



TENDER PW 2019-10
**ONE NEW 2018 OR 2019 SIDEWALK TRACTOR WITH SNOW PLOW,
SNOW BLOWER AND SANDER**

PLEASE NOTE: BID REGISTRATION

Bid Registration is provided and mandatory to assist in the issuance of any addendum/addenda (via fax or email), should the need arise. Prospective Proponents are required to register and also check the Municipality's Website for any addendum(s) that may have been issued prior to submission of their final documents. The Municipality of Brighton is not responsible for the Proponent's failure to register for updates or addendum/addenda to the originally posted Bid; it is the Proponent's responsibility.

To Register Bid Please Email: lisa@brighton.ca



TENDER PW 2019-10
**ONE NEW 2018 OR 2019 SIDEWALK TRACTOR WITH SNOW PLOW,
SNOW BLOWER AND SANDER**

PART I – INVITATION TO BID

The Corporation of the Municipality of Brighton (later referred to as "the Municipality") invites qualified and experienced bidders to submit a Tender for ONE NEW 2018 OR 2019 SIDEWALK TRACTOR WITH SNOW PLOW, SNOW BLOWER AND SANDER

All inquiries are to be submitted in writing to: Murney Gibson, Mechanic
The Municipality of Brighton
67 Sharp Road
Brighton, Ontario K0K 1H0
mgibson@brighton.ca

Sealed envelopes, clearly marked as to the contents, will be received at the Brighton Public Works and Development Office, 67 Sharp Road, Brighton, Ontario, until **2:00 p.m.** local time on **Thursday, April 25, 2019**. The Bidders name and address are to be clearly indicated on the left top corner on the front of the envelope.

THE MUNICIPALITY RESERVES THE RIGHT TO REJECT ANY OR ALL TENDERS WITHOUT FURTHER QUESTIONS OR REDRESS FROM ANY RESPONDENTS AND RESERVES THE RIGHT TO ACCEPT ANY TENDER OTHER THAN THE LOWEST BIDDER. ALL TENDERS ARE AWARDED BY RESOLUTION OF COUNCIL.

Table of Contents

<u>Part</u>	<u>Description</u>
I	Invitation to Bid
II	Information for Bidders
III	Form of Tender
IV	Specifications for One New 2018 or 2019 Sidewalk Tractor with Snow Plow, Snow Blower and Sander
V	Experience and Sub-Contractors
Appendix 'A'	Definitions

PART II – INFORMATION FOR BIDDERS

<u>Section Number</u>	<u>Title</u>
1.0	Delivery of Tenders
2.0	Overview
3.0	Inquiry
4.0	Definitions
5.0	Preparation of plans and specifications and supervision of work
6.0	Items
7.0	Subcontractors
8.0	Right to accept or reject Tender/sub-contractors
9.0	Ability and Experience of Bidder
10.0	Unbalanced or Incorrect Tenders
11.0	Tender Left Open
12.0	Award and Execution of Contract
13.0	Payments
14.0	Alterations, Extras, Deductions and Claims
15.0	Default and Termination
16.0	Delivery of Vehicles
17.0	Canadian Motor Vehicle Standards

1.0 DELIVERY OF TENDERS

1.1 Tenders will be received at:

The Municipality of Brighton
Public Works and Development Office
Attention: Murney Gibson, Mechanic
67 Sharp Road
Brighton, Ontario K0K 1H0

Tenders will be publicly opened on **Thursday, April 25, 2019 at 2:00 p.m.** local time, at the same location.

Note: The use of the mail, or courier services, or any third party for delivery of a Tender will be at the risk of the Bidder. A Tender must be received at the Municipality of Brighton, Public Works and Development Office, by the closing date and time, or it will be returned to the Bidder unopened.

- 1.2 Tenders shall be submitted on the supplied Form of Tender, which shall be completed in every respect, with all blank fields filled in legibly. Tenders must be properly signed and sealed; otherwise the Tender may be rejected as informal. Sealed envelopes, clearly marked with "Tender PW 2019-10, One New 2018 or 2019 SIDEWALK TRACTOR WITH SNOW PLOW, SNOW BLOWER AND SANDER", must be submitted.
- 1.3 Tenders may be withdrawn, by written notice to Murney Gibson, Mechanic, at a time no greater than two (2) hours prior to the opening of the first Tender.
- 1.4 Tenders will not be accepted if submitted by fax or email.
- 1.5 Claims for extras, on the basis that Work was noted in one or more of the Contract Documents and not shown or noted in another, shall not be entertained.
- 1.6 Tenders must be submitted without any knowledge, comparison of figures or arrangements with any other person making any Tender or estimate for the same purpose. Tenders must also be submitted without collusion or fraud and that no officer of the Municipality shall become interested, directly or indirectly, as a contracting party, partner, surety or otherwise in or in the performance of the Contract, or in the supplies, work or business to which it relates, or in any of the monies to be derived therefrom.

- 1.7 The Bidder shall give the unit price both in words and in figures, except as permitted otherwise, shall fill in all blank spaces for unit prices, item prices, Time of Completion and other information.
- 1.8 A Bidder who has already submitted a Tender may submit a revised Tender at any time prior to the official closing time. The last Tender received shall supersede and invalidate all Tenders previously submitted by that Proponent.
- 1.9 Tenders which are unbalanced, incomplete, conditional or obscure, or which contain additions not called for, erasures, alterations or irregularities of any kind, may be rejected as informal.

2.0 OVERVIEW

- 2.1 The purpose of this Tender document is to solicit interested parties to provide all services necessary to supply the Municipality with One New 2018 or 2019 SIDEWALK TRACTOR WITH SNOW PLOW, SNOW BLOWER AND SANDER.
- 2.2 Materials and work which are not specifically described, or shown, in the Contract Documents, but the necessity of which can be reasonably inferred from the Contract Documents, shall be supplied and performed by the Bidder at no additional cost to the Municipality and the Bidder shall not claim extra payment, or an extension of the time for completion on account thereof.

