



## 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

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### Board Meeting Agenda

Date: May 3, 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 VEHICLE: MECHANICAL STREET SWEEPER to Robert H. Hoover and Sons, Inc., the sole qualified bidder. (B2023-81)

<b>Official Resolution#</b>	<b>2023000596</b>						
Meeting Date	05/03/2023						
Introduced Date	05/03/2023						
Adopted Date	05/03/2023						
Agenda Item	I-3						
CAF #							
Purchase Req. #	B2023-81						
Result	Adopted						
<b>COUNTY COMMISSIONER</b>	<b>PRES.</b>	<b>ABS.</b>	<b>MOVE</b>	<b>SEC</b>	<b>AYE</b>	<b>NAY</b>	<b>ABST.</b>
Joseph H.	✓				✓		
Gary	✓				✓		
Barbara Jo	✓		✓		✓		
Virginia E.	✓			✓	✓		
John P.	✓				✓		

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*

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Clerk Of The Board

CONTRACT NO. MUST BE ON ALL  
PAPERS, DOCUMENTS, INVOICES, VOUCHERS  
NO. B2023-81

RESOLUTION

May 3, 2023

WHEREAS, on April 11, 2023, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLE: MECHANICAL STREET SWEEPER for the County of Ocean; and

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

<u>Name of Bidder</u>	<u>Address of Bidder</u>
Robert H. Hoover and Sons, Inc.	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 OF 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 Vehicles: Mechanical Street Sweeper, for the County of Ocean, for the contract period from date of award through May 2, 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, as follows:

ROBERT H. HOOVER AND SONS, INC. for six (6) items, to wit:

ITEM NOS. 1, 1a, 1b, 1c, 1d and 1e.

For a Total Lump Sum Award (Item #'s 1 - 1e) of \$1,335,879.00.

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

2. Payments for the equipment to be acquired by this contract shall be made upon the approval of vouchers submitted by the successful bidder 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 shall be available within the following funding Sources: 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 B2023-81.

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, Roads, Vehicle Services and Robert H. Hoover and Sons Inc., the successful bidder.

Bid No. TBD

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**12. 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**

**MOTOR VEHICLE: MECHANICAL STREET SWEEPER**

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total
✓ 1	Model year 2023, or Newer, Six Wheel Single Engine Broom Street Sweeper with Cleated Belt Conveyor, As Specified, or Equal	3	EA	\$369,702.00	\$1,109,106.00
<b>OPTIONS</b>					
✓ 1a	Road Department Color Scheme, As Specified	3	EA	\$1,426.00	\$4,278.00
✓ 1b	Diagnostic Tools/Test Equipment, As Specified	3	SET	\$24,715.00	\$74,145.00
✓ 1c	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	3	EA	\$500.00	\$1,500.00
✓ 1d	Installation of County-Supplied Two-Way Radios and Accessories, As Specified	3	EA	\$950.00	\$2,850.00
✓ 1e	Technical Support, As Specified	180	HOUR	\$800.00	\$144,000.00
<b>TOTAL</b>					<b>\$1,335,879.00</b>

Introduced on: May 3, 2023

Adopted on: May 3, 2023

Official Resolution #: 2023000596  
 Bid - MOTOR VEHICLE: MECHANICAL STREET SWEEPER

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL**

**SWEEPER:**

**MODEL/MANUFACTURER: Elgin Broom Bear**

**WARRANTY: 5 Year**

**CHASSIS:**

**MODEL/MANUFACTURER: Freightliner M2-106**

**WARRANTY: 1 Year**

**ENGINE:**

**MODEL/MANUFACTURER: Cummins L9**

**WARRANTY: 5 Year 100,000 mile**

**TRANSMISSION:**

**MODEL/MANUFACTURER: Allison 3500 RDS**

**WARRANTY: 5 Year unlimited miles**

**HOPPER SYSTEM:**

**WARRANTY: Limited lifetime warrant**

**DELIVERY, A.R.O.: 360 Days**

**COMPLIANCE**  
**YES**                      **NO**

✓ **Section A – Chassis**

**INTENT**

It is the intent of this specification to provide for the purchase of new and unused street sweeper(s) having a six (6) wheel configuration, single engine for propulsion and sweeping, 5.4 cubic yard right side variable high dumping hopper, automatic transmission, dual steering and operator controls, cleated belt conveyor, left side and right side broom with variable down pressure controller from cab.

                    

The following specification is based upon an Elgin Sweeper Broom Bear street sweeper mounted on a conventional chassis. The County has evaluated different types of street sweepers and has determined that this product is best suited for their needs in safety, quality, performance, and standardization. This specification is not to be interpreted as restrictive, but rather as a measure of the safety, quality and performance against which all sweepers bid will be compared.

