

Ocean County Board of Commissioners

OFFICE OF THE OCEAN COUNTY COMMISSIONERS

Director Gary Quinn Deputy Director Gerry P. Little Commissioner Virginia E. Haines Commissioner John P. Kelly Commissioner Joseph H. Vicari

101 Hooper Avenue Toms River, New Jersey 08754-2191

Tel: (732)929-2005 Fax: (732)505-1918

Board Meeting Agenda

November 17, 2021 - 4:00 PM Date:

Location: Administration Building

Room 119

101 Hooper Avenue Toms River, NJ 08754

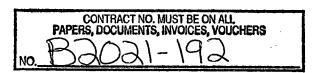
Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER to Robert H. Hoover and Sons, Inc., the sole qualified bidder. (B2021-192)

Official Resolution#			2	202	100	158	38	
Meeting Date			11/17/2021					
Introduced Date			1	1/1	7/2	021	1	
Adopted Date			1	1/1	7/2	021	1	
Agenda Item			k	:-4				
CAF#			Γ					
Purchase Req. #			B2021-192					
Result			Adopted					
COUNTY COMMISSIONER	PRES.	ABS.		MOVE	SEC	AYE	NAY	ABST.
Quinn	~					~		
Little	~					~		
Haines	~			~		~		
Kelly	~					~		
Vicari	~				~	~		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

Michelle 1. Gunther

Clerk Of The Board



RESOLUTION

November 17, 2021

WHEREAS, on October 26, 2021, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER for the County of Ocean; and

WHEREAS, at the advertised time, one response was received from the following bidder:

Name of Bidder

Robert H. Hoover and Sons, Inc.

Address of Bidder

149 Gold Mine Road Flanders, NJ 07836 (973) 347-4210

; and

WHEREAS, after the receipt and examination of same, the County Purchasing Agent has now recommended to this Board that the sole qualified bid, according to specifications, namely that of, ROBERT H. HOOVER AND SONS, INC. be accepted.

NOW, THEREFORE, BE IT RESOLVED by the BOARD COMMISSIONERS of the COUNTY OF OCEAN, STATE OF NEW JERSEY, as follows:

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract accepting the bid for the furnishing and delivery of MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER for the County of Ocean, for the contract period from date of award through November 16, 2022, a period of one (1) year or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15, as follows:

Introduced on: Adopted on: Official Resolution#: 2021001588

November 17, 2021 November 17, 2021

ROBERT H. HOOVER & SONS, INC. for nine (9) items, to wit:

<u>ITEM NOS.</u> 1, 1a, 1b, 1c, 1d, 1e, 1f, 1g and 1h.

For a Total Lump Sum Award of Item #'s 1 - 1h of \$2,108,363.50.

This vendor has extended this contract to County Cooperative Contract System Participants.

- 2. Payments for the equipment and services to be acquired by this contract shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.
- 3. Funds for the equipment and services shall be available within the following funding Source: County Road Department and Vehicle Services Department O.E.
- 4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2021-192.
- 5. BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, County Department of Purchasing, Department of Finance, County Road Department, Vehicle Services and Robert H. Hoover & Sons, Inc., the successful bidder.

Introduced on: Adopted on: Official Resolution#: 2021001588 PROPOSAL DOCUMENT REPORT Bid No. TBD

MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER

Confirmed

14. Submission of Bid Package*

By submitting a response to this solicitation, the Vendor understands and acknowledges that all required documents to this solicitation must be submitted and that failure to do so may be cause for rejection.

Bidder also understands that only one (1) bid submission shall be considered. Please DO NOT Submit a manual bid response. Submitting a manual response in addition to the electronic response is cause for rejection of your bid.

Confirmed

PRICE TABLES

ITEM # 1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

	Line Item	Description	Qty.	Max Qty.	Unit of Measure	Unit Cost	Total	Comments
/	1	Model Year 2022, or Newer, 6 Yard Dump with Plow and Spreader, As Specified, or Equal	1	10	EA	\$186,786.00	\$1,867,860.00	
	OPTIONS							
/	1a	Freedom 2.2 Spreader Control, As Specified	1	10	EA	\$2,812.50	\$28,125.00	
/	1b	Larger Dump Body, As Specified	1	10	EA	\$795.00	\$7,950.00	
\checkmark	1c	Paint for Dump Body, As Specified	1	10	EA	\$2,651.75	\$26,517.50	
/	1d	Road Department Paint Color Scheme, As Specified	1	10	EA	\$1,426.00	\$14,260.00	
/	1e	Diagnostic Tools/Test Equipment, As Specified	1	3	SET	\$20,417.00	\$61,251.00	
	1f	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	1	10	EA	\$500.00	\$5,000.00	

ROBERT H. HOOVER & SONS, INC.

Res-Pg:k.4-5

PROPOSAL DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER

Line Item	Description		Oty.		Unit of * Measure	Unit Cost.	Total	Comments
. 1g	Installation of County-Supply Two Way Radio Accessories, As Specified	; [1	10	EA	\$740.00	\$7,400.00	
1h	Technical Support, As Specified	,	1	180	EA	\$500.00	\$90,000.00	
TOTAL	<u></u>						<u> </u>	

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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL

Year, Mfr., Model: 2023 Freightliner 114SD

Engine: Cummins L9

Transmission: Allison 3500 RDS Delivery, A.R.O.: 300 Days

Warranty: 1 Year Basic and Extended

Warranty Per Specs

STAINLESS STEEL

DUMP BODY

Mfr., Model: Galion 433FT

Warranty: 1 Year

PLOW SYSTEM

Mfr., Model: ARM SPX 050

Warranty: 1 Year

UNDER TAILGATE

SPREADER

Mfr., Model: Meyer BL960

Warranty: 1 Year

HYDRAULIC

SYSTEM

Mfr., Model: Certified Power

Signal Andrews Co.

Hydraulics

Warranty: 1 Year

CAB AND CHASSIS SPECIFICATIONS	COMPLIAN YES	NO NO
General Chassis designed for heavy-duty general use of a dump, snow plow and spreader truck with appurtenances	\boxtimes	
Set back axle truck package with a minimum bumper-to-back-of cab measurement of 114". Axle setback to provide the best turning radius possible.		
Intended Service: Dump Truck	\boxtimes	
Cab to Body Clearance: 3 inches	\boxtimes	
Front Axle Capacity: 16,000 lbs.	\boxtimes	
Rear Axle Capacity: 25,000 lbs.	\boxtimes	
Expected GVW Capacity: 40,020 lbs.	\boxtimes	П

ITEM#16-TOMODEJ OVERAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED OR EQUAL (CONT'D)
Official Resolution#: 2021001588

ROBERT H. HOOVER & SONS, INC. MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER	Resigno	<u>ICE</u>
CAB AND CHASSIS SPECIFICATIONS (CONT'D) Engine	YES	<u>NO</u>
Cummins L9, minimum 300 HP @ 2,200 RPM and 860 lbft. torque @ 1,200 RPM. Shall be in-line 6 cylinder of wet sleeve design, and 50 State certification and electronics for simple service and diagnosis when needed. Minimum displacement shall be 8.9 liters. Engine must comply with latest federal mandate for diesel emissions. Should an alternate power plant be offered, the bidder shall provide all necessary technical data to show proof of equality.		П
Stainless steel oil pan and hardware	\boxtimes	
Engine Equipment Engine must have latest diesel emission certification and OBD		
Regen inhibit speed threshold-5 MPH PTO engine RPM Limit 2,400 RPM	\boxtimes	
Enable regeneration in PTO mode	\boxtimes	
No PTO mode cancel vehicle speed	\boxtimes	
Oil check and fill: engine mounted	\boxtimes	
Alternator: 160 amp DR 28 SI brushless Quadra-mount with remote battery volt sense		
Batteries: Two (2) 12-volt GNB Maintenance Free 2050 CCA	\boxtimes	
Battery Box: Plastic, frame-mounted, left side under cab	\boxtimes	
Positive and negative posts for jumpstart located on frame next to starter	\boxtimes	
Positive load disconnect switch mounted outboard of driver seat. Must be protected from bottom of cab.		
Compressor: 18.7 CFM	\boxtimes	
Discharge line: Teflon	\boxtimes	
Engine Protection: electronic engine-integral warning system with shut down function	\boxtimes	
Engine brake: Cummins exhaust brake	\boxtimes	
Exhaust: Single right-hand under step mounted horizontal after-treatment system with diamond plate cover and cab access steps		
Fan Drive: Horton air on/off drive automatic fan control	\boxtimes	
Oil filter: full-flow	\boxtimes	
Fuel filter	\boxtimes	
13 gallon diesel exhaust fluid tank shall be full of fluid at delivery	\boxtimes	
Non-polished aluminum diamond plate diesel exhaust fluid tank cover	\boxtimes	
ITEM#1666 MODELOWEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PL SP\$TATER, AS SECTETED OR EQUAL (CONT'D)	OW AND	