3.0 INQUIRY

- 3.1 Any questions regarding this Tender must be received in writing, by email, no later than **2:00 p.m. on Thursday, April 18, 2019** and must be directed to Murney Gibson, Mechanic, Municipality of Brighton, at mgibson@brighton.ca. Inquiries with a response that may result in a change(s) of the interpretation of the Tender will be addressed in an addendum, a copy of which all plan takers can obtain from the municipal website after 2:00 p.m. on Friday, April 19, 2019.

4.0 DEFINITIONS

- 4.1 See Appendix 'A' for definitions that apply hereto.

5.0 PREPARATION OF PLANS AND SPECIFICATIONS AND SUPERVISION OF WORK

- 5.1 Should a Tenderer find discrepancies, omissions, or ambiguities, or not agree that the materials and construction methods specified will provide an installation which meets the requirements of the intended vehicle, the Tenderer shall notify the Municipality in writing at least seven (7) calendar days prior to the Tender opening date. No oral interpretation made by the Municipality will be effective to modify any aspect of the Contract Documents. Each addendum (if any issued) shall be acknowledged by the Tenderer, signed and included with the Tender.

6.0 ITEMS

- 6.1 All items are contained in the Form of Tender. Please provide a unit price and total cost for each item and a cost for the project completion.

7.0 SUBCONTRACTORS

- 7.1 Should the Bidder choose to employ subcontractors to perform work under this Project, a list of proposed subcontractors shall be included with the Tender submission for approval from the Municipality.
- 7.2 Bidders are to complete the attached Subcontractor Form and submit it with their Tender package. The Municipality reserves the right, in its sole discretion, not to recommend an award to any Bidder whose named subcontractor(s) is/are deemed to be unsuitable, or has/have an unsatisfactory health and safety record and/or record of performance. Proponents using subcontractors shall be responsible for the subcontractor's quality of work and rectification of substandard work.
- 7.3 The successful Bidder will be responsible to the Municipality to guarantee that each Subcontractor carries the required amount of insurance, subject to the inclusive limits, as noted in this document. The Bidder will obtain, for the benefit of the Municipality as requested, certificates of insurance from each subcontractor. Each certificate of insurance is to be submitted with the Tender package.

8.0 RIGHT TO ACCEPT OR REJECT TENDERS/SUB-CONTRACTORS

- 8.1 The Municipality reserves the right to reject any or all Tenders or to accept any Tender if it is in the best interest of the Municipality to do so.

- 8.2 By submitting a Tender, the Bidder acknowledges that there shall be no claims against, or entitlement to damages from, the Municipality by reason of the Municipality's rejection of any bid or all bids.

9.0 ABILITY AND EXPERIENCE OF BIDDER

- 9.1 The Municipality does not intend to award the Contract to any Bidder who does not furnish satisfactory evidence that the Bidder has the ability and experience required in this class of work and that the Bidder has sufficient capital to execute the Work successfully and to complete it in the time required by the Contract. The appropriate schedule in the Form of Tender must be completed; otherwise the Tender may, but shall not necessarily, be rejected as informal.

10.0 UNBALANCED OR INCORRECT TENDERS

- 10.1 The unit price on the Form of Tender shall be a reasonable unit price for each item. The Municipality shall be the sole judge of such matters. Any Tender considered by the Municipality to be unbalanced may be rejected.
- 10.2 When the amount for an item does not agree with the extension of the estimated quantity and the Tendered unit price, the unit price shall govern and both the item amount and the total Tender price shall be corrected accordingly. If the unit price is left blank, but a total price is shown for the item, then the unit price shall be determined by dividing the total price by the estimated quantity.
- 10.3 If both the unit price and the total price for an item are left blank, then the Tender submission shall be considered unbalanced.
- 10.4 Notwithstanding the values that may have been read out at the Tender opening, the corrected Tender values, as determined by the procedures contained herein, shall be used to establish the ranking of the Tender submissions.

11.0 TENDER LEFT OPEN

- 11.1 The Bidder shall keep its Tender submission open for acceptance for thirty (30) days after its submission, unless the submission has been withdrawn in accordance with article 1.3.

12.0 AWARD AND EXECUTION OF CONTRACT

- 12.1 For the purpose of this Contract, the date of award of the Contract shall be deemed to be the date when the Municipality has, in writing notified the successful Bidder by registered mail, courier or fax that the Condition Precedent to Award has been satisfied. Award of this Contract will be by Council Resolution and the date that it will be presented to Council, will be on or about **May 6, 2019**.
- 12.2 Without limitation and to summarize the requirements of other paragraphs of the Information for Bidders, the following documentation is required from the Contractor prior to execution of the Contract:
- i. Bidder's HST Registration Number;
 - ii. List of sub-contractors, if applicable; and
 - iii. Proof of insurance.
- 12.3 The successful Bidder will be required to execute three (3) copies of the Contract within ten (10) working days of the date of award of the Contract.
- 12.4 If the Bidder refuses or fails to execute the Contract within ten (10) working days of the date of award, it will be considered that the Bidder has abandoned all rights and interests in the Contract. The Municipality shall, in such event, be free to award the Contract to another Bidder or to re-bid the Work.

13.0 PAYMENTS

- 13.1 The Municipality will receive an invoice/payment certificate from the successful Proponent once the vehicle(s) has/have been delivered to the Municipality of Brighton, complete with all equipment, with no defects and deficiencies, as well as after inspection by our Equipment Supervisor. Payment will be made 30 days after delivery to the Municipality.

14.0 ALTERATIONS, EXTRAS, DEDUCTIONS AND CLAIMS

- 14.1 Any extra work must be approved by the Municipality in writing prior to commencing the extra work.
- 14.2 In the event of any circumstances arising at any time which, in the Proponent's opinion would entitle the Proponent to additional compensation and which are not fully provided for herein, the Proponent shall at once, on the discovery of such circumstances, notify the Municipality, in writing and shall state clearly and fully the circumstances, and the additional sum or

compensation demanded, or otherwise there shall be no claim in respect thereof.

