

THE CORPORATION OF THE MUNICIPALITY OF MAGNETAWAN

BY-LAW NO. 2018 - 36

Being a By-law to award RFP 2018-06 – Municipal Tandem Snow Plough.

WHEREAS Section 10 of the *Municipal Elections Act, 1996, S.O. 1996, c.32*, as amended, authorizes municipalities to provide any service or thing that the municipality considers necessary or desirable for the public;

AND WHEREAS the Municipality of Magnetawan issued a Request For Proposals (RFP) for the procurement of a Tandem Snow Plough and received proposals from Freightliner North Bay, Cambrian Truck Centre, Currie Freightliner, and Northland Truck Centre;

AND WHEREAS the Municipality of Magnetawan evaluated the proposals, with the proposal from Northland Truck Centre scoring highest, with a total price of \$227,775.00 plus HST.

NOW THEREFORE the Council of the Corporation of the Municipality of Magnetawan enacts as follows:

1. **THAT** RFP 2018-06 be awarded to Northland Truck Centre for the purchase of a new 2018 Western Star 4700SB in the amount of \$227,775.00 plus HST.
2. **THAT** this By-law and the attached RFP and proposal from Northland Truck Centre shall form an agreement to purchase between Magnetawan and Northland Truck Centre.
3. **THAT** this By-law shall come into force and effect on the date of its passing.

READ A FIRST, SECOND, AND THIRD TIME, passed, signed and the Seal of the Corporation affixed hereto, this 23rd day of May, 2018

**THE CORPORATION OF THE
MUNICIPALITY OF MAGNETAWAN**



Mayor



Clerk-Administrator



**Municipality of
Magnetawan**

P.O. Box 70, 4304 Hwy 520
Magnetawan, ON
POA 1P0

Lead Contact: Bruce Hill
Superintendent of Public Works
Email: roads@magnetawan.com

**Complete Municipal Tandem Snow-Plough Cab and Chassis
including U-shaped spreader/dump body, etc.**

Request for Proposal

Title: RFP 2018-06 Municipal Tandem Snow-Plough

Date of Issue: Monday, April 16th, 2018

Proposal Submission Deadline: Wednesday, May 11th, 2018 at 3:30 PM EDT

Section 1 Introduction and General Instructions

1.01 Introduction

The Municipality of Magnetawan is inviting proposals for the supply of one (1) Municipal Tandem Snow Plough unit including Cab and chassis, U-shaped spreader/dump body, Plough and wing that complies with the basic minimum specifications indicated elsewhere in this document. The successful proponent shall supply a 'turn-key' operational plough, spreader dump truck within 180 calendar days of awarding.

This Request for Proposals document (and any other applicable attachments or addenda) is available in PDF format through the Municipality of Magnetawan's website at <http://www.magnetawan.com/index.php/municipal-office/requests-for-proposals>

Magnetawan's Procurement Policy is available for review at the Municipal Office

1.02 Submission of Proposals

Proposals shall be submitted in the form and format specified in this section and Section 3 and shall include the completed Form of Proposal included as Section 4 at the end of this document as well as documentation substantiating specifications and warranties. A designated signing officer authorized to bind the Bidder/Proponent to the provisions of their Proposal must sign the Form of Proposal. Any addenda issued by the Municipality of Magnetawan in accordance with Subsection 1.06 must be acknowledged by the Bidder/Proponent on the Form of Proposal.

Each Bidder is asked to submit **one (1) set** of the Proposal. All Proposals must be signed, sealed, the envelope marked with the Bidder's name and the Project Name, and received by:

*The Municipality of Magnetawan
PO Box 70, 4304 Hwy 520
Magnetawan, ON
P0A 1P0*

Project Name: RFP 2018-06 Municipal Tandem Snow-Plough

Proposals must be received no later than 3:30 p.m., local time, on Wednesday, May 11th, 2018

Proposals must not be restricted by a statement added to the Form of Proposal or by a covering letter, or by alterations to the Form of Proposal supplied unless otherwise provided in the RFP.

The onus unequivocally remains with the Bidder/Proponent to ensure that the Municipality of Magnetawan receives Proposals delivered or sent by courier prior to the Proposal Submission Deadline, in accordance with the submission process described in this section. Proposals received after the Proposal Submission Deadline will not be considered and will be returned unopened. Faxed or electronic submissions will not be accepted in response to this RFP.

1.03 Contacts

All questions or inquiries must be made in writing or email to the Lead Contact named below, by no later than **3:30 p.m. on Monday, April 30th, 2018:**

*Bruce Hill
Superintendent of Public Works
PO Box 70, 4304 Hwy 520
Magnetawan, ON
P0A 1P0*

roads@magnetawan.com

IMPORTANT: A Bidder may be disqualified if they make inquiries, between the Proposal issue date and the notification of the Award, in a manner other than that described in this RFP or to anyone involved in the process who is not the Lead Contact, including but not limited to the members of Council. This is to ensure that each Bidder receives the same information and that no Bidder receives unfair treatment during the RFP process.

1.04 Schedule

The schedule set out herein represents the Municipality of Magnetawan's best estimate of the schedule that will be followed, and it is intended to be a guideline.

The approximate schedule is as follows:

RFP issue date	Monday, April 16th, 2018
Deadline for submission of questions (see Section 1.05)	Monday, April 30th, 2018 at 3:30pm
Addenda posted on Municipality website (see Section 1.06)	Monday, May 7th, 2018 by 3:30pm
Proposal Submission Deadline (see Section 1.02)	Friday, May 11th, 2018 at 3:30pm
Notification of Award (Earliest) by the Municipality of Magnetawan	Thursday May 24th, 2018 (provided Council approval on May 23 rd , 2018)

1.05 Required Review and Clarification

Bidders shall carefully review this RFP. If questions concerning clarification of the contents of this document arise, the questions must be made in writing and received by the Lead Contact by **3:30 p.m. on Monday, April 30th, 2018**. This will allow time for the issuance of any necessary addenda. Protests based on any omission or error or on the content of the RFP will be disallowed if these perceived faults have not been brought to the attention of the Lead Contact.

In submitting a Proposal, the Bidder/Proponent acknowledges that they have read, completely understood, and accepted the terms and conditions of the RFP in full. The Municipality of Magnetawan is not responsible for any misunderstanding of the RFP.

1.06 Amendments to the RFP

The Municipality of Magnetawan may issue addenda to clarify and/or modify certain aspects of the RFP prior to the Proposal Submission Deadline. Addenda shall be posted by **Monday, May 7th, 2018** to <http://www.magnetawan.com/index.php/municipal-office/requests-for-proposals> and shall be available in the Municipal Office.

1.07 Opening of Proposals

There will be no formal opening of proposals. Typically, a Request for Proposals is evaluated on a more comprehensive set of criteria than a Tender. As such, the contract will not be awarded at the opening, but only after the Evaluation Committee has examined all Proposals in detail and presented their recommendation to Council. Bidders/Proponents will be notified of the date for the Council meeting at which the Award will be decided, and they are welcome to attend or will be notified by the Lead Contact.