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ROBERT H. HOOVER & SONS, INC. MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER	Res COMPLI YES	igeg:k:4 ₁ 8 <u>IANCE</u> <u>NO</u>
CAB AND CHASSIS SPECIFICATIONS (CONT'D)	220	110
Engine Equipment (Cont'd) Radiator	\boxtimes	
Heavy-duty coolant: -34 degrees Fahrenheit extended life with coolant filter	\boxtimes	
Constant-torque clamps: constant torque for coolant hoses 1-3" diameter	\boxtimes	
Engine Heater: Phillips 1,000W/115V	\boxtimes	
Chrome heater receptacle: mounted under driver's door	\boxtimes	
Flywheel housing: Aluminum	\boxtimes	
Air intake warmer Starter: Delco 12V 39 MT HD with OCP and magnetic switch		
Transmission and Equipment Transmission: Allison World RDS 3500 six-speed electronic automatic with PTO provision, six (6) forward gears and one (1) reverse gear. Six-speed transmission programming (223) Programmed to unlimited output speed	\boxtimes	
Vehicle interface wiring, Magnetic engine drain, transmission and rear axle fill and drain plugs		
Vehicle interface wiring with body builder connector mounted back of cab	\boxtimes	
Electronic transmission customer access connector	\boxtimes	
Underslung or overslung frame cross-member at transmission mount	\boxtimes	
Trans oil check and fill with electronic oil level check	\boxtimes	
Transmission cooler: heavy-duty water-to oil in radiator end tank		
PTO mounting LH side of transmission	\boxtimes	
Front Axle and Equipment Detroit DA-FS-16.0-572KPI/3.74 drop, minimum capacity @ ground of 16,000 lbs.	\boxtimes	
Set Back Front Axle Design Front brakes: Meritor cam 16.5 x 6" Q+ cast spider cam with dust shields Front brake lining: non-asbestos		
Front brake drums: Conmet outboard-mounted cast-iron	\boxtimes	
Front oil seals	\boxtimes	
Synthetic 75W-90 front axle lube	\boxtimes	
Front hubcap: Vented oil-type with window center and side plugs		
Front slack adjusters: Meritor	\boxtimes	
ITEMattled MODEL VEDAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH SPRIP POPER, AS SPECIFIED OR EQUAL (CONT'D)	PLOW AND	

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ROBERT H. HOOVER & SONS, INC. OTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER		eseP49;k34-9 LIANCE
	<u>YES</u>	NO
CAB AND CHASSIS SPECIFICATIONS (CONT'D)		
Front Axle and Equipment (Cont'd) Power steering pump: TRW TAS-85	\boxtimes	
Power steering reservoir: 4-quart	\boxtimes	
Suspension bushings: graphite bronze with seals	\boxtimes	
Front suspension: flat-leaf springs rated @ 16,000 lbs. minimum	\boxtimes	
Front shock absorbers	\boxtimes	
Rear Axle and Equipment Meritor RS-25-160 series with .63 thickness housing, 25,000 lbs. with 18" ring gear minimum	\boxtimes	
Rear axle ratio: 5.63	\boxtimes	. 🗆
Rear axle carrier housing: heavy-duty iron	\boxtimes	
Main driveline: MXL176T Meritor extended lube with half-round yokes	\boxtimes	
Driver controlled traction differential with driver controlled differential lock rear valve with dash-mounted switch and blinking indicator lamp, differential unlock with ignition off, active @ 5 MPH	 X	
Lubrication: Synthetic 75W-90 rear axle lube	\boxtimes	
Rear Brakes: Meritor cam 16.5 x 7" P cast spider heavy duty double anchor fabricated shoes	\boxtimes	
Rear axle brake linings: non-asbestos with dust shields	\boxtimes	
Rear brake drums: Webb HW outboard-mounted cast iron	\boxtimes	
Brake cams and chambers on forward side of drive axle	\boxtimes	
Rear axle oil seals	\boxtimes	
Parking brake chambers: Bendix Eversure Longstroke spring parking brake chambers	\boxtimes	
Rear axle Automatic slack adjusters: Haldex	\boxtimes	
Rear Suspension: 26,000 lbs. Flat leaf with helper and radius rod	\boxtimes	
Fore and aft control rods	\boxtimes	
Axle clamp: Standard U-bolt pad	\boxtimes	
Brake System Equipment Brake Package: Full air	\boxtimes	
Anti-lock brake system: Wabco four-channel, 4-sensor/4 modulator, with-out traction control enhancement	\boxtimes	
Introduced on MODES TEAR 2822, OR NEWER, 6 YARD DUMP TRUCK WITH PI SPREADER; AS SPECIELD, OR EQUAL (CONT'D)	LOW AN	<u>√D</u>

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CAB AND CHASSIS SPECIFICATIONS (CONT'D) Brake System and Equipment (Cont'd)	YES	NO NO
Chassis air lines: reinforced nylon, fabric braid and wire braid depending on location	\boxtimes	
Brake relay valve with 5-8 PSI crack pressure	\boxtimes	
Air dryer: Bendix AD9SI heated air dryer mounted inboard on LH rail	\boxtimes	
Air reservoirs: Aluminum	\boxtimes	
Air tank drain valves: Pull cables on all air tanks	\boxtimes	
Clear frame rails BOC to front of rear suspension both rails outboard	\boxtimes	
Quick disconnect fitting w/50' of 200 PSI hose for tire inflation	\boxtimes	
Trailer airbrake package with airlines to back of truck	\boxtimes	
Frame and Wheelbase Wheelbase: 150"	\boxtimes	
Cab-to-Axle: 84"	\boxtimes	
Frame: 2,592,000 RBM, 7/16" x 3 9/16" x 11 1/8" heat treated steel, 120,000 KSI yield strength single channel, double frame is not acceptable due to rust perforation of inner frame splayed frame shape at front with 24" front frame extension	. 🖂	- <u> </u>
End of frame: Square-cut	\boxtimes	
Rear Suspension Cross Member: Standard heavy-duty C-channel	\boxtimes	
<u>Chassis Equipment</u> Front bumper: 14" steel 3/8" or Custom for snow plow mounting	\boxtimes	
Front tow hooks: Two (2) frame mounted	\boxtimes	
Fender and front of hood mounted front mud flaps Front license plate bracket included	\boxtimes	
Chassis Fasteners: Grade 8 threaded Hex	\boxtimes	
Fuel Tanks and Equipment Left hand fuel tank: 60-gallon, must be constructed of aluminum to preclude exterior corrosion and interior fuel contamination	\boxtimes	
Fuel tank: 25" diameter	\boxtimes	
Fuel tank and band finish: Polished stainless steel bands with plain aluminum tank	\boxtimes	
Fuel tank orientation: Forward mounted under cab	\boxtimes	
Fuel tank cap: Standard, non-locking	\boxtimes	
Fuel/water separator: With heated bowl and primer pump		
/ ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PI SPREADER, AS SPECIELED OR EQUAL (CONT'D)	LOW AND	

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Official Resolution#: 2021001588

MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER	Resage COMPLIAN YES	
CAB AND CHASSIS SPECIFICATIONS (CONT'D)	<u> </u>	<u> </u>
Fuel Tanks and Equipment (Cont'd) Fuel hoses: Nylon high temperature reinforced	\boxtimes	П
Front Tires, Hubs and Wheels	<u> </u>	_
Front Tires: Michelin XZU-S 315/80R x 22.5 20 Ply	\boxtimes	
Front Hubs: Conmet pre-set bearing iron (aluminum hubs are not acceptable)	\boxtimes	
Front Wheels: Accuride model 29039 5-hand 5.25 inset 10-bolt hub-pilot 22.5" x 9.00" steel disc	\boxtimes	
Front wheel nuts: Hub-pilot with flat flange	\boxtimes	
Rear Tires, Hubs and Wheels Rear Tires: Michelin XDS-2 11R22.5 16-ply	\boxtimes	
Rear hubs: Conmet pre-set bearing iron (aluminum hubs are not acceptable)		
Rear wheels: Accuride model 28828 2-hand hole 10-bolt hub-pilot 22.5" x 8.25" steel disc wheel	\boxtimes	
Rear wheel nuts: hub pilot with flat flange	\boxtimes	
Wheel check high visibility green loose wheel nut indicator on all wheels	🖾	- 🗆
Spare Tires to be Included One (1) spare front tire mounted to wheel to match specified front wheels and tires	\boxtimes	
One (1) spare rear tire mounted to wheel to match specified rear wheels and tires	\boxtimes	
Cab Exterior Cab: 114" BBC conventional aluminum and/or steel cab, one-piece heated windshield, adjustable doors with concealed hinges, fiberglass hood and split fenders with splash shields that lift away from the engine compartment when the hood is tilted. Entry and egress shall be made via a 3-point system consisting of self-cleaning non-slip steps and a minimum of two (2) grab handles on each side for the operator and passengers to utiliz one on the inside of the door, and one on the cab exterior to the rear of the door. The step shall be a minimum of 4" wide and the grab handles must be large enough to be safely grasped by one wearing heavy-duty work gloves.	ze, ps ⊠	
Cab mounts: Air	\boxtimes	
Bug Screen: Non-removable mounted behind grille	\boxtimes	
Grab handles: Exterior LH/RH		
	\boxtimes	
Grille: Stationary Grille Hood: Fiberglass		
Air Horn under deck		
Electronic horns: Dual	\boxtimes	
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CAR AND CITAGGIG ONE CITE CAMIONG (CONTEND)	YES	NO
CAB AND CHASSIS SPECIFICATIONS (CONT'D)		
<u>Cab Exterior</u> (Cont'd) Key and Lockset: All trucks and all locks keyed the same with six (6) keys per unit	\boxtimes	
Headlights: Single halogen composite with bright bezels, headlights on with wipers	\boxtimes	
Marker lights: aerodynamic LED Stop/Tail/Turn lamps at end of frame LED integral	\boxtimes	
Primary mirrors: Dual west coast bright finish with heater LH & RH remote	\boxtimes	
Mirror Mounting: Mirrors mounted on doors	\boxtimes	
Auxiliary mirrors: 8" convex bright finish mounted under primary mirrors both sides	\boxtimes	
Rear window: Tinted safety glass	\boxtimes	
Door windows: Tinted with lowered bottom beltline for increased sideward visibility and operating wing windows LH & RH	\boxtimes	
Door window regulators: Electric	\boxtimes	
Windshield: 1 piece tinted and heated	\boxtimes	
Windshield washer reservoir with fluid level indicator	- <u> </u>	
Cab Interior Interior Level: Gray vinyl interior	\boxtimes	. 🗆
Interior convenience package roof mounted console with additional center compartment with CB provision		
LH upper door trim: Molded door panel	\boxtimes	
RH upper door trim: Molded door panel	\boxtimes	
Map pockets: LH door, forward roof mounted console, and upper storage compartments	\boxtimes	· 🔲
Dash mounted 12 volt power supply	\boxtimes	
Smart switch expansion module	\boxtimes	
Cup Holder		
Air Conditioning	\boxtimes	
Main heater/vent control: Main HVAC with recirculation switch	\boxtimes	
HVAC ducting for fresh air intake with snow shield	\boxtimes	
Heater plumbing: Standard without ball shut off valves	\boxtimes	
A/C compressor: heavy-duty	\boxtimes	
A/C condenser: Radiator mounted Introduced on: November 17, 2021 Adopted on: November 17, 2021 Official Resolution#: 2021001588		
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SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

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	COMPLIA	ANCE	
CAD AND CHARGE CHECKER (ADVONG (CONTEND)	<u>YES</u>	<u>NO</u>	
CAB AND CHASSIS SPECIFICATIONS (CONT'D)			
Cab Interior (Cont'd) A/C plumbing; binary control with R134A refrigerant	\boxtimes		
Cab Insulation Package: Standard	\boxtimes		
12V negative ground electrical system	\boxtimes		
Interior lights: Dome door activated LH & RH	\boxtimes		
Cab door locks: Electric	M		
Driver seat: Elite high-back air suspension with 2 chamber air lumbar/heat, integrated cushion extension forward and rear cushion tilt, adjustable shock absorber with dual driver seat arm rest	\boxtimes		
Passenger seat: Elite high-back air suspension with 2 chamber air lumbar/heat, integrate cushion extension forward and rear cushion tilt, adjustable shock absorber with dual arm rest			
Driver seat cover: Vinyl	\boxtimes		
Seat belts: 3-point adjustable D-ring retractor for outboard seating positions	— <u> </u>		
Steering column: Tilt	\boxtimes		
Interior sun visors: Standard driver and passenger	\boxtimes		
First Aid kit	\boxtimes		
5 lb. Fire extinguisher	\boxtimes		
Triangular Reflector kit			
Instrument Panel and Controls Gauge package: Electronic	\boxtimes		
Gauge finish: Black bezels	\boxtimes		
Low air pressure warning: Light and buzzer	Ø		
Air system pressure gauge with primary and secondary gauges	\boxtimes		
Cruise control	\boxtimes		
Starter control: key-controlled	\boxtimes		
LCD odometer, trip odometer, hour meter and voltmeter			
Diagnostic Interface connector: Located below dash	\boxtimes		
Fuel level gauge: Electric	\boxtimes		
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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

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CAB AND CHASSIS SPECIFICATIONS (CONT'D)	<u>YES</u>	<u>NO</u>
Instrument Panel and Controls (Cont'd)		
Transmission temperature gauge	\boxtimes	
Hour meter: Integral with driver display	\boxtimes	
Engine oil pressure gauge: Electric switch with indicator lamp	×	□РТО
Radio: AM/FM WB with front auxiliary input	\boxtimes	
Radio speakers: Two (2)	\boxtimes	
Radio antenna	\boxtimes	
Speedometer: Electronic, MPH scale	\boxtimes	
Tachometer: Electronic, 3000 RPM	\boxtimes	
Digital Voltage Display: Integral with driver display	\boxtimes	
Windshield wiper control: Electric 2-speed with variable intermittent settings	\boxtimes	
Snow plow light must be activated through OEM chassis wiring		
Six (6) on/off rocker switches in the dash with indicator lights	\boxtimes	
Parking brake system: 2-valve system with warning indicator	\boxtimes	
Turn signal switch: Self-cancelling with brake overriding stop lamps	\boxtimes	
Paint Paint type and color: Basecoat clear coat paint; color to be selected from standard col chart at time of order	lor	
Paint design: Standard	\boxtimes	
Chassis color: Black Polyurethane	\boxtimes	
Bumper color: Black	\boxtimes	
Front and Rear wheel color: Powder-coated black		
Undercoating Entire truck chassis, underside of cab and underside of added body, oil pan (dump, utility, platform) to be coated with Tectyl 2423 haps free black	_	_
Which is a low VOC, high solids, emulsion corrosion preventive coating, or equal	\boxtimes	
Accessories One (1) complete set of filters for cab/chassis, drive train and upfit	\boxtimes	
Five (5) gallons of recommended-use hydraulic fluid	\boxtimes	
Introduced on: November 17, 2021 Adopted on: November 17, 2021 Official Resolution#: 2021001588		

