



Ocean County Board of Commissioners

OFFICE OF THE
OCEAN COUNTY COMMISSIONERS

Director Joseph H. Vicari
Deputy Director Gary Quinn
Commissioner Barbara Jo Crea
Commissioner Virginia E. Haines
Commissioner John P. Kelly

101 Hooper Avenue
Toms River, New Jersey
08754-2191
Tel: (732)929-2005
Fax: (732)505-1918

Board Meeting Agenda

Date: September 20, 2023 - 4:00 PM
Location: Administration Building
Room 119
101 Hooper Avenue
Toms River, NJ 08754

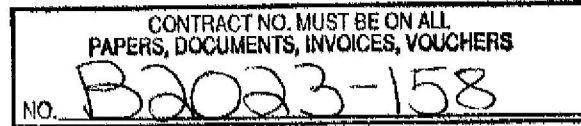
Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II to Winner Ford, the sole qualified bidder. (B2023-158)

Official Resolution#	2023001340						
Meeting Date	09/20/2023						
Introduced Date	09/20/2023						
Adopted Date	09/20/2023						
Agenda Item	k-1						
CAF #							
Purchase Req. #	B2023-158						
Result	Adopted						
COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Vicari	<				<		
Quinn	<				<		
Crea	<			<	<		
Haines	<				<		
Kelly	<		<		<		

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 I. Gunther

Clerk Of The Board



RESOLUTION

September 20, 2023

WHEREAS, on August 22, 2023, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

<u>Name of Bidder</u>	<u>Address of Bidder</u>
Winner Ford	250 Berlin Road Cherry Hill, NJ 08034 (856) 214-0759

; 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, WINNER FORD be accepted.

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

1. The Director and Clerk of this Board are hereby authorized and directed to enter into a contract for the furnishing and delivery of MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II for the County of Ocean, for the contract period from date of award through September 19, 2024, 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.

A. WINNER FORD for thirty six (36) items, to wit:

ITEM NOS. 5, 5a, 5b, 5c, 5d, 5e, 5f, 5g, 5h, 5i, 5j, 5k, 5l, 5m, 5n, 5o, 5p, 5q, 5r, 5s, 5t, 5u, 5v, 5w, 5x, 5y, 5z, 5aa, 5bb, 5cc, 5dd, 5ee, 5ff, 5gg, 5hh and 5ii.

For a total Lump Sum Award (Item #'s 5 - 5ii) of \$4,006,110.00.

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: Vehicle Services O.E.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2023-158.

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, Vehicle Services and Winner Ford the successful bidder.

WINNER FORD

PROPOSAL DOCUMENT REPORT
 Bid No. TBD
 MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

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 #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM, INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model	Warranty	Delivery, A.R.O.
5	Current Model Year, Or Newer, Ford F550 Regular Cab with Switch-N-Go Detachable Truck Body System, Including Accessories, As Specified, Or Equal	10	EA	\$92,783.00	\$927,830.00	2024 Ford F550	See attached	Unknown at this time
OPTIONS								
5a	9' Readily Detachable Western Snow Plow System, as Specified	10	EA	\$9,235.00	\$92,350.00			
5b	Cirrus Hydraulics System, As Specified	10	EA	\$29,100.00	\$291,000.00			
5c	Large Stainless Steel V'box Spreader, As Specified	10	EA	\$36,000.00	\$360,000.00			
5d	Dump Body for 11' Floor Length, As Specified	10	EA	\$13,000.00	\$130,000.00			
5e	Stainless Steel Dump Body for 11' Floor Length, As Specified	10	EA	\$22,000.00	\$220,000.00			
5f	Platform 11' Overall Floor Length, As Specified	10	EA	\$9,300.00	\$93,000.00			
5g	Medium Duty Dump Box, As Specified	10	EA	\$10,800.00	\$108,000.00			
5h	Medium Duty Dump Box, High Sides, As Specified	10	EA	\$10,750.00	\$107,500.00			
5i	Manual Tarp, As Specified	10	EA	\$300.00	\$3,000.00			

WINNER FORD

PROPOSAL DOCUMENT REPORT
 Bid No. TBD
 MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model	Warranty	Delivery A.R.O.
5j	Stake Sides and Removable Rear Stakes, As Specified	10	EA	\$3,950.00	\$39,500.00			
5k	Horizontal Split Door for Use with Chipper Top, As Specified	10	EA	\$0.00	\$0.00			
5l	24" Deep Chipper Top, As Specified	10	EA	\$3,125.00	\$31,250.00			
5m	Coal Chute, As Specified	10	EA	\$810.00	\$8,100.00			
5n	Side Door in Drop Box, As Specified	10	EA	\$0.00	\$0.00			
5o	Mason Type Tarp, As Specified	10	EA	\$555.00	\$5,550.00			
5p	Split Doors for Drop Box for Chipper or Leaf Applications	10	EA	\$1,620.00	\$16,200.00			
5q	Fold Down Sides, Steel, As Specified	10	EA	\$1,350.00	\$13,500.00			
5r	Fold Down Sides, Aluminum, As Specified	10	EA	\$14,550.00	\$145,500.00			
5s	Road Department Paint Color Scheme, as Specified	10	EA	\$3,500.00	\$35,000.00			
5t	Light Package, As Specified	10	EA	\$1,500.00	\$15,000.00			
5u	Go Lights, As Specified	10	EA	\$720.00	\$7,200.00			
5v	Stainless Steel UTG Spreader, As Specified	10	EA	\$8,500.00	\$86,000.00			
5w	Flat Bed Service Body, As Specified	10	EA	\$22,900.00	\$229,000.00			
5x	Brine Water Tank, As Specified	10	EA	\$30,200.00	\$302,000.00			
5y	48" Under Body Tool Box, As Specified	10	EA	\$1,700.00	\$17,000.00			
5z	30" Under Body Tool Box, As Specified	10	EA	\$1,700.00	\$17,000.00			
5aa	Arbor Body, AB-1L, As Specified	10	EA	\$12,200.00	\$122,000.00			
5ab	Van Body, As Specified	10	EA	\$17,375.00	\$173,750.00			

PROPOSAL DOCUMENT REPORT
 Bid - MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II
 Page 8

Introduced on: September 20, 2023
 Adopted on: September 20, 2023
 Official Resolution#: 2023001340

WINNER FORD

PROPOSAL DOCUMENT REPORT
 Bid No. TBD
 MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	Make/Model	Warranty	Delivery, A.R.O.:
5cc	Work Ready Subframe, WRSF-11, As Specified	10	EA	\$4,230.00	\$42,300.00			
5dd	Maxscaper 12' Aluminum Landscaper Body Attachment, As Specified	10	EA	\$26,590.00	\$265,900.00			
5ee	Chipper Leaf Top for Landscaper, As Specified	10	EA	\$7,000.00	\$70,000.00			
5ff	Diagnostic Tools / Test Equipment, as Specified	3	SET	\$7,500.00	\$22,500.00			
5gg	Two-Way Radio Power and Wiring Requirements for New Vehicles, as Specified	10	EA	\$300.00	\$3,000.00			
5hh	Installation of County Supplied Two Way Radio and Accessories, as Specified	10	EA	\$600.00	\$6,000.00			
5ii	Technical Support, as Specified	180	HR	\$1.00	\$180.00			
TOTAL					\$4,006,110.00			

