



**ROADS SUB-COMMITTEE ELECTRONIC MEETING
WEDNESDAY, JUNE 23RD, 2021 AT 1:30 P.M.
AGENDA**

Join Zoom Meeting

<https://us02web.zoom.us/j/89588993548?pwd=cVJobFI2NFdVMkszNWWhQZnFoVm00dz9>

Meeting ID: 895 8899 3548

Passcode: 207358

One tap mobile

+15873281099,,89588993548#,,,,*207358# Canada

+16473744685,,89588993548#,,,,*207358# Canada

Dial by your location

+1 587 328 1099 Canada

+1 647 374 4685 Canada

+1 647 558 0588 Canada

+1 778 907 2071 Canada

+1 204 272 7920 Canada

+1 438 809 7799 Canada

Meeting ID: 895 8899 3548

Passcode: 207358

1. Call to Order

2. Additions/Deletions/Approval of Agenda

Be it resolved that the agenda be approved as _____.

3. Declaration of Pecuniary Interest or Conflict of Interest

4. Approval of Draft Minutes – April 28th, 2021

Be it resolved that the minutes of the Roads Sub-Committee meeting held on April 28th, 2021 be approved as circulated.

5. Business Arising from Minutes

6. Correspondence Items

1. Email from David Thwaites – 5th Line OS

7. General Business

1. Update from Public Works Superintendent
2. 2022 Road and Bridge Projects
3. Phragmites in the Township Road Allowances (Environmental Sustainability Committee).
4. Grass Cutting
5. Discussion about Winter Maintenance of Unnamed Lanes in Hamlets (Inquiry from Resident of Horning's Mills)
6. Damage to Tires from Pothole on 7th Line SW
7. Plow Truck Tender
8. Discussion on How We Share Project Updates and Accomplishments with the Public (Councillor McLean)
9. Other/Additions
10. Unfinished Business
 - 1) Development of Poulton Place (Unopened road allowance in Corbetton – North Side of Main Street)
 - 2) Road Tour 2021 (Onsite at High Street Unopened Road Allowance)

8. Delegations

9. Recommendations to Council

10. Public Question Period

11. Confirmation Motion

Be it resolved that all actions of the Members and Officers of the Roads Sub-Committee with respect to every matter addressed and/or adopted by the Board on the above date be hereby adopted, ratified, and confirmed; and each motion, resolution and other actions taken by the Board members and Officers at the meeting held on the above date are hereby adopted, ratified, and confirmed.

12. Adjournment and Date of Next Meeting

Be it resolved that we adjourn this Roads Sub-Committee meeting to meet again on _____ at _____ or at the Call of the Chair.

Kaitlin Chessell

From: David Thwaites [REDACTED]
Sent: Wednesday, June 16, 2021 2:31 PM
To: Kaitlin Chessell
Cc: David Besley
Subject: Roads Committee- 5th Line

Having had the opportunity to drive along a section of 5th Line this afternoon I wonder whether the Roads Committee is considering placing a traffic/speed counter out to measure the impact of the recent construction.

It would seem that the gravelled road should be reconsidered as part of the Road plan given that the previous real challenge of excessive speeding might have found at least a partial answer.

I note that with the anticipated completion of paving of County Road 21 that there will be a good option for a travelled paved road between 124 and 10.

It is my recollection that traffic volume on 5th was not high in previous years.

If the results of a traffic/speed counter demonstrated, using the comparables from previous years, a marked decrease in speed then an argument might well be made for maintaining 5th in gravel as opposed to asphalt. (I recognize there are other factors that may well weigh into the decision process but it might also be a consideration that a newly paved road will invite a race track).

Just a thought/idea, at least the Committee will have taken the opportunity to obtain the evidence to support recommendations/decisions.

David Thwaites

Sent from my iPad

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Quote Form - Table B - Pricing Form - Township of Melancthon

	Quantity	B & I Complete Truck Centre		Lewis Motor Sales Inc.		Rush Truck Centres of Canada	
		Submission 1		Submission 1		Submission 1	
		Unit Price	Total	Unit Price	Total	Unit Price	Total
2021 (or newer) Tandem Axel Truck Cab and Chassis - Township of Melancthon as per Specifications	1	\$ 150,900.0000	\$150,900.00	\$ 143,214.0000	\$143,214.00	\$ 145,264.0000	\$145,264.00
2021 (or newer) Dump Sander Combination Snowplow Equipment - Township of Melancthon as per Specifications	1	\$ 142,289.0000	\$142,289.00	\$ 142,289.0000	\$142,289.00	\$ 142,289.0000	\$142,289.00
Subtotal:			\$ 293,189.00		\$ 285,503.00		\$ 287,553.00
HST			\$ 38,114.57		\$ 37,115.39		\$ 37,381.89
Total Contract Amount:			\$331,303.57		\$322,618.39		\$324,934.89

T2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 1B: Township of Melancthon General

