	Chancellor Dr.	B/S	0.83	2	1.66
Lakedale Pl	Lake Albrin By	S. End	B/S	0.33	2	0.66
Lakelea Pl	Augusta Dr	Augusta Dr	B/S	0.06	2	0.12

Lakeshore Rd	Chancellor Dr	Chancellor Dr.	B/S	0.56	2	1.12
Lakeside Dr	Chancellor Dr	Augusta Dr	B/S	0.43	2	0.86
Lamirande Pl	Grandmont Bv	N. End	B/S	0.24	2	0.48
Landry St	De La Digue Av	De L'eglise Av	B/S	0.22	2	0.44
Laurent Cr	Laurent Dr	S. End	B/S	0.07	2	0.14
Laurent Dr	Grandmont Bv	Grandmont Bv	B/S	0.67	2	1.34
Laurent Pl	Grandmont Bv	S. End	B/S	0.08	2	0.16
Le Maire St	Ducharme Av	Gendreau Av	B/S	0.33	2	0.66
Leclair Pl	Payment St	E. End	B/S	0.06	2	0.12
Lemay Av	St Pierre St	Lord Av	B/S	0.27	2	0.54
Lestang St	Houde Dr	Gendreau Av	B/S	0.08	2	0.16
Lord Av	St Pierre St	N. End	B/S	0.62	2	1.24
Lowell Pl	Augusta Dr	S. End	B/S	0.12	2	0.24
Macbell Rd	Cloutier Dr	S. End	B/S	0.13	2	0.26
Marymount Pl	Forest Lake Dr	N. End	B/S	0.13	2	0.26
Mestre Pl	Grandmont Bv	Grandmont Bv	B/S	0.04	2	0.08
Montclair By	Lakeshore Rd	Lakeshore Rd	B/S	0.35	2	0.70
Nolin Av	Grandmont Bv	Lamirande Pl	B/S	0.22	2	0.44
Nolin Pl	Nolin Av	N. End	B/S	0.09	2	0.18
Osgoode Pl	Chancellor Dr	E. End	B/S	0.16	2	0.32
Parisien Pl	Bellemer Dr	Bellemer Dr	B/S	0.05	2	0.10
Payment St	Grandmont Bv	La Porte Dr	B/S	0.41	2	0.82
Payment St Cv	Payment St	S. End	B/S	0.06	2	0.12
Peacock Pl	Lake Grove By	E. End	B/S	0.14	2	0.28
Peloquin By	Berard Wy	E. End	B/S	0.08	2	0.16
Pirson Cr	Grandmont Bv	Payment St	B/S	0.26	2	0.52
Providence Pl	Augusta Dr	N. End	B/S	0.17	2	0.34
Quincy By	Augusta Dr	Chancellor Dr.	B/S	0.18	2	0.36
Quincy By	Chancellor Dr	Chancellor Dr.	B/S	0.39	2	0.78

Ramage Pl	Bellemer Dr	W. End	B/S	0.08	2	0.16
Salem Pl	Chancellor Dr	E. End	B/S	0.07	2	0.14
Salisbury Cr	Quincy By	Augusta Dr	B/S	0.31	2	0.62
Sanata Clara Cr	Lakeside Dr	Augusta Dr	B/S	0.23	2	0.46
Sandy Lake	East Lake Dr	S. End	B/S	0.11	2	0.22
Shrarwater By	Swan Lake By	W. End	B/S	0.11	2	0.22
Solomon Pl	Grandmont Bv	N. End	B/S	0.07	2	0.14
Southpark	Pembina	W End	B/S	0.35	2	0.70
St Denis Pl	Grandmont Bv	N. End	B/S	0.08	2	0.16
St Gabriel Av	Landry St	St Pierre St	B/S	0.47	2	0.94
St Pierre St	De L'eglise Av	S. End	B/S	0.58	2	1.16
St Therese Av	La Barriere	St Pierre St	B/S	0.31	3	0.93
Station Rd	Pembina Hw	W. End	B/S	0.06	2	0.12
Stormont Dr	Cloutier Dr	E. End	B/S	0.24	2	0.48
Swanlake By	Chancellor Dr	Chancellor Dr.	B/S	0.55	2	1.10
Syracuse Cr	Chancellor Dr	Chancellor Dr.	B/S	0.60	2	1.20
Verrier Pl	Grandmont Bv	E. End	B/S	0.07	2	0.14
Villa Maria Pl	Lemay Av	N. End	B/S	0.05	2	0.10
West Lake Cr	Chancellor Dr	Blue Lake By	B/S	0.28	2	0.56
				TOTAL PIII		52.21

APPENDIX "C"

Snowfall - October 1 to April 30

Year	Centimetres
1968-1969	95.20
1969-1970	159.00
1970-1971	123.40
1971-1972	106.70
1972-1973	81.00
1973-1974	130.80
1974-1975	125.20
1975-1976	136.20
1976-1977	64.40
1977-1978	73.10
1978-1979	148.60
1979-1980	108.00
1980-1981	72.50
1981-1982	77.20
1982-1983	77.40
1983-1984	56.30
1984-1985	93.20
1985-1986	124.20
1986-1987	120.20
1987-1988	65.40
1988-1989	153.60
1989-1990	96.40
1990-1991	120.50
1991-1992	133.00
1992-1993	111.60
1993-1994	82.00
1994-1995	88.60
1995-1996	202.50
1996-1997	211.40
1997-1998	104.10
1998-1999	144.70
1999-2000	71.40
2000-2001	109.70
2001-2002	105.40
2002-2003	90.90
2003-2004	149.80
2004-2005	136.60
2005-2006	151.20
2006-2007	135.60
2007-2008	111.90
2008-2009	129.20