



Ocean County Board of Commissioners

OFFICE OF THE
OCEAN COUNTY COMMISSIONERS

Director John P. Kelly
Deputy Director Frank Sadeghi
Commissioner Robert S. Arace
Commissioner Jennifer Bacchione
Commissioner Virginia E. Haines

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

Board Meeting Agenda

Date: September 17, 2025 - 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: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK to Robert H. Hoover & Sons, Inc., the sole qualified bidder. (B2025-128)

Official Resolution#	2025001333
Meeting Date	09/17/2025
Introduced Date	09/17/2025
Adopted Date	09/17/2025
Agenda Item	I-3
CAF #	
Purchase Req. #	B2025-128
Result	Adopted

COUNTY COMMISSIONER	PRES.	ABS.	MOVE	SEC	AYE	NAY	ABST.
Kelly	✓				✓		
Sadeghi	✓				✓		
Arace	✓		✓		✓		
Bacchione	✓			✓	✓		
Haines		✓					

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 17, 2025

WHEREAS, on August 5, 2025, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLE: FLATBED TRUCK WITH HYRDAULIC DIGGER DERRICK 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 & 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 & 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 for the furnishing and delivery of Motor Vehicle: Flatbed Truck with Hydraulic Digger Derrick for the County of Ocean, for the contract period shall be one (1) year from date of award, 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. MOTOR VEHICLE: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK for five (5) items, to wit:

ITEM NOS. 1, 1A, 1B, 1C and 1D.

For a Total Lump Sum Award (Item Nos. 1-1D) of \$557,589.00.

This vendor has extended this contract to County Cooperative Contract System Participants, Identifier CK-02-OC.

2. Payments for the materials and services to be acquired by these contracts 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 materials or services described herein shall be made available through operating and expense (O&E) accounts, trust accounts, grant accounts, or capital accounts maintained by, but not limited to, the following departments: Bridges and Vehicle Services.

4. Payments for the materials to be acquired by these contracts 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.

5. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2025-128.

BE IT FURTHER RESOLVED that certified copies of this Resolution shall be made available to the County Auditor, Department of Purchasing, Department of Finance, Bridges, Vehicle Services and the successful bidder.

[ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT
 Bid No. TBD
 MOTOR VEHICLE: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total
✓ 1	Current Model Year Or Newer M2 106 Freightliner Chassis With Altec Dm47e Hydraulic Digger Digger, As Specified Or Equal	1	EA	\$397,064.00	\$397,064.00
OPTIONS					
✓ 1A	Diagnostic Tools / Test Equipment, As Specified	3	SET	\$22,625.00	\$67,875.00
✓ 1B	Two-Way Radio Power and Wiring Requirements for New Vehicles, As Specified	1	EA	\$850.00	\$850.00
✓ 1C	Installation of County Supplied Two Way Radio and Accessories, As Specified	1	EA	\$1,800.00	\$1,800.00
✓ 1D	Technical Support, As Specified	180	HR	\$500.00	\$90,000.00
TOTAL					\$557,589.00

Introduced on: September 17, 2025

Adopted on: September 17, 2025
 Official Resolution#: 2025001333
 [ROBERT H HOOVER & SONS INC.] RESPONSE DOCUMENT REPORT
 Bid - MOTOR VEHICLE: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

GENERAL DESCRIPTION:

A 47-foot digger derrick unit with hydraulic extending full-capacity intermediate and upper booms.

Unit shall be built in accordance with standard specifications and include the following:

PERFORMANCE SPECIFICATIONS:

- Maximum Sheave Height: 46.4 ft
- Maximum Horizontal Reach: 37.3 ft
- Maximum Digging Radius: 26.7 ft
- Maximum Capacity (ANSI Rating Classification): 12,902 lb
- Articulation: 80° above horizontal to 20° below horizontal

WINCH:

- 15,000 lb bare drum capacity turntable winch with 8.625 in diameter drum (ANSI 10.31 Section 4.10.4 compliant for wire rope #P/N 893946330 High-torque hydraulic motor driving a self-locking worm gear winch
- Counterbalance valves provide reliable load holding

