

SUPPLY OF ONE HIGHWAY PLOW/SALT TRUCK
RFP-MCC-1904
Addendum No. 2

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September 6, 2019

To All Proponents of Request For Proposals RFP-MCC-1904:

The following addendum applies to this request for proposals (RFP) and shall be taken into account when preparing a submission.

This Addendum must be acknowledged in the Proposal Form.

The following changes or modifications shall be made to the RFP Documents:

TO THE SPECIFICATION:

1. In SECTION **Plow**, **Item 1**, delete
‘Trip edge type (single section) one-way plow 38" high (30" intake and 54" at discharge)’
and replace with
‘One-way plow, moldboard style, 38" high (30" intake and 54" at discharge)’
2. In SECTION **Plow**, **Item 4**, delete
‘Cylinder protection valve’
and replace with
‘left intentionally blank’
3. In SECTION **Plow**, **Item 6**, delete
‘Saftey trip system with six adjustable compression springs’
and replace with
‘left intentionally blank’

SECTION Municipality of the County of Cumberland Specification

4. **Municipality of the County of Cumberland Specification Sheet**, replace Specification with the attached Specification, Addendum No. 2, September 6, 2019.

Specification

Addendum No. 2
September 6, 2019

Truck to be set-up to be suitable for snowplowing at 70 kph. GVWR 39,000 lbs with 11 ft spreader body. Complete installation, fully functional including all appurtenances for installation.

Proposed make, model and year	Year	Make	Model
Chassis			
Spreader body			
Spreader body controls			
Plow			
Plow controls			

	Dimensions	Meets Specification Yes/No	Actual proposed
1	Wheelbase (WB) - 179"		
2	Back of cab to axle (CA) - 104"		
3	Bumper to back of cab (BBC) - 116" preferred		
4	Set back front axle - determined by body		
5	Rear overhang (OH) - min. 70"		
6	Turn radius (wall clearance) - max. 35"		
7	Front frame extended (non bolt on) for snow plow use, min. 20"		
	Frame		
1	Full length single channel frame		
2	Heat treated, high strength steel - min. 120 ksi		
3	If frame flange or webbing is cut or scalloped for any reason, reinforcement is mandatory in these areas and must be engineered by the manufacturer to maintain the strength of the frame rails. Indicate whether this is the case in the "Comments" Section to the right. Manufacturers engineered drawings and a manufacturers strength approval or confirmation statement for yield strength, section modulus and RBM must be available upon request.		
4	Extended bumper position for snow plow mounting (in front of grille) - min. 20"		
5	Provision in frame to allow for front pump mount driveshaft		
6	Bumper, front swept back, steel, heavy duty		
7	One (1) extra crossmember shall be supplied within 8" (preferred), of rear of cab to transfer snowplow forces to frame if standard member is not located within this area, state actual dimension		

	Body/Cab	Meets Specification Yes/No	Actual proposed
1	Colour, paint class premium - blue		
2	Hood colour - to match body/cab		
3	Front fender extensions		
4	Plow hood with access to oil		
5	Air ride cab with factory air		
6	Fixed grille		
7	Tilt steering wheel diameter, telescopic, black - 18"		
8	Both driver and passenger to be air suspension high back seats with lumbar support, driver seat to have dual arm		
9	Fully insulated cab (incl. dash, splash and engine cover insulator) with no metal showing, std size rear window		
10	The engine compartment shall be supplied with inner fenders and splash aprons		
11	Cowl mounted, intermittent electric wipers		
12	Cab conventional		
13	Cab rear suspension air bag type		
14	Access cab steel, driver and passenger sides, two steps per door		
15	Arctic wiper blades with arm mounted washer		
16	Air conditioner with integral heater and defroster		
17	Factory installed power driver and passenger windows		
18	Factory installed power door locks		
19	Roof mounted air horn/s		
20	Remote controlled, heated driver and passenger mirrors, both sides - 7.5"x14" flat 7.5"x7" convex		
21	Heated windshield		
22	Right hand down view convex mirror mounted above passenger side window - 4" x 9"		
23	Console, overhead molded plastic with dual storage pockets, retainer nets and CB radio pocket; located above driver and passenger		
24	Dome light, cab door activated and push on-off at light lens, timed theater dimming, centre mounted integral to overhead console		
25	Sun visor (2) padded vinyl; 2 movable (front-to-side) primary visors, driver side with toll ticket strap		
26	Gauge cluster base level; english with metric speedometer and tachometer, for air brake chassis, includes engine coolant temperature, primary and secondary air pressure, fuel and DEF gauges, oil pressure gauge, and 3" monochromatic text display		
27	IP cluster display on board diagnostics display of fault codes in gauge cluster		
28	Grab handles to allow for 'three points of contact' while leaving or entering cab, drivers side to have handle attached to interior of door		
29	First aid kit - #2		
30	Peep window right side		