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

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	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER</u>	5	
LESS MODEL 433U STAINLESS DUMP BODY Manuals		
The end unit shall be delivered with the following items:		
One (1) fire extinguisher, interior mounted	\boxtimes	
One (1) complete set of all fluid filters, air filters and belts for engine, transmission, final drives, mounted equipment, optional equipment, and all accessories that have replaceable filters		
Three (3) complete sets of mechanic's "shop", service and troubleshooting USB's for chassis, engine, transmission, optional equipment, mounted equipment and accessories, including wiring diagrams. Parts manuals shall be in USB format (First ordered unit only)	\boxtimes	
Three (3) sets of Manufacturer's Line Setting Sheets for chassis, mounted equipment, and optional equipment	\boxtimes	
One (1) "Build Book" per unit ordered. This Build Book shall include the brand, model, part number and serial number for the following items/systems: Hydraulic Control Valve Hydraulic Control Cables; Hydraulic Reservoir; Plow; Spreader; Optional Freedom 2.2 Spreader Control (if ordered); PTO and Pump; Tarp System: Dump Body. A sample of this build book will be available to view during pre-build meeting.		/
General The dump body required under these specifications shall be constructed of 304-2B stainle steel. Unit shall consist of a heavy duty body, hydraulic hoist, hydraulic pump, cab shield safety accessories, and all other components necessary to make up a complete operating unit. The body and hydraulic hoist shall be manufactured by the same company. Hoist shall be Class 50 NTEA rated telescopic.	1 ,	
Minimum Body Dimensions		
Inside Length: 10'6"	\boxtimes	
Inside Width: 84"	\boxtimes	
Overall Width: 96"		
Side Height: 26"	\boxtimes	
End Height: 36"	\boxtimes	
Rear Post Height: 36"		
Capacity: 5.9/6.8 Cubic yards water level	\boxtimes	
Cab Shield: 10 Gauge 304-2B, ½" x 90" Integral cab shield	\boxtimes	
Minimum Body Construction	_	_
Sides: 7 gauge 304-2B stainless steel with formed sloping dirt shedding bottom rail		
Adopted on: November 17, 2021 Board: involved sets such 4: 2021 of Ass 04-2B side board pockets for 4" wood	\boxtimes	

Res-Pg:k.4-16

/ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

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•		COMPLIANCE	
	YES	<u>NO</u>	
DUMP BODY SPECIFICATIONS - GALION HEAVY DUTY CROSS-MEMBER-	:		
LESS MODEL 433U STAINLESS DUMP BODY (CONT'D) Minimum Body Construction (Cont'd)			
Front/Tailgate: 7 GA 304-2B stainless steel	\boxtimes		
Floor: Hardox 3/16" AR450 180,000 PSI steel with 2" side to floor radius	\boxtimes		
Top Rail: 7 GA 304-2B stainless steel with formed in dirt shedding box top rail	\boxtimes		
Side Braces: One (1) pressed outward "V" per side	\boxtimes		
Oak Wood Side Boards: 2" x 4" side boards shall be placed on both sides of dump body	\boxtimes		
Front Corner Post: 6" wide x 7 GA 304-2B	\boxtimes		
1 ½" x 3/8" Tarp Rail: Full length stainless both sides (round bar not acceptable)	\boxtimes		
Grip strut stainless steel rail – length of body at base	\boxtimes		
Rear Corner Post: 15" wide full depth x 7 GA 304-2B	\boxtimes		
15" Full Depth Rear Bolster: 7 GA 304-2B stainless steel Tailgate: 7 GA 304-2B stainless steel. Full perimeter box bracing, two intermediate	. ⊠	□	
vertical braces and one intermediate horizontal brace			
Six (6) panel double-acting tailgate with two sets of stainless steel banjo plates and long chains to allow tailgate to lie down horizontal with floor (Banjo eyes punched in rear post not acceptable). Steel D-ring inside top center of tailgate for removing tailgate			
Heavy duty stainless steel "tarp friendly" top hardware with grease fittings and chains on top pins to prevent loss of them if removed. 1" overshot lower hardware	\boxtimes		
Tailgate release handle left front corner with chain & ring to lock handle closed. 5/8" release rod down left side alongside of long sills with enough gussets to prevent sagging	\boxtimes		
3/8" spreader chains to be bright zinc plated steel covered with Naltex protection covering	\boxtimes		
Crossmembers: None	×		
Longsills: 10" @ 25.5# I-beam long sills	\boxtimes		
Lighting: STD FMVSS 108 LED lights/reflectors. Must have one (1) oval LED Stop/Tail/Turn in each rear corner post. Three (3) 1" clearance lights mounted in pull plate	\boxtimes	П	
in back of truck			
Body Up Indicator Light: As required by OSHA			
Underbody: Black			
Welding: Continuous exterior welding required (skip welding or caulking not acceptable). All wolds, must, be cleaned at factory to remove all burn marks. Adopted on: November 17, 2021 Official Resolution#: 2021001588	\boxtimes		

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIANCE	
	<u>YES</u>	<u>NO</u>
DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER	<u> </u>	
LESS MODEL 433U STAINLESS DUMP BODY (CONT'D) Minimum Hoist Requirements		
Hoist shall be Class 50	\boxtimes	
Trunnion mounted to the body with the largest diameter of the cylinder at the bottom for increased stability	\boxtimes	
The front head sheet of the body shall be of one piece and be of a height sufficient for hoist and have a dog house 10" deep by 20" wide	\boxtimes	
All tubing sections of the cylinder shall be salt bath nitrided for superior corrosion resistance, increased hardness and durability	\boxtimes	
U-cup type seals shall be positioned in the gland nuts of each section with a wiper installed above each seal to keep contaminants out	\boxtimes	
When the tubes retract, they shall be surrounded by oil below the U-cup seals	\boxtimes	
An outer-cover shall enclose the cylinder while not in use	X	🗓
Through means of the oscillating collar attached to the bottom of the outer cover, the body can be offset to one side 5 to 7 degrees without side loading the cylinder	\boxtimes	
Cylinder first moving stage, 4 ½" O.D.	\boxtimes	
Three (3) stages with 100" stroke	\boxtimes	
Operating pressure, 2,000 PSI		
One (1) body prop	\boxtimes	
Miscellaneous Tailgate spreader chain kit	\boxtimes	
One (1) oval Stop/Tail/Turn light cutouts in rear corner post	\boxtimes	
Wiring for standard dump body lights enclosed in a sealed waterproof wiring harness. Split loom not acceptable	\boxtimes	. 🗆
Body and hoist shall come complete with manufacturer's safety decals and operating Instructions	\boxtimes	
Body and hoist warranted to be free from defects in material and workmanship under normal use and service for a period of five (5) years	\boxtimes	
One (1) stainless steel grab handle, driver side front	\boxtimes	
Stainless steel side ladder; slide out; 2 step. Location to be determined by County.	\boxtimes	
3 Maraflegtine tape non-hoth sides of body and on 6-panel tailgate Adopted on: November 17, 2021 Official Resolution#: 2021001588	\boxtimes	

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SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	YES YES	NO NO
DUMP BODY SPECIFICATIONS – GALION HEAVY DUTY CROSS-MEMBER	<u>-</u>	
LESS MODEL 433U STAINLESS DUMP BODY (CONT'D)		
Miscellaneous (Cont'd) Safety lock pins at lower tailgate hardware		
Accessories Back-up Alarm: Electric with minimum decibel level 97 DBA, 12-volt	\boxtimes	
Safety Lighting: Six (6) LED amber strobe lights. Two (2) recessed into rear post, two (2) sides of cab shield and two (2) front of cab shield	\boxtimes	
All body lights shall be LED		
Spreader light at rear mounted to body, not spreader		
30-ton pintle hook ³ / ₄ " pull plate with 5/8" D-rings	\boxtimes	
7-way round trailer Pollak type plug with a removable end	\boxtimes	
One (1) set of Meyer Saber plow lights mounted on hood of chassis with stainless steel mounts. Location to be determined by County.		
Two (2) forward facing strobe lights mounted on snow plow lights bracket to be powere by its own switch	d ⊠	
Electric brake controller to control 7-way flat trailer Pollak type plug with a removable end	\boxtimes	
Glad hand at rear of pintle hook. Location to be determined by County.	X	
PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS Side Mount- Steel Framework	\boxtimes	
Roller Assembly – Telescopic – 3-piece	\boxtimes	
Left Roller Tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with bushing and stainless steel roll pin to accept motor shaft	⊠ .	
Right Roller Tube: 2.140 O.D. x 2.000 I.D. 6105-T6 aluminum extrusion with bushing. 1" O.D. 6061-T6 aluminum shaft and stainless steel roll pin	\boxtimes	
Center Section: 1.960" O.D. x 1.820 I.D. 6105-T6 aluminum extrusion	\boxtimes	
Bearing Plates: ¼" H.R.S.	\boxtimes	
Bearings: Flange Mounted Sealed Ball Bearings	\boxtimes	
Roll Mounting Angles: 1 ½" x 2" x ¼" Steel Angle	\boxtimes	
Direct Drive Gear Motor: Mounted directly to left side roller Adopted on: November 17, 2021 Adopted on: November 17, 2021 Official Resolution#: 2021001588	\boxtimes	