1.08 Reserved Rights of the Municipality of Magnetawan

The Municipality of Magnetawan reserves the right to:

- a. make public the names of any or all Bidders and their quoted price;
- b. request written clarification or the submission of supplementary written information in relation to the clarification request from any Bidder and incorporate a Bidder's response to that request for clarification into the Bidder's Proposal;
- c. adjust a Bidder's scoring or reject a Bidder's Proposal on the basis of
 - i) a financial analysis;
 - ii) information provided by references;
 - iii) the Bidder's past performance on previous contracts awarded by the Municipality of Magnetawan;
 - iv) the information provided by a Bidder pursuant to the Municipality of Magnetawan exercising its clarification rights under this RFP process; or
 - v) other relevant information that arises during the RFP process;
- d. verify with any Bidder or with a third party any information set out in a Proposal;
- e. check references other than those provided by any Bidder;
- f. disqualify any Bidder whose Proposal contains misrepresentations or any other inaccurate or misleading information, or any qualifications;
- g. disqualify any Bidder or the Proposal of any Bidder who has engaged in conduct prohibited by this RFP;
- h. make changes, including substantial changes, to this RFP provided that those changes are issued by way of addenda in the manner set out in this RFP;
- i. select the Bidder other than the Bidder whose Proposal reflects the lowest cost to the Municipality of Magnetawan or the highest overall score;
- j. cancel this RFP process at any stage;
- k. cancel this RFP process at any stage and issue a new RFP for the same or similar deliverables;
- l. accept or reject any or all Proposals in whole or in part;
- m. discuss with any Bidder different or additional terms to those contemplated in this RFP or in any Bidder's Proposal;
- n. if a single Proposal is received, reject the Proposal of the sole Bidder and cancel this RFP process or enter into direct negotiations with the sole Bidder.

These reserved rights are in addition to any other expressed rights or any other rights which may be implied in the circumstances.

1.09 Not Responsible for Costs

The Municipality of Magnetawan shall not pay any costs associated with the preparation, submission, or presentation of the Bidder's Proposal. The Municipality of Magnetawan shall not be liable for any expenses, costs or losses suffered by the Bidder or any third party resulting from the Municipality of Magnetawan exercising any of its expressed or implied rights under this RFP.

1.10 Proposal Expiry Date

Bidders hereby acknowledge that their Proposals shall be irrevocable for a period of 60 days from the Proposal submission deadline. Extensions to this period may be granted with the mutual agreement of the Municipality of Magnetawan and the successful Bidder and may be initiated by either party.

1.11 Confidentiality and Ownership

Any information provided to the Bidder by the Municipality of Magnetawan before, during or after the project is completed shall be treated as confidential and shall not be used or communicated by the Bidder or any third party in any way unless otherwise identified or permitted by the Municipality of Magnetawan. The information, reports, documentation, plans, etc. that are produced by the successful Bidder in response to this project shall become the exclusive property of the Municipality of

Magnetawan. However, intellectual property, such as specific tools, templates, processes, etc. that the Bidder provides as part of the deliverables remains the property of the Bidder.

1.12 Invoicing

The Bidder shall provide a single invoice for payment in full to the Municipality of Magnetawan upon delivery of the selected unit. Invoices shall clearly state what has been supplied with a description of the unit. It should be noted that the Municipality of Magnetawan's standard terms of payment are net 30 calendar days from the date of invoice.

1.13 Freedom of Information

Any personal information required in the Proposal is received under the authority of the Municipality of Magnetawan. This information shall be an integral component of the submission. All written Proposals received by the Municipality of Magnetawan become a public record. Once a Proposal is accepted by the Municipality of Magnetawan and the contract has been awarded, all information contained in the Proposals may be available to the public, including personal information. Questions about the collection of personal information and the Municipal Freedom of Information and Protection of Privacy Act, 1989, R.S.O. 1990, as amended may be directed to the Lead Contact.

1.14 Additional Requirements

- (a) The successful Bidder shall ensure that all services and products provided in respect to this proposal are done so in accordance with and under the authorization of all applicable authorities, municipal, provincial, and/or federal legislation.

Section 2 Submission Requirements

2.01 Minimum General Specifications & Requirements

The successful Proponent / Bidder shall supply one (1) Municipal tandem cab & chassis, U-shaped spreader/dump body, one-way snow plow and side-wing, all mechanical, hydraulic and electrical systems required to operate the plough, wing and spreader. The unit as a whole must be designed for Canadian rural winter service on mostly gravel roads. The following general specifications are meant to be a guideline for the proposal.

- Engine: Detroit or Cummins diesels are preferred options, but others are considered.
- Engine: shall develop not less than **475H.P., 1,650lb/ft** torque
- The plough-truck unit shall be capable of not less than 65MPH (105km/h) road speed.
- General minimum design loads are: Front axle, 22,000lbs., rear drive axles, 46,000lbs., expected approx. GVW capacity, 68,000lbs. Approx. Gross comb. Wt. 80,000lbs.
- Transmission: 13 forward speed, manual shift. (Eaton-Fuller preferred)
- The U-shaped spreader/dump body shall have a capacity of not less than 12 cubic yards.
- U-shaped body, plough and wing: Everest and Viking-Cives are preferred options but all are considered (see preferred Model no.).
- The U-shaped dump body tail gate shall have a chute & gate for asphalt dispensation.
- Pre-wetting tanks or any liquid tanks are not required.
- Control for aggregate spreader: Dickey-John Control Point, conveyer feedback via 100 pulse motor sensor is the preference.
- All lights shall be LED.
- Aluminum rims.
- Swivel pintle hook.
- Glad hands.
- 340L fuel tank.

- Heated mirrors & wipers.
- Power windows with auto-down.
- Two fender mirrors
- Manual clutch fan switch.
- A/C, AM/FM radio with 4 speakers, cup holder etc.
- Curved dash
- Aluminum tool box mounted to frame.

The general snow-plough equipment specifications are as follows;

- The one-way plough must clear a path of 9 feet (2.7m), while set at an horizontal angle of 35 to 37 degrees.
- The one-way plough shall discharge snow to the passenger side of the unit.
- The one-way plough tilt-harness must be compliant with MTO Standard ES-401.
- Preferred plough Models are Everest-Alliston OWSK9-CT or Viking-Cives(USA) 2654HSE-9, but others are will be considered, bidder to provide specifications.
- Height of the moldboard at the inlet end shall be 26" (660mm) and the height at the discharge end shall be 54" (1370mm).
- Four rear flashers, 2 amber & 2 blue
- LED spot lights
- Rubber cross-belt with reversible option.
- Hydraulic tilting harness.

The proponent vendor is expected to provide a full set of specifications, for each component system (including hydraulics), in their proposal. Although price is of significance, the proponent vendors are encouraged to put forward a good quality package. The Municipality is looking for durability as well as value. The fore-going are minimum guidelines only, however, any significant dimensional change should be high-lighted for consideration. Bidder to consult attached Specifications sheets.

The proponent vendor shall have a licensed service facility within a reasonable distance from Magnetawan for the provision of major maintenance service and/or repair.

The delivery of the proposed unit to the Municipality of Magnetawan shall not be later than **one hundred and eighty (180) calendar days after award by Council.**

2.02 Penalty Clause

The Municipality of Magnetawan expects the successful proponent to deliver a fully functional, 'turn-key' plough truck unit within the one-hundred and eighty (180) calendar days from the date of award. Failure to comply with this requirement will result in a penalty being imposed by the Municipality in the amount of two-hundred dollars (\$200.00) per day commencing on the one-hundred and eighty-first (181st) day, ie. the first late day of delayed delivery.