15.0 DEFAULT AND TERMINATION

15.1 In the event the successful Proponent does not follow the work specified in the Contract Documents, then:

15.1.1 the Municipality reserves the right to terminate any Contract, in whole or in part, and in the event of such termination no payment will be owing by the Municipality on account of said Contract and the Proponent will be liable for any and all expenses or loss resulting from such failure or delay and will return all monies paid by the Municipality; or

15.1.2 if the Municipality does not terminate this Contract for lateness, the Municipality may deduct and setoff from any payments owing to the Proponent all additional costs the Municipality reasonably incurs on account of the lateness.

15.2 The Municipality may, by written notice at any time, cancel the Contract with respect to the item which, as of the date of cancellation, has not been received, and/or completed.

15.3 If the Municipality terminates the Contract, then the Municipality may:

15.3.1 Enter into contracts with other persons to complete the vehicle;

15.3.2 Withhold payment of any amount owing to the Proponent under the Contract for the performance of the work;

15.3.3 Setoff the total cost of completing the Work incurred by the Municipality against any amounts owing to the successful Proponent under the Contract, and at the completion of the Work pay to the Proponent any balance remaining; and

15.3.4 If the total cost to complete the Work exceeds the amount owing to the successful Proponent, charge the Proponent the balance, which amount the Proponent will forthwith pay.

16.0 DELIVERY OF VEHICLES

- 16.1 Delivery of the completed Sidewalk Tractor With Snow Plow, Snow Blower and Sander to be **no later than July, 30, 2019**, and will be delivered to the Municipality of Brighton, 67 Sharp Road, Brighton, Ontario, K0K 1H0.

17.0 CANADIAN MOTOR VEHICLE STANDARDS

- 17.1 The item offered should meet or surpass the mandatory requirements of the "Canadian Motor Safety Regulations" and the latest applicable S.A.E., I.E.M.C. and O.S.H.A. recommended practices, where the use of such item may be covered by these regulations.

PART III – FORM OF TENDER

COMPANY INFORMATION

NOTE: PLEASE USE INK OR PRINTER

Name of Company: _____

Address/City/Town: _____

_____ Postal Code

Telephone Number: _____ Fax Number: _____

E-Mail Address: _____

Name of Person Signing for Company: _____

Position of Person Signing for Company: _____

Name of Contact Person: _____

HST Number: _____

TENDERS RECEIVED BY:

The Municipality of Brighton
Public Works and Development
Attention: Murney Gibson, Mechanic
67 Sharp Road
Brighton, Ontario K0K 1H0

Date: _____

We acknowledge that we have received addenda numbered ____ to ____ inclusive, and the prices Tendered include provisions set out in such addenda.

NOTE: Your Tender will be rejected in its entirety if the addenda, if any, are not acknowledged and provided for in the prices submitted.
Respondents must include ALL APPLICABLE SECTIONS of the Quotation Package at the time of closing.

THIS PAGE TO BE INCLUDED WITH YOUR QUOTATION PACKAGE

**To: The Corporation of the Municipality of Brighton, Public Works and Development
67 Sharp Road
BRIGHTON, Ontario
K0K 1H0**

The undersigned, being a body corporate, duly incorporated and authorized to carry on business in the province of Ontario, hereinafter called the Bidder, having carefully examined the Specification, the plans attached thereto, all addenda thereto and all other information and documents pertaining to the proposed project covering the work requirements and being aware of all the conditions affecting the cost of the work, hereby offer to furnish all labour, supervision, materials, tools, construction equipment and other facilities (other than those specifically stated in the specification as being supplied by others) and to perform all necessary work and proper for or incidental to the project and associated work at the site together with the guaranteeing of same in conformity with the Contract to be entered into upon acceptance of this Tender.

Make _____

Model _____

Price for Sidewalk Tractor and attachments (Basis of Award)	\$ _____
H.S.T.	\$ _____
TOTAL	\$ _____

TOTAL AMOUNT IN WORDS, FOR THE STIPULATED SUM OF:

_____ DOLLARS

All of which is submitted and duly executed under the corporate seal, this _____ day of _____, 2019.

The total has been calculated using Part IV, specifications of a New Sidewalk Tractor. The final valuation of the vehicle will be made on the basis of the specifications.

PART IV – Specifications for One New 2018 or 2019 SIDEWALK TRACTOR WITH SNOW PLOW, SNOW BLOWER AND SANDER

The successful Bidder shall supply and deliver manufacturer’s standard equipment for One New 2018 or 2019 SIDEWALK TRACTOR WITH SNOW PLOW, SNOW BLOWER AND SANDER.

Option packages attached to items must include a detailed outline of all options. Brochures are not acceptable for outlining options.

Options, weights and dimensions must be included in separate list as brochures do not clearly identify the items.

1.0 YEAR, MAKE, MODEL

State year, make and model of Sidewalk Tractor:

YEAR _____

MAKE _____

MODEL _____

2.0 STANDARD EQUIPMENT

Sidewalk Tractor must be delivered with all manufacturer’s standard equipment in regards to comfort, utility, safety and convenience.

3.0 REQUIRED OPTIONAL EQUIPMENT

In addition to the standard equipment, the Sidewalk Tractor must be equipped with the following options:

The following document provides a general outline of the required specifications for a diesel powered, four-wheel drive, articulated vehicle suitable for operation during all four (4) seasons. Basic functions of the vehicle include snow removal, sweeping and turf maintenance.