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANO</u> <u>YES</u>	<u>CE</u> <u>NO</u>
PIONEER MODEL EDD 1500D 8/15' TARP SPECIFICATIONS (CONT'D) Worm & Wheel Configuration: Permanently lubricated sealed gearbox. 90 to 1 Ratio	\boxtimes	
Output shaft shall be supported by ball bearings on both ends. Output shaft shall be directly coupled to left side roller. Electric motor is .85 horsepower. Aluminum gearbox housing. Plastic protective cover. ¾" O.D. output shaft. Motor is thermally protected by automatic resetting circuit breaker.		
Pivot Arm Framework Pivot Arms: 1.745" O.D. x 1.405" I.D. 6105-T6 Aluminum Extrusion with .250 W X .94 L reinforcing fin on one side and .75 W x .50 L reinforcing block on other side. Overall height to be 3.185"		
Rear Section: 1 3/4" O.D. x 170 wall 6061-T6 Aluminum Extrusion	\boxtimes	
Bows: 1 3/8" O.D. x .125 wall 6105-T4 Aluminum Extrusion	\boxtimes	
Arm Mounting Brackets: Steel Weldment	\boxtimes	
Base Plate: ¼" H.R.S.	<u> </u>	
Mounting Hub: 4" O.D. steel tube	\boxtimes	
Spring: Reverse wound torsion spring – ½" diameter wire	\boxtimes	
Wire per ASTM A229 Class I	\boxtimes	
Fabric 100% Polyester, 1000 Denier, Black HD mesh, 13 oz. per square yard	\boxtimes	
Construction Seamless front to rear, rectangular in shape, 85" wide, grommets on front & sides, pocket at rear		
Wiring and Electrical All wire shall be 8 gauge stranded cable, all connectors shall be ring type. High amperage self-centering rotary switch (Momentary On/Off – Momentary On). Thermal reset circuit breaker (Auto Reset).	e :	

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE YES NO

CENTRAL HYDRAULIC MANUAL SYSTEM - STAINLESS ENCLOSURE

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The PTO shall be of a hot shift design driven off the Allison automatic transmission. The PTO shall have a direct mount rotatable pump flange. There shall be a console mounted rocker switch to engage and disengage the PTO.

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<u>Pump</u>

PARKER P20A346JEAL17-25

The pump shall be a cast iron, positive displacement, gear type pump. The pump shall feature pressure balanced, bronze wear plates and Teflon bushings. Pump shaft shall be a 7/8' 13 spline shaft to couple with PTO. Pump size shall be 3.44 cubic inches of displacement.

Control Valve

The control valve shall be a cast iron, sectional type spool valve. Valve shall have a priority inlet with adjustable flow control and adjustable main relief. The hoist section shall incorporate an auxiliary relief for the dump hoist down function. The Priority flow from inlet shall run to a combined flow section upstream of spreader section to ensure seamless operation of spreader during winter operations. The valve shall have a nominal flow rating of 20 GPM with flows to 30 GPM available with a pressure drop not to exceed 140 PSI.

Valve shall be a Parker-Gresen model V-20. Use of external flow dividers is unacceptable.

Valve shall be arranged as follows: 1 - Priority flow inlet; 2 - DA Hoist with 500 down side relief; 3 - DA Plow Raise; 4 - DA Plow Angle; 5 - Combined flow section; 6 - Combined much detent and reverse

\boxtimes	

Spreader Control

The spreader control shall be a dual knob valve with on/off handle.

The spreader valve shall have individual flow adjustment knobs for the spinner and auger. Spreader valve shall include a relief cartridge to protect the motors in the event of a material jam. Valve shall feature spinner priority to reduce material pile up from the auger at low flow conditions. ½" JIC Bulkhead fittings shall be drilled through frame rail to accommodate a short jumper hose with quick disconnects mounted to body.

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SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE YES NO \boxtimes

CENTRAL HYDRAULIC MANUAL SYSTEM - STAINLESS ENCLOSURE (CONT'D)

Cable Controls

The control valve shall be shifted via sealed cable assemblies. The cable assembly shall feature a polyethylene conduit with armor over braid and Teflon liner. Cable assembly shall be rated for a minimum of 100 lbs. pull and 80 lbs. push. Cables shall be attached to the hydraulic valve by a bonnet type connection with clevis pin and locking clips. Cable shall be attached to an in cab handle. The handle shall be mounted in a location convenient to the operator. The handle shall feature cast base construction with steel internal parts and be rated for 80 lbs. of output force. A knob with identification label shall be attached to the end of the handle.

Reservoir/Valve Enclosure

Reservoir must be constructed of 7 GA stainless steel. Reservoir/valve enclosure must be 30-gallon capacity with an integrated covered mounting area for the valve. All plumbing for the hydraulic valve inside the enclosure shall be SAE rated stainless steel tubing and terminate on the front of the reservoir with JIC bulkhead connectors. The breather cap shall be mounted to an inspection lid. Inspection lid shall also provide for an in-tank mounted return line filter. The filter assembly shall incorporate a 10 micron 50 GPM filter element with a 25 PSI bypass. The reservoir shall include a twist off filler/ breather assembly with 40 micron vent filter and a fill screen. Reservoir shall be complete with a sight temperature gauge and a magnetic drain plug. Suction port shall allow for installation of a 2" NPT 50 GPM suction screen. Suction screen shall have a 3 to 5 PSI by-pass spring. A 2" full flow ball valve shall be installed in the suction line. Removing of a lid to access the filter and breather cap is not acceptable. The reservoir shall have a float switch to control PTO operation in the event of low oil. \boxtimes

SPX 050 AMERICAN ROADS TRITON SNOW PLOW STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW **SPECIFCATIONS**

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Moldboard Specifications

Moldboard length of 11 feet

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Moldboard height of 42 inches

 \boxtimes

Moldboard material shall be 10 gauge carbon steel smooth rolled profile providing ultra-smooth surface for snow deflection

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COMPLIANCE STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFCATIONS (CONT'D) Moldboard Specifications (Cont'd) Overhang from cutting edge shall have minimum 12" overhang with 10 degree attack \Box \boxtimes angle Top of moldboard shall be reinforced by 2 ½" x 2 ½" x 3/8" angle iron X Bottom of moldboard shall be reinforced by 4 x 4 x 3/4" angle iron and drilled to \boxtimes accommodate AASHTO standards Ribs shall be reinforced with 2 x 2 x 3/8 angle as well as the upper and lower reinforcement angles. Ribs shall be 5" at the trip edge and 3" tall at the top edge by ½" wide. Ribs shall be spaced to match support arm locations as well as provide adequate support of the moldboard. A total of 12 ribs shall be used per moldboard assembly. \boxtimes Three sets of double ribs and 6 single ribs. Each rib shall have a 1/2" relief at the corners where they attach to the reinforcement angles. This allows water to drain off the back of the moldboard during storage. \Box X .. _ ... At the bottom of each rib there shall be three 1 5/16" holes spaced at 1 7/8" center to \boxtimes \Box center to allow for semi-circle height adjustment Two sets of double ribs shall have three 1 5/16" holes spaced at 2 1/4" center to center to X allow for attack angle adjustment Weldments on the moldboard shall be continuous \boxtimes \Box \boxtimes Outer rigs of moldboard shall be drilled for marker installation \boxtimes Two (2) curb guards mounted each side of moldboard Trip Mechanism Construction Plow shall be full trip design consisting of two (2) coil springs \boxtimes Springs shall be 3/4" wire with a coil OD of 5 9/16", consisting of 16 full coils \boxtimes Bottom angle shall be reinforced by eleven (11) 1/2" thick gussets spaced evenly to avoid interference with cutting edge attachment hardware \boxtimes Cutting edge shall be 6" x 5/8" x 11' long and is drilled to AASHTO standards \boxtimes Cutting edge shall be secured using 5/8" grade 8 carriage bolts \boxtimes