                    

Contract will be awarded for the product which best serves the interests of the County when cost, product, safety, quality and delivery are considered. The County reserves the right to reject any or all bids or any part thereof, and to waive any minor technicalities. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements. **The County requires that the sweeper(s) be delivered no later than six (6) months After Receipt of Order (A.R.O.).**

                    

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MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**Section A – Chassis (Cont'd)**

**CHASSIS – SET BACK AXLE**

For safety, service, parts availability, etc. the chassis shall be of a commercially available conventional cab type configuration. A purpose built chassis manufactured by the sweeper company will not be acceptable.

                    

The wheelbase shall not exceed 144 inches; cab-to-axle shall be 75.4 in.

                    

Gross Vehicle Weight Rating (GVWR) shall be not less than 33,000 pounds.

                    

For safety, certification of Federal Motor Vehicle Safety Standard (FMVSS) compliance shall be submitted with the proposal. Failure to comply will result in proposal being rejected as "non-responsive".

                    

Chassis shall be capable of safely propelling the sweeper, loaded to the maximum GVWR, under all normal sweeping and transport conditions.

                    

Vehicle shall be rated for carrying an 11,000 lb. load in the hopper at highway speed of 65 MPH and should not be speed restricted by tire limitations.

                    

Speed shall be governed at 65 MPH.

                    

Manufacturer shall certify that pass-by noise level at fifty (50) feet (per SAE J 1077) while sweeping, does not exceed 79 dB(A).

                    

Front axle shall be an I-beam type, 68" track; with a minimum capacity of 10,000 lbs. Detroit DA- 10.0-3, or equal, front axle shall have leaf spring suspension and shock absorbers as standard equipment to avoid high stress areas and cracking of the chassis. Front axle brakes shall be Meritor 15x4 Q + cam, or equal, brakes. Shall be equipped with non-asbestos brake lining.

                    

Rear axle shall have a minimum capacity of 23,000 lbs.

                    

Rear suspension shall be provided through a twin air spring suspension system having a minimum capacity of 23,000 pounds. Rear axle brakes shall be Meritor, or equal, 16.5 x 7 cast spider, double anchor.

                    

Rear axle shall provide a full width heavy duty; 80" track.

                    

Two-speed rear axle shall have a 6.17/8.42 ratio. An auxiliary transmission for sweeping is not acceptable.

                    

Turning radius shall not exceed 19' 6" curb to curb. Front axle steering cut shall be

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**Section A – Chassis (Cont'd)**

**CHASSIS – SET BACK AXLE (Cont'd)**

Brakes shall be full air dual circuit type with auto slack adjusters, front and rear.

Wabco ABS brakes shall be supplied.

Air compressor shall be 18.7 CFM.

Parking brake shall be spring applied rear wheel drum and shoe.

Air shall be equipped with a Bendix AD-9 air dryer.

Chassis shall include front tow hooks. Access to frame on both sides of machine for jacking purposes shall be available.

**CHASSIS ENGINE**

Diesel engine shall be a Cummins L9, or equal, electronic inline 6 cylinder, turbocharged, 543 cubic inch displacement. The engine shall supply power for propulsion and sweeper functions.

Horsepower rating shall be 260 HP @ 2200 RPM. Torque rating shall be 860 ft-lbs. @ 1200 RPM.

Engine shall be supplied with a low oil pressure and high water temperature warning system integrated in the engine electronic system.

Engine shall be equipped with a single stage, dual element dry-type air cleaner, spin-on fuel filter, full flow oil filter, and fuel water separator.

Radiator fan shall utilize a clutch type drive. Direct drive fans shall not be acceptable.

Anti-freeze/water mixture shall be rated at -34 F degrees.

Diesel fuel tank shall have a minimum capacity of 50 U.S. gallons.

Diesel emissions shall be EPA 2014 with on board diagnostics (ODB) and have a minimum capacity of six (6) U.S. gallons diesel exhaust fluid.

Engine shall be supplied with a powder-coated or non-ferrous oil pan.