Section 1 – Vehicle Summary

Specify Manufactured Year: _____

Specify Make: _____

Specify Model: _____

Section 2 – Dimensions

Dimensions are not to exceed the following:

Overall length (without attachments) 154.5" (3924mm)

SPECIFY _____

Height to top of cab roof (with A/C) 83.1" (2113mm)

SPECIFY _____

Height to top of cab roof (without A/C) 83.1" (2113mm)

SPECIFY _____

Overall width (outside tire tread) 50.1" (1273mm)

SPECIFY _____

Minimum wheel base 83" (2108mm)

SPECIFY _____

Maximum inside turning radius 90" (2286mm)

SPECIFY _____

Minimum weight 6500lbs (2948kg)

SPECIFY _____

Section 3 – Engine

The engine shall be a four (4) cylinder turbo diesel, water cooled, with the following minimum ratings:

COMPLY _____ NO _____

74HP @ 2300 RPM; Tier 4 Final emission compliant

COMPLY _____ NO _____

Engine shall have a maximum displacement of 3.4L (207.5 cu. in.)

COMPLY _____ NO _____

Shall have a cold starting aid controlled by the engine's ECM indicating when the engine is ready to start

COMPLY _____ NO _____

Engine shall have a quick change filter housing with Pre cleaner mounted outside the engine compartment.

COMPLY _____ NO _____

Engine air filter shall have visual filter indicator (filter minder).

COMPLY _____ NO _____

Air filter assembly shall have two (2) paper elements.

COMPLY _____ NO _____

Engine shall have a 400 watt 120 VAC block heater with cord

COMPLY _____ NO _____

Engine must be equipped with an automatic derate system to protect the engine from damage as a result of issues such as high coolant temperature or low oil pressure. In the interest of operator safety, systems that automatically shut down the engine, potentially leaving the vehicle and operator in harm's way, are unacceptable. No exceptions.

COMPLY _____ NO _____

In the interest of productivity, the vehicle must be able to continue operating during the passive and active engine regeneration process (cleaning of the DPF). Systems that require the vehicle to be parked (stationary) while the engine cycles through the regeneration process are unacceptable. Vehicle must have a warning message on the multifunctional 5" display to notify operators that the engine is undergoing an active regeneration process. The engine regeneration process must automatically occur with no additional input required. No exceptions.

COMPLY _____ NO _____

Exhaust must exit through the top of the rear engine hood.

COMPLY _____ NO _____

Engine must be programmed for anti-idle which shuts off the engine automatically after a specified period of time, once the engine has reached operating temperature.

COMPLY _____ NO _____

Section 4 – Frames

Due to the extreme nature of the application, the vehicle must utilize HSS steel for both front and rear frame sections with the following minimum requirements:

Front Frame:

- Main frame rails shall be comprised of two (2) heavy duty 2" x 4" x 1/4" (51mm x 102mm x 6mm) HSS with 1" (25mm) thick one (1) piece full length plate steel on the top and 1" (25mm) thick steel plate on the bottom to increase rigidity of the frame.

COMPLY _____ NO _____

- Outside frame stiffeners must include cut-outs for unit tie downs.

COMPLY _____ NO _____

- Attachment push frame mount must be part of front frame weldment to increase strength.

COMPLY _____ NO _____

Cast frame assemblies are unacceptable.

Rear Frame:

- Main frame rails shall be comprised of two (2) heavy duty 2" x 5" x 1/4" (51mm x 127mm x 6mm) HSS with 3/4" (19mm) thick one (1) piece full length plate steel on the top and 1" (25mm) thick steel plate on the bottom to increase rigidity of the frame

COMPLY _____ NO _____

- Bottom plates must include cut-outs for unit tie downs.

COMPLY _____ NO _____

- Fenders shall be replaceable and made of rolled 1/8" (3mm) thick steel.

COMPLY _____ NO _____

Cast frame assemblies are unacceptable.

Section 5 – Engine Access

Due to the extreme conditions the vehicle will be subjected to, the engine cover and side hoods must be made from thermoplastic polyolefin (TPO) composite material. Metal or other materials requiring paint and that are prone to corrosion are unacceptable. Side engine covers shall be removable and secured with positive style latch fasteners. Tools must not be required to remove side hoods.

COMPLY _____ NO _____

Removable side hoods should allow for complete access to the engine and daily service checks.

COMPLY _____ NO _____

Reflectorized slow moving vehicle sign must be included and mounted on the rear bumper assembly.

COMPLY _____ NO _____

Section 6 – Cooling

A 3-in-1 cooler shall be supplied for cooling charge air (if equipped), hydraulic oil, and engine coolant. Minimum cooling fin area must be 5.46 sq. ft. (19.96 sq. m).

COMPLY _____ NO _____

In order to maximize cooling, the engine driven fan shall be a minimum of 19.5" (495mm) in diameter.

COMPLY _____ NO _____

(OPTIONAL) Engine driven fan shall automatically reverse at pre-set intervals to reduce the buildup of grass clippings in the coolers.

COMPLY _____ NO _____

Section 7 – PTO

PTO shall be front mounted 1.375" (35mm) diameter 6 spline.

COMPLY _____ NO _____

PTO "ON" function shall have an interlock system tied to a seat switch and the engine throttle. In order to activate the PTO, the operator must be present in the seat and the engine throttle must be set at idle. To minimize shock loading and damage to the PTO system, systems that allow activation of the PTO at engine speeds above idle are unacceptable.

COMPLY _____ NO _____

The PTO function shall include an interlock circuit that shuts off the PTO after the operator leaves the seat. No exceptions.

COMPLY _____ NO _____

PTO function must automatically disengage when high range travel speed is selected. No exceptions.

COMPLY _____ NO _____

PTO shall have an indicator light that shows when the PTO is engaged.

COMPLY _____ NO _____

540 PTO RPM is achieved at an engine speed of not more than 2300 RPM. Higher engine RPMs are unacceptable due to high fuel consumption.

COMPLY _____ NO _____

PTO clutch must be wet, multi-disc type with a minimum torque rating of 710 lb-ft. Over-center style clutches that require maintenance and periodic adjustment are unacceptable. No exceptions.

COMPLY _____ NO _____

PTO reduction gearbox must be planetary style. Drop style PTO reduction gearboxes are unacceptable.