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

✓ ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS		
Current Model Year, or newer Ford F550 Regular Cab with Steel Dump Body	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Dual Rear Wheels, Four Wheel Drive	<input checked="" type="checkbox"/>	<input type="checkbox"/>
84" Cab to Axle (CA)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7.3L V8 gasoline engine	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40 gallon fuel tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TorqShift transmission with PTO option 19,000 lb. GVWR	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab shall be military grade aluminum alloy for longevity to the County in lieu of carbon steel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Frame shall be fully boxed under cab and "C" channel behind cab	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Oil life monitor, engine hour and engine idle hour meters	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air Conditioning	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Airbags, frontal driver & passenger, side impact and side air curtains	<input checked="" type="checkbox"/>	<input type="checkbox"/>
TowCommand integrated trailer brake controller, manual telescoping trailer tow mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7 wire trailer wiring harness (no plug)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AM/FM radio, SYNC4 Enhanced voice recognition communication and entertainment, 911 Assist, AppLink 4-2" LCD Center Screen, One (1) Smart charging USB Port	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power windows, locks, mirrors, and heated mirrors	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Center High Mount Stop Lamp	<input checked="" type="checkbox"/>	<input type="checkbox"/>
240 amp HD alternator, 12V 750 CCA battery	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Tilt and telescoping steering wheel	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4.88 ratio limited slip axle	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4 wheel power ABS brakes, front and rear disc, power steering, front and rear stabilizer bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Quad-beam jewel-effect halogen headlamps, five (5) roof marker lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LT225/70R19.5G BSW Traction tires – six (6)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) full sized spare tire mounted to wheel and one (1) jack	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chrome front bumper, front tow hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chrome hub covers, front bumper grill	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Power Sliding Rear glass with defrost – sc/cc only	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Remote Start	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Halogen Fog Lamps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
40/20/40 split vinyl bench seat with center arm rest	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Auxiliary power point, six (6) upfitter switches located overhead center		
Tachometer, speedometer, oil pressure, transmission temp, engine temp, and fuel gauge	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Interval windshield wipers	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Driver & passenger grab handles	<input checked="" type="checkbox"/>	<input type="checkbox"/>
XL Rear bumper camera and prep kit	<input checked="" type="checkbox"/>	<input type="checkbox"/>

introduced on: September 20, 2023
 Repealed on: September 20, 2023
 Official Resolution#: 2023001340

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
CHASSIS SPECIFICATIONS (CONT'D)		
3-year/36,000 mile bumper-to-bumper warranty on OE components	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5-year/60,000 mile powertrain warranty	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Shift on the fly	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cab steps, molded black (running boards)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Snow plow prep package	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Single color to be selected from standard color chart at time of order	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Undercoating – entire truck chassis, underside of cab and underside of added body (dump, utility, platform) shall be coated with Tectyl 2423 Haps Free Black, or Z Guard Product, a low VOC, High Solids, Emulsion Corrosion preventing coating	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SWITCH-N-GO SPECIFICATIONS		
This specification is for a detachable truck body system for vehicles with a GVWR less than 26,000 lbs. This system shall be run off a clutch pump hydraulic system for hoist and winch; electric is NOT ACCEPTABLE .	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For emergency purposes, the body-upfitter must have a facility in New Jersey for parts and service.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
GENERAL		
Switch-N-Go 11' Hydraulic Hoist System. Model 11-4016-ISH-10T GEN II 15,000 lbs. Winch Loading Capacity Hydraulic Winch & Hydraulic Hoist. Unlimited Winch Pulls per Day.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Type:		
- Live Drive Style PTO for operation while in gear	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic Pump Specifications:		
- 3000 PSI@, 12-15 GM.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hose Size:		
- 1/2" Diameter Pressure Line, 3/4" Diameter Return Line.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
The Hoist system must have a top frame with Steel wear strips.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist system must use glass impregnated slide pads when loading/unloading the bodies. Polystone M (UHMW-PE) MPG glass filled material to be used.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist system rear pivot pin size diameter needs to be a minimum of 1.5".	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist system hinge assembly to be designed and constructed of geometrically optimized 3/8" and 1/2" thick plate - specifically for loading and removal of interchangeable bodies.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

✓ ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Hoist system rear Body Hold Downs to be "Universal Style" to accept multiple body lengths.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist system winch is required to have a clutch block-out for safety.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prop Rod to be mounted within the hoist frame.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Swivel Hook for the winch cable.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Approx. Dumping Capacity 10.3 Ton	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pre-Plumbed Hydraulic Lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pre-installed In-line Filter Housing with Reusable Filter	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic Reservoir:		
- 15 Gallon minimum with filter Standard 18" Rear Overhang	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hoist System Install Kit:		
9' 12' Gen II H-Series.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gen II Series Mounting Bracket	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt-On Bumper with Light Bars	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Includes Bumper Face Plate, Light Tubes, Two Lights Per Side, Stop/Tail/Turn/Reverse and Stop/Tail/Turn/Reverse/Strobe, Wire Harness and Mounting Hardware.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Rated for 20K	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolt-on 10 TON 2-1/2" Receiver Tube Weldment and 9/16" hardware	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One pair of plastic fenders for 19.5 tires, with mounting brackets	<input checked="" type="checkbox"/>	<input type="checkbox"/>
No Advertisement on mudflaps	<input checked="" type="checkbox"/>	<input type="checkbox"/>
SNG Fuel Filler Rod	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulics:		
PTO must be a Chelsea 210H with direct mount pump and 14 gallon reservoir providing up to 9 gallons per minute at 1000 rpm, must be a modular manifold cartridge type valve with 5 year warranty. Switch N Go shall be operated by the Switch N Go Pendant Controller.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Lights/Wiring:		
All lamps/reflectors exceed FMVSS 108 requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lamps shall be LED flush mounted in shock resistant rubber grommets to maximize bulb life.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Each side of 90" ICC bumper shall include a rear facing auxiliary stop/turn/reverse lamp LED for improved visibility and operator's safety. Also includes Amber strobe in bumper. The ICC bumper plate will also include a class V receiver tube with D-Rings back up alarm and trailer plug. The light extensions of the ICC bumper shall be a minimum of 16" off the ground. Color-coded wire harnesses are provided to minimize installation time and simplify diagnosis.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Body up light in cab.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hydraulic Winch:		
Rated pulling force 15,000 lbs., 6.0 cubic inch motor	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drum barrel diameter 4"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Drum flange 8.24"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Distance between flanges 9.95"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recommended maximum wire rope diameter ½"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Recommended minimum wire rope breaking strength 26,600 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duty cycle 932'	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Maximum layers of wire rope: 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Hardened steel two stage planetary gear train with 36:1 reduction provides fast line speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy duty disc brake for dependable operation and plenty of holding power Meets SAE J706 and CE standards	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Winch to be operated off truck hydraulics and Switch N Go controls	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Accessory Lighting:		
Atomic LED marker lights	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3 Whelen Ion T-Series Amber LED evenly spaced on top of pintle plate below hoist	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LED spreader light mounted to frame for visibility during spreader operation		
ICC Pintle Plate Bumper as described above:		
• Pollak 7 Pole RV Style harness and twist and lock plug		
• Backup alarm		
• 3 ball receiver tube 1-7/8", 2", 2-5/16" lock in style pin not acceptable		
• 6 ton receiver mount Pintle & 2" ball combination hitch	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Stop/Tail/Turn/Reverse/Safety Amber light extensions to be a minimum of 16" from the ground all lights to be LED	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