	B & I Complete Truck Centre	Lewis Motor Sales Inc.	Rush Truck Centres of Canada
	<u>Submission 1</u>	<u>Submission 1</u>	<u>Submission 1</u>
<u>Item</u>	<u>Description</u>	<u>Description</u>	<u>Description</u>
Vehicle Make	WESTERN STAR	International	International
Vehicle Model	4700S8A	HV613	HV613
Vehicle Year	2022	2023	2023
Vehicle Engine	DETROIT DD13	Navistar A26	International A26
Snow Plow Make	VIKING	Viking	Viking
Snow Plow Model	135HSE9	PL1415A	plow models are 135HSE9. body is PL1415HW2.
Delivery Date for 2021 (or newer) Snow Plow	APRIL 2022 OR POSSIBLY SOONER	June 14th	September/October

2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 28: Township of Melancthon Tandem Axle Truck (Cab and Chassis)

Type	Description	O & B Complete Truck (Vendor Submission 1)		Lewis Motor Sales Inc. (Submission 1)		Rush Truck Centers of Canada (Submission 1)	
		Yes/No	Comment: If 'NO', add description if other than Description/Specification specified	Yes/No	Comment: If 'NO', add description if other than Description/Specification specified	Yes/No	Comment: If 'NO', add description if other than Description/Specification specified
Axles	Front axle shall be a Mercedes MFS 20-1334 with a front axle of 22000 lbs maximum capacity with 23000 lb. flat leaf suspension	Yes	YES	Yes	As Stated	Yes	AXLE FRONT NON-DRIVING (Meritor MS 22-1334) Wide Track 5-Beam Type 22000-lb Capacity
Axles	Front shock absorbers	Yes	YES	Yes	As Stated	Yes	yes
Axles	Vertical front hub caps with window centre and side plugs - oil	Yes	YES	Yes	As Stated	Yes	yes
Axles	Synthetic 75W-90 axle lube in all axles	Yes	YES	Yes	As Stated	Yes	yes
Axles	Front axle bearings to be oil fed	Yes	YES	Yes	As Stated	Yes	yes
Axles	Rear axle shall be 46000 lbs. maximum capacity. Lube: synthetic oil.	Yes	YES	Yes	As Stated	Yes	AXLE REAR TANDEM (Meritor RT 46-160P) Single Reduction 46000-lb Capacity with Lube Oil Pump Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle 300 Wheel Ends
Axles	Rear axle shall be Tandem dual drive lube oil pump with inter axle differential and driver controlled man locking differential in rear-rear axle and forward rear. Indicator light for each inter axle lockout switch.	Yes	YES	Yes	As Stated	Yes	AXLE REAR TANDEM (Meritor RT 46-160P) Single Reduction 46000-lb Capacity with Lube Oil Pump Driver Controlled Locking Differential in Forward-Rear and Rear-Rear Axle 300 Wheel Ends
Axles	Rear axle ratio shall be 4.56	Yes	YES	Yes	As Stated	Yes	yes
Axles	Rear tandem axles shall have a 54" spread between the axles - must comply and be labelled with SFI Regulations	Yes	YES	Yes	As Stated	Yes	SUSPENSION REAR TANDEM (Meritor RT 46-160P) Axle Spacing Rubber Springs with Transverse Torque Rods Rubber End Bushings
Axles	Rear axle carriers with optional heavy duty axle housing MFL 18H Meritor extended lube man drive with full round yokes, half round yokes for inter axle	Yes	YES	Yes	As Stated	Yes	yes
Axles	Meritor 18H Handmax 46000lb. rear suspension	Yes	YES	Yes	As Stated	Yes	yes
Axles	Meritor 18H and Handmax series steel beams with bar pin fore and aft transverse control rods rear shock absorbers for both axles	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	TRW T1P-60 power steering with RCM41 auxiliary gear power steering pump - 4 quart power steering reservoir	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	Steering column shall be 18" telescoping with 18" steering wheel	Yes	YES	Yes	As Stated	Yes	yes
Power Steering	Oil / air power steering cooler	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Service Brakes - Full Air Brakes - ABS	Yes	YES	Yes	As Stated	Yes	BRAKE SYSTEM Air Dual System for Straight Truck Applications
Brakes	Rockwell front brakes size 16 1/2" x 4" minimum	Yes	YES	Yes	As Stated	Yes	BRAKES FRONT (Bendix Spicer ES-165-6T) 5-Cam Type Heavy Duty Fabricated Sander Fabricated Shoe Single Anchor Pin Size 1.65" x 6" 23000-lb Capacity
Brakes	Rockwell rear brakes size 16 1/2" x 7" minimum	Yes	YES	Yes	As Stated	Yes	BRAKES REAR (Bendix Spicer ES-165-7T) Air 5-Cam Type Heavy Duty Fabricated Sander Fabricated Shoe Single Anchor Pin Size 1.65" x 7" 30000-lb Capacity per Axle
Brakes	Air Lines to have manual drains be installed	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Air compressor - 150 CFM capacity minimum with dry type air cleaner on intake shall be supplied	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Heated 5W-90 oil dryer with Bendix oil coalescing filter shall be supplied. Air dryer to be mounted on inside of frame rail	Yes	YES	Yes	As Stated	Yes	AIR DRYER LOCATION Mounted Inside Left Rail Back of Cab
Brakes	Brake chambers must be 24 square inch minimum on front brakes and 30 square inch minimum on rear brakes	Yes	YES	Yes	As Stated	Yes	BRAKE CHAMBERS REAR AXLE (Bendix) 10/30 Light Spring Brake BRAKE CHAMBERS FRONT AXLE (Bendix) 24-Sqn
Brakes	Automatic slack adjusters front and rear (HALDEX) safety brake travel indicators	Yes	YES	Yes	As Stated	Yes	SLACK ADJUSTERS FRONT (Halder) Automatic SLACK ADJUSTERS REAR (Halder) Automatic
Brakes	Holder automatic slack adjusters front with stainless steel chock pins front and rear	Yes	YES	Yes	As Stated	Yes	SLACK ADJUSTER PINS Stainless Steel 3/4" Adjuster Pins/Cotter Pins on Front and Rear
Brakes	Tractor Pack Lags - hand control valve and tractor protection valve including lines extended to end of frame including glad hands & SAE J540 7-way trailer cord receptacle	Yes	YES	Yes	As Stated	Yes	yes
Brakes	Air line compression brake with on-dash driver controlled settings	Yes	YES	Yes	As Stated	Yes	yes
Frame	Frame reinforcement must be full length outer "C" Channel heat treated alloy steel (120000 PSI yield), 1/2" (6mm) GAL	Yes	YES	Yes	As Stated	Yes	FRAME REINFORCEMENT Full Outer C-Channel Heat Treated Alloy Steel (120000 PSI Yield) 10.613" x 3.892" x 0.312" (274.6mm x 98.9mm x 7.9mm) 480.0" (12192mm) GAL
Frame	Frame rails heat treated alloy steel 120000 PSI yield, 7/16" x 3 9/16" x 11 1/8" minimum GAL	Yes	YES	Yes	As Stated	Yes	FRAME RAILS Heat Treated Alloy Steel (120000 PSI Yield), 10.125" x 3.500" x 0.312" (257.2mm x 89.2mm x 8.0mm), 480.0" (12192) Minimum GAL
Frame	Mounting of snow plow hook plates shall be possible	Yes	YES	Yes	As Stated	Yes	yes
Frame	18" minimum front frame extension with 1/2" insert	Yes	YES	Yes	As Stated	Yes	FRAME EXTENSION FRONT Integral, 20" in front of grille with Outer C-Channel Reinforcement
Frame	Front sweep back steel bumper same colour as chassis shall be supplied. Body builder to cut and re-install ends on chassis.	Yes	YES	Yes	As Stated	Yes	BUMPER FRONT Sweep Bar, Steel Heavy Duty
Suspension	20" W. B. C.A. shall be 18" clear to accept the combination plow equipment as outlined in Appendix B. NOTE: Dealer to check with body builder prior to ordering chassis.	Yes	YES	Yes	As Stated	Yes	yes
Suspension	Front spring capacity at the ground 11500 lbs. each for a total of 23000 lb rating	Yes	YES	Yes	As Stated	Yes	SUSPENSION FRONT SPRING Parabolic Taper Leaf Shock Type 23000-lb Capacity Steel Springs 30K Capacity and (2) Rubber Auxiliary Springs 2K Capacity with Shock Absorbers
Suspension	Rear suspension Meritor 18H Handmax model MS 54 46000 lbs. maximum	Yes	YES	Yes	As Stated	Yes	SUSPENSION REAR TANDEM (Meritor RT 46-160P) Axle Spacing Rubber Springs with Transverse Torque Rods Rubber End Bushings
Wheels Tires and Hubs	Tire size front: 425/65R22.5 Michelin XZY 3 20 ply	Yes	YES	Yes	As Stated	Yes	TIRE FRONT 425/65R22.5
Wheels Tires and Hubs	Tire size back: 11R22.5 Michelin XDS2 36 ply	Yes	YES	Yes	As Stated	Yes	TIRE FRONT 425/65R22.5 Load Range L 32Y J (MICHELIN) 465 rev/mile 65 MPH AB-Position
Wheels Tires and Hubs	Tire size back: 11R22.5 Michelin XDS2 36 ply	Yes	YES	Yes	As Stated	Yes	TIRE REAR 11R22.5 Load Range H X MAXTED (MICHELIN) 484 rev/mile 75 MPH Drive
Wheels Tires and Hubs	Hub size front:	Yes	YES	Yes	As Stated	Yes	WHEELS FRONT (Accuride 29007) DMC; 22.5x12.25 Hubs
Wheels Tires and Hubs	Disc 22.5" x 12.25" 10-stud hub piloted with 4.75 insert 5 hand steel disc flanged nut metric mount 12.25 DC rims with steel hubs (Accuride part number 79407) powder coated white	Yes	YES	Yes	As Stated	Yes	WHEELS FRONT (Accuride 29007) DMC; 22.5x12.25 Rims Powder Coat Steel 5-Hand Hole 10-Stud 285.75mm BC Hub-Piloted Flanged Nut with Steel Hubs, Offset 5.37"
Wheels Tires and Hubs	Hub size back:	Yes	YES	Yes	As Stated	Yes	WHEELS REAR (Accuride 29169) DUAL DMC; 22.5x8.25 Hubs
Wheels Tires and Hubs	22.5" x 8.25" 10 Steel Hub piloted (Accuride part number 29169FWHT21) 5 hand 10 steel disc rear rims powder coated white	Yes	YES	Yes	As Stated	Yes	WHEELS REAR (Accuride 29169) DUAL DMC; 22.5x8.25 Rims Powder Coat Steel 5-Hand Hole 10 Steel 285.75mm BC Hub-Piloted Flanged Nut with 4.75" Thick Increased Capacity Disc and Steel Hubs
Wheels Tires and Hubs	Rims shall have load and pressure ratings equal to or greater than those of the tires	Yes	YES	Yes	As Stated	Yes	yes
Wheels Tires and Hubs	Spacers shall be supplied & installed between rims & drums	Yes	YES	Yes	As Stated	Yes	yes
Engine	Detroit DD15 Wet sleeve engine in-line 6 cylinder engine shall be 12.8 litre maximum: 1700 HP @ 1800 RPM/1650 lb ft. torque @ 1100 RPM 2000 RPM governed with 20:1 compression	Yes	YES	Yes	Isolstar A26 475 HP 1700 lb ft torque @ 1800 RPM Engine is used by Grey County Owen Sound Fowler Construction City of Barrie and many more.	Yes	ENGINE DIES11 (International A26) EPA 2017 475HP @ 1700 RPM 1700 lb ft Torque @ 1800 RPM 2100 RPM Governed Speed 475 Peak HP (Isol)
Engine	Prior to delivery of truck engine shall be set up using proper electronic diagnostic equipment to span the intake of the Camshaft of the	Yes	YES	Yes	As Stated	Yes	yes
Engine	Exhaust system shall be single horizontal / horizontal muffler	Yes	YES	Yes	As Stated	Yes	EXHAUST SYSTEM Single Horizontal A Rearmount Device Frame Mounted Right Side Under Cab for Single Short Horizontal Tail Pipe Frame Mounted Right Side Back of Cab
Engine Equipment	Batteries: 3 Allmarc absorbed glass mat mode 9A11 Group 31 12 volt batteries shall be supplied 750 CCA min each	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	The battery box shall be mounted under the passenger seat - passenger seat battery box vented to outside of cab.	Yes	YES	Yes	As Stated	Yes	BATTERY BOX Steel 2 3 Battery Capacity Mounted Inside the Cab Under Passenger Seat

Engine Equipment	Battery shut off switch inside cab accessible when driver ignites diesel.	Yes	YES	Yes	As Stated	Yes	BATTERY DISCONNECT SWITCH (Joseph Pallas) For Cab Power Disconnect Switch Disconnects Power to Power Distribution Center (PDC) Does Not Disconnect Charging Circuit Key Operated Cab Mounted
Engine Equipment	Air cleaner Heavy duty dual stage dry type shall be supplied with cab controlled inside/outside air induction. Snow valve / air intake with driver controlled dash switch for wicking mode with chromed hood mounted air intake grille	Yes	YES	Yes	As Stated	Yes	AIR CLEANER Dual Element with Integral Snow Valve and In-Cab Control
Engine Equipment	Alternator shall be DR 12V 200 amp maximum 28 SI Quadra mount pad with remote battery volt sense	Yes	YES	Yes	As Stated	Yes	ALTERNATOR (Delco Remy 28SI) Brush Type 12 Volt 200 Amp Capacity Pad Mount with Remote Sense
Engine Equipment	Q.E.M. auxiliary 3' glow wiring package with in dash switch for direct plugging in of temporary headlights.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	DDC engine mounted fuel filter / fuel-water separator with water in fuel indicator. DDC coolant filter engine mounted. Antifreeze to -40F INCAT extended life coolant.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Premium radiator hoses.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Silicone heater hoses.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Block Heater 115 Volt / 1500 watt. Chrome plug to be located under driver's door.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Delco 12V 39MT + HVDCP starter with thermal protection and integrated magnetic switch.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Cold starting equipment automatic, with engine ECU control.	Yes	YES	Yes	As Stated	Yes	yes
Engine Equipment	Air cleaner - dual element with integral snow valve and dash mounted in cab control.	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Transmission - Allison 4500 RDS 6 speed automatic with PTO provision	Yes	YES	Yes	As Stated	Yes	TRANSMISSION AUTOMATIC (Allison 4500 RDS) 6th Generation Controls, Wide Ratio 6-Speed with Double Overdrive with PTO Provision Line PTO Inlet Includes Oil Level Sensor On/Off High/Low
Transmission and Clutch	Dash mounted push button electronic shift control	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Synthetic Transmission Fluid (TIS-395 Compliant)	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Water to Oil Transmission Cooler frame mounted	Yes	YES	Yes	As Stated	Yes	yes
Transmission and Clutch	Transmission Oil Check and Fill with Electronic oil level check	Yes	YES	Yes	As Stated	Yes	yes
Cab	ALL RDS 130" 9BC conventional cab with the following equipment shall be supplied:	Yes	YES	Yes	As Stated	Yes	yes
Cab	Premium level interior trim package: smoky grey vinyl black floor matting with double insulation double in dash cup holder additional cab sidewall insulation automatic self reset circuit breaker in main dash power distribution box and circuit breaker / fuse in auxiliary power distribution boxes (1) 12 volt power supply in dash padded headliner insulated for wall and insulated rear cab wall padded door panels with map pockets forward mounted overhead console with dual storage pockets.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Driver seat: National 2000 series dual back air suspension with dual arm rests adjustable head rest and lumbar supports. Cloth material	Yes	YES	Yes	As Stated	Yes	SEAT DRIVER (National 2000) Air Suspension High Back with Integral Headrest Cloth Isolator 1 Chamber Lumbar 2 Position Front Cushion Adjust 3 to +14 Degree Back Angle Adjust
Cab	Passenger seat: National non suspension cloth material.	Yes	YES	Yes	As Stated	Yes	SEAT PASSENGER (Seats Inc) Non Suspension High Back Fixed Back Integral Headrest Cloth for use with Batteries in Cab
Cab	Windshield - two piece Q.E.M. electrically heated windshield. All glass to be Q.E.M. brand.	Yes	YES	Yes	As Stated	No	WINDSHIELD Heated Single Pane
Cab	Q.E.M. cow lay bar at bottom of windshield to stop snow from packing in below supports.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Dual mechanized L.H. and R.H. rectangular 16" x 10" stainless steel heated mirrors with heated convex mirrors with separate adjustment.	Yes	YES	Yes	As Stated	No	MIRRORS (2) Aero Federal Power Adjust Heated Bright Heads Black Arms 6.5" x 14" Flat Glass Includes 6.5" x 6" Convex Mirrors for 100" Load Width
Cab	Hood mounted convex mirrors	Yes	YES	Yes	As Stated	Yes	MIRROR CONVEX HOOD MOUNTED (Lang Mohr) 11 Right and Left Side Height 7.5" Sq.
Cab	Stainless steel exterior sunshade vane with flush mounted LED clearance / marker lights.	Yes	YES	Yes	As Stated	Yes	SUNSHADE EXT (RICH Bright Finish with Integral Clearance/Marker Lights
Cab	10 additional Q.E.M. powered body builder light switches with indicator light 20 amp mounted in dash connected to electrical box mounted in cab behind passenger seat for easy access.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Vehicle speed sensor with additional signal for customer use - located between seats.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Factory installed 44A/FM stereo radio with CD player weather band clock auxiliary input and multiple speakers.	Yes	YES	Yes	As Stated	Yes	yes
Cab	2 way radio wiring effects, wiring with 20 amp fuse protection includes ignition wire with 5 amp fuse wire ends heat shrink and 10' coil taped to base harness.	Yes	YES	Yes	As Stated	Yes	yes
Cab	29 channel Cable CB with weather band and Bluetooth shall be supplied. Multi band 44A/FM/76/B dual mirror mounted antenna system.	Yes	YES	Yes	As Stated	Yes	yes
Cab	Intermittent windshield wipers with new type WRETCR upper blades.	Yes	YES	Yes	As Stated	Yes	yes
Cab	GAUGES: Engine oil temperature tractor and trailer air gauges engine oil pressure engine radiator temperature tachometer (electronic) fuel (electronic) voltmeter (electronic) washer fluid level air cleaner restriction. ODOMETER display: kms trip kms engine hours trip hours. WARNING SYSTEM: low fuel low oil pressure high engine coolant temperature low battery voltage (both visual and audible). Ambient (color temperature gauge)	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Dual stainless steel air horns with snow shield covers shall be supplied. Electric horns	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Expanded ALUMINUM tread cab entry steps.	Yes	YES	Yes	As Stated	Yes	ACCESS CAB Aluminum Self-Cleaning Open and Vertical Design Entry & Passenger Sides Two Steps per Door for use with Dry Cab (Standard Cab or Sleeper Cab)
Miscellaneous	Exterior cab mounted chrome grab bars on each side of cab to assist easy entry and exit shall be supplied	Yes	YES	Yes	As Stated	Yes	GRAB HANDLE EXT (2) Chrome Towel Bar Type with Anti-Slip Rubber Inserts for Cab Entry Mounted Left and Right Side at B-Pillar
Miscellaneous	Q.E.M. air conditioning shall be supplied - integrated heater and defroster with recirculating cab air	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Single rectangular sealed beam headlights with bright chromed bezels	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Wiring and switch for customer furnished fog lights.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Cab marker light and headlight switch with separate switch and terminals for customer furnished snow-plow lights and turn signals.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Daytime running lights.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Power windows and door locks: driver and passenger side with controls on driver and passenger side. Express down feature.	Yes	YES	Yes	As Stated	Yes	WINDOW POWER (2) and Power Door Locks Left and Right Doors Includes Express Down Feature
Miscellaneous	5 lb. fire extinguisher mounted on floor beside driver's seat and accessible when driver's door opened. First aid kit; triangle roadside stand above safety markers.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Backup alarm 37 DBA.	Yes	YES	Yes	As Stated	Yes	yes
Miscellaneous	Circuit breaker with manual reset - replaces all fuses except 5 amp.	Yes	YES	Yes	As Stated	Yes	CIRCUIT BREAKER Manual-Reset (Adam Panel) SAE Type III w/5 Trip Indicators Replaces All Fuses
Fuel Tank	Single 25" tank depth, 300 Dns 80 U.S. gallon (maximum) non polished aluminum fuel tank with stainless steel straps mounted on driver's side	Yes	YES	Yes	As Stated	Yes	FUEL TANK Top Draw Non-Polished Aluminum 26" Dia 80 US Gal / 303L Mounted Left Side Under Cab
Paint	Cab: BE D color / 303 Base / Clear coat	Yes	YES	Yes	As Stated	Yes	yes
Paint	Chassis: Black Urethane	Yes	YES	Yes	As Stated	Yes	yes
Paint	All paint to be applied over a coat of good quality priming paint 1.5 mil dry film thickness	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Must be one piece fiberglass with forward lifting with hood service hatches for checking engine fluid levels includes enhanced dipstick location so operator does not have to sit hood to check engine oil.	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Must be provided with 2" fender extensions with extended full width front fender mud flaps	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	Dash controlled fresh air intake / shut off for engine with chrome grille	Yes	YES	Yes	As Stated	Yes	GAUGE AIR CLEANER RESTRICTION (Filter-Mixer) with Black Bezel Mounted in Instrument Panel
Hood Fender and Grille	Inner skirt under hood sound abatement package to prevent road dirt getting on engine	Yes	YES	Yes	As Stated	Yes	yes
Hood Fender and Grille	34" auxiliary chrome grille with bug screen in behind grille	Yes	YES	Yes	As Stated	Yes	yes
Warranty	Signed manufacturer's factory warranty shall be supplied	Yes	YES	Yes	As Stated	Yes	yes
Warranty	5 year unlimited kms extended transmission warranty.	Yes	YES	Yes	As Stated	Yes	SRV CONTRACT EXT ALLISON R180H (Allison) To 60 Month/Unlimited Miles/km for Allison 4500 RDS with Utility or Other Vehicles (STDW 5127 5123 TTD1 TTD2 AGDR SPD SPD-V-POS)
Shop Manual	Shop repair manuals for the truck and engine shall be supplied	Yes	YES	Yes	As Stated	Yes	yes

2021 PW-21-08 - Supply & Delivery of Three (3) Snowplows - Specification - Table 3B. Township of Meijerichon Dump/Sander Combination Snowplow Equipment

Type	Description	B & B Complete Truck Centre Subtask 1		Lewke Motor Sales Inc. Subtask 1		Bush Truck Centre of Canada Subtask 1	
		Yes/No	Comment: If 'NO', add description if other than Description/Specification	Yes/No	Comment: If 'NO', add description if other than Description/Specification	Yes/No	Comment: If 'NO', add description if other than Description/Specification
General	VCL1545EH One Way Plow 35" intake 64" discharge height 14' 4" overall length 11' wide 9' clearing path. (1) 10' moldboard (1) 19' standard features: 1. Heavy duty tubular push frame 10 gauge brake formed steel moldboard construction and 100% continuous welds on the moldboard ribs. Perfect for high speed plowing.	Yes	Yes	Yes	As Stated	Yes	yes
General	3 Slotted trip lugs allow the plow to trip when encountering speed bumps and other road obstacles.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable trip spring assembly provides safe tripping action in a variety of conditions.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable moldboard angle for enhanced edge efficiency. Shear bolts on moldboard brace protect the plow components and truck.	Yes	Yes	Yes	As Stated	Yes	yes
General	Adjustable push frame shoes.	Yes	Yes	Yes	As Stated	Yes	yes
General	Standard cast steel noseplate.	Yes	Yes	Yes	As Stated	Yes	yes
General	Grade 70 chain.	Yes	Yes	Yes	As Stated	Yes	yes
General	Safety cable installed from push frame to moldboard.	Yes	Yes	Yes	As Stated	Yes	yes
General	1/2 x 1 x 132" steel cutting edge center punchrod.	Yes	Yes	Yes	As Stated	Yes	yes
General	7/8 x 6 x 132" carbide cutting edge (3pcs 7/8 x 6 x 44") MTD trap (45 deg)	Yes	Yes	Yes	As Stated	Yes	yes
General	Carbide nose piece in lieu of cast steel.	Yes	Yes	Yes	As Stated	Yes	yes
General	Qty (2) of V600 Ni Hardened 8" punch moldboard shoe (each).	Yes	Yes	Yes	As Stated	Yes	yes
General	Quick attach plate and bar.	Yes	Yes	Yes	As Stated	Yes	yes
General	Hydraulic 18" moldboard w/ moldboard angle indicator rod and QD connectors.	Yes	Yes	Yes	As Stated	Yes	yes
General	Qty (2) of MTD reflective warning marker w/ mounting bracket.	Yes	Yes	Yes	As Stated	Yes	yes
General	Bar# DCC-181 Finish w/ corrosion protection: Medium gloss black (moldboard and push frame).	Yes	Yes	Yes	As Stated	Yes	yes
General	Spring retaining kit.	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	VCL500T Hydraulic 18" Harness includes 12" 44w tailpipes to suit chassis plow lift yolk and 4x10 plow lift cylinder. Heavy duty inner & outer rotation tubes with grease fittings. Single non load bearing lock pin design 1/2" x 6" 18" cylinder.	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Cut O.E.M. front bumper and re-install ends to chassis.	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Plow dampening accumulator kit.	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Quick attach sockets and pins.	Yes	Yes	Yes	As Stated	Yes	yes
Plow Harness & Options	Grote LED glow lights (HEATED) c/w integrated signal lights.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	VCL505CL Rear cable lift wing tower. Includes wing integrated back of cab hydraulic oil tank. Includes frame mount front post and rear wing tower. Does not include pusharms or moldboard.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	17" Convex mirror with stainless steel protective backer plate.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	12" raised angle iron bracket to mount mirror.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Valve tube style frame cross member.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Aeon rubber bumper spring assembly.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Dual adjustable needle valves for linear Wing rate control of UP/DN.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Rear wing harness mounted heated 5" Square 3000 Lumen LED floodlight c/w mounting bracket and wiring harness.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Height adjustable light post mounted to front post w/ dual 6" spotlights; mounting brackets and wiring harness.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Qty (2) of front post mounted heated 4" Square 3000 Lumen LED spotlight c/w mounting bracket and wiring harness.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Harness & Options	Bar# DCC-181 Finish w/ corrosion protection: Medium gloss black (wing towers harness).	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	VCL156WHD 13" moldboard c/w pusharms Ultra heavy duty ribbed construction for extreme conditions. Pre-Punched cutting edge holes for easy blade installation.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	5/8 x 8 x 144" (one piece blade) high wear plow blade.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	V45-1 curb shoe (each).	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Bar# DCC-181 Finish w/ corrosion protection: Medium gloss black (wing moldboard).	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Parking leg for WHD wing.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	MTD reflective warning marker w/ mounting bracket.	Yes	Yes	Yes	As Stated	Yes	yes
Wing Moldboards & Options	Compassity safety reflective tape on wing arms and on rear edge of wing.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	PL1615HW-11 12.5 cu yd water level capacity (15.4 cu yd w/ 10" sideboards) 9.55 m3 water level capacity (11.77 m3 w/ 10" sideboards).	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	U Style Design: Continuous roll formed sides with no brakes for optimal material flow to main conveyor. Specifically designed for sand and aggregate material spreading.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Self tensioning chain ensures that the chain is functioning properly regardless of wear.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Front discharge.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Double acting tailgate for carrying large items.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Air tailgate release for easy material dumping.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Body prop dump hinge for safety checks.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Durable 2/16" corten sides resist material wear & corrosion.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Left front inspection ladder.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Bodies	Trunnion mount hoist cylinder.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (14) of body 11" Hardox 450 high tensile body construction. (HW-11W-B) (conveyor cover remains standard rubber for RW-11 and LW-11) Hardox 450 is an abrasion-resistant steel with a nominal hardness of 450 HBW. Hardox 450 combines good bendability and weldability with an option for guaranteed impact toughness. Provides better dent and abrasion resistance as well as longer wear life so you can achieve even greater savings. Yield strength is around 175000 psi. Tensile strength is around 203000 psi.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Asphalt door in tailgate (Hardox body).	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Shovel holder installed on driver's side front - Corten or Hardox body only.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Main conveyor sensor motor in lieu of standard 6 cu. in. w/o adapter cable.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Red/white 2" reflective tape along body fenders & across bottom tailgate.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Main Conveyor cover clean out screen to be "PINHED" not bolt on.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Aluminum ladder in lieu of standard ladder. FH left to lock 1167-68.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote "Ultra Blue Seal" - LED body lighting kit c/w license plate lamp LH and RH 2-1/2" round red LED rear clearance 6" oval LED back up 2 x 6" oval red LED stop/turn/tail front side 7-1/2" marker lights.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	SWS 16397 MF amber/blue LED mini-bar with cab shield mount.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Removable Upper red assembly - Side mount led aluminum blue/amber w/ 2 x 4" red 2 x 7" red 1 x 4" blue strobe (LH) & 1 x 4" amber strobe (RH).	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (2) of Corner Post heated LED Flood light painted al ground and mounting bracket (LH & RH) on OEM rev.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote blue self flashing 4" round LED strobe w/ stainless steel mount bar.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote amber self flashing 4" round LED strobe w/ stainless steel mount bar.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote blue self flashing LED 6" corner post strobe.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Grote amber self flashing LED 6" corner post strobe.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Single spinner - reversible belt cross conveyor for LW & HW body.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	RH material chute for reversible cross conveyor.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Hinged salt extension chute.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Extended Cross Conveyor SSTL Guards.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Stainless steel cross conveyor upcharge includes frame and chutes.	Yes	Yes	Yes	As Stated	Yes	yes
Proline Options	Qty (2) of Cross conveyor mounted heated 5" square 3000 lumen LED floodlight c/w mounting bracket and wiring harness. Mounting location: BOC driver's side.	Yes	Yes	Yes	As Stated	Yes	yes