Section 3 Evaluation of the Proposals

3.01 Evaluation Criteria, Process and Award

As part of the evaluation process, the Municipality of Magnetawan may contact one or more Bidders to clarify or obtain more information about their Proposal or to request the Bidder to exhibit or otherwise demonstrate the information contained therein. The purpose of these discussions will be to ensure full understanding of the requirements of the RFP and Proposal. Discussions will be limited to specific sections of the RFP identified by the evaluation committee. The Lead Contact will only hold discussions with Bidders who have submitted a proposal deemed to be reasonably acceptable for Award.

The Municipality of Magnetawan may make an Award on the basis of the Proposals received without further discussion with the Bidders. Therefore, each initial offer should contain the Bidder's best terms/information, including all required documentation as listed in this RFP.

The evaluation committee will recommend Award to Council for the Bidder achieving the highest combined score based on the rated criteria in 3.02 below.

3.02 Maximum Evaluation Points Summary

Specifications & Quality	40 points
<ul style="list-style-type: none">Demonstration and documentation proving that the proposed vehicle meets or exceeds the minimum specifications, (data spec sheets, photographs). Evidence of a durable high quality package.	
Price & Delivery	30 points
<ul style="list-style-type: none">Demonstration and documentation that the proposed unit is priced within reason when quality is considered and that the unit can be delivered within the six month time window.	
Vendor's Background, Experience, and References	10 points
<ul style="list-style-type: none">The Bidder's experience in heavy truck sales and service, and business references.	
Breakdown of Costs	10 points
<ul style="list-style-type: none">Breakdown of costs, line items are complete and reasonable	
Distance to Service Facility	10 points
<ul style="list-style-type: none">Distance in kilometres to proponents licensed service facility.	
Maximum Points Available	100 points

The successful Bidder shall be notified of the Award in writing to the address given on the Form of Proposal, and/or may be contacted verbally or electronically by the Lead Contact.

Section 4 Form of Proposal

I/We, the Undersigned, having examined this Request For Proposals, do hereby offer to enter into an Agreement with the Municipality of Magnetawan to provide a Municipal Snow Plough unit, under the terms as included.

I, We BLAKE CLARKE SALES MANAGER
(Name-Print) (Position)

of NORTHLAND TRUCK CENTRE
(Company Name)

Dated at BRUCEBRIDGE ON. this 11TH day of MAY, 2018.

Blake Clarke
AUTHORIZED SIGNATURE(S)

370 ECCLESTONE DRIVE
STREET ADDRESS

BRUCE BRIDGE ONTARIO R1L 1V1
CITY PROVINCE POSTAL CODE

705-645-2201 705-645-4661 SALES@northlandtruck.com
TELEPHONE NO. FACSIMILE NO. E-MAIL ADDRESS

Receipt of any issued addenda shall be acknowledged by initialing in the space provided below.

Addendum No. 1 _____ Addendum No. 2 _____ Addendum No. 3 _____

NOTE - SEARCHED YOUR WEBSITE ON MAY 10/2018
FOUND NO ADDENDUM RELATING TO THIS RFP 2018-06
Blake Clarke

Signature in the designated space, by an authorized officer of the Bidder's company affirms acceptance of the Request for Proposal requirements set forth in this document, the associated costs attributed to the business arrangement between the Bidder and the Municipality of Magnetawan, and hereby certifies that the information supplied in this proposal to be true and complete in all respects.

Company Seal

The following required information may be forwarded on the Vendor's forms and should include all manufacturers specifications and submitted with the overall sealed package. However, the information requested below, specifically, should be clearly presented, easily understood, and easy to find.

Make: WESTERN STAR

Model: 4700 SB

Engine: DD13 470HP 1650 lb/ft TORQUE

Warranty: SEE ENCLOSED DOCUMENT

Distance from Municipality of Magnetawan to Service facility: 100 km

Location of Service facility: BRACEBRIDGE ONTARIO

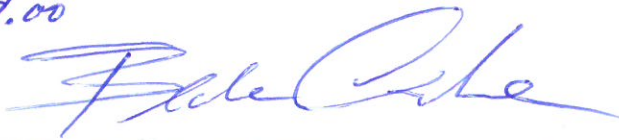
Price: \$ 227,775.00 (HST not included)

Other relevant information/specifications:

NOTE - WORTHIND TRUCK CENTRE WILL NOT AGREE TO THE \$200,000 PER DAY PENALTY CLAUSE IN THIS RFP-2018-06 DUE TO THE BACKLOG OF FACTORY TRUCK ORDERS. I HAVE A BUILD SLOT OF SEPT. 27 FOR TENTATIVE BUILD OF THIS CHASSIS. PROJECTED DELIVERY OF COMPLETED UNIT TO MUNICIPALITY OF MAGNETAWAN APPROXIMATELY DECEMBER 15/2018 AND POSSIBLY BEFORE.

NOTE - THIS PROPOSAL IS A SET-BACK FRONT AXLE CHASSIS LIKE THE ONE YOU GOT LAST YEAR. QUOTE HAS A DD13 470HP 1650 TORQUE ENGINE. NOT 475HP.

NOTE - I HAVE INCLUDED ALUMINUM RIMS PER YOUR REQUEST. I DO NOT ADVISE THEM ON A PLOW TRUCK. USING THE SAME STEEL WHEELS AS LAST YEAR WILL REDUCE THE PRICE BY \$1,784.00



Prepared for:
BRUCE HILL
MUNICIPALITY of
MAGNETAWAN
P O BOX 70
4304 HWY 520
MAGNETAWAN, ON P0A 1P0
Phone: 1-705-349-3034

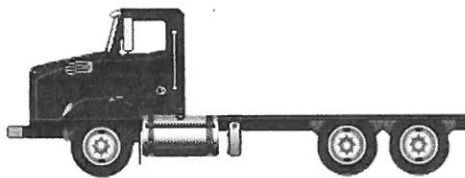
Prepared by:
Blake Clarke
NORTHLAND TRUCK CENTRE
370 ECCLESTONE DR.
BRACEBRIDGE, ON P1L1V1
Phone: 705-645-2201

A proposal for
MUNICIPALITY of MAGNETAWAN

Prepared by
NORTHLAND TRUCK CENTRE
Blake Clarke

May 11, 2018

Western Star 4700SB

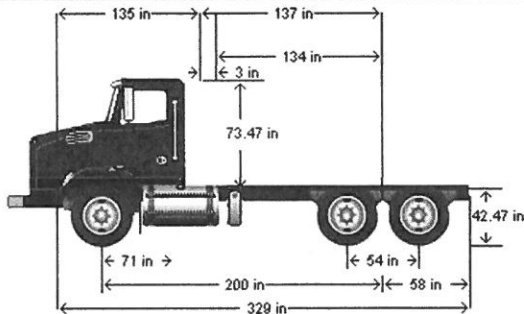


Components shown may not reflect all spec'd options and are not to scale

Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

D I M E N S I O N S



VEHICLE SPECIFICATIONS SUMMARY - DIMENSIONS

Model	4700SB
Wheelbase (545)	5075MM (200 INCH) WHEELBASE
Rear Frame Overhang (552)	1475MM (58 INCH) REAR FRAME OVERHANG
Fifth Wheel (578)	NO FIFTH WHEEL
Mounting Location (577)	NO FIFTH WHEEL LOCATION
Maximum Forward Position (in)	0
Maximum Rearward Position (in)	0
Amount of Slide Travel (in)	0
Slide Increment (in)	0
Desired Slide Position (in)	0.0
Cab Size (829)	110 INCH BBC STEEL CONVENTIONAL CAB
Sleeper (682)	NO SLEEPER BOX/SLEEPER CAB
Exhaust System (016)	RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE

TABLE SUMMARY - DIMENSIONS



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON POA 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Dimensions	Inches
Bumper to Back of Cab (BBC)	134.5
Bumper to Centerline of Front Axle (BA)	71.2
Min. Cab to Body Clearance (CB)	3.0
Back of Cab to Centerline of Rear Axle(s) (CA)	136.7
Effective Back of Cab to Centerline of Rear Axle(s) (Effective CA)	133.7
Back of Cab Protrusions (Exhaust/Intake) (CP)	0.0
Back of Cab Protrusions (Side Extenders/Trim Tab) (CP)	0.0
Back of Cab Protrusions (CNG Tank)	0.0
Back of Cab Clearance (CL)	3.0
Back of Cab to End of Frame	194.7
Cab Height (CH)	73.5
Wheelbase (WB)	200.0
Frame Overhang (OH)	58.0
Overall Length (OAL)	329.2
Rear Axle Spacing	54.0
Unladen Frame Height at Centerline of Rear Axle	42.5

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

G V W R

VEHICLE SPECIFICATIONS SUMMARY - GVWR

Model	4700SB
Cab Size (829)	110 INCH BBC STEEL CONVENTIONAL CAB
Expected Front Axle(s) Load (lbs)	22000.0
Expected Pusher Axle(s) Load (lbs)	0.0
Expected Rear Axle(s) Load (lbs)	46000.0
Expected Tag Axle(s) Load (lbs)	0.0
Expected GVW (lbs)	68000
Expected GCW (lbs)	80000.0
Front Axle (400)	MFS-20-133A 22,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE
Front Suspension (620)	23,000# FLAT LEAF FRONT SUSPENSION
Front Hubs (418)	CONMET PRESET PLUS PREMIUM IRON FRONT HUBS
Front Disc Wheels (502)	ACCURIDE 29374A 22.5X12.25 10-HUB PILOT 4.75 INSET 10-HAND ALUMINUM DISC FRONT WHEELS
Front Tires (093)	MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES
Front Brakes (402)	MERITOR 16.5X6 Q+ HIGH CAPCITY CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Steering Gear (536)	TRW TAS-85 POWER STEERING WITH RCH45 AUXILIARY GEAR
Rear Axle (420)	RT-46-164P 46,000# R-SERIES TANDEM REAR AXLE
Rear Suspension (622)	HENDRICKSON HN462 @46,000# REAR SUSPENSION
Rear Hubs (450)	CONMET PRESET PLUS PREMIUM IRON REAR HUBS
Rear Disc Wheels (505)	ACCURIDE 40008 22.5X8.25 10-HUB PILOT 10-HAND HD ALUMINUM DISC REAR WHEELS
Rear Tires (094)	MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)
Rear Brakes (423)	MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES
Pusher / Tag Axle (443)	NO PUSHER OR TAG AXLE
Pusher / Tag Suspension (626)	NO PUSHER OR TAG SUSPENSION
Pusher / Tag Hubs (449)	NO PUSHER OR TAG HUBS
Pusher/Tag Disc Wheels (509)	NO PUSHER/TAG DISC WHEELS
Pusher / Tag Tires (095)	NO PUSHER/TAG TIRES
Pusher / Tag Brakes (456)	NO PUSHER/TAG BRAKES

TABLE SUMMARY - GVWR



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

	Front	Rear 1	Rear 2
Axle Component Weight Ratings			
Axles	22000	23000	23000
Suspension	23000	23000	23000
Hubs	23000	26000	26000
Brakes	23000	23000	23000
Wheels	22000	32400	32400
Tires	22800	24020	24020
Power Steering	23000	N/A	N/A
GAWR (per axle)	22000	23000	23000
GAWR (per axle system)	22000		46000
Expected Load (per axle system)	22000		46000
Vehicle GVWR Summary			
Calculated GVWR	68000		
Expected GVWR	68000		
All weights displayed in pounds			

Performance calculations are estimates only. If performance calculations are critical, please contact Customer Application Engineering.



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

S P E C I F I C A T I O N P R O P O S A L

Description	Weight Front	Weight Rear
Price Level		
WESTERN STAR 4700 PRL-17T (EFF:11/14/17)		
Data Version		
SPECPRO21 DATA RELEASE VER 004		
Vehicle Configuration		
4700 SET-BACK FRONT AXLE CHASSIS	9,215	6,630
SET BACK AXLE - TRUCK		
TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	10	10
LH PRIMARY STEERING LOCATION		
General Service		
TRUCK/TRAILER CONFIGURATION		
DOMICILED, CANADA (OTHER THAN QUEBEC)		
FIXED CANADIAN EXCHANGE		
UTILITY/REPAIR/MAINTENANCE SERVICE		
GOVERNMENT BUSINESS SEGMENT		
DIRT/SAND/ROCK COMMODITY		
TERRAIN/DUTY: 30% (LESS THAN A THIRD) OF THE TIME, IN TRANSIT, IS SPENT ON NON- PAVED ROADS		
MAXIMUM 12% EXPECTED GRADE		
MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE		
WESTERN STAR VOCATIONAL WARRANTY		
EXPECTED FRONT AXLE(S) LOAD : 22000.0 lbs		
EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs		
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 68000.0 lbs		
EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs		

Application Version 9.3.212
 Data Version PRL-17T.004
 MAGNETAWAN 2019



05/11/2018 8:31 AM

Page 6 of 20

Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
Truck Service		
FRONT PLOW/END DUMP BODY EXPECTED TRUCK BODY LENGTH : 13.0 ft EXPECTED TRUCK BODY WIDTH : 102.0 in BRAKING-EXPECTED CAB TO BODY CLEARANCE : 3.0 in		
Tractor Service		
FLATBED TRAILER SINGLE (1) TRAILER		
Engine		
DETROIT DD13 12.8L 470 HP @ 1625 RPM, 1900 GOV RPM, 1650 LB/FT @ 975 RPM		
Electronic Parameters		
65 MPH ROAD SPEED LIMIT CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT PTO MODE BRAKE OVERRIDE - SERVICE BRAKE APPLIED OR PARK BRAKE NOT APPLIED PTO MODE CLUTCH OVERRIDE - CLUTCH ENABLED ONE REMOTE PTO SPEED PTO SPEED 1 SETTING - 900 RPM SOFT CRUISE CONTROL ENABLED		
Engine Equipment		
2016 ONBOARD DIAGNOSTICS/2010 EPA/CARB/FINAL GHG17 CONFIGURATION 2008 CARB EMISSION CERTIFICATION - CLEAN IDLE (INCLUDES 6X4 INCH LABEL ON LOWER FORWARD CORNER OF DRIVER DOOR) STANDARD OIL PAN ENGINE MOUNTED OIL CHECK AND FILL ONE PIECE VALVE COVER SIDE OF HOOD AIR INTAKE WITH FIREWALL MOUNTED DONALDSON AIR CLEANER WITH SAFETY ELEMENT AND INSIDE/OUTSIDE AIR WITH SNOW DOOR DR 12V 160 AMP 28-SI QUADRAMOUNT PAD ALTERNATOR WITH REMOTE BATTERY VOLT SENSE	10	