✓ **ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)**

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
GENERAL (Cont'd)		
Conspicuity Enhancement/Safety:		
2" red and white diamond grade reflective striping,		
DOT Safety Kit, first aid kit, 5 lb fire extinguisher with bracket and safety Triangles	☒	☐
Additional Winch Cable to be supplied at time of delivery	☒	☐
Additional Safety Locking Pin to be supplied at time of delivery	☒	☐
Ziebart Undercoating, chassis frame and Switch N Go frame from cab to end of frame rails	☒	☐

OPTIONS:

***NOTE:** Successful bidder must be able to provide **any/all** options as specified below including installation of this body onto **existing County-owned Switch N Go truck**. If options are purchased for current County-Owned Switch N Go Trucks, the equipment shall be delivered to upfitter's facility for final measurements and installation at time of Mandatory Pre-Build. Bidder must have provided this type of conversions in the past with a minimum of 5 years of working with the Switch N Go product, proof of this type of work must be supplied with bid.*

✓ **5A. 9.0' Readily Detachable Snowplow System**

This option can be selected with all configurations. Can be purchased for existing F-350 pickup trucks thru F-550 with snow plow prep packages.

Blade Assembly:

Moldboard - 12 ga. (0.104") steel sheet formed to a 17.30" radius with a 1.76" diameter top curl.	☒	☐
Ribs - eight, 0.25" thick, variable profile, electrically welded to sheet, torsion tube and 0.25" thick, high strength steel base channel.	☒	☐
Torsion Tube - 2.00" diameter, full width, electrically welded to all eight ribs.	☒	☐
Cutting Edge - reversible 0.50" x 6" high carbon steel C1080 attached with ten 0.63" Grade 5 carriage bolts.	☒	☐
Disc Shoes - two, full rotation, height adjustable, Austempered Ductile Iron shoes with integral 1" diameter shaft secured to blade with lynch pins. Shoe brackets shall be welded to vertical ribs.	☒	☐
Blade Trip - 50 degree full blade trip	☒	☐
Trip Springs-four, 2.38" OD x 0.39" diameter, Cl 060, hard drawn, stress relieved wire, preloaded, with 0.63" x 4" eyebolts.	☒	☐
Shock Absorbers - two, 5" stroke, shielded shock absorbers to retard extension velocity and dampen blade trip return.	☒	☐
Blade Trip Pivot - three 0.75" diameter steel pins.	☒	☐
Blade Guides - two highly visible, vinyl coated, spring wound, with replaceable flags.		
Plow Angling- 30 degrees right and left.	☒	☐

Introduced on: September 20, 2023
Adopted on: September 20, 2023
Official Resolution#: 2023001340

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

A-Frame:

Electrically welded, reinforced, 3.00" x 3.00" x 0.19" wall structural steel side tubes with 0.50" thick, formed nose plate and integral attachments for angling rams to receive 1.00" diameter pins.

Lift Chains - two, 0.25" Grade 43 high test steel with 2600 lb. working load limit, attached with 0.38" U-bolts.

Quadrant:

Electrically welded, reinforced, 5.00" OD x 0.25" wall structural steel tube with 0.50" thick nose plates and integral attachments for angling rams to receive 1.00" D pins.

A-Frame to Quadrant Angle Pivot - 1.00" diameter Grade 5 bolt.

Lift Frame:

Lift frame to have provision for attachment of out front hydraulics and light kit.

Lift Arm- 0.25" x 2" formed bar welded with a 7 ga. steel cover.

Two Plow Stands - Self-storing and adjustable integrated into the plow attachment mechanism. Connecting hook and lever with integral with a 0.50" lock pin.

Lift Frame - Two piece lift frame with tubular construction. Lower lift frame to include drive in plow alignment horns.

Mount:

Custom designed, electrically welded, structural steel mounting readily adaptable to truck frame. Attached to truck with Grade 5 fasteners.

Vehicle, with mount attached, shall meet federal motor vehicle safety standards by compliance or by vehicle manufacturing approval.

Removable receiver brackets for additional ground clearance.

Paint:

Plow blade shall be made of shot blasted steel and cleaned with phosphate solutions and have baked-on red polyester powder coating.

A-Frame, Quadrant and Lift Frame - shall be made of shot blasted steel and cleaned with phosphate solution and have baked-on black powder coating.

Hydraulics:

Electric solenoid activated and detachable with lift.

Front mounted hydraulic unit consisting of a fixed displacement gear pump, with 1750 PSI system relief, direct tang driven by a 4-1/2" 12 volt DC motor.

Pump with filter screen shall be immersed in a steel deep drawn reservoir.

Main valve manifold shall contain three side mounted and covered solenoid cartridge valves.

Introduced on: September 20, 2023
Adopted on: September 20, 2023
Official Resolution#: 2023001340

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

Hydraulics (Cont'd)

Secondary valve shall contain 2 driver side and 1 curb side mounted and covered solenoid cartridge valves. Cushion relief valves set at 4,000 PSI and a quill adjustment screw to adjust blade drop speed.

One 1 1/2"x 8" lift ram and two 1-1/2" x 12" angling rams each with a rod seal, a wiper ring and a gland nut.

Hydraulic hoses shall be 1/4" steel braided SAE 100R1.

Hydraulic unit shall be controlled by a soft touch, hand held in-cab control.

Control shall be equipped with an on/off and mode buttons and indicator lights.

Control can be dash mounted.

In-cab control shall be connected to valve manifold and to the motor through an auxiliary 12-volt multiplexed harness.

Power and control harness to have quick disconnects and covers at the grill.

Control shall allow plow to be in float when lowered and also be able to angle left or right when in float.

Unit shall be a "low side" drive system, which provides positive potential continuously with a switched ground to control the solenoids.

Unit shall possess programmable security lockout feature.

Unit shall possess programmable hydraulic soft stop feature.

Unit shall possess programmable one touch float feature.

Hydraulic fluid shall be MJL5606 equivalent standard transmission fluid (ATF) or aircraft hydraulic oil for low-temperature operation.