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SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE YES NO STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PLOW SPECIFCATIONS (CONT'D) **Push Frame** Push frame shall be designed to hydraulically reverse the moldboard in an arc at any angle from 35 degrees left to 35 degrees right from a centered position Push frame shall be constructed from a 1/2" plate \boxtimes Push frame shall be supported above and below the semi-circle with $2 \times 4 \times 3/16$ " tubing Push frame shall be drilled to accept 1 ½" bolt at the semi-circle connection. At this connection, welded to the push frame is the female portion of the socket connection. This connection distributes the pushing load directly from the push frame to semi-circle and moldboard relieving stress on the bolted connection. The female socket connection is made from 1" plate steel and contoured to match the male portion on the semi-circle. \Box |X|Rear of push frame shall be drilled to accept a removable QCP adapter. Three sets of 1 3/16" holes shall be drilled on 2" centers to allow for installation on a variety of trucks and hitches \boxtimes Two holes shall be located on the top and bottom push frame plates drilled to accept 1 ½" bolts for hydraulic cylinder attachment. \boxtimes \Box All welds must be continuously welded, no exceptions. \boxtimes **Semi-Circle Construction** Semi-circle shall be constructed from 5 x 5 x 3/16" tubing. The main tube or "push beam 5 x 5 x 5 1/16" is 120" long spanning the entire width of the moldboard. This tube shall be constructed from one continuous piece. \boxtimes There shall be two stops placed appropriately to prevent the plow from turning past 35° left or right. 冈 \Box Crank style jackleg (part #0091215) to be mounted on backside of semi-circle \boxtimes Hydraulic cylinder mounting points shall be 1/2" plates welded to the top and bottom of the semi-circle. Plates shall be drilled to accept 1 ½" bolts for hydraulic cylinder attachment. These plates also serve as locators for support arm shackles and gussets to provide additional support from the "push beam" to the rest of the semi-circle. \boxtimes In the center of the semi-circle, a hole shall be drilled to accept the 1 ½" Grade 8 bolt that acts as the pivot point for the push frame. Also, at this point above and below the semi-circle shall be the male portion of the socket that relieves stress from the bolted connection. This shall be made from 1" plate steel and contoured to match the female \boxtimes portion on the push frame. Introduced on: November 17, 2021 Adopted on: November 17, 2021 Official Resolution#: 2021001588

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COMPLIANCE YES NO

STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL PI	LOW	
SPECIFCATIONS (CONT'D)		
Semi-Circle Construction (Cont'd) Tabs shall be welded on the push frame to accept ½" screw type chain shackles. These tabs shall be made from ½" plate steel 5 ¼" long and 2 ½" wide. They shall be welded to the back side of the 5" tubular push beam to increase the weld surface area. They shall be welded at 55 degrees from the bottom of the semi-circle to match the chain angle going to the lift arm on the hitch.		
There shall be seven sets of 3/4" thick moldboard mounting ears installed along the push beam for attachment of the moldboard. Moldboard shall pivot at these points on 1 1/4" diameter rivet pins with a washer and cotter pin on the opposite side of the rivet head.		
Four sets of the moldboard mounting ears (two outer sets on either side of the push beam) shall have an inside spacing of ¾" to accept a single ½" moldboard rib. Three sets of the moldboard mounting ears (the center sets) shall have an outside spacing of 2 ¾" to fit inside double moldboard ribs.		
Moldboard attachment ears shall be gusseted with 4" triangular steel gussets. The push frame shall connect to upper portion of the moldboard using two support arms. The center of the support arm shall be made from $2 \times 2 \times \frac{1}{4}$ " square box tube. Actual mounting points are 1" schedule 40 pipe fully welded through the box tubing. The box tubing shall be drilled through to accept the pipe, the actual connection point is a 7/8" bolt.	r ⊠	
Adjustable Cast Mushroom Shoes Plow to be fitted with adjustable cast steel mushroom shoes mounted left and right on rear of semi-circle	r 🛚	
A ½" steel plate to be welded onto the semi-circle rear with five (5) adjusting holes for overall height		
Adjusting handle crank to be stowable against the show housing and allow up and down movement of the shoe via threaded screw		
A 1 1/4" screw with adjusting nut are housed in a 3" square shoe housing with a welded on 5-hole mounting plate		
Cast steel mushroom plow shoe has 6" bolt centers, 3/4" square holes and is 10.625" in diameter and 2.34 inches thick.		
Grade 8 hardware shall be used throughout		

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STEEL MOLDBOARD TUBE TABLE POWER INFINITE REVERSING FULL P	YES LOW	<u>NO</u>
SPECIFCATIONS (CONT'D)	<u>DO W</u>	
Hydraulics No. 1 - 1 - 11 has a second of horizontal and analyzonia analyzonia and analyzonia ana	\boxtimes	П
Plow angle shall be controlled by two double acting hydraulic cylinders		
Each cylinder shall have a 4" bore with an 8" rod diameter with a maximum operating pressure of 3000 PSI	\boxtimes	
Retracted cylinder length shall be 21" with both the rod and cylinder ends accepting 1 ½" bolts/pins for connecting to the semi-circle and push frame.	\boxtimes	
Plow shall be equipped with one crossover relief valve. Valve shall use ½" ports and be set to a relief pressure of 1000 PSI.	\boxtimes	
QCP Push frame shall be equipped with a removable QCP adapter for quick hitch applications	⊠	
The side of the removable QCP shall be drilled to allow for three different mounting heights		
Base of the QCP shall be made from MC4 x 13.8# channel QCP side plate shall be ½" formed plate	\boxtimes	
QCP loop diameter shall be 2"	\boxtimes	
Paint Paint shall be of high quality, free of runs, overspray, and defects	\boxtimes	
Standard paint type shall be epoxy	\boxtimes	
Standard paint color shall be safety orange	\boxtimes	
SPH A-152 ARM BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS		
Hitch Frame Frame shall be heavy duty, low profile, front frame mounted style, designed for use with trucks equipped with a tilt hood and stationary grille - snow plow hitch must clear hood		
when open		
The frame shall be capable of self-storing the hydraulic cylinder when not in operation thus allowing the lift arm to fold down parallel to the rest of the frame.	\boxtimes	
Vertical supports of the hitch shall be constructed from 4 x 4 x 3/8" square tubing. Adopted on: November 17, 2021 Official Resolution#: 2021001588		
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COMPLIANCE SPH A-152 ARM BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS (Cont'd) Hitch Frame (Cont'd) Cylinder support bracket on the hitch shall be constructed from 3 ½" x 3 ½" x ½" angle fully welded to both vertical supports. The two cylinder mounting tabs shall be 1/2" steel placed in the center of support bracket and spaced at 2 1/8" apart. Each tab shall be drilled X to accept a 1" pin. The upper horizontal support of the hitch shall be constructed of two pieces. The first is a formed 3/8" plate that wraps the top and upper back portion of the vertical supports. This plate also acts as a stop when the lift cylinder is stored as well as one of two points the lift arms connection tabs are welded. The second horizontal support is a 1/2" contoured plate that allows the lift cylinder to be stored and provides a second mounting point for the П lift arm connection tabs. There shall be two pairs of lift arm support shackles. Each pair shall be made from ½" x \boxtimes \Box 9 3/4" plate and drilled to accept 1 1/4" pins. Fully welded to the vertical supports shall be two C 8 x 18.75 channels with ½" thick end plates. The end plates shall be drilled to accept six 5/8" grade 8 bolts for attaching the hitch between the frame rails. \boxtimes Support of the lower portion of the hitch shall be provided by left and right hitch side plates constructed of 5/8" plate and securely bolted to the truck frame where appropriate. Pin Lock QCP \boxtimes Plow attachment shall be made by a pin lock QCP assembly Top and bottom of the assembly shall be made from ½" contoured plate. Both plates shall be drilled to accept the 2" lock pin. \boxtimes \Box Welded to the bottom plate shall be a 5/8" chamfered plate that both provides support to the lock pin and helps to guide the QCP loop into the hitch \boxtimes Welded to the top of the top plate shall be a formed 3/8" plate drilled for the 2" lock pin that both provides support and protects the pin in the event a plow is set too high Xwhile hitching In front of the OCP assembly shall be two ½ thick form bumpers. These bumpers are the resting/pushing point for the plow. They shall be curved to allow the plow to raise \boxtimes and lower smoothly. Lock pin shall be 2", tapered at one end for ease in guiding into position, and has tabs \boxtimes welded to the other for the lift bar attachment. Introduced on: November 17, 2021 Adopted on: November 17, 2021 Official Resolution#: 2021001588