	Body/Cab, continued	Meets Specification Yes/No	Actual proposed
1	Fire extinguisher (CSA approved)		
2	Safety triangle flare kit		
3	Interior back of cab to be clean and free to allow mounting of various items		
4	Current MVI		
5	Fuel tank, non-polished aluminum, capacity - min. 265 l		
6	Fuel tank to have steps and be mounted below drivers door with minimal extension behind back of cab; preference for max. width steps available, state width		
7	Fender extensions rubber		
	Engine/Transmission		
1	Engine, diesel (Cummins L9 300 or equivalent) EPA 2017, 300 hp @ 2000 rpm, 860 lb-ft torque @ 1300 rpm, 2200 rpm governed speed, 300 peak hp (max), state make and model		
2	Radiator cross flow, series system, 1228 sq. in. aluminum radiator core with internal water to oil transmission cooler and 1167 in charge air cooler		
3	Fan drive (Horton Drivemaster otr equivalent) direct drive type, two speed with residual torque device for disengaged fan speed		
4	Anti-freeze red, extended life coolant, to - 40°C, freeze protection		
5	Block heater, engine 120V/1000W to suit engine supplied		
6	Engine control, remote mounted provision for, includes wiring for body builder installation of PTO controls, with ignition switch control for engine		
7	PTO effects, engine front less PTO unit, includes adapter plate on engine front mounted		
8	Throttle hand control engine speed control, electronic, stationary, variable speed, mounted on steering wheel		
9	Transmission, automatic (Allison 3500 RDS or equivalent), 5th generation controls, wide ratio, 6-speed with double overdrive, with PTO provision, less retarder, include oil level sensor, with 80,000 lb GVW and GCW max, on/off highway		
10	Transmission TCM located inside cab		
11	Allison spare input/output for rugged duty series (RDS), general purpose trucks, construction		
12	Shift control parameters Allison 3000 or 4000 series transmission or equivalent, 5th generation controls, performance programming		
13	Transmission oil synthetic, 29 thru 42 pints		
14	Road speed to be programmed max. 110 kph		

	Exhaust/Air intake	Meets Specification Yes/No	Actual proposed
1	Exhaust system single. Horizontal aftertreatment device, horizontal on cab		
2	Air cleaner single element, with integral snow valve and in-cab control		
3	Inside/outside air intake with in cab controls for snowplows		
	Brakes/Wheels/Tires		
1	ABS full air brake full vehicle wheel control system		
2	Brakes, front, air cam 16.5 x 6 with 24 sq.in. brake chambers with dust shields and automatic slack adjusters		
3	Brakes, rear, air cam S-Cam 16.5 x 7 with dust shields and automatic slack adjusters.		
4	Brake stroke indicator on both wheels		
5	Air compressor, min. 18.5 cfm		
6	Bendix AD-9 air dryer with heater or equivalent		
7	Brake chambers, rear, axle, 30/30 spring brake, Bendix Eversure or equivalent		
8	Air tanks mounted inside frame preferred		
9	Front wheels disc, 22.5x9.00 rims, powder coat steel, 5 hand-hole, 10 stud, 285.75mm BC, hub-piloted, flanged nut, with steel hubs, non standard offset, with 0.5" thick disc		
10	Rear wheels, dual disc; 22.5x8.25 rims, painted steel, 2 hand-hole, 10 stud, 285.75mm BC, hub-piloted, flanged nut with steel hubs		
11	Wheel lug indicators on all wheels		
12	Front tires 315/80R22.5 load range L HSC1, 484 rev/mile, 68 mph, all-position		
13	11R22.5 load range H HDL2, 493 rev/mile, 75 mph, drive		
	Front/Rear axle, suspension		
1	Axle, rear, single (Meritor RS-23-160 or equivalent) single reduction, driver controlled locking (full locking) differential, 200 wheel ends gear ratio 5.63 - 23,000 lb cap.		
2	Suspension, rear, air, single,(Hendrickson PRIMAAX EX or equivalent), 9.0" ride height with shock absorbers - 23,000 lb cap.		
3	Suspension air control valve pressure release control in cab		
4	Axle, front, non-driving (Meritor MFS or equivalent) wide track, I-beam type - min. 20,000 lb cap.		
5	Suspension, front, spring multileaf, shackle type, less shock absorbers - 16,000 lb cap.		
6	Springs, front auxillary rubber		

	Electrical	Meets Specification Yes/No	Actual proposed
1	Heavy duty starter with over-crank protection		
2	Auxiliary harness 3 ft for auxillary front head lights and turn signals for front plow applications		
3	Back up alarm		
4	The ability to read fault codes from the dash		
5	High current body builder outlet at the rear of cab, (left side floor) to allow connection of lights and accessories. Sealed connectors to include tail/amber turn/marker/backup/accessory power/ground, stop/turn.		
6	Factory wired switches for plow and fog lamps. Switches to be labeled and harness to terminate in front of hood to allow connection of lights. Plow light wiring to operate daytime running lights when plow switch is enabled but headlamps are off. Fog lamps enabled on low beam only . Harness to be tagged as to function.		
7	60A battery supplied power terminal in cab		
8	Minimum of one (1) in cab ignition and accessory controlled power supply, minimum 30A		
9	1 in cab electrical stud bus bar or terminal type connection, <i>preferably</i> at fuse panel for minimum of battery, ignition, road speed and ground. Connections are necessary for control of salt spreading equipment. Terminals must be labeled		
10	Trailer brake and 7 pin electrical wiring to end of frame		
11	Starting motor (Delco Remy 38MT Type 300 or equivalent) 12V, less thremal over-crack protection		
12	Switch, auxiliary accessory control, for wiring in roof, with max. 20A load with switches in instrument panel		
13	Turn signals, front includes LED side turn lights mounted on fender		
14	Front end tilting, fibreglass with three piece construction with access door (Plow hood) for Workstar/HV or equivalent		
15	Positive and negative exterior battery boost terminals shall be supplied next to or attached to battery box		
16	Trailer electrical to rear of frame		
17	Trailer air brake connections to rear of frame		
18	AM/FM/WB/clock/bluetooth/USB input/3.5mm auxiliary input, MP3, Apple device play and control, bluetooth for phone and music.		