Cycle times:

- Lift 2.5 seconds
- Angle 5.0 seconds

Hydraulic unit shall stay with plow when plow is disconnected from truck.

Lights:

Nighthawk LED Headlamps

Vehicle specific pre-wired harness with plug-in module requiring no headlamp wire splicing.

Plow and vehicle lights automatically selected through relay system.

Heavy-duty flashers.

Double stud mounting brackets.

FMVSS 108 compliance for lights.

Lights and mounting bracket to stay with plow when disconnected from truck.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5A. 9.0' Readily Detachable Snowplow System (Cont'd)

Plow Removal:

Blade assembly, A-Frame, Quadrant, Lift Frame with hydraulic unit all to be removed in one step from truck as one complete unit.

Snow deflector

Curb guards both sides

Cab command Hand Held Control/or joystick- specified at order

5B. Cirrus Hydraulics System

PTO and Pump:

Hydraulic pump and PTO shall be a Chelsea 249 series.

The pump shall be a fixed displacement that is direct mounted to a hot-shift PTO for a live transmission with a gas engine.

The pump shall have a flow rate of 19 GPM at 1200 engine RPM.

The pump shall have a 3/4"-1 1/2" splined drive shaft.

The suction hose to the pump shall be a minimum of 1-1/4" I.D. SAE 100-R4 hose.

The PTO shall be a Parker/Chelsea 249 series and have a ratio of 124%.

The PTO shall be engaged/disengaged from the cab by a dash mounted 12VDC on/off switch.

Power over speed protection required for torque shift six with gas motor.

Stainless Steel Symmetrical Valve Reservoir Combination System:

The spool valve sections and spreader manifold will be mounted in a combination reservoir and enclosure.

The overall width of the will not exceed 28". The valve shall mount horizontally on a 15.5" removable mounted plate that slides out for easy access for repair and maintenance.

The enclosure shall be mounted with a minimum of 1" frame clearance on each side of the combo.

Mounting bracket is to be designed and supplied by reservoir supplier and designed in a manner as to not transmit torsional loads through the reservoir.

The enclosure cover shall also cover/ protect the valve work ports and hoses

The reservoir portion shall be 14-gallon capacity.

The combo will be constructed from 10-gauge 304 Stainless steel with .25 inch steel bracing. The combo shall be powder-coated for corrosion protection with internal baffle

Two rubber latches will secure the enclosure lid. The lid must be removable without tools by one person.

The rubber latches are replaceable with a removable pin.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

Stainless Steel Symmetrical Valve Reservoir Combination System: (Cont'd)

The reservoir must be equipped with the following: 3/4" magnetic drain plug, 1-1/4" full flow brass ball valve, 2" x 1-1/4" NPT suction strainer with 100 mesh screen and 3 PSI bypass valve, tank mount return line filter with a built in breather, and sight temperature gauge externally mounted facing front of truck no matter which side enclosure is mounted on.

Reservoir filling will be through the filter housing with a flow path that will filter all new oil entering in the system.

Minimum Specification for Modular Manifold Central Hydraulic System:

The modular manifold must be constructed of 6061 anodized aluminum material.

The modular manifold shall be adjustable to a maximum pressure of 3500 psi with multiple flow and pressure performance, with function configuration.

The modular manifold will consist of multiple sections bolted together for multiple function configurations.

The entire hydraulic system shall be completely serviceable without removing from the enclosure or disassembling the sections.

A one-piece manifold will not meet the intent of the specification for easy maintenance and service.

The modular manifold must be capable of operating in either open center

(fixed displacement) or closed center (variable displacement) hydraulic circuits

All functions will be proportional controlled, pulse width modulated, pressure and flow compensated.

Plow and Winch functions must have load hold/ counter-balance.

Any valve without load-holding capability or have internal leakage down standard is **NOT ACCEPTABLE**

Heavy-duty 12VDC coils must be protect with a corrosion resistant coating.

Connections must be NEMA x6 standards for dust protection and all outside the cab connections shall be rated as NEMA "x8" - protected against the effects of permanent submersion in water as well as able to show no corrosion after 500 hours in a 35°C salt spray.

The modular manifold shall be designed for lower pump capacity hydraulic pumps.

Each sections will have flow capacities from 3 to 20 GPM with load holding on all cylinder section.

The hoist and winch sections shall be 15 GPM, four way for a double acting cylinder and incorporate a 500psi relief for the hoist A-port

The spinner will be a 7 GPM motor spool cartridge and the auger/conveyor will be 8 GPM motor spool cartridge. 15 GPM motor spool for anti-ice.

The spinner or auger will not stop when other implements are actuated.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

Minimum Specification For Modular Manifold Central Hydraulic System: (Cont'd)

Auger and Spinner cartridge valve will be equipped with screw adjustable manual overrides protected by jacketed debris covers. Hoist, Winch, Plow, spool valves will have a push/pull ring for the manual override.

The hydraulic system shall be pressure and flow tested before the installation process.

Cartridge valves, spool valve, and solenoids must have a 5-year warranty.

Plow and Switch N Go joystick controllers:

The in-cab control system shall be a one joystick Cirrus Black Tip controller or prior approved equal. The single control levers must be true Hall effect (magnetic) joystick with two-axis (X & Y) proportional control with no internal metal contacts.

Amusement grade joysticks for pistol type controllers are not acceptable.

The joystick console shall mount to the center seat in the down position with two (2) adjustable rods that slide into the head rest mounting holes for the Ford F450-F750 vehicles and with a cup holder mounted bracket in the Dodge Ram 5500 series vehicles.

The dumping hoist and winch shall be controlled by a single joystick and must have a safety trigger protection to activate the hoist and winch function.

Joystick console must have side bracket to mount spreader controller.

The user shall have the ability to set the speed of each direction of motion on a PC for all hydraulic devices controlled by the joystick without modification to the hydraulic system.

The controller must include integrated protection and diagnosis systems with safety features incorporated into the system. Channel Safe™: to protect the system and help diagnose external shorted or open circuits. SafeStik™ that shuts down the output channels if a joystick fails.

Power Safe™ Wiring Design: For safety reasons, grounding or cutting any wire at any point between any valve coil and the controller must not cause any valve to actuate.

The system must supply pulsed+12 volt power to the other lead from each individual valve coil.

All connections at the hydraulic control junction box must be IP 68 rated. The outside the cab harness will be IP 68 rated up to the valve coil connection All connectors shall be rated as "6x" - dust proof. All connectors shall be rated as "x8" - protected against the effects of permanent submersion in water as well as showing no corrosion after 500 hours in a 35C salt spray.

Installing dealer must be authorized to preform warranty repairs and periodic maintenance.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5B. Cirrus Hydraulics System (Cont'd)

In-Cab Granular and Liquid Control System:

The in-cab control system shall be capable of operating output channels for granular spreader, and single channel liquid controller on one easily accessible single keypad. In-cab controller must be an automotive grade product. Amusement or gaming products are **NOT ACCEPTABLE**.