- NOTE NOT 475 HP



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
(3) ALLIANCE ABSORBED GLASS MAT MODEL 7A31, GROUP 31, 12 VOLT MAINTENANCE FREE 2190 CCA THREADED STUD BATTERIES		
PASSENGER SEAT BATTERY BOX VENTED TO OUTSIDE OF CAB		
BATTERY BOX MOUNTED UNDER PASSENGER SEAT		
WIRE GROUND RETURN FOR BATTERY CABLES WITH ADDITIONAL FRAME GROUND RETURN		
PLASTIC BATTERY BOX COVER		
EATON ADVANTAGE 15-1/2 INCH MANUALLY ADJUSTED CLUTCH		
TORQUE LIMITING CLUTCH BRAKE		
ZERK FITTING WITH EXTENSION HOSE AT CLUTCH RELEASE BEARING		
MECHANICAL CLUTCH CONTROL		
BW MODEL BA-921 19.0 CFM SINGLE CYLINDER AIR COMPRESSOR WITH SAFETY VALVE		
AIR COMPRESSOR DISCHARGE LINE		
ELECTRONIC ENGINE INTEGRAL SHUTDOWN PROTECTION SYSTEM		
JACOBS COMPRESSION BRAKE		
RH OUTBOARD UNDER STEP MOUNTED HORIZONTAL AFTERTREATMENT SYSTEM ASSEMBLY WITH RH HORIZONTAL TAILPIPE	-30	-20
ENGINE AFTERTREATMENT DEVICE, AUTOMATIC OVER THE ROAD ACTIVE REGENERATION AND DASH MOUNTED SINGLE REGENERATION REQUEST/INHIBIT SWITCH		
STANDARD EXHAUST SYSTEM LENGTH		
RH STANDARD HORIZONTAL TAILPIPE		
6 GALLON DIESEL EXHAUST FLUID TANK		
100 PERCENT DIESEL EXHAUST FLUID FILL		
STANDARD DIESEL EXHAUST FLUID PUMP MOUNTING		
LH MEDIUM DUTY STANDARD DIESEL EXHAUST FLUID TANK LOCATION		
NO MUFFLER/TAILOPIPE SHIELD	-10	
BORG WARNER (KYSOR) REAR AIR ON/OFF ENGINE FAN CLUTCH		
AUTOMATIC FAN CONTROL WITH DASH SWITCH AND INDICATOR LIGHT, NON ENGINE MOUNTED		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
DDC SUPPLIED ENGINE MOUNTED FUEL FILTER/FUEL WATER SEPARATOR WITH WATER-IN-FUEL INDICATOR		
FULL FLOW OIL FILTER		
1500 SQUARE INCH ALUMINUM RADIATOR		
MOUNTING FOR FIREWALL MOUNTED SURGE TANK		
ANTIFREEZE TO -60F, ETHYLENE GLYCOL PRE-CHARGED SCA HEAVY DUTY COOLANT		
GATES BLUE STRIPE COOLANT HOSES OR EQUIVALENT		
CONSTANT TENSION HOSE CLAMPS FOR COOLANT HOSES		
HDEP FIXED RATIO COOLANT PUMP AND RADIATOR DRAIN VALVE		
LOWER RADIATOR GUARD		
1350 ADAPTER FLANGE FOR FRONT PTO PROVISION	25	
PHILLIPS-TEMRO 1500 WATT/115 VOLT BLOCK HEATER		
PHILLIPS-TEMRO 300 WATT/115 VOLT OIL PREHEATER		
CHROME ENGINE HEATER RECEPTACLE MOUNTED UNDER LH DOOR		
ALUMINUM FLYWHEEL HOUSING		
MITSUBISHI 12V MOD 3.175-DP60 STARTER WITH INTEGRATED MAGNETIC SWITCH		
Transmission		
EATON FULLER RTLO-16913A TRANSMISSION	90	40
Transmission Equipment		
BODY LIGHTING INTERFACE BLUNT CUT WIRING WITH FUSE PANEL WIRE MOUNTED BETWEEN DRIVER AND PASSENGER SEATS WITH ADDITIONAL 150 AMP SERVICE		
CAST IRON CLUTCH HOUSING		
CUSTOMER INSTALLED CHELSEA 489 SERIES PTO		
PTO MOUNTING, BOTTOM OF MAIN TRANSMISSION		
MAGNETIC PLUGS, ENGINE DRAIN, TRANSMISSION FILL AND DRAIN, AXLE(S) FILL AND DRAIN		
PAINTED SHIFT LEVER, SOLID LINKAGE		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
WATER TO OIL TRANSMISSION COOLER, IN RADIATOR END TANK		
SYNTHETIC TRANSMISSION LUBE		
Front Axle and Equipment		
MFS-20-133A 22,000# FL1 71.0 INCH KPI/3.74 INCH DROP SINGLE FRONT AXLE	60	
MERITOR 16.5X6 Q+ HIGH CAPACITY CAST SPIDER CAM FRONT BRAKES, DOUBLE ANCHOR, FABRICATED SHOES	10	
NON-ASBESTOS FRONT BRAKE LINING		
CONMET CAST IRON FRONT BRAKE DRUMS		
FRONT BRAKE DUST SHIELDS	5	
FRONT OIL SEALS		
VENTED FRONT HUB CAPS WITH WINDOW, CENTER AND SIDE PLUGS - OIL		
STANDARD SPINDLE NUTS FOR ALL AXLES		
MERITOR AUTOMATIC FRONT SLACK ADJUSTERS		
STANDARD KING PIN BUSHINGS		
TRW TAS-85 POWER STEERING WITH RCH45 AUXILIARY GEAR	135	
POWER STEERING PUMP		
4 QUART POWER STEERING RESERVOIR		
OIL/AIR POWER STEERING COOLER		
SYNTHETIC 50W FRONT AXLE LUBE		
Front Suspension		
23,000# FLAT LEAF FRONT SUSPENSION	120	
GRAPHITE BRONZE BUSHINGS WITH SEALS - FRONT SUSPENSION		
FRONT SHOCK ABSORBERS		
Rear Axle and Equipment		
RT-46-164P 46,000# R-SERIES TANDEM REAR AXLE		580
4.30 REAR AXLE RATIO		
IRON REAR AXLE CARRIER WITH STANDARD AXLE HOUSING		
MXL 18T MERITOR EXTENDED LUBE MAIN DRIVELINE WITH HALF ROUND YOKES		
MXL 17N MERITOR EXTENDED LUBE INTERAXLE DRIVELINE WITH FULL ROUND YOKES		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
DRIVER CONTROLLED TRACTION DIFFERENTIAL - BOTH TANDEM REAR AXLES		30
(1) INTERAXLE LOCK VALVE, (1) DRIVER CONTROLLED DIFFERENTIAL LOCK FORWARD-REAR AND REAR-REAR AXLE VALVE		
INDICATOR LIGHT FOR EACH INTERAXLE LOCKOUT SWITCH		
INDICATOR LIGHT FOR EACH DRIVER CONTROLLED TRACTION DEVICE SWITCH		
MERITOR 16.5X7 Q+ CAST SPIDER HEAVY DUTY CAM REAR BRAKES, DOUBLE ANCHOR, FABRICATED SHOES		
NON-ASBESTOS REAR BRAKE LINING		
STANDARD BRAKE CHAMBER LOCATION		
CONMET CAST IRON REAR BRAKE DRUMS		
REAR BRAKE DUST SHIELDS		10
REAR OIL SEALS		
WABCO TRISTOP-D LONGSTROKE 30/36 2-DRIVE AXLE SPRING PARKING CHAMBERS		
HALDEX AUTOMATIC REAR SLACK ADJUSTERS		
SYNTHETIC 75W-90 REAR AXLE LUBE		
Rear Suspension		
HENDRICKSON HN462 @46,000# REAR SUSPENSION		150
HENDRICKSON HN 400/460 - 9.56 INCH RIDE HEIGHT		
STANDARD AXLE SEATS IN AXLE CLAMP GROUP		
54 INCH AXLE SPACING		
HENDRICKSON HN, HAULMAAX AND ULTIMAAX SERIES STEEL BEAMS WITH BAR PIN		
FORE/AFT AND TRANSVERSE CONTROL RODS		
REAR SHOCK ABSORBERS - TWO AXLES (TANDEM)		
Brake System		
WABCO 4S/4M ABS WITHOUT TRACTION CONTROL		
REINFORCED NYLON, FABRIC BRAID AND WIRE BRAID CHASSIS AIR LINES		
FIBER BRAID PARKING BRAKE HOSE		
STANDARD BRAKE SYSTEM VALVES		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
RELAY VALVE WITH 5-8 PSI CRACK PRESSURE, NO REAR PROPORTIONING VALVE		
BW AD-9 BRAKE LINE AIR DRYER WITH HEATER	20	
BENDIX OIL COALESCING FILTER FOR AIR DRYER		
AIR DRYER MOUNTED INBOARD ON LH RAIL		
STEEL AIR TANKS MOUNTED AFT INSIDE AND/OR BELOW FRAME JUST FORWARD OF REAR SUSPENSION		
PULL CABLES ON ALL AIR RESERVOIR(S)		