Proline Options	VCL manufactured air tarp kit for 12' & 14' Prolines (less tarp cover) c/w rolled aluminum tarp arms	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Mask tarp cover 12 to 14 ft Prolines	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Black Hardwood sideboards - Pair	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLW-8 host pens remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLW-8 rear bearing remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	PLW-8 dump hinge remote grease kit	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Dupont Intron 186 finish w/ chromate epoxy Dupont CR2580 primer - Paint Code: Milenxton Fleet Red	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	Qty (14) of body ft of LineX colour tinted to match base on fender tops and fender sides only	Yes	YES	Yes	As Stated	Yes	yes
Proline Options	LineX colour tinted rear face of body posts	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Chassis mounted aluminum fenders 1 & 2 chassis	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Perile plate and bracing for perile hooks rated > 30000# MGTW c/w Band DCC 181 finish - medium gloss black	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Holland PH410RA11 with air plunger and 2" low eyes 100000 # MGTW - 36 inches ground level to the inside bottom of the perile hook saddle	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Tectra Traxion tie swing away glad hands (per set)	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Pedestal mount for beacon light- cable tower (BOC Hyd. tank)	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Rear mounted heated LED floodlight for work light c/w bracket	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Re-install OEM 7 pin trailer plug & perile plate	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Stainless steel hinged chassis cover	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Ra & RE Mac Chassis Components	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Freight to ship wing to customers location	Yes	YES	Yes	As Stated	Yes	yes
Chassis Options	Freight to ship plow to customers location	Yes	YES	Yes	As Stated	Yes	yes
ABD Signs	Tailgate checker bar	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	CSS50 with 2 function SCB block	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Danfoss pump & valve	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sauer Danfoss 90cc crank mount piston pump	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	VCL Low oil level indicator w/ in cab warning light and buzzer	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Standard hydraulic oil	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Hiron high pressure filter ass'y w/ 10 micron absolute filter	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sauer Danfoss PVG32 series 1st section c/w inlet and outlet sections	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (6) of Sauer Danfoss PVG32 series Remaining sections per section	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (8) of VCL Standard 2 wire Hydraulic hose and hose ends by number of sections Aeroquip 10DR16 2 Wire GH78 with braze resistant cover	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Stainless steel hydraulic lines - per track (body/chassis)	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Black Partec hose wrap (seal belt material) not kerlar	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Stainless Steel Hose Hanger in lieu of Standard	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Valve enclosure assembly - SCL 6-9 Section (SSTL)	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Bosch Rexroth CS550 spreader control c/w 2 section valve block c/w cabling harness	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Bosch Mam Conveyor Motor sensor feedback cable	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Sprague Road Watch 55 Road Temp sensor with interface to Bosch Controller	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Body up indicator c/w in cab warning light ONLY	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	New cab console auxiliary switch bus includes 16 illuminated push buttons to control lighting	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Integrated control console assembly	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Left To Lock RMH Air Control - WING	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (4) of Standard RMH Air Control - LIFT / WING / WSLIDE / TILT / PLOW	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Left To Lock RMH Air Control - HOIST	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Standard RMH Air Control - TILT / HITCH	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Qty (3) of Air Switches - TAIL / TAMP / PINTLE	Yes	YES	Yes	As Stated	Yes	yes
Air Electric Hydraulic Controls	Cab floor stiffener plate (speedy chassis make model & year)	Yes	YES	Yes	As Stated	Yes	yes