The liquid channel can operate an electric or hydraulic pre-wet system controller shall also have an optional dash mount, stand-alone, or console mounting options.

The single touch proportional hydraulic controls shall be time dependent to adjust the speed of the hydraulic functions.

Controller shall have the ability to connect the feed rate and spinner function for single stroke simultaneous start up.

Controller must offer a "Skip Blast" feature allowing for spot blasting during "Pause Mode"

Controller shall offer adjustable valve unseat percentage option: to start auger/conveyor with wet heavy salt.

The user shall have the ability to adjust the speed of each function and the amount of granular material or liquid with the soft touch key pad.

Rotary knobs to control granular feed rate or spinner speed is **NOT ACCEPTABLE**

The spreader controls shall operate a granular spreader with auger/conveyor, spinner and pre-wet (or anti-ice) output channels. Each function can be operated individually or all simultaneously.

All set-up and programing shall be completed using the controller soft key pad with no external programing keyboard.

Spreader must be field configurable to operate either: Ground Speed Oriented or No Ground Speed (simple manual operation) with a single switch setting.

Controller shall also offer a settable Blast Features that will function during Ground Speed Triggered Operation.

System shall be capable of self-diagnosis using the indicator LED light for each channel to trouble-shoot open circuit faults.

All connections inside the hydraulic valve / electronic control junction box must be IP 68 rated.

All connections will be labeled with appropriate descriptions for each connection to individual solenoids of the hydraulic actuating cylinders.

Cirrus EZ1 Controller Has a 2 Year Warranty

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader

This option also requires the selection of the Cirrus upgrade. Spreader can also be purchased for existing vehicle with central hydraulics for 10' Dump body and up.

Hydraulics:

PTO must be a Chelsea 249H with direct mount pump and 14 gallon reservoir providing up to 9 gallons per minute at 1000 rpm, must be a modular manifold cartridge type valve with 5 year warranty. - Shall be operated by the chassis provided upfitter switches.

General:

This specification describes a heavy-duty, self-contained hopper spreader designed to spread free-flowing material from 4 to 40 feet. Spreader consists of a steel body and spinner assembly, top screens, pintle-chain conveyor system, power drive and all components required to deliver maximum performance.

Body:

Shall be of all welded 12-gauge stainless steel construction and 5.6 cubic yards struck capacity.

The hopper length shall be 10 feet long.

Overall height of the unit shall be 50 in.

The overall width to be no more than 82 in.

Body sides slope at 45° angle to promote free flow of material to the conveyor.

Front panel shall be tapered 20° to relieve pressure to the conveyor.

The sides and ends shall be constructed of 12-gauge stainless steel continuously welded to each other on the inside of the hopper, and the top of the body shall be double crimped, forming a 2 in. section for greater rigidity.

Body sills to be of formed 10-gauge stainless steel that ties the lower edge of the longitudinals to each side support. There shall be an adequate number of 12 gauge stainless steel side supports on 2 centers that extend the full side angle height rigidly tying in to the 7 gauge stainless steel formed channel cross sills with the body sides to give the highest degree of resistance to warping or twisting under heavy loads.

The body and conveyor shall be electrically welded into a rugged solid unit.

A heavy-duty lift hook shall be provided at each corner.

These lift hooks shall be inserted through holes in the double crimped section of the hopper walls, and welded in place for maximum strength.

A 6x4 in. formed box beam that is welded at each end will be elevated 3 in. above the top edge of the hopper, providing a longitudinal brace and hinge point for the top screens.

There shall be a formed 2x2 in. angle iron welded from the box beam to each side for additional support.

The rear endplate shall be reinforced inside and supported outside to give it maximum

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Conveyor:

Shall be of the chain barflight type running longitudinally with the body.

The top edge of the longitudinals shall be formed down over the chain link strands, leaving only the drag chain bar exposed to the material being spread.

Conveyor width shall be not less than 24 in. and shall be a heat-treated, all steel, self-cleaning pintle-type chain.

Chain shall be 2-1/4 in. pitch with 7/16 in. locked non-turning pins and a tensile strength of 21,000 pounds.

Chain bar flights shall have a cross section of 3/8x1-1/2 in. x 18-3/4 in. welded on the top and bottom to every other link and be positioned on approximately 4-1/2 in. centers.

Conveyor gearbox shall have a 50:1 reduction and be of a bronze worm-gear type having a cast-iron housing with a ring-mount bolt pattern and supported on tapered roller bearings.

Chain shall be driven through the gearbox by a low-speed, high-torque (1,200 inch lbs. at motor, 60,000 inch lbs. where it meets the conveyor) orbital-type hydraulic motor.

Conveyor drive sprockets shall be 8 tooth, drop-forged steel keyed to a 1-1/2 in. diameter C1045 steel shaft mounted in sealed, self-aligning ball bearings with grease fittings.

The idler sprockets shall be 8-tooth, drop-forged steel welded to a 1-1/2 in. C1045 steel shaft which is mounted in sealed, self-aligning ball bearings with grease fittings.

The conveyor bottom shall be of flat design, be of a minimum 3/16 in. steel and roll-over edges, shall bolt in and be replaceable

Spinner Assembly

Spinner assembly shall be fabricated from 12 gauge stainless steel, and shall be of the bottom mount motor design.

Material shall be guided from the conveyor to the spinner disc by means of an internal material baffle, which is easily adjustable without the use of any tools.

There shall be three adjustable stainless steel external spinner deflectors, and one fixed front shield to control the direction and width of the spread.

Baffles shall be adjustable without the use of any tools

Spinner Disc:

The spinner shall be made of polyurethane and shall be 20" in diameter and be equipped with six fins designed to give a uniform trajectory from four to forty feet.

This spinner disc shall be bolted to a cast iron hub directly connected to the independent low-speed, high-torque, orbital-type spinner drive motor

Spinner motor shall be 2.8 cubic inch, with nickel plated shaft for enhanced corrosion resistance and improved seal life.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Spinner Extension:

The spinner extension shall connect the spinner assembly to the longsills of the spreader, and shall be fabricated from 12 gauge stainless steel.

The extension shall provide adjustable mounting heights of the spinner assembly with a range of 15 inches, in increments of 3 inches.

Inverted Vee:

The spreader shall have an inverted vee over the conveyor to improve material flow to the conveyor.

The inverted vee shall have four support brackets to hold it in place.

The inverted vee shall be a formed angle, 8 X 8 in. X 12 ga. stainless steel

Top Screens:

Sectional screens with a maximum length per section of three feet shall be hinge to the 4 in. x 6 in. box beam which is made of stainless steel, and is bolted to both ends of the hopper.

Screens shall be constructed of 3/8 in. diameter steel rods welded to form a 2-1/2 in. square mesh which is framed by a combination of 1/4" X 1 1/2" . flat steel and 2 in. angle iron with edge supports reinforced by 1/4" X 1" in. flat bars.

Screens shall be removable and use a lock-type hinge.

Finish:

All metal shall have the mill scale, weld splatter, and oil residue removed and the surface shall be electro-chemically cleaned.

All stainless steel shall be left unpainted. All mild steel components shall be painted black.

Light Bar Assembly:

Light bar assembly with stainless steel enclosure. 78 in. wide, bolt on (4) LED. stop/turn/taillights and ICC ID marker lights, wire harness with pigtail and 7-prong trailer plug RV Style.

Grease Extensions:

Front bearing grease extensions to the rear of unit with manifold

Chain Oiler:

Shall be of a gravity flow design with a manual shutoff valve and have a reservoir capacity of 4 quarts.

Tank shall be polyethylene construction

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5C. Large Stainless Steel VBox Spreader (Cont'd)

Winch Assembly:

Winch assembly for BV or BVA models, hand crank to swing up spinner assembly.

Short Hose Kit:

Short hose kit includes Pioneer 4004PH quick-disconnect couplers (two sets) and four 1/2 in. hoses.

Subframe and Body Rollers

6" round rollers, powder coated black subframe

5D. Dump Body for 11' Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

Dump body:

- 11' floor length
- 24" high two-way dump gate
- 40" high bulkhead
- 10 gauge floor
- 12 gauge sides and 12" side board pockets
- Subframe and 6" ground rollers
- 18" Cab shield
- Heavy Duty D-Rings
- Painted Black

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5E. Stainless Steel Dump Body for 11' Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

Dump Body DB-I I-Stainless:

- 304 Stainless Steel w/ structural steel understructure
- Floors are 10 ga stainless steel w/ structural steel w/ 3" crossmembers on 16" centers
- Floor width 88"
- Tailgates constructed of 3/16" x 2" x 2" 304 Stainless steel tubing with 304 stainless steel 10 ga sheet, 27" H
- 40" 12 ga 304 stainless steel bulkhead
- 18" Cabshield
- 12", 12 ga 304 stainless sides with 12" board pockets
- Heavy Duty D-Rings installed
- Standard 6" Steel wheels

6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear

of body and 1-3/4" red white down side of body line

MOTOR VEHICLES; VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5F. Platform 11' Overall Floor Length

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

11' long platform, 1/8" diamond plate floor, 8' flat deck with 1' ramp tail
1-3/4" red white reflective conspicuity tape down side of body line and around rear

5G. Medium Duty Dump Box

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

10 cubic yard drop box, 11' long and 39" high, dump-style tailgate. Floor, sides and tailgate all 12 gauge material. 2 side posts.
Crossmembers are on 24" centers. 3" X 3" tubing top rail
Swing Door to curbside
6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5H. Medium Duty Dump Box High Sides

This body shall go with upgraded system from base. Can be purchased with truck or on its own for an existing unit.

13 cubic yard drop box, 11' long floor and 51" high, dump-style tailgate.
Floor, sides and tailgate all 12 gauge material. 2 side posts. Crossmembers are on 24" centers. 3" x 3" tubing top rail
Swing Door to Curbside
6" Wide Conspicuity Reflective Tape inverted "V" Red White complete rear of body and 1-3/4" red white down side of body line

5I. Manual Tarp:

For either dump or drop boxes

5J. Stake Sides and Removable Rear Stakes

5L. 24" Deep Chipper Top

Leaf top has additional venting for the air to escape - must specify at time of Purchase

5M. Coal Chute

Dump Body

MOTOR VEHICLES; VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

✓ **ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)**

COMPLIANCE
YES **NO**

✓ **OPTIONS: (Cont'd)**

✓ **5O. Mason Type Tarp**

- Waterproof
- 3 bar crossmember support
- Drop Box application only

✓ **5P. Split Doors for Drop Box For Chipper or Leaf Application**

1' Ramp on platform

Not to be selected if selecting a spreader for platform application

✓ **5Q. Fold Down Sides Steel**

Dump Body

✓ **5R. Fold Down Sides Aluminum**

Dump Body

✓ **5S. Road Department Paint Color Scheme**

Can be selected with all chassis options

Chassis to be prepped properly; sand appropriate area to reduce peeling

School Bus Yellow from the bottom of the windows down

Academy Blue #5240 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

✓ **5T. Light Package:**

Whelen Amber LED Lights:

Body upfitter must provide installation of lights so they work in conjunction with the equipment on the truck.

- 4 Micron Series Super LED in grill Amber
- 2 Micron Ion Series Super LED on rear bracket offender Amber

✓ **5U. Go Lights**

Mounted on cab roof:

One (1) Go Light GXL Xtreme Work Lights

- 6000 maximum lumens
- 5 amp draw
- 9-32VDC input

MOTOR VEHICLES; VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5V. Stainless Steel UTG Spreader

This accessory must have central hydraulics and spreader controls, used on dump bodies and chassis configuration. This option can also be purchased separately and installed on another vehicle which meets these requirements.

General:

This 6 in. auger under-tailgate spreader shall be of the bottom-opening design, with a safety shut off feature built into the hydraulic system. ☒ ☐

This mounting shall allow the dumping of materials without interference from the spreader. ☒ ☐

The spreader width shall not be over 96 in. ☒ ☐

Mounting:

The entire unit will mount to the sides and below the floor level of the dump box with single-pin, quick-detachable hardware. ☒ ☐

Mounting and removing shall be done without the use of any special tools. ☒ ☐

Safety Shut-Off:

The spreader shall incorporate a hydraulic safety shut-off feature that disables the hydraulic functions of the spreader. ☒ ☐

This shut-off shall prevent opening the bottom door or opening the top cover beyond a vertical position when the hydraulics are engaged. ☒ ☐

Feed Mechanism:

The six-inch, heavy-duty auger shall consist of 3/8 in. flighting with 4 in. pitch which is welded to a 2-3/8 in. O.D. Schedule 40 pipe. ☒ ☐

This auger shall have continuous and reverse flighting for more uniform emptying and is supported by 1-1/4 in. steel shaft ends. ☒ ☐

The auger shaft will be supported on one end in sealed, self-aligning, precision single-row radial bearings with grease fittings and on the other end by the drive mechanism. ☒ ☐

The auger shall be powered with a 22.6 cubic inch displacement hydraulic motor capable of delivering high torque at low speeds mounted to the end plate and directly coupled to the auger by a non-corrosive UHMW polyethylene sleeve and a 1/2 in. Grade 5 bolt. ☒ ☐

The discharge port is located 24 in. from the left end. ☒ ☐

Stainless Steel Hopper:

Rigid one-piece end plates of 7 ga. stainless steel shall be continuously welded to an auger trough of 7 ga. stainless steel. ☒ ☐

The unit will have a three-point hinged bottom pan that will expose the entire auger for easy clean out. This pan will be fabricated of 7 ga. stainless steel. ☒ ☐

The hinged bottom pan shall be held in place with two heavy-duty cam locks with a lifting handle near the front for easy one-man handling. ☒ ☐

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5V. Stainless Steel UTG Spreader (Cont'd)

Stainless Steel Hopper: (Cont'd)

The anti-spill cover over each discharge opening will be of 7 ga. stainless steel and shall be removable without the use of tools.

The lid will be of 7 ga. stainless steel and will be an integral part of the unit that may be raised when spreading or lowered when dumping.

This lid shall be locked in position by two latches that are replaceable.

Inside width of the trough shall be a minimum of 10-7/8 in.

Poly Spinner Disc:

The spinner shall consist of a single 18 in. diameter polymer disc with six formed polymer fins, to provide a flat trajectory and uniform spreading pattern from four to forty feet.

The spinner assembly shall be adjustable, allowing for variable spreading patterns left, center, or right by sliding the hinged frame sideways on the shaft so that the point at which the material hits the spinner disc is varied.

The spinner assembly shall be adjustable in height, providing four different ground clearance settings by means of four bolts.

The entire spinner assembly shall be easily removed by pulling two pins and uncoupling two hydraulic quick-disconnect hoses.

The spinner speed rate shall be variable through optional valve systems.

The polymer spinner disc will be mounted directly onto the hydraulic motor shaft by means of a steel spinner hub.

Spinner motor shall be 2.8 cubic inch, with nickel plated shaft for enhanced corrosion resistance and improved seal life.

The spinner assembly shall remain horizontal to the road at all dump box angles.

A spinner shield shall be provided to prevent material from striking the truck.

Finish:

All carbon steel components shall be painted black.

Stainless steel components shall be left their natural finish.

Spill Shields:

Steel spill shields shall be mounted to tailgate to stop any salt from spilling out the sides of the rear of the body..

Dump Accessibility:

No hydraulic hoses or trough handles are to be above the surface of the spreader.

Clean dumping surface must be provided

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5W. Flat Bed Service Body

General:

It is the intent of this bid to specify a 12' service body to be up fitted on a Switch N Go System for an 84" CA, this option is to be used with 11' Switch N Go System

Dimensions:

Floor:

- T&G Extruded Aluminum
- 102" x 56-3/8" Wide Center

Rear Service Body Tailgate

Latches:

- Manual Master Locking System

Compartments:

- 3 Per Side - 40 3/16" W x 34 7/16" T
- Welded to Flatbed Floor

Flatbed Construction:

- G-Tube Perimeter/2x3 .125 Cross Members
- 12" OC/2x3 .188 Box Tube Long Sills (Gussets every 4" from front to back)
- All Extruded 6005 Aluminum/Box Tube Construction

Bulkhead:

- Extruded Aluminum Headboard

D-Rings:

- 6 Recessed Stainless Steel D-Rings (3 Per Side)
- Spring-Loaded, 4.4K LB Rating, Evenly Spaced

Cargo Securement:

- 2 Rows of E-Track Center Body Length
- 4 Ratchet Straps 2" x 12'

Body Shell:

- Paint to match County Department Color
- Each Cabinet to have 3 shelves with dividers

5X. Brine Water Tank

This unit as specified will need to operate with a central hydraulic system. It can be used on all Switch N Go Applications

General:

The system shall have the capability to maintain a uniform application rate of deicing liquid materials behind the truck. The system will have the capability of being used in a manual control (open loop) and automatic control (closed loop). System will consist of a single lane stainless steel spray bar.

Liquid pumping system shall have a hydraulic driven liquid pump. Hydraulic driven systems shall be available up to 100 gpm output.

Introduced on: September 20, 2023
Adopted on: September 20, 2023
Official Resolution#: 2023001340

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5X. Brine Water Tank (Cont'd)

Fluid Handling Components:

All fluid handling components shall be constructed of material suitable for handling liquid deicing chemicals without deterioration, corrosion or damage.

Plumbing shall not contain any components manufactured from galvanized or steel fittings.

Liquid tank size shall be 735 gallon.

Overall dimensions of tank shall not exceed 104" length x 48" W x 49" H (including lid).

Tank will include an option of being mounted on a sub frame with stand that will allow for raising the dump body to install and remove the tank assembly without the use of front end loader or forklift.

Tank will be mounted to either steel subframe or other tank support utilizing ratchet straps.

The tank will have gallon markings visible on the rear of tank

Liquid Pump:

Hydraulic driven centrifugal pump:

- A liquid centrifugal pump driven by a hydraulic motor with a maximum output of 235 gpm to allow application rates of up to 60 gallons per lane mile at 60 mph on the highway.
- Additional liquid centrifugal pumps will be available to allow maximum output of 25 or 100 gpm to allow application rates at low speeds and application rates for parking lot or side streets

System shall have inline removable inlet strainer with 304 stainless filter screen.

Screen mesh shall be sized to handle all types of deicing chemicals and protect the pumps and other downstream components from becoming plugged, restricted or premature wear.

Plumbing:

A manual ball valve is required at the outlet suction of the tank to isolate the liquid from draining from the tank if service is required to the liquid pump, shut offs, check valves or any part of the spraying system.

Tank shall have a second manual 3-way ball valve to allow for filling of the tank by an independent external pump through a 2-inch fitting, or self-loading of the tank by the trucks 2" suction hose and pump

The 3-lane main boom section shutoff assembly shall be a KZCO common manifold that does not require flange style fittings between each lane section left, center and right. Each boom shut off section is a ball style off/on electrical valve that requires a 12 volt on, 0 volts off control signal and operate from closed to wide open in 1.5 seconds or less

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

**5X. Brine Water Tank (Cont'd)
Plumbing (Cont'd)**

Quick coupe connections to have integral cam locks and tethered dust caps/plugs

Spray Bar:

The spray bar shall be designed to provide an application of liquid de-icing material right behind the truck in a single boom application

Spray bar shall not exceed 8 feet in length. Spray bar shall be assembled with vertical sidebars (left and right boom sections and horizontal center spray bar) and manufactured from 304 stainless steel

Spray bar shall be constructed of stainless steel with stainless steel nozzles. Center spray bar shall have a minimum of twelve (12) nozzles

Tank Mounting:

The 735 gallon tank will be mounted to a powder coated steel sub frame with 2 ratchet straps. The dimension of the sub frame shall be 58" in width and 120" in length

The sub frame with stand consisting of legs that fold or pivot to allow for easy storage of tank on the ground and ease of installation into the dump body. The front legs will fold us as the tank is inserted into the dump body allowing for installation and removal of the tank assembly without the use of a front end loader or forklift.

5Y. 48" Under Body Tool Box

For use with Ford F-550 with 84" CA and No I-Pack Tool Box-Platform and Dumping Platform. Can be purchased for existing vehicles that meet these requirements.

Weatherguard Tread plate Aluminum 650-0-02:

- 48" X 18" X 18"
- 16.0 cu ft
- Door Opening 19-1/2" High and 43-1/4" Wide
- Stainless Steel D-Handles

5Z. 30" Under Body Tool Box

For use with Ford F-550 with 60" CA on Dump Body and Platform. Can be purchased for existing vehicles that meet these requirements.