Trailer Connections

AIR CONNECTIONS TO END OF FRAME WITH
GLAD HANDS FOR TRUCK AND DUST COVERS
 PRIMARY CONNECTOR/RECEPTACLE WIRED
FOR SEPARATE STOP/TURN, ABS CENTER PIN
POWERED THROUGH IGNITION
 SAE J560 7-WAY PRIMARY TRAILER CABLE
RECEPTACLE MOUNTED END OF FRAME

Wheelbase & Frame

5075MM (200 INCH) WHEELBASE		
11/32X3-1/2X10-15/16 INCH STEEL FRAME (8.73MMX277.8MM/0.344X10.94 INCH) 120KSI	270	-120
1/4 INCH (6.35MM) C-CHANNEL INNER FRAME REINFORCEMENT	141	364
BODY COMPANY INSTALLED ADDITIONAL FRONT FRAME REINFORCEMENT FOR SNOW PLOW		
1475MM (58 INCH) REAR FRAME OVERHANG		
FRAME OVERHANG RANGE: 51 INCH TO 60 INCH	20	-70
24 INCH INTEGRAL FRONT FRAME EXTENSION WITH 0.25 INCH INSERT	320	-60
CALC'D BACK OF CAB TO REAR SUSP C/L (CA) : 136.69 in		
CALCULATED EFFECTIVE BACK OF CAB TO REAR SUSPENSION C/L (CA) : 133.69 in		
CALC'D FRAME LENGTH - OVERALL : 327.61		
CALC'D SPACE AVAILABLE FOR DECKPLATE : 136.69 in		
CALCULATED FRAME SPACE LH SIDE : 71.17 in		
CALCULATED FRAME SPACE RH SIDE : 89.47 in		
SQUARE END OF FRAME		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
STANDARD WEIGHT ENGINE CROSSMEMBER		
STANDARD CROSSMEMBER BACK OF TRANSMISSION		
STANDARD MIDSHIP #1 CROSSMEMBER(S)		
STANDARD REAR MOST CROSSMEMBER		
HEAVY DUTY SUSPENSION CROSSMEMBER		
STANDARD WEIGHT REAR SUSPENSION CROSSMEMBER		
Chassis Equipment		
14 INCH PAINTED STEEL BUMPER		
BUMPER MOUNTING FOR SINGLE LICENSE PLATE		
FRONT ANTI-SPRAY CAB MOUNTED MUDFLAPS		
GRADE 8 THREADED HEX HEADED FRAME FASTENERS		
EXTERIOR HARNESSSES WRAPPED IN ABRASION TAPE		
Fuel Tanks		
80 GALLON/302 LITER ALUMINUM FUEL TANK - LH	10	
25 INCH DIAMETER FUEL TANK(S)		
PLAIN ALUMINUM/PAINTED STEEL FUEL/HYDRAULIC TANK(S) WITH PAINTED BANDS		
FUEL TANK(S) FORWARD		
PLAIN STEP FINISH		
FUEL TANK CAP(S)		
EQUIFLO INBOARD FUEL SYSTEM		
HIGH TEMPERATURE REINFORCED NYLON FUEL LINE		
NO FUEL COOLER	-10	
Tires		
MICHELIN XZY-3 425/65R22.5 20 PLY RADIAL FRONT TIRES	196	
MICHELIN X MULTI D 11R22.5 16 PLY RADIAL REAR TIRES (NORTH AMERICAN ONLY)		120
Hubs		
CONMET PRESET PLUS PREMIUM IRON FRONT HUBS		
CONMET PRESET PLUS PREMIUM IRON REAR HUBS		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
Wheels		
ACCURIDE 29374A 22.5X12.25 10-HUB PILOT 4.75 INSET 10-HAND ALUMINUM DISC FRONT WHEELS	-8	
ACCURIDE 40008 22.5X8.25 10-HUB PILOT 10-HAND HD ALUMINUM DISC REAR WHEELS		-128
POLISHED FRONT WHEELS; INSIDE AND OUTSIDE		
ACCU-ARMOR FINISHED INNER AND OUTER REAR WHEELS		
FRONT WHEEL MOUNTING NUTS		
REAR WHEEL MOUNTING NUTS		
NYLON WHEEL GUARDS FRONT AND REAR ALL INTERFACES		
Cab Exterior		
110 INCH BBC STEEL CONVENTIONAL CAB WESTERN STAR PAINTED ALUMINUM CAB SKIRT		
AIR CAB MOUNTS WITH CHECK VALVE NONREMOVABLE BUGSCREEN MOUNTED BEHIND GRILLE		
FRONT FENDERS		
2 INCH FENDER EXTENSIONS	5	
LH AND RH EXTERIOR GRAB HANDLES WITH RUBBER INSERTS AND RH INTERIOR GRAB HANDLE MOUNTED TO A POST		
STATIONARY BRIGHT FINISH GRILLE CHROME HOOD MOUNTED AIR INTAKE GRILLE		
HEAVY DUTY STEEL CAB FLOOR		
FIBERGLASS HOOD WITH ACCESS HATCHES	10	
HOOD LINER INSULATION WITH SINGLE FIREWALL INSULATION		
DUAL ROUND AIR HORNS, SINGLE BASE, MOUNTED UNDER CAB		
SINGLE ELECTRIC HORN		
DOORS AND IGNITION KEYED THE SAME (3 KEYS)		
REAR LICENSE PLATE MOUNT END OF FRAME		
SINGLE RECTANGULAR SEALED BEAM HEADLIGHTS WITH BRIGHT BEZELS		
LED MARKER LIGHTS INTEGRAL WITH SUN VISOR		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
WIRING AND SWITCH FOR CUSTOMER FURNISHED SNOW PLOW LAMPS WITH SINGLE CONNECTION AT LH FORWARD		
DAYTIME RUNNING LIGHTS		
LED STOP/TAIL WITH SEPARATE LED BACKUP LIGHTS MOUNTED ON PAINTED STEEL PLATE END OF FRAME		5
STANDARD FRONT TURN SIGNAL LAMPS		
DUAL WEST COAST STAINLESS STEEL HEATED MIRRORS WITH LH AND RH REMOTE		
DOOR MOUNTED MIRRORS		
102 INCH EQUIPMENT WIDTH		
LH AND RH 8 INCH STAINLESS STEEL CONVEX MIRRORS MOUNTED BELOW PRIMARY MIRRORS		
RH DOWN VIEW MIRROR		
RH AND LH 8 INCH STAINLESS STEEL FENDER MOUNTED CONVEX MIRRORS WITH TRIPOD BRACKETS	8	
STANDARD SIDE/REAR REFLECTORS		
RH AFTERTREATMENT SYSTEM CAB ACCESS WITH STEEL SHIELDING		
FIBERGLASS EXTERIOR SUN VISOR	24	
17.5X35 INCH TINTED REAR WINDOW		
TINTED DOOR GLASS		
RH AND LH ELECTRIC POWERED WINDOWS	4	
2-PIECE TINTED CURVED BONDED WINDSHIELD		
2 GALLON WINDSHIELD WASHER RESERVOIR WITHOUT FLUID LEVEL INDICATOR, MOUNTED UNDER CAB, WITH REMOTE FILL		
WHITE WINTERFRONT	2	