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STREMBER, NO STECRIBE, OR EQUIE (CONT D)	COMPLIANCE	
SPH A-152 ARM	<u>YES</u>	<u>NO</u>
BUMPER-TO-FRAME PLOW HITCH SPECIFICATIONS (Cont'd) Heavy Duty Lift Arm Assembly		
Heavy duty lift arm shall be an extendable style with seven different extended positions.	\boxtimes	
Frame of the lift arm shall be constructed from ½" x 4" steel plate that is formed to contour the outer tube of the extendable arm. This frame is also the connection point to the hitch and hydraulic cylinder.	\boxtimes	
The external tube shall be constructed of 4" heavy wall square tubing. On each end of the tube are 1" wide bushings ground to fit the inner tube. This ensures a tight long lasting fit	\boxtimes	
Top plate on the lift arm shall be 3/16" and is used to prevent "racking" of the frame.	\boxtimes	
The inner tube shall be constructed of 3" heavy wall square tubing. Tubing is drilled to allow for the seven different extended positions.	\boxtimes	
Lift arm assembly shall be welded to the square tubing. Tubing shall be drilled to allow for the seven different extended positions.		
Welded to the front of the inner tube shall be a formed ½" plate with notches to accept standard ½" link chain. When required this plate can be changed to match different level lift systems.		
STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS		
MEYER BL-960		
Specifications Body Width: 96"	\boxtimes	
Hopper Height: 19"	\boxtimes	
Hopper Width: 96"		
Hopper Depth: 18"		
Spread Width: 4'-40'	\boxtimes	
Empty Weight: 450 lbs.	\boxtimes	
Spinner Diameter: 18"		
Material Movement: Auger	\boxtimes	
Introduced on: November 17, 2021 Mounting Methody of 17, 2021 Official Resolution#: 2021001588		

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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) **COMPLIANCE** STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd) **MEYER BL-960** Specifications (Cont'd) X Hopper Material: Stainless Steel \boxtimes Spreader Material: Salt or Salt/Sand Mix General This under tailgate shall be of the bottom opening design \boxtimes The spreader shall fasten to the corner posts of the dump body using spreader manufacturers' brackets and quick disconnect pins for quick mounting and removal \boxtimes without the use of special tools This mounting shall allow the dumping of materials without interference from the \boxtimes Spreader This unit shall spread free flowing granular materials, abrasives and chemicals \square This unit shall be factory adapted to accept automatic control systems (only with a X sensored motor) All stainless steel used in the production of this unit shall be corrosion resistant, non-X \Box magnetic stainless steel The manufacturing and production of this unit shall be of the best commercial practices, \boxtimes and only materials of the finest quality shall be used Trough Rigid 10 GA stainless steel one piece end plates shall be continuously welded to a 10 gauge stainless steel auger trough & 3" x 1 1/2" formed channel stainless steel rear \boxtimes member The unit shall have a 10 gauge stainless steel three point hinged bottom door that when \boxtimes released, exposes the entire length of the auger for easy cleanout This hinged bottom shall be held in place by two replaceable heavy duty cam locks with \boxtimes a lift handle for convenient one man operation The anti-flow cover over the discharge opening shall be manufactured of 10 gauge \boxtimes stainless steel and removable without the use of tools The dee GA: stainless steel trough cover/backplate shall be one piece hinged integral part Adented with that make the barised when spreading and lowered for dumping operations official Resolution#: 2021001588 \boxtimes

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIAN YES	<u>CE</u> NO
STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Co	<u></u>	<u> </u>
Trough (Cont'd) This cover shall be capable of being locked in either the raised or lowered position by two replaceable captivated latches		
<u>Drive</u> A direct drive coupled hydraulic motor shall be provided for driving the auger		
This hydraulic motor shaft shall mount directly to the auger pipe by a non-corrosive sleeve and a ½" grade 8 bolt	\boxtimes	
The hydraulic motor shall mount directly to the end plate	\boxtimes	<u> </u>
There shall be two separate hydraulic "orbital type" motors capable of delivering high torque at low speeds to power both the auger and the spinner	\boxtimes	
The auger feed rate and spinner speed are both variable	\boxtimes	
Feed Mechanism The 6" diameter (nominal) heavy duty auger shall consist of flights with outer edge at no less than .150 thickness, which is welded to a 2 7/8" diameter ERW pipe size tube	t ⊠	
This auger shall have continuous and reverse flighting to the discharge port for more uniform dump body unloading, and shall be supported by 1 ¼" idler end shaft	\boxtimes	
The auger idler shaft shall be supported in sealed self-aligning precision single row radial ball bearing with grease fitting	\boxtimes	
The discharge port shall be located on the left side of the trough, approximately 21" in from the edge of the bottom door	\boxtimes	
The spreader shall be equipped with a safety interlock device to positively prevent power from reaching the auger motor when the top cover and bottom door are opened beyond the normal operation position		
Spinner The spinner shall consist of a disc and six (6) fins molded into a single polyurethane unit, resulting in a flat trajectory and uniform spread pattern from 4 to 40 feet in width	×	
The spinner assembly shall be adjustable side to side, allowing for variable spread patterns left, right, and center of vehicle	\boxtimes	
This shall be accomplished by sliding the hinged frame sideways on the shaft so that the political the November 17, 2021 he spinner disc is varied Official Resolution#: 2021001588	\boxtimes	

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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE YES NO STAINLESS STEEL 8' UNDER TAILGATE SPREADER SPECIFICATIONS (Cont'd) Spinner (Cont'd) The entire spinner assembly shall be easily removed by pulling two pins, and uncoupling \boxtimes two hydraulic quick disconnect hoses The spinner disc shall be mounted directly onto the hydraulic motor shaft by means of a \boxtimes cast iron spinner hub The spinner shall be linked to the truck frame with a universally mounted parallel arm to keep the spinner horizontal to the road surface at all dump body angles \boxtimes \boxtimes A spinner shield shall be provided to prevent material from striking the truck \boxtimes The spinner shall be adjustable in height in four positions The entire spinner assembly shall be made of stainless steel except for the motor and the spinner disc \boxtimes Mounting This spreader shall fasten to the side of the dump box using quick disconnect pins for quick mounting and removal without the use of special tools \boxtimes **Painting** All stainless steel shall be chemically cleaned, but remain un-painted. Carbon steel components shall be chemically cleaned and coated with a lead free rust inhibitive \boxtimes primer and painted with lead free black WARRANTY DETAILS Cab and Chassis: Extended Warranty: 5 year/150,000 mile engine warranty with unlimited hours to include turbo, injectors and ATS; 5 year transmission warranty \boxtimes with unlimited mileage; 5 year towing for warrantable repairs warranty Stainless Steel Dump Body: 5 year warranty on hoist and body structure \boxtimes \boxtimes Tarp: 1 year warranty on motor and moving parts \boxtimes Central Hydraulic Manual System: 1 year warranty parts and labor \boxtimes Complete Plow System: 1 year warranty \boxtimes Under Tailgate Spreader: 1 year warranty Warranty shall start on date of acceptance of vehicle by the County. Vendor shall submit all warranty details with bid submission. \boxtimes Introduced on: November 17, 2021 Adopted on: November 17, 2021

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ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	YES YES	NO
OPTIONS 14 Fig. 1. (2.25)		
1A. Freedom 2.2 Spreader Control Controller shall have 3 Pulse Width Modulation (PWM) output channels for liquid and granular spreader controller	\boxtimes	
The controller shall be a microprocessor type capable of PWM control of three hydraulic valves		
Controller must be automotive grade for durability. Any gaming type controllers are unacceptable.		
The controller must offer ground speed control from vehicle signal. No GPS antenna can be used for ground speed signal input.	\boxtimes	
The controller must have three channels to operate an auger/conveyor and liquid system.	\boxtimes	
PWM signal must be adjustable for a wide range of implement functionality.	\boxtimes	
The controller shall be capable of ground speed oriented spreading, ground speed triggered, and manual mode.	⊠	
The system shall offer a manual mode lock out option	, 🗵	
The spreader controller shall operate in open or closed loop configuration.		
Controller shall offer remote pause, unload mode, liquid float input, test speed, and on-screen error with alarms and message reporting	\boxtimes	
Sensor short detection with message and alarm	\boxtimes	
System must have 2 auxiliary output channels available	\boxtimes	
System shall offer spinner configurable MPH shut off, storm totals on screen or with USB.	\boxtimes	
Operator screen shall offer knobs or touch screen to control granular and liquid outputs.	\boxtimes	
There shall be nine (9) independently programmable feeder output channels for accurate lbs. per mile output	\boxtimes	
The system shall also offer 9 programmable speeds for the spinner	\boxtimes	
System shall maintain up to 4 different granular material types Adopted on: November 17, 2021 Official Resolution#: 2021001588	\boxtimes	