Weatherguard Tread plate Aluminum 631-0-02:

- 30-1/8" X 18" X 18"
- 5.4 cu ft
- Door Opening 13-1/2" High and 25-1/4" Wide

Introduced on: September 20, 2023
Adopted on: September 20, 2023
Official Resolution#: 2023001340

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5AA. Arbor Body: AB-11

Structural Steel Construction with ZRP Zinc Primer Rubberized underneath protectant coating

Painted to match cab

Body width interior 76" with interior ladder box and 96" exterior

Floors are constructed of 10 ga. Galvanneal steel with formed 3"x 3/16" Channel with corner gussets

Roof & Tailgate are constructed of 14 ga. Galvanneal steel

Sides are constructed of 12 ga. Galvanneal steel with side stiffeners On 36" center

Tailgates are constructed of a 14 ga. Steel sheet with 1-1/2" x 1/8" Tubular frame work with a height of 30"

Standard 6" ground rollers

5BB. Van Body: VB-1283

Aluminum Box Tube Construction with a smooth .049 bonded Exterior white skin finish

Interior Body widths are 92" and exterior width is 96" Interior height is 83.5"H

Roofs are constructed of a one piece .032 Aluminum crown roof with Radius front roof & vertical corners for aerodynamics

Floors are constructed of tongue and groove extruded aluminum Interior sides are constructed with 1/2 plywood with e-track for Customizable solutions

Extruded 6005 T6 Alum Box Tube construction, 2" x 3" crossmembers at 12"

Centers

Rear door opening: 86" W x 77" H, Roll-up door with stainless steel Fastener

Standard 6" steel ground rollers

5CC. Work Ready Subframe: WRSF-11

Structural Steel Construction with zinc prime and powder coat finish

Body width is 80" outside with a 26" W x 9" D rear cutout

Floors are constructed with a center 1/8" diamond sheet and 19" Wide

3/4" expanded metal sides crossmembers are constructed of 3" structural channel on 12" centers

equipped with two front retractable legs and two detachable 6" ground rollers

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5DD. Maxscaper 12' Aluminum Landscaper Body Attachment

GENERAL

Outside Dimensions:

12' Long X 96" Wide

Inside Dimensions:

48" Height X 88" Wide

Cross Members:

On 12" Center - 2" x 3" x 1/8"

Construction:

All Aluminum 6000 Series Box Tube Construction

Premium B-Tube Perimeter Frame 6000 Series

Aluminum Sheet Sides .125" 5000 Series

Flat Bar Tie Rail 2" x 1/4"

3/16" Smooth Aluminum Floor

2" x 3" Crossmembers on 12" Centers body to be ordered without longsills to fit on Switch N Go rails, also a doghouse is to be cut out so the body bulkhead so it slides all the way forward for installation

Heavy Duty Rear Corner Posts 3" x 3" 6000 Series Aluminum

Barn Doors with Polished Stainless Steel Locking Bar

Solid Aluminum Headboard .125" (screened window cover is not acceptable)

52" wide side door at front corner of curbside of body with Stainless Steel Locking Bar

6" Wide Conspicuity Reflective Tape inverted "V" Red/Yellow complete rear of body and 1-3/4" red white down side of body line

Switch N Go Subframe with 6" Rollers

- All dissimilar metals to have Teflon liner between the two (2) metals before installation

Introduced on: September 20, 2023
Adopted on: September 20, 2023
Official Resolution#: 2023001340

MOTOR VEHICLES; VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

✓ **ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)**

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<u>OPTIONS: (Cont'd)</u>		
<u>5DD. Maxscaper 12' Aluminum Landscaper Body Attachment (Cont'd)</u>		
Aluminum Leaf/Chipper Top:		
All Aluminum Construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bolts to top rail of Landscape Body	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Extruded Aluminum Frame	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Smooth Side 1/8" Mill Finish sides	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Heavy Duty 3/16" front wall sheet	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Punched Ventilation in roof sides		
- 3 6" x 12" punched vents screened in bulkhead		
- 1 6" x 12" punched vent screen in front section of each side		
- 3 6" x 12" punched vents screened in center of each side of body		
- 1 6" x 12" punched vent screen in rear panel on each side of body	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Punched Ventilation in roof top		
- 4 12" x 12" screened vents spaced evenly in the roof	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Lifting hooks total of 4		
Rear of chipper top shall have a single aluminum fold down door and be pin able to work in conjunction with rear doors so it doesn't flop around, upfitter shall cut a hole in door to work with leaf machine approximately 12" in diameter, bottom of the hole to be 105" off ground	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Teflon gasket to be installed on bottom of the leaf/chipper top	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Switch N Go Rails and undercarriage to be coated with Ziebart undercoating.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>5EE. Chipper Leaf Top for Landscaper</u>		
Bolt on Chipper top for Aluminum Landscaper		
Additional venting for leaf cap, must specify at order	<input checked="" type="checkbox"/>	<input type="checkbox"/>

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5FF. Diagnostic Tools / Test Equipment

1. Successful bidder shall be required to supply between one (1) and three (3) complete sets of OEM testing/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)
2. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software
3. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid
4. All software installations and activations will be completed by the successful bidder at no cost to the County
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
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
7. Training shall be provided on all items in this section at a specified County Location

5GG. 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:

- #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps
- #12 AWG BLACK wire connected to chassis ground
- #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps

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.

Wiring harness shall be clearly labeled "TWO-WAY RADIO". Wires shall be unterminated 12VDC sources shall be protected from making contact with grounded metal surfaces.

5HH. 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, the following power and wiring components shall be included:

- #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- #12 AWG BLACK wire connected to chassis ground.
- #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES NO

OPTIONS: (Cont'd)

5HH. 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.

5II. Technical Support

Technical Support is to be provided by factory authorized technical representatives and shall be the original equipment Manufacturer's 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

- Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
- Transmission – 1 day at each location
- Electrical – 1 day at each location
- Brakes – 1 day at each location
- Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
- Upfitter (dump body, sweeper, etc.) – 1 day at each location

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 shall be allowed only with consent of Vehicle Services

Total training hours shall be provided and no additional compensation will be considered

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

MOTOR VEHICLES: VARIOUS BODIED HEAVY DUTY TRUCKS NO. II

ITEM #5 - CURRENT MODEL YEAR, OR NEWER, FORD F550 REGULAR CAB WITH SWITCH-N-GO DETACHABLE TRUCK BODY SYSTEM INCLUDING ACCESSORIES, AS SPECIFIED, OR EQUAL (CONT'D)

COMPLIANCE
YES **NO**

OPTIONS: (Cont'd)

5II. Technical Support (Cont'd)

Technical Support for Vehicle Services may be provided at the following fleet maintenance facility locations as scheduled by a Vehicle Services Department representative:

- 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)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Successful bidder shall provide Technical Support sessions for other Departments which will be held at an Ocean County location specified by the requesting Department

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