Cab Interior

GRAY VINYL BASE INTERIOR
 BLACK HARD TRIM
 BASE LEFT HAND DOOR TRIM
 BASE RIGHT HAND DOOR TRIM
 BLACK MATS WITH DOUBLE INSULATION
 DASH MOUNTED ASH TRAY AND LIGHTER,
 DRIVER SIDE
 FORWARD ROOF MOUNTED CONSOLE
 PASSENGER SIDE WING DASH MOUNTED
 GLOVE BOX WITH LOCKING DOOR



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
LH AND RH DOOR MAP POCKETS		
(2) COAT HOOKS ON BACKWALL OF CAB		
(1) CUP HOLDER MOUNTED IN BOTTOM CENTER OF DASH		
TWO-TONE CHARCOAL UPPER/COOL GRAY LOWER SOFT TOUCH WING DASH WITH BLACK DRIVER SIDE COSMETIC UNDER DASH COVER		
STANDARD WIRING		
(1) DASH MOUNTED WINDSHIELD FAN	5	
5 LB. FIRE EXTINGUISHER	10	
HEATER, DEFROSTER AND AIR CONDITIONER WITH CONSTANT TEMPERATURE CONTROL AND COSMETIC COVER		
HVAC DUCTING WITH FOAM MAIN FRESH AIR FILTER AND OUTSIDE PRE-FILTER		
MAIN HVAC CONTROLS WITH RECIRCULATION SWITCH		
STANDARD HEATER PLUMBING WITH BALL SHUTOFF VALVES AT SUPPLY LINES ONLY		
DENSO HEAVY DUTY AIR CONDITIONER COMPRESSOR		
RADIATOR MOUNTED AIR CONDITIONER CONDENSER		
BINARY CONTROL, R-134A		
ADDITIONAL CAB SIDEWALL INSULATION	60	10
AUTOMATIC SELF-RESET CIRCUIT BREAKER IN MAIN DASH POWER DISTRIBUTION BOX AND CIRCUIT BREAKER/FUSE IN AUXILIARY POWER DISTRIBUTION BOXES		
DOOR ACTIVATED DOME LIGHT, UNDER DASH LIGHT AND LH AND RH DOOR MOUNTED COURTESY LIGHTS		
CAB DOOR LATCHES WITH MANUAL DOOR LOCKS		
(1) 12 VOLT POWER SUPPLY IN DASH		
TRIANGULAR REFLECTORS KIT WITHOUT FLARES SHIPPED LOOSE IN CAB	10	
PREMIUM HIGH BACK AIR SUSPENSION DRIVER SEAT WITH 3 CHAMBER AIR LUMBAR, INTEGRATED CUSHION EXTENSION, FORWARD AND REAR CUSHION TILT, ADJUSTABLE SHOCK ABSORBER	40	
BATTERY BOX MID BACK NON SUSPENSION PASSENGER SEAT		



Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
INBOARD DRIVER SEAT ARMREST, NO PASSENGER SEAT ARMREST	2	
BLACK MORDURA CLOTH DRIVER SEAT COVER		
BLACK MORDURA CLOTH PASSENGER SEAT COVER		
3 POINT DRIVER AND PASSENGER SEAT BELT RETRACTORS		
ADJUSTABLE TILT AND TELESCOPING STEERING COLUMN		
2-SPOKE 20 INCH (500MM) BLACK STEERING WHEEL		
DRIVER AND PASSENGER INTERIOR SUN VISORS		

Instruments & Controls

NON-ADJUSTABLE SUSPENDED PEDALS		
STAR GAUGES WITH BRIGHT BEZELS		
ROYAL ROSEWOOD MATTE FINISH DRIVER INSTRUMENT PANEL		
ROSEWOOD VINYL MATTE FINISH CENTER INSTRUMENT PANEL INSERT		
LOW AIR PRESSURE INDICATOR LIGHT AND AUDIBLE ALARM		
2 INCH PRIMARY AND SECONDARY AIR PRESSURE GAUGES		
DASH MOUNTED AIR RESTRICTION INDICATOR WITH GRADUATIONS		
97 DB BACKUP ALARM		3
CRUISE CONTROL SWITCHES IN THE CENTER PANEL		
KEY OPERATED IGNITION SWITCH AND INTEGRAL START POSITION; 4 POSITION OFF/RUN/START/ACCESSORY		
WARNING LAMP/LIGHT BAR DISPLAY, NON-DATA LINKED		
HEAVY DUTY ONBOARD DIAGNOSTICS INTERFACE CONNECTOR LOCATED BELOW LH DASH		
2 INCH ELECTRIC FUEL GAUGE		
FUEL FILTER RESTRICTION INDICATOR		
EMISSIONS LIMITED IDLE ADJUST		
ELECTRICAL ENGINE COOLANT TEMPERATURE GAUGE		
NO TRANSMISSION TEMPERATURE GAUGE		