COMPLY _____ NO _____

Section 8 – Transmission

MUST BE HYDROSTATIC DRIVE– Closed-loop hydraulic axial piston pump with 2-speed drive motor. In the interest of simplicity and durability, the drive pump must be hydraulic servo controlled via vehicle treadle pedal, allowing finite hydraulic control and the elimination of control cables and linkages. Cable, electronic, or electric over hydraulically actuated drive systems are unacceptable. No exceptions.

COMPLY _____ NO _____

The vehicle shall have a minimum of two (2) speed ranges:

- Low speed range of 0-12 KM/H (0-7.5MPH)

COMPLY _____ NO _____

- High speed range of 0-32 KM/H (0-19.9MPH)

COMPLY _____ NO _____

3-speed drive motor with intermediate speed range of 0-18 KM/H (0-11.2 MPH)

COMPLY _____ NO _____

In the interest of operator safety and convenience, and improved performance, the vehicle must be able to shift between speed ranges while in motion via a dash mounted electric over hydraulic transmission range selector switch. Transmissions that do not permit the operator to shift

COMPLY _____ NO _____

Between speed ranges while the vehicle is in motion are unacceptable. No exceptions. Hydrostatic drive pump must incorporate a tow valve.

COMPLY _____ NO _____

In the interest of operator safety, the vehicle must not utilize a mechanical neutral in the transmission, accessible by the operator during operation of the vehicle. Systems that allow the operator to shift the transmission into neutral during operation of the vehicle, potentially causing reduced control of the vehicle, are unacceptable. No exceptions.

COMPLY _____ NO _____

Vehicle shall have the ability to operate manufacturer's own asphalt/concrete planer attachment utilizing the standard vehicle hydrostatic drive system without the requirement of an additional deep reduction gearbox. No exceptions.

COMPLY _____ NO _____

Drive pump shall include charge pressure filtration separate from the vehicle's main hydraulic filter by way of a spin on filter element. Hydrostatic drive systems that do not utilize a separate filtration system for the charge/drive pump are unacceptable.

COMPLY _____ NO _____

The vehicle shall incorporate a "cruise control" function that allows forward travel speed to be set and adjusted via a dial mounted on the operator's console. The cruise control option must be functional in all speed ranges and be infinitely adjustable.

COMPLY _____ NO _____

Section 9 – Axles

Shall be heavy duty outboard planetary style axles complete with limited slip differentials front and rear. Rated capacity of each axle to be not less than 12,000lbs (5,443kg). Wheel motor drive systems are unacceptable.

COMPLY _____ NO _____

In the interest of operator safety and reduced maintenance, axles must utilize internal wet style disc brakes with a combined rated capacity of 24,000lbs minimum. Automotive style drum and shoe brakes are unacceptable due to their high maintenance requirement.

COMPLY _____ NO _____

Axles shall have six (6) M18 wheel studs per wheel.

COMPLY _____ NO _____

Axle housings shall be of a cast style. Automotive welded full-float style axles are unacceptable.

COMPLY _____ NO _____

Shall be heavy duty outboard planetary style axles complete with locking differentials front and rear. The locking differential option shall utilize electric over hydraulic actuation controlled by an illuminated rocker switch. The rated capacity of each axle to be not less than 12,000lbs (5,443kg).

COMPLY _____ NO _____

Section 10 – Steering System and Oscillation / Articulation Joint

Steering cylinders (2) shall be of welded construction, controlled through an open-center steering valve powered with priority flow. In the interest of operator safety, systems utilizing any single steering cylinder and/or tie-rod style cylinders are unacceptable.

COMPLY _____ NO _____

Articulation angle shall be a minimum of 40° in both directions.

COMPLY _____ NO _____

Articulation joint and steering cylinders must utilize hardened "expander" style long life pins.

COMPLY _____ NO _____

Oscillation joint shall incorporate a bolt on, grease able ball bearing style assembly for durability and ease of service. Bushing style oscillation joints are unacceptable.

COMPLY _____ NO _____

Oscillation joint shall allow for a minimum of 10° of motion in each direction.

COMPLY _____ NO _____

Oscillation bearing shall have two (2) grease points located on the side of the bearing assembly.

COMPLY _____ NO _____

Section 11 – Braking Systems

There shall be a minimum of three (3) braking systems: hydrostatic, service and parking. Service brakes shall be enclosed wet disc type with a minimum braking capacity of 24,000lbs.

COMPLY _____ NO _____

Rear brake lights must automatically activate when the directional/treadle pedal returns to the neutral position to advise traffic that the vehicle is slowing down.

COMPLY _____ NO _____

Parking brake shall include an indicator light and warning buzzer.

COMPLY _____ NO _____

Parking brake must be spring applied, hydraulic release (SAHR) style acting on all four (4) wheels. Systems that incorporate cables and mechanical levers are unacceptable.

COMPLY _____ NO _____

Section 12 – Wheels and Tires

Tires shall be LT245/75R16 winter radials mounted on heavy duty six (6) stud wheels.

COMPLY _____ NO _____

Section 13 – Hydraulic Systems

Hydraulic gear pump and hydrostatic drive pump shall be centrally located at the rear of the engine, mounted on a heavy duty pump drive, and isolated from the engine through a torsional vibration coupling.

COMPLY _____ NO _____

Hydraulic gear pump shall have a minimum theoretical rating of 24 GPM (90.8 LPM). Six (6) couplers shall be supplied and mounted on the front of the vehicle for operating control features on various attachments.

COMPLY _____ NO _____

Hydraulic controls must be accessible through a hinged access door on the right side of the cab.

COMPLY _____ NO _____

The STANDARD high flow hydraulic circuit must be proportional and deliver between 5-18 GPM (18.9–68.1 LPM) @ 2,750 PSI (189.5 Bar) (actual) to the quick couplers at both the front and rear of the vehicle for powering hydraulically driven front and/or rear mounted attachments.