ITEM #1 - MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIAN YES	CE NO
OPTIONS (Cont'd)	1125	<u>110</u>
1A. <u>Freedom 2.2 Spreader Control</u> (Cont'd) There shall be an integrated blast mode with instant off to stop output if necessary	\boxtimes	
Blast must be programmable for flow rate and material distance	\boxtimes	
Unit shall provide an unload mode at speeds of up to 5 MPH	\boxtimes	
A standby (pass) mode shall be provided to allow for momentary interrupt of the spreade without changing the feeder/spinner/liquid output	r ⊠	
All programming and calibration shall be accomplished using the touch screen of the controller. Detachable key board is not acceptable.		
Modular Granular and Liquid Valve The modular manifold must be constructed of 6061 anodized aluminum	\boxtimes	
Modular manifold must have an adjustable pressure of up to 3500 PSI with multiple flow, pressure, performance, and function configurations	⊠	
Each function shall be equipped with screw adjustable manual overrides protected by jacketed debris covers		
The modular manifold shall operate in either open center (fixed displacement) or closed center (variable displacement) hydraulic circuits		
The auger/conveyor must be rated at 15 GPM and feature a cartridge valve design for precision spreading	⊠	
The spinner valve must provide 10 GPM and also feature a cartridge design valve with manual override	\boxtimes	
Pre-wet or anti-ice implements shall be available as a 10 GPM hydraulic circuits if necessary		
Additional cartridge valve required for liquid system		\Box
These functions shall be proportional controlled, pulse width modulated, pressure and flow compensated, with heavy duty 12 VDC coils	\boxtimes	
Spreader control "outside the cab" harnessing shall meet IP 68 standards	\boxtimes	
Connections must be NEMA x6 standards for dust protection		

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MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPREADER

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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIAN	<u>CE</u>
OPTIONS (Cont'd)	<u>YES</u>	<u>NO</u>
1A. Freedom 2.2 Spreader Control (Cont'd) Outside the cab connections shall be rated as NEMA "x8" – protected against the effects of a permanent submersion in water as well as able to show no corrosion after 500 hours		
in a 35C salt spray	\boxtimes	
The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling sections	×	
The electronics and hydraulics shall be manufactured by the same company		
The hydraulic system shall be pressure and flow tested before the installation process	\boxtimes	
The modular spreader valve manifold shall be mounted in a weather resistant enclosure	\boxtimes	
Enclosure shall be vented to reduce moisture	\boxtimes	
Five (5) year warranty on spreader valve, Two (2) year warranty on controller	\boxtimes	
1B. Larger Dump Body Larger dump body shall have same specifications as indicated in base vehicle, but with 30" sides to maintain a water capacity of 6.8 cubic yards	<u> </u>	
1C. Paint for Dump Body Paint specified dump body in a single stage paint a single color (i.e. School Bus Yellow or other paint color from color chart)		
1D. Road Department Paint Color Scheme School Bus Yellow from the bottom of the windows down. Bahama Blue from the bottom of the windows up to and including cab roof and back, on hood from bottom of windshield to a point on the hood to make a "V" and match the Road Department fleet. Shall be base coat clear coat. (Note: Not all Vehicles will be painted this way)	⊠	
1E. <u>Diagnostic Tools / Test Equipment</u> Cummins Quickserv Unlimited Service plan, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment 1. Successful bidder may be required to supply between one (1) to three (3) complete sets of test/diagnostic/ programming equipment (i.e. laptop, software, cabling, and adapters) and special tools required to perform the full range of diagnostic and maintenance actions necessary to maintain vehicle operability. This equipment will cover the vehicle chassis, engine, transmission, brakes, hydraulics, and all additional equipment (if applicable).	\boxtimes	
2. All laptop computers will be of the newest available technology and have		
sufficient storage and memory to operate all required software.		
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ROBERT H. HOOVER & SONS, INC. MOTOR VEHICLE: SMALL DUMP TRUCK WITH PLOW AND SPRÉADER <u> ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND</u> SPREADER, AS SPECIFIED, OR EQUAL (CONT'D) COMPLIANCE **OPTIONS** (Cont'd) 1E. Diagnostic Tools / Test Equipment (Cont'd) 3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid. X 4. All software installations and activations will be completed by the successful bidder at no cost to the County. X 5. All software updates and renewal will be provided at no cost to the County for a period of five (5) years from the acceptance of the equipment. X 6. All technical issues relating to test/diagnostic/programming equipment and special tools shall be resolved by the successful bidder at no cost to the County for a period of five (5) years from the acceptance of the equipment. \boxtimes 7. Training shall be provided on all items in this section at a County location. \boxtimes 8. This equipment shall be the OEM equipment as available by the chassis manufacturer. \boxtimes 1F. Two-Way Radio Power and Wiring Requirements for New Vehicles For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included: 1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps. 2. #12 AWG BLACK wire connected to chassis ground. 3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps. These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces. \boxtimes П ¹1G. Installation of County Supplied Two Way Radio and Accessories Install is to include but not limited to antenna cable, mounts, speakers, brackets, etc. For the purpose of installing two-way radios into new County vehicles and equipment,

3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

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the following power and wiring components shall be included:

2. #12 AWG BLACK wire connected to chassis ground.

1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.

 \boxtimes

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<u> ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND</u>

SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

	COMPLIANCE	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS</u> (CONT'D)		
1G. Installation of County Supplied Two Way Radio and Accessories (Cont'd) These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle. The wiring harness shall be clearly labeled "TWO-WAY RADIO" The 12VDC sources shall be protected from making contact with grounded metal surfaces.	⊠	
/ `	_	_
/1H. <u>Technical Support</u> Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturers' industry standard technical presentation in a classroom setting.		
The support provided shall be at the journeyman/equipment technician level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.		
Technical support may be requested in the following areas: 1. Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location. 2. Transmission – 1 day at each location 3. Electrical – 1 day at each location 4. Brakes – 1 day at each location 5. Hydraulic system (dump body, spreader, snow plow) – 1 day at each location 6. Upfitter (dump body, sweeper, etc.) – 1 day at each location		
A technical representative(s) shall be made available for a total of 180 training/support hours (anticipated to be scheduled in six (6) hour blocks). Shorter training days will be allowed only with consent of Vehicle Services. The total training hours will be required to be provided and no additional compensation will be considered. The actual time to be spent on each area will be by mutual agreement of the Vehicle Services Department and the successful bidder.		
For the purposes of determining materials and other training costs, class size is anticipated to be comprised of six (6) to ten (10) Vehicle Services Department personnel. Actual class size will be determined by the Vehicle Services Department at the time the classes are scheduled.		
Before the training is scheduled, Vehicle Services and the contractor will agree on the scope of the training, and the type and quantity of manuals, etc. that are necessary for proper coverage.		

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ITEM #1 – MODEL YEAR 2022, OR NEWER, 6 YARD DUMP TRUCK WITH PLOW AND SPREADER, AS SPECIFIED, OR EQUAL (CONT'D)

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OPTIONS (CONT'D) 1H. Technical Support (Cont'd) Technical Support for Vehicle Services may be provided at the following fleet maintenance facility location as scheduled by a Vehicle Services Department representative:		
a. Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)		
b. Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050	\boxtimes	
Technical Support for other Departments will be held at a location within Ocean County. The requesting Department will notify the successful bidder of the location.	×	
Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only.		
Technical support will be requested and scheduled on an as needed basis up to but not exceeding the 180 hours total during a period not to exceed twelve (12) months from the date of placing the last unit in service.	\boxtimes	

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