Application Version 9.3.212
 Data Version PRL-17T.004
 MAGNETAWAN 2019



05/11/2018 8:31 AM

Page 17 of 20

Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
(1) DASH MOUNTED PTO SWITCH WITH INDICATOR LAMP	5	
ELECTRIC ENGINE OIL PRESSURE GAUGE		
AM/FM/WB WORLD TUNER RADIO WITH BLUETOOTH AND USB AND AUXILIARY INPUTS, J1939	10	
ROOF/OVERHEAD CONSOLE MOUNTED RADIO		
(4) RADIO SPEAKERS IN CAB		
AM/FM ANTENNA MOUNTED ON RH FRONT A-PILLAR	2	
POWER AND GROUND WIRING FOR CB RADIO IN OVERHEAD CONSOLE		
MULTI-BAND AM/FM/WB/CB LH MIRROR MOUNTED ANTENNA SYSTEM		
ELECTRONIC KPH SPEEDOMETER WITH SECONDARY MPH SCALE, WITH ODOMETER		
STANDARD VEHICLE SPEED SENSOR WITH ADDITIONAL ANALOG SPEED SIGNAL WIRES IN ENGINE COMPARTMENT TERMINATED WITH CONNECTOR AND LABELED SPEED SIGNAL		
ELECTRONIC 3000 RPM TACHOMETER WITH HOUR METER		
NO VEHICLE PERFORMANCE MONITOR	-5	
IGNITION SWITCH CONTROLLED ENGINE STOP		
SIX IGNITION CONTROLLED EXTRA SWITCHES WITH INDICATOR LIGHT, 20 AMPS, WIRED BEHIND PASSENGER SEAT		
BW TRACTOR PROTECTION VALVE		
TRAILER HAND CONTROL BRAKE VALVE		
2 INCH VOLTMETER		
SINGLE ELECTRIC WINDSHIELD WIPER MOTOR WITH DELAY		
CAB MARKER LIGHT AND HEADLIGHT SWITCH WITH SEPARATE SWITCH AND TERMINALS FOR CUSTOMER FURNISHED SNOW PLOW LIGHTS AND TURN SIGNALS		
TWO VALVE PARKING BRAKE SYSTEM WITH WARNING INDICATOR		
SELF CANCELING TURN SIGNAL SWITCH WITH INTEGRAL HEADLAMP DIMMER WITHOUT BRAKE OVERRIDE		
PACIFIC INSIGHT ELECTRONIC FLASHER		

Design

PAINT: ONE SOLID COLOR

Application Version 9.3.212
 Data Version PRL-17T.004
 MAGNETAWAN 2019



05/11/2018 8:31 AM

Page 18 of 20

Prepared for:
 BRUCE HILL
 MUNICIPALITY of
 MAGNETAWAN
 P O BOX 70
 4304 HWY 520
 MAGNETAWAN, ON P0A 1P0
 Phone: 1-705-349-3034

Prepared by:
 Blake Clarke
 NORTHLAND TRUCK CENTRE
 370 ECCLESTONE DR.
 BRACEBRIDGE, ON P1L1V1
 Phone: 705-645-2201

Description	Weight Front	Weight Rear
Color		
CAB COLOR A: L0762EB MED RED ELITE BC		
CAB INTERIOR PAINTED SAME AS CAB COLOR		
BLACK, HIGH SOLIDS POLYURETHANE CHASSIS PAINT		
BUMPER PAINTED SAME AS CHASSIS		
SUNVISOR PAINTED SAME AS CAB COLOR A		

Description
Certification / Compliance
CANADA CMVSS CERTIFICATION, EXCEPT SALES CABS AND GLIDER KITS

Description
Secondary Factory Options
CORPORATE PDI CENTER IN-SERVICE ONLY

TOTAL VEHICLE SUMMARY

	Weight Front	Weight Rear	Total Weight
Factory Weight ⁺	10791 lbs	7554 lbs	18345 lbs
Dealer Installed Options	0 lbs	0 lbs	0 lbs
Total Weight⁺	10791 lbs	7554 lbs	18345 lbs

Description	Weight Front	Weight Rear
SUPPLY REMOVABLE FLOOR MATS	0	0
SUPPLY FIRST AID KIT	0	0
SUPPLY AND INSTALL BRAKE STROKE INDICATORS	0	0
SUPPLY AND INSTALL HEATED WINDSHIELD WIPERS	0	0
Total Dealer Installed Options	0 lbs	0 lbs



Prepared for:
BRUCE HILL
MUNICIPALITY of
MAGNETAWAN
P O BOX 70
4304 HWY 520
MAGNETAWAN, ON P0A 1P0
Phone: 1-705-349-3034

Prepared by:
Blake Clarke
NORTHLAND TRUCK CENTRE
370 ECCLESTONE DR.
BRACEBRIDGE, ON P1L1V1
Phone: 705-645-2201

(+) Weights shown are estimates only.
If weight is critical, contact Customer Application Engineering.



NOTE - RFP 2018-06 IS NOT BASED ON THESE SPECIFICATIONS
Bill Cole

REQUIRED SPECIFICATIONS FOR TANDEM SNOW PLOW CAB & CHASSIS

SPECIFICATION	CONFIRM / SPECIFY
Vehicle Configuration	
2018 MODEL YEAR SPECIFIED	
SET FORWARD AXLE - TRUCK	
TRAILER TOWING PROVISION AT END OF FRAME FOR TRUCK	
General Service	
TERRAIN/DUTY: 10% (SOME) OF THE TIME, IN TRANSIT, IS SPENT ON NON-PAVED ROADS	
MAXIMUM 8% EXPECTED GRADE	
MAINTAINED GRAVEL OR CRUSHED ROCK - MOST SEVERE IN-TRANSIT (BETWEEN SITES) ROAD SURFACE	
EXPECTED FRONT AXLE(S) LOAD : 22000.0 lbs	
EXPECTED REAR DRIVE AXLE(S) LOAD : 46000.0 lbs	
EXPECTED GROSS VEHICLE WEIGHT CAPACITY : 68000.0 lbs	
EXPECTED GROSS COMBINATION WEIGHT : 80000.0 lbs	
Truck Service	
FRONT PLOW/END DUMP BODY (see notes)	
TO COMPLY WITH EQUIPMENT REQUIREMENTS	
EXPECTED TRUCK BODY LENGTH : 15 ft	
Tractor Service	
FLATBED TRAILER	
SINGLE (1) TRAILER	
Engine	
MINIMUM 12.5 LITRE ENGINE (ACCEPTABLE ENGINES ARE DETROIT OR CUMMINS)	
RATINGS SET BY MANUFACTURE AT FACTORY LEVEL	
MINIMUM 475 HP, 1650 LB/FT	
65 MPH ROAD SPEED LIMIT	
CRUISE CONTROL SPEED LIMIT SAME AS ROAD SPEED LIMIT	
1800 RPM HARD AND SOFT ENGINE LIMIT FOR PROGRESSIVE SHIFTING	
10 MINUTES IDLE SHUTDOWN WITH CLUTCH AND SERVICE BRAKE OVERRIDE	
Engine Equipment	
ONBOARD DIAGNOSTICS/2010 EPA/CARB/GHG14	