COMPLY _____ NO _____

Attachment positioning functions are to be controlled by a mechanical 4-spool valve (or equivalent). All four (4) valves must incorporate float settings. In the interest of improved productivity, attachment positioning control valve must allow simultaneous operation of all four (4) functions. No exceptions.

COMPLY _____ NO _____

The mechanical 4-spool valve (or equivalent) must allow finite proportional control of attachment positioning functions by way of a dash mounted dial. Circuit must be adjustable between 2–12 GPM (7.6–45.4 LPM). Systems that do not allow proportional control by the operator or that require connection of an external programming device to accomplish this function are unacceptable.

COMPLY _____ NO _____

The vehicle must utilize a "ride control" system incorporated into the front lift cylinder circuit to reduce front mounted attachment "bounce" when carrying the attachment in a raised position.

COMPLY _____ NO _____

Low flow (attachment positioning) hydraulic couplers located on the front of the vehicle shall be colour coded to match the corresponding control lever in the vehicle's cab.

COMPLY _____ NO _____

The standard hydraulic high flow circuit shall be directional and proportional by way of a dash mounted dial to allow for finite control of front or rear mounted hydraulically driven attachments. Systems that are not reversible or adjustable by the operator are unacceptable.

COMPLY _____ NO _____

The standard high flow circuit shall utilize electric over hydraulic actuation controlled by an illuminated rocker switch.

COMPLY _____ NO _____

High flow hydraulic circuits must be tied to an interlock system that disengages the circuit should the operator leave the seat without shutting the high flow circuit(s) off. No exceptions.

COMPLY _____ NO _____

High flow hydraulic functions must automatically disengage when high range travel speed is selected. No exceptions.

COMPLY _____ NO _____

In order to prevent damage to the hydraulic system, the vehicle must include an interlock circuit that automatically shuts off the high flow circuit(s) should a hydraulic overheat or low hydraulic oil level situation occur.

COMPLY _____ NO _____

The vehicle must include a high hydraulic oil temperature and low hydraulic oil level warning system. The warning system must include an audible buzzer and warning message on the multifunctional 5" display.

COMPLY _____ NO _____

The vehicle shall have an auto run feature which automatically shuts off the salt and sand spreader when the vehicle comes to a stop.

COMPLY _____ NO _____

Section 14 – Electrical Systems

Shall be 12 volt DC negative ground with a minimum 1100 CCA battery, 120 amp alternator, protected by a main breaker switch, with all breakers, fuses and wiring sized appropriately. The system must include a lockable master electrical disconnect switch.

COMPLY _____ NO _____

A multifunctional 5" display shall be supplied to
Log engine codes and track the following engine functions:

COMPLY _____ NO _____

- Engine hours

COMPLY _____ NO _____

- Engine RPM (tachometer)

COMPLY _____ NO _____

- Coolant temperature

COMPLY _____ NO _____

- Voltage

COMPLY _____ NO _____

- Engine oil pressure

COMPLY _____ NO _____

- Hydraulic oil temperature

COMPLY _____ NO _____

- Fuel level

COMPLY _____ NO _____

In the interest of improved visibility and safety, the multifunctional 5" display shall be mounted in the cab roof area where it is protected from windshield glare. Multifunctional displays located in areas where the display's visibility is obstructed by the steering wheel and/or prone to glare are unacceptable.

COMPLY _____ NO _____ SPECIFY LOCATION: _____

The vehicle shall be equipped with a backup camera that automatically displays on the multifunctional 5" display when the vehicle is in reverse or when manually activated by a button on the multifunctional display. Cameras that do not allow manual activation for periodic rear-view checks are unacceptable.

COMPLY _____ NO _____

Section 15 – Lighting

Vehicle shall have two (2) 55 watt front halogen headlights with 60 watt high beam feature.

COMPLY _____ NO _____

Vehicle shall have one (1) 70 watt rear halogen light.

COMPLY _____ NO _____

Vehicle shall have two (2) 70 watt front halogen work lights.

COMPLY _____ NO _____

The vehicle shall have a complete set of taillights and signal lights that include 4-way flashers mounted on the rear of the cab. A set of LED brake lights and signals shall be located on the rear engine cover. A strobe light mounted on a spring loaded pedestal and an interior light are also required.

COMPLY _____ NO _____

The vehicle shall have eight (8) flashing LED strobe lights with adjustable strobe patterns, flush mounted on a steel cab roof and headlight guard. Flashing LED strobe lights must provide 360 degree visibility and include adjustable strobe patterns in both blue and amber.

COMPLY _____ NO _____

(OPTIONAL) All exterior lights, with the exception of the headlights, work lights and rear work lights, must be LED.

COMPLY _____ NO _____

Section 16 – Cab

The cab shall be "ROPS Certified" to ISO 3471 specifications and have a certification label so stating. The cab shall be ROPS certified to a minimum of 12,000lbs (5443kg).

COMPLY _____ NO _____

In order to reduce operator fatigue, the cab shall be a separate structure, mounted to the vehicle frame utilizing six (6) rubber isolation mounts. No exceptions.

COMPLY _____ NO _____

Interior cab sound level shall not exceed 79dBA.

COMPLY _____ NO _____

Cab roof shall be formed from thermoplastic polyolefin (TPO) composite material. Metal or other materials requiring paint and that are prone to corrosion are unacceptable.

COMPLY _____ NO _____

Seat shall be fabric covered, air ride with adjustable backrest, armrest, headrest, and lumbar support.

COMPLY _____ NO _____

The cab shall have approximately 38.05 sq. ft. (3.53 sq. m) of glass area. Glass shall also be tempered safety glass that is DOT or CSA approved.

COMPLY _____ NO _____

In order to maximize rearward visibility, the cab rear window sections must be triangulated and extend down to within 22.8" (579mm) of the cab floor.