	Miscellaneous	Meets Specification Yes/No	Actual proposed
1	left intentionally blank		
2	The proponent shall supply manufacturer electronic shop, service, repair and parts manuals for all chassis, cab and power train components.		
3	Supply complete data sheet which consists of part numbers of consumable parts, including but not limited to belts, filters, fluids, alternator, starter etc.		
4	left intentionally blank		
5	There shall be three (3) complete sets of owner's manuals supplied for each vehicle, including one (1) in electronic format (pdf).		
6	State all available extended warranty options (price in Proposal Form). Anticipated vehicle use of 10,000 km/year		
	Spreader Body		
1	BER1127 or equivalent side dump body		
2	Dimensions: L = 149" (132" inside), side panel H= 27", Tailgate H = 39", water level capacity 6.4 cu yds.		
3	Recommended C.A. 102" (single axle) " to be determined by body builder prior to chassis being ordered		
4	10 ga steel stationary R.H. side panel		
5	Front panel, L.H. and R.H. inner panel 3/16"		
6	High strength low alloy steel construction		
7	Floor, tailgate and conveyor cover/floor 3/16" grade 450 steel		
8	Understructure with 10" high structural channels		
9	24" cab protector, 10 ga steel		
10	Rear body hinge and cylinder cradle		
11	Conveyor chain, pintle type, model 88KI, pitch 2.609" 49,000 lb strength		
12	Chain adjustment by means of grease cylinders at front of unit		
13	Tailgate spreader chains		
14	Folding ladder on L.H. side		
15	Gear box 25:1 ratio		
16	Hydraulic motors for conveyor and spinner		
17	3 section type telescopic hoist with ground and polished sections, Mailhot or equivalent		
18	Reloading floor cylinders, piston type, double acting, differential type design		
19	Reloading floor hinges, open slot type with bolted lockout for easy removal stainless steel shaft with grease fittings		
20	Spinner ass'y with poly disc and chute		
21	Two spinner motor hydraulic quick coupler (2 sets)		
22	Adjustable spinner deflector		

Spreader Body, continued		Meets Specification Yes/No	Actual proposed
23	Safety props on dump box and reloading floor		
24	8" stroke D.A. pneumatic tailgate opening device (straight air valve operated) fully adjustable latch system		
25	Central manual lube system for all greasing points of the body (15 points). Intent is to group the greasing points in one location for manual greasing. An automatic greasing system is not required.		
26	Side board pockets		
27	Shovel holder on front panel		
28	Front and rear mud flaps and brackets		
29	Entire body sandblasted and two-part epoxy primer. Finish coat grey urethane		
30	Complete tarpaulin system with in cab control		
31	3 LED lights (amber) installed in each box rear corner post		
32	LED amber rotative beacon or strobe warning light installed on cab protector including support, wiring and in-cab switch		
33	2 auxiliary LED lights, shine either spinner or conveyor		
34	In cab control of spreader body, conveyor, spinner and plow. Floor mounted center console with lever controls for the blade and hitch. Controller to be two function programmable, available manual, Closed or Open loop mode, for controlled application of granular solids in snow and ice control. Bosch Rexroth Compu-Spread CS 520 Solids Controller or equivalent		
Front Hitch			
1	5/8" thick cheek plates and push plates including cross brace and/or alternative structural element		
2	Female quick coupler plow adapter including: protective urethane bumpers, shackles and chain grab link		
3	Power tilt quick hitch for front plow only, including: tilting male coupler provided with large greaseable roller bushings		
4	4" x 12" double acting lift cylinder		
5	1 1/2" x 6" double acting lock up cylinder		
6	Adapter structure		
7	LED headlamps and turn signals		
8	Candy cane' style hitch		
9	Nitrogen suspension system connected to plow hitch lift cylinder to help absorb shock loads transferred to truck front axle, suspension and chassis when plow is in carry position		

	Plow	Meets Specification Yes/No	Actual proposed
1	One-way plow, moldboard style, 38" high (30" intake and 54" at discharge)		
2	Break formed 10 ga steel moldboard		
3	Suitable for city and suburban use with plow working at low and medium speeds		
4	left intentionally blank		
5	1/2", SAE 1090 cutting edge, 132" long, with two moldboard shoes		
6	left intentionally blank		
7	Moldboard final paint coating urethane Black		
8	1/2" thick x 12" wide rubber snow deflector with D ring mounting hardware		
9	One curb shoe on one end		
Hydraulics			
1	Pump, PTO hoses, filter		
2	Hydraulic oil		
3	Valve bank		
4	Hydraulic quick couplers, push-pull type		
5	Front crankshaft mounted		
6	Low oil warning light in cab		