**TRANSMISSION**

Automatic transmission, Allison 3500 RDS, or equal, shall have five (5) forward speeds and one (1) reverse. PTO (Muncie, or equal) mounting shall be on left side of

transmission:

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**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

✓ **Section A – Chassis (Cont'd)**

**TRANSMISSION (CONT'D)**

Transmission shift pattern shall be illuminated for night operation. Shift operation shall be by push button in lieu of shift lever. ☒                      ☐

Transmission shall be equipped with a heavy-duty oil cooler and magnetic drain plugs. ☒                      ☐

Synthetic Transmission fluid (TES-295 compliant) shall be provided. ☒                      ☐

**TIRES AND WHEELS**

Front and rear tires shall be first line quality tubeless radial tires, 11R X 22.5, 14 ply rating. ☒                      ☐

Tires shall be mounted on ten (10) hub piloted steel disc 22.5/8.25 rims. ☒                      ☐

One (1) full size spare tire and rim, mounted, shall be provided. ☒                      ☐

Rear axle shall be equipped with dual tires for load capacity and stability. Rear mud flaps shall be supplied. ☒                      ☐

All wheels shall be interchangeable to allow for emergency change at the job site. ☒                      ☐

**CAB**

For maximum visibility, the forward line of sight (distance from operating position to view of ground) shall be 16 feet maximum. ☒                      ☐

Steering shall be full power with dual operator controls. Dual OEM dash mounted instrumentation, including speedometer, odometer, tachometer, hour meter, water temperature, oil pressure, voltmeter, fuel gauge and transmission temperature gauge. ☒                      ☐

Dual steering shall include right and left steering wheels, brake and throttle pedals, center mounted single windshield wiper control, dual turn signal controls, and tilt adjustment. Chassis shall be Fontaine authorized for Warranty. ☒                      ☐

Console shall have Left / Right primary driver switch which changes controls for the operator station and instrumentation from left to right and back. For safety driver switch can only be activated with the parking brake applied. ☒                      ☐

Dual high back seats with black cordura cloth covers shall be supplied. ☒                      ☐

Each seat shall have a 3-point seat belt with automatic retractors. ☒                      ☐



MOTOR VEHICLE: MECHANICAL STREET SWEEPER

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**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES NO**

**Section A – Chassis (Cont'd)**

**CAB (CONT'D)**

Sweeper shall include two (2) outside heated and power adjustable west coast type mirrors with molded in 8-inch convex auxiliary mirrors and left and right mounted fender mirror.

Cab shall be full width Aluminum cab with one-piece fiberglass tilting hood.

Hydraulic functions shall be controlled by a single rocker switch which activates the hydraulic power which is supplied from the "HOT SHIFT" PTO on the transmission. The hydraulic system must be able to be disengaged in case of a hydraulic oil leak, thus allowing transport capability without draining the hydraulic oil tank. Full time live hydraulics or the use of an auxiliary transmission in the drive train will not be acceptable.

For safety during night sweeping, rocker switches shall be illuminated and clearly marked for easy identification. All sweeper controls shall be mounted between the two (2) operators seats for easy reach and visibility.

Cab shall be supplied with an AM/FM/WB World tuner Radio with Auxiliary Input, J1939.

Dual electric horns and single air horn shall be supplied.

Cab interior environment shall be fully conditioned by fresh air heater / ventilator / defroster / air conditioning with a three (3) speed fan.

Cab shall have full flow through ventilation.

Windshield wipers shall be two (2) speeds with washer.

Wipers shall have an intermittent feature.

Interior of cab shall have acoustical insulation, automotive type trim, and center console.

Dashboard shall be fully faced with soft molded plastic; two (2) cup holders shall be included.

Left and right hand side grab handles shall be supplied to aid in operator entry and exit from the cab.

Sweeper shall have an automatic electronic back-up alarm.

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

✓ **Section A – Chassis (Cont'd)**  
**CAB (CONT'D)**

Each operator station shall have an adjustable sun visor.                                           

Doors and ignition shall be key locked alike.                                           

All glass shall be tinted safety glass.                                           

Side windows shall have a defogger.                                           

Door windows shall be power controlled.                                           

Manufacturer must certify that cab noise level while operating does not exceed 82 dB(A).                                           

**ELECTRICAL**

Chassis alternator shall not be less than 160 amp.                                           

Shall be a 12-volt negative ground system.                                           

Dual batteries shall be maintenance free, 12 volt, and 1850 CCA total with disconnect.                                           

Positive load disconnect with cab mounted switch, outboard driver's seat.                                           

For safety, all electrical circuits must be protected by blade type fuses.                                           

All lighting shall be DOT approved (LED) including combination stop and tail lights, backup lights, sealed multiple beam headlights, high beam - low beam switch, adjustable side broom and main broom spotlights, clearance and running lights, front parking and signal lights, four way flashers, dome light, illuminated gauges and instrument panel, illuminated rocker switches, self canceling directional signals, and hazard switch.                                           

Warning lights shall indicate glow plug, air brakes, stop and tail light failure, charging system, park brake, engine oil system, hydraulic oil filter restriction and low spray water.                                           

**LIGHTING**

All lighting shall meet DOT safety requirements.                                           

Front and rear shall have clearance lights.                                           

Left and right sides shall each contain two (2) clearance lights.                                           

Front and rear directional lights with emergency flasher shall be provided.                                           

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**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**Section A – Chassis (Cont'd)**

**LIGHTING (CONT'D)**

Work lights for each gutter broom and the rear broom shall be provided.

                    

Dash, all console switches and all gauges shall be illuminated.

                    

An automatic back-up light and electric alarm shall be activated when transmission is placed into reverse.

                    

License plate holder shall be illuminated.

                    

Vehicle shall have two (2) rear side combination light/reflectors.

                    

**Section B – Sweeper**

**SIDE BROOMS**

Brooms shall be driven by a hydraulic motor directly mounted to broom disc plate. They shall be the vertical digger type, trailing arm design, mounted on right and left side. The right side broom shall have in cab tilt control.

                    

To hold broom pattern, regardless of up and down motion, arm suspension design shall be the parallelogram type.

                    

Broom rotation speed shall be constant governed by load sensing hydraulic system, regardless of engine RPM or sweeper ground speed.

                    

Broom down pressure shall be adjustable by operator from the cab while moving.

                    

Broom shall be five (5) plastic segments, filled with 26" long tempered wire. Discs shall be cross-drilled for five (5) or four (4) segment usage.

                    

Broom diameter shall not be less than 44", protruding not less than 13" beyond outside of tire while sweeping.

                    

Broom location shall be positioned to provide best sweep path in relation to the main broom.

                    

Each broom shall have a spotlight for night operation.

                    

Side brooms must be capable of extending from 110" to 144" with both side brooms activated.

                    

**MECHANICAL MAIN BROOM SUSPENSION**

Broom shall be direct drive by a hydraulic motor.

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**Section B – Sweeper (Cont'd)**

**MECHANICAL MAIN BROOM SUSPENSION (Cont'd)**

Broom shall be not less than 34" diameter and not less than 60" long.                      

Broom rotation speed shall be constant, governed by load sensing hydraulic system, regardless of engine RPM or ground speed.                      

Broom shall be full floating with self-aligning bearings.                      

Shall be strip broom center style, in lieu of standard.                      

Broom side plates shall be equipped with poly brush drag shoes.                      

**MAIN BROOM**

Sweeping path shall be not less than 7-1/2' wide with one (1) side broom activated, and not less than 10' wide with both side brooms activated.                      

Main broom shall be shielded by a steel broom hood. Plastic hoods shall not be acceptable due to cracking.                      

Main broom and conveyor shall have a work light.                      

Broom shall be hydraulically raised/lowered and be capable of movement independent of the conveyor assembly to effectively sweep varying debris. This independent movement also avoids damage to the main broom or the conveyor assembly during sweeping.                      

**CLEATED BELT CONVEYOR**

Conveyor shall be able to load hopper to 100% of rated useable capacity.                      

To maintain heavy loads of material, the conveyor shall be high strength belt type with molded-in full width Chevron style cleats to carry material to the hopper. Squeegee type flight system that drag material will not be acceptable.                      

An audible conveyor stall alarm shall be provided as a warning to the operator.                      

Conveyor shall be reversible in direction. The main broom shall stop rotation while conveyor is reversed.                      

Conveyor shall be capable of effectively sweeping debris of varying sizes without the need to make any manual adjustments to the conveyor system. An in cab conveyor height adjustment, independent of the main broom shall be supplied.                      

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**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**Section B – Sweeper (Cont'd)**

**CLEATED BELT CONVEYOR (Cont'd)**

To provide proper clearance during variable sweeping conditions, the minimum conveyer height shall be settable, independent of main broom height.

                    

Conveyer shall be a full 54" width. An auger system for feeding the conveyer shall not be acceptable.

                    

**HOPPER**

For safety, the hopper shall be right side dumping, allowing an operator to observe the dump target and surrounding area at all times from the cab, without the use of mirrors. All dump controls shall be cab mounted.

                    

Volumetric capacity shall be not less than 5.4 cubic yards, with useable capacity not less than 4.3 yards. A hopper inspection door shall be supplied.

                    

Hopper shall dump at varying heights ranging from 38" through a height of 10'. Dump angle to be 50 degrees minimum. Fixed height dump systems shall not be acceptable.

                    

Lift mechanism shall be double stage, scissors lift system. Hopper lift cylinders to be 3.5" x 33.5" stroke minimum, hopper dump cylinders to be 3.5" x 19.8" stroke minimum.

                    

Hopper to offer not less than 11" side shift to off load for maximum dumping efficiency and for extra clearance between sweeper and dump truck. Minimum clearance between sweeper and truck shall be 28".

                    

Hopper load shall be visible at all times from the cab through a glass window and skylight.

                    

Maximum time for dump cycle shall not exceed eighty (80) seconds.

                    

Lift capacity shall be not less than 11,000 lbs.

                    

Hopper to be constructed of 7 gauge abrasion resistant steel floor and 11 gauge door, top, and sides. Lifeliner Hopper System shall be lined with a urethane coating.

                    

Units that require use of jack stands and/or outriggers to stabilize the chassis during dumping procedure shall not be acceptable.

                    

**WATER SYSTEM**

Tank capacity shall be not less than three hundred sixty (360) U.S. gallons.

                    

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**COMPLIANCE**  
**YES**                      **NO**

**Section B – Sweeper (Cont'd)**

**WATER SYSTEM (CONT'D)**

Tank shall be constructed of a non-metallic, non-rusting polyethylene material. Removable manhole cover for tank access shall be supplied.

                    

Water pump shall be diaphragm type capable of running dry without damage.

                    

A water level gauge indicator shall be located within the cab.

                    

Shall be equipped with ten (10) brass spray nozzles for dust suppression. Three (3) spray nozzles shall be over each side broom, three (3) spray nozzles shall be located at the main broom. Side brooms shall have separate water control. A full width front spray bar shall be installed under front bumper.

                    

Water fill hose shall be not less than 15' in length, equipped with a 2-1/2" NST hydrant coupler.

                    

Water to front spray bar shall be cab controlled with adjustable valves, which control water flow.

                    

An in-line water filter with shut off valve shall be in water system to prevent contaminants from entering the water system.

                    

To prevent the contamination of the water supply, tank shall be equipped with an anti-siphon device.

                    

Shall be equipped with an air purge system.

                    

**HYDRAULIC SYSTEM**

Reservoir shall have a capacity of twenty-three (23) gallons with outside level and temperature indicator.

                    

Twin pumps that shall be a variable displacement piston type that are directly driven, by a hot shift PTO, with load sensing to adjust flow based upon hydraulic oil demand in the sweeping gear to maximize efficiency and reduce heat for longevity of all the hydraulic systems.

                    

To prevent contamination of the reservoir during the dump cycle, the reservoir vent shall be equipped with a 40 micron, breather filter.

                    

To prevent the possibility of contamination and the resulting damage to the hydraulic system, return lines to have 10 micron filter with cab mounted restriction indicator.

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

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**COMPLIANCE**  
**YES**                      **NO**

**Section B – Sweeper (Cont'd)**

**OPERATOR TRAINING**

Shall be provided to the requesting department for up to six (6) sweeper operators.

**OPTIONS:**

**1A. Road Department Color Scheme**

Color shall be Chrome Yellow body and chassis with two tone Chrome Yellow and Bahama Blue for the front hood and cab.

**1B. Diagnostic Tools/Test Equipment**

Cummins Quickserv Unlimited Service plan and Cummins InSite, with renewals, shall be provided at no cost to the county for a period of five (5) years from the acceptance of the equipment

Successful bidder may be required to supply between one (1) to three (3) complete sets of OEM (Original Equipment Manufactured) 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). Examples of OEM diagnostics are as follows:

Ford IDS, Cummins Quickserv, Mack Tech Tool, John Deere Service Advisor, Freightliner Diagnostic Link

1. All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software
2. Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid
3. All software installations and activations will be completed by the successful bidder at no cost to the County
4. 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
5. 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
6. Training shall be provided on all items in this section at a specified County location

MOTOR VEHICLE: MECHANICAL STREET SWEEPER

**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**      **NO**

**OPTIONS: (CONT'D)**

**1C. 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.

    

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.

    

**1D. 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:

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

    

**1E. Technical Support**

Technical Support is to be provided by factory authorized technical representatives and is to 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.



**ITEM #1 – MODEL YEAR 2023, OR NEWER, SIX WHEEL SINGLE ENGINE BROOM STREET SWEEPER WITH CLEATED BELT CONVEYOR, AS SPECIFIED, OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES**                      **NO**

**OPTIONS: (CONT'D)**

**1E. Technical Support (Cont'd)**

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.

                    

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. First (1st) beginning at 7 am and Second (2nd) beginning at 1:30 pm)
- Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

                    

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 total hours total during a period not to exceed 12 months

*ROBERT H. HOOVER AND SONS, INC.*

MOTOR VEHICLE: MECHANICAL STREET SWEEPER  
from the date of placing the last unit in service.

**Res-Pg:1.3-18**

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