COMPLY _____ NO _____

In the interest of operator safety, the operator restraint system must include a 3-point, heavy duty retractable seatbelt and be tested and certified to SAE J2292 standards. A copy of the test report and certification must be included with the submission or provided upon request. No exceptions.

COMPLY _____ NO _____

The A/C system must have a minimum output of 24,000BTU. Roof mount units are unacceptable due to the increase in height and potential for damage. No exceptions. The A/C condenser unit shall be mounted on the rear of the cab in the area behind the operator seat.

COMPLY _____ NO _____

Vehicle shall have a cab roof and headlight guard, manufactured from steel tubing, securely mounted to the cab.

COMPLY _____ NO _____

The cab shall have:

- Horn

COMPLY _____ NO _____

- 3-speed heater / defroster

COMPLY _____ NO _____

- Front wiper / washer with intermittent feature

COMPLY _____ NO _____

- Two (2) exterior foldable rear-view mirrors and one (1) convex style interior rear view mirror

COMPLY _____ NO _____

- AM / FM / MP3 / Bluetooth radio with two (2) speakers

COMPLY _____ NO _____

- Adjustable tilt and telescopic steering column complete with self-cancelling turn signals

COMPLY _____ NO _____

- 2-speed directional defrost fan

COMPLY _____ NO _____

- Temperature regulator control

COMPLY _____ NO _____

- High and low range transmission selector shift switch

COMPLY _____ NO _____

- Six (6) fully adjustable and directional vents (4 in the headliner and 2 at the operator's feet) for heat, defrost and A/C functions

COMPLY _____ NO _____

Section 17 – Fuel Tank

The fuel tank capacity shall be a minimum of 100 litres (26.4 US gallons)

COMPLY _____ NO _____

Section 18 – Warranty

Manufacturer's warranty shall be the first 12 months or 600 hours.

COMPLY _____ NO _____

Specifications for a 5/8 Yard

1. Sander shall have a min capacity of 5/8 yard
YES _____ NO _____ SPECIFY _____
2. Sander shall be pin mounted to rear of tractor (pins supplied)
YES _____ NO _____ SPECIFY _____
3. Sander shall be equipped with 3 adjustable support stands for storage
YES _____ NO _____ SPECIFY _____
4. Hydraulic fittings and couplers shall be supplied with dust protection
YES _____ NO _____ SPECIFY _____
5. Sander shall have a slow-moving vehicle sign mounted on the rear of the sander
YES _____ NO _____ SPECIFY _____
6. Sander shall have a manual material adjuster
YES _____ NO _____ SPECIFY _____
7. Sander shall have a spread width of 39.5"
YES _____ NO _____ SPECIFY _____
8. Sander shall have grease fittings on all bearings
YES _____ NO _____ SPECIFY _____
9. Sander shall have single agitator bar with solid square fingers
YES _____ NO _____ SPECIFY _____
10. Sander shall have 2 welded on lift points for centralized lifting
YES _____ NO _____ SPECIFY _____

11. Sander shall include a removable material screen
YES _____ NO _____ SPECIFY _____
12. Sander side plates shall be manufactured from 1/8" thick material
YES _____ NO _____ SPECIFY _____
13. Sander shall utilize a hydraulic drive motor, gears and a #40 drive chain
YES _____ NO _____ SPECIFY _____
14. Sander shall include the following; lights, reverse, signal and tail lights mounted on the rear of the sander.
YES _____ NO _____ SPECIFY _____
15. All Sander metal parts shall be media blasted for paint prep
YES _____ NO _____ SPECIFY _____
16. Sander shall be primed with a Zinc rich primer
YES _____ NO _____ SPECIFY _____
17. Sander shall be painted with 2 finish coats of PPG paint
YES _____ NO _____ SPECIFY _____
18. (Optional) Sander shall have a hinged lid complete with a support prop
YES _____ NO _____ SPECIFY _____

Specifications for a 60" Trip Edge Angle Plow

1. Plow width shall be is 60"
Yes _____ No _____ Specify _____
2. Plow skin shall utilize one-piece 1/8" thick material
Yes _____ No _____ Specify _____
3. Plow shall angle 40° left and right Minimum
Yes _____ No _____ Specify _____
4. Plow mouldboard shall be 29" high
Yes _____ No _____ Specify _____
5. Plow shall have 15" of ground clearance when in the fully raised position
Yes _____ No _____ Specify _____
6. Plow push frame design shall allow the cutting edge to drop 11 3/4" below grade (over hill or off curb conditions)
Yes _____ No _____ Specify _____
7. Plow angle function shall be controlled by 2 x 2" bore x 8" stroke double acting hydraulic cylinders
Yes _____ No _____ Specify _____
8. Angle cylinders shall be protected from damage by means of a cross over relief valve
Yes _____ No _____ Specify _____
9. Cylinder pivot points shall be grease able
Yes _____ No _____ Specify _____

10. Plow shall include welded on lifting point for balanced lifting

Yes _____ No _____ Specify _____

11. Plow shall include an adjustable support stand for storage

Yes _____ No _____ Specify _____

12. Cuttings edge shall be reversible 1/2" x 6" x 60" long and made of hardened material

Yes _____ No _____ Specify _____

13. Hydraulic fittings couplers shall be supplied with dust protection

Yes _____ No _____ Specify _____

14. Hoses shall be colour coded for easy hook up

Yes _____ No _____ Specify _____

15. All metal parts shall be media blasted for paint prep

Yes _____ No _____ Specify _____

16. Plow shall be primed with a Zinc rich primer

Yes _____ No _____ Specify _____

17. Plow shall be painted with 2 finish coats of PPG paint

Yes _____ No _____ Specify _____

Specifications for a 50" inch Wide 2-stage Snow Blower

1. Snow blower shall be 50" wide x 41" high (less blower head)

Yes_____ No_____ Specify_____

2. Snow blower shall have an 84" overall height (with chute deflector)

Yes_____ No_____ Specify_____

3. Upper spiral auger to be 13" dia with 1 1/2" x 3/8" thick flighting.

Yes_____ No_____ Specify_____

4. Lower spiral auger to be 15" dia with 2" x 3/8" thick flighting.

Yes_____ No_____ Specify_____

5. Both augers shall be equipped with ice picks

Yes_____ No_____ Specify_____

6. Snow blower auger drive chain shall be size #60H (Heavy) with manual/lockable chain tensioner.

Yes_____ No_____ Specify_____

7. Snow blower auger drive chain shall be protected by a Grade 5, 5/16UNC bolt.

Yes_____ No_____ Specify_____

8. Auger jack shaft drive shear bolt to be accessible through a removable side plate for easy repair

Yes_____ No_____ Specify_____

9. Snow blower auger bearings shall be self-aligning and grease able

Yes_____ No_____ Specify_____

10. Snow blower shall have 2 drift cutters that extend to a height of 50"

Yes _____ No _____ Specify _____

11. Snow blower discharge chute shall rotate 220 degrees minimum

Yes _____ No _____ Specify _____

12. Snow blower side plates shall be manufactured from 3/16" 1-piece thick plate steel

Yes _____ No _____ Specify _____

13. Snow blower shall have 3/8" thick stiffening plates welded to the side plates of the blower

Yes _____ No _____ Specify _____

14. Snow blower rear panel shall be manufactured from 1/8" thick material

Yes _____ No _____ Specify _____

15. Snow blower discharge chute shall be quick release design

Yes _____ No _____ Specify _____

16. Chute rotation shall be by way of a hydraulic motor driving a #60 roller chain

Yes _____ No _____ Specify _____

17. Chute rotation motor shall be protected from damage by means of a cross over relief valve

Yes _____ No _____ Specify _____

18. Chute deflector shall operate by means of a 1 1/2" bore x 4" stroke double acting cylinder

Yes _____ No _____ Specify _____

19. Cutting edge shall be reversible, sized to 1/2" x 4" x 46" and made from hardened material

Yes _____ No _____ Specify _____

20. Hose, fittings, quick couplers and dust caps shall be supplied

Yes _____ No _____ Specify _____

21. Hoses shall be colour coded for easy hook up

Yes _____ No _____ Specify _____

22. Total blower weight (less chute extension) shall be 1000 lbs

Yes _____ No _____ Specify _____

23. Snow blower throat dimensions shall be 39 1/2" x 50"

Yes _____ No _____ Specify _____

24. Blower gearbox shall utilize a: 1 3/8" steel input shaft. All shafts shall be supported by tapered roller bearings. The bevel gears shall be spline mounted onto the shaft

Yes _____ No _____ Specify _____

25. Blower push frame shall include PTO support stand for storage

Yes _____ No _____ Specify _____

26. Snow blower skid shoes shall be made of hardened material and be replaceable

Yes _____ No _____ Specify _____

27. Skid shoes shall be bolt on style that extend out in front of the blowers cutting edge

Yes _____ No _____ Specify _____

28. Snow blower fan shall be 24" dia, 3 blade design

Yes _____ No _____ Specify _____

29. Snow blower PTO shear bolts shall be cl 8.8 M10x55

Yes _____ No _____ Specify _____

30. Snow blower push frame shall include a support stand for storage

Yes _____ No _____ Specify _____

31. Snow blower shall come with centralized lift lug

Yes _____ No _____ Specify _____

32. All Snow blower metal parts shall be media blasted for paint prep

Yes _____ No _____ Specify _____

33. Snow blower shall be primed with a Zinc rich primer

Yes _____ No _____ Specify _____

34. Snow blower shall be painted with 2 finish coats of PPG paint

Yes _____ No _____ Specify _____

5.0 WARRANTY (basic warranty)

All Bidders must attach warranty details with the Tender submission

A PREBUILD MEETING WITH MUNICIPAL STAFF IS MANDATORY BEFORE SUCCESSFUL BIDDER COMMENCES SOURCING OR BUILDING SIDEWALK TRACTOR AND ATTACHMENTS.

SUCCESSFUL BIDDER MUST PROVIDE OPERATOR AND MAINTENANCE PERSONNEL WITH TRAINING SIDEWALK TRACTOR AND ATTACHMENTS - COST TO BE INCLUDED IN FINAL PRICE OF SIDEWALK TRACTOR AND ATTACHMENTS.

PROVISIONAL ITEMS:

ITEM NUMBER ONE:

(ONE) Snow blower chute extension for Sidewalk Tractor loading.

Make: _____
Model: _____
Subtotal: \$ _____
H.S.T.: \$ _____
Total: \$ _____

ITEM NUMBER TWO:

TRACTOR EXTENDED WARRANTY:

Items Covered:

Years of Coverage: _____

Hours of Coverage: _____

Subtotal: \$ _____
H.S.T.: \$ _____
Total: \$ _____

PART V – EXPERIENCE and SUB-CONTRACTORS

1. Experience Summary

Provide a list of vehicles similar size and type that have been completed by your company during the past five (5) years.

2. Sub-Contractors

Provide a list of sub-contractors for the approval of The Municipality that you propose to use on this contract.

3. Completion of the Projects

Delivery of completed Sidewalk Tractor with Snow Plow, Snow Blower and Sander to be no later than July 30, 2019.

We, (Bidder's Name) _____ agree to commence work within _____ calendar days from the date of entering into an agreement with the Municipality of Brighton.

APPENDIX 'A' – DEFINITIONS

Contract/Contract Documents – collection of documents representing a commitment from both the successful Bidder and the Owner to complete Work as described in the documents

Contractor – successful Bidder

Engineer – Municipal Director of Public Works and Development, or designate

The Municipality – the Corporation of the Municipality of Brighton

Sub-contractor – person or corporation having a contract with the Contractor or another sub-contractor, for execution of a part or parts of the Work included in the Contract

Work – the supply of all material, equipment and labour as described in the Contract Document(s), including provisional items, where appropriate