INSULATION:

- Insulated for operation at 46 kV and below

PROTECTION & SAFETY SYSTEMS

Load Management and Safety Features

- Hydraulic Overload Protection System – Automatically activates to prevent overload-related function actuation (e.g., Boom Lower, Intermediate Boom Extend, Third Stage Extend, Winch Raise, Auger Dig). Automatically resets when overload is relieved.
- Load Indicator Gauge – Mounted at the main control panel, displays percent of total lifting capacity being utilized.
- Hydraulic Side Load Protection – Rotation system back-drives under side load conditions to prevent overload.
- Continuous Rotation – High-capacity worm gear drive system.

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

CONTROLS

Operational and Diagnostic Interface

- Electronic CAN Controls – Diagnostic port allows handheld service tool connection for troubleshooting and calibration. Controls eliminate high-pressure hose risks near operator.
- Indicator Light Panel – Indicates hot oil, hydraulic filter replacement, Rotafloat active (if equipped), system diagnostic status.
- Proportional Hydraulic Control System – Closed center system with electro-proportional valves for full metering and feathering.
- Manual Override – Boom, winch, and digger override at main control valve.
- Standard/Low Speed Selector – Operator can switch between normal and reduced function speeds (separate from throttle).
- Remote Control Retrofittable – Includes quick-connect plug for optional radio remote installation.

HYDRAULIC SYSTEM

System Design and Performance

- Closed Center Hydraulic System – 50 GPM maximum flow.
- Flow-on-demand design using variable displacement, pressure-compensated piston pump.
- Valve section compensators ensure smooth transition.
- System Pressure – 3000 psi max. Allows simultaneous operation of boom and digger/winch functions without flow combining.
- Pressure Gauges – Installed on all main control stations.

BOOM & POLE GUIDE

Structural and Functional Components

- Hydraulic Pole Guides – Transferable, proportional open/close/tilt operation, includes adjustable alignment guides and steel boom flares.
- Pole Guide Tilt Interlock – Prevents upper boom extension unless pole guides are detected in full upright/stowed position.
- Boom Tip – Fiberglass construction with provisions for platform attachment.
- Load Line – Two-part attachment point on intermediate boom.
- Fiberglass Upper Boom – Round, centrifugally cast, with smooth inner/outer finish for easy cleaning and high damage resistance.

STOW PROTECTIONS

Storage Safeguards and Function Interlocks

- Boom Stow Protection – Proximity switch limits down pressure as boom is stored.
- Auger Stow Protection – Prevents over-stow condition at latch point.
- Outrigger/Boom Interlock – Prevents boom operation until outriggers are partially deployed.

Introduced Aug 17, 2025
 Adopted on: September 17, 2025
 Official Resolution #: 202501335

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

SAFETY & FINISH

Compliance, Manuals, and Finish

- Back-Up Alarm – Installed
- Manuals – Two (2) Operator and Maintenance/Parts Manuals with safety and hazard identification
- Paint – Eight-step powder coat finish for chip/scratch/abrasion/corrosion resistance: shot blast, alkaline cleaner, conversion coating, drying, primer, primer cure, topcoat, topcoat cure
- ANSI Compliance – Meets or exceeds ANSI 10.31-2019; placard with serial number included
- Manufacturing – Unit produced in ISO 9001 certified facilities

ELECTRIC-HYDRAULIC CONTROL SYSTEM

Hydraulic Power Efficiency and Control

- Hydraulic Pump – Variable displacement, pressure-compensated piston pump for "flow-on-demand" system efficiency.
- System Design – Smooth transition between functions via valve section compensators.

REAR MOUNT PEDESTAL

Mounting Configuration and Features

- Configuration – 168 Rear Mount Traditional Control Seat
- Mounting – Installed curbside of turntable
- Features – Includes single control station

CONTROL & FUNCTION COMPONENTS

- Three-Position Throttle.
- No hardwired upper controls at boom tip.
- No tool circuit at boom tip

WINCH AND DIGGER SYSTEM

Drilling and Lifting Components

- Turntable Winch – 15,000 lb capacity (normal winch speed)
- Digger – Two-speed mechanical shift, 12,000 ft-lbs torque
- Includes all necessary operating components
- 2.50 in Hex Output Shaft with 2.50 in Hex Extension Shaft
- Right-hand digger storage (standard orientation: streetside for rear/corner mount, curbside for behind-cab mount)
- Auger Overstow Protection System
- Dedicated Digger Shake Command for rapid dig/clean function

ANSI Compliance – Digger use only (no personnel handling)
 Introduced on: September 17, 2025
 Adopted on:
 Official Resolution#: 2025001333

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

POLE GUIDES

- Style: Standard Pole Guides
- Capacity: 18 in diameter maximum

SIDE LOAD PROTECTION

- Hydraulic Side Load Protection

OUTRIGGER SYSTEM

Stabilization and Safety Control

- Type – A-frame style with folding shoes
- Maximum Spread – 153 in (measured centerline to centerline of shoe pins)
- Penetration – 6.5 in (based on standard 40 in frame height installation)
- Shoe Dimensions – 14 in x 15.25 in
- Hydraulic Outrigger Control Valves
- Outrigger/Unit Selector Control – Prevents inadvertent movement during machine operation if controls are bumped
- Outrigger Motion Alarms
- Interlock Feature – Prevents unit operation until outriggers are partially deployed

UNIT & HYDRAULIC ACCESSORIES

Supplemental Tools and Hydraulic Support

- Rock Auger – 18 in DIA, 2-1/2 in Hex x 104 in Length, Single Flight, Painted Black
- Turntable Winch Rope – Custom, Part #893946330
- Load Line Swivel Hook – 8-1/2 Ton Capacity
- Derrick Subbase – Rigid Series
- Subbase Blocks
- Hydraulic Reservoir – 60 Gallon, Standard, No Sight Gauge
- Hydraulic Oil – HVI-22, 65 Gallon
- Subbase Storage – Drop-down Door (Paddle Latch), Rear Mounted, Notched for Tool Storage, 6 in Height
- Pump – Standard Pump for PTO
- Muncie PTO
- Hot Shift PTO – Compatible with Automatic Transmission
- PTO/Transmission – Standard functionality with park brake auto-neutral for Allison automatic transmissions
- Parking Brake Interlock – Standard machine interlock
- Tool Circuit Installation – Below Rotation (Male Pressure, Female Return)
- Hose Kit – 50 ft Non-Conductive, Orange, with Quick Disconnects and Dust Caps (Industry Preferred)

Introduced on: September 17, 2025
 Adopted by: September 21, 2025
 Official Resolution#: 2025001333
 Pannay N616 Series, Spring Loaded, 50 ft Capacity
 (Standard, not horizontally mounted)

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

FINISHING

Finish: Powder Coat

Color: White

BODY & COMPARTMENTATION: FLATBED BODY

Flatbed Construction and Access Features

- Dimensions – 134 in Length x 96 in Width
- Material – All-steel construction with hot-rolled steel and 10-gauge galvaneal floor
- Edges – Folded contact edges for operator safety
- Rust Prevention – Steel pre-treated for improved primer adhesion; underside coated with automotive-grade undercoating
- Paint – Primer and Altec White finish applied at body manufacturer
- Frame – 4 in High Structural Channel Design
- Side/Rear Rail – 3 in High x 3/16 in Thick, notched for drainage and tire clearance
- Access – Gripstrut recessed steps with U-shaped grab handle and drop-in wood cargo retaining board
- Rear Body Features – Includes light channels and outrigger valve guards

TOOL BOX COMPARTMENTS

Compartment Features

- Dimensions – 42 in H x 46 in W x 96 in L; 18 in Deep Compartments (Curb and Street Side)
- Construction – A40 grade zinc alloy steel, heavy-gauge welded frame, tread plate floor, structural crossmembers
- Doors – Full, double-paneled, weather-tight, self-sealing, recessed stainless-steel paddle latches with locks
- Door Hardware – Full-length stainless-steel hinge rods, built-in drainage, recessed handles, mechanical non-porous door seals
- Header – Integrated drip rail for added protection
- Paint – Primer (interior and exterior) with Altec White finish applied at body manufacturer
- Undercoating – Applied to entire underside
- Safety – All edges rolled/folded for strength and injury prevention
- Master Locking System – Included
- Door Holders – Gas shock-type on vertical doors
- B-Line Channel – Installed in compartments

Curbside (RH) Compartments

- 1st Vertical – One (1) through shelf, Four (4) locking swivel hooks (2-0-2)
- 2nd Vertical – Open to streetside; Three (3) adjustable shelves with dividers

Introduced on: September 17, 2025
Adopted on: September 17, 2025
Official Resolution#: 2025091333

COMPLIANCE PAGES FOR MOTOR VEHICLE: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK PAGE 6 OF 20

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
Streetside (LH) Compartments		
• 1st Vertical – One (1) through shelf, Four (4) locking swivel hooks (2-0-2)		
• 2nd Vertical – Open to curbside; Four (4) locking swivel hooks (2-0-2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additional Features		
• Grab Handle – One (1) sloped handle mounted at rear vertical curbside	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BODY AND CHASSIS ACCESSORIES

- Dock Bumpers, rectangular (pair), rear-mounted at furthest point on frame rail
- Safety Chain Eye Bolts (set)
- Swivel Style Pintle Hitch, 30,000 lb MGTW / 6,000 lb MVL, 11-bolt T-mount (T-125 style), includes eye bolts and dock bumper
- Underride Protection
- Eyebolt for trailer breakaway cable, 3/8 inch
- Glad Hands, rear-mounted, straight, includes dust covers
- Rigid Step, mounted beneath side access steps (extends approx. 2" outward)
- Riding Seat Access Step
- Pole Rack, two-pole capacity, semi-ratchet tie binders, ratchet cap, cheater bar, behind cab mount
- Secondary Boom Saddle for offset stowing of derrick due to pole rack
- Light Mounting Brackets, located on lower boom rest
- Lower Boom Rest
- Outrigger Pads, plastic, 24" x 24" with rope handle (Qty: 4)
- Outrigger Pad Holders, 25" L x 25" W x 5" H, fits up to 24.5" x 24.5" x 4" pads, bolt-on bottom, steel with washout holes and 3/4" lip retainer (Qty: 4)
- Pendulum Retainers for outrigger pad holders (Qty: 4)
- Wheel Chocks, rubber, metal hairpin handle, 9.75" L x 7.75" W x 5" H (pair)
- Wheel Chock Holders (pair), installed under flatbed
- Mud Flaps with logo (pair)
- Fire Extinguisher, 5 lb, light-duty bracket, Amerex #B402T, installed in cab or inside compartment
- Triangular Reflector Kit (set of 3)
- Slope Indicator Assembly (pair) for machine with outrigger
- Vinyl Manual Pouch for storage of all operator and parts manuals

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

ELECTRICAL ACCESSORIES

Lighting, Alarms, and Electrical Systems

- Lights and Reflectors – Per FMVSS 108, complete LED configuration
- Strobe Beacons – Amber LED with brush guard (Qty: 2), mounted on each side of boom stow (Tecniq #K10-AAAD-1)
- Backup Alarm – Dual tone with integrated outrigger motion alarm
- Grounding System – Multi-point grounding (Qty: 7)
- Copper Grounding Lugs – U-shaped, threaded, front and rear locations (Qty: 2)
- Trailer Receptacle – Relocated from chassis; 7-way (RV style pin type) installed at rear
- Trailer Brake Controller – Electric, Tekonsha Voyager #9030
- Switch Panel – Includes mounting panel and accessory switches
- Power Distribution Module – Pre-wired, 10-circuit electronic interface system
- Outrigger Controls – Tail shelf-mounted with emergency stop (E-Stop)
- Telematics – Verizon control unit with in-cab antenna

FINISHING DETAILS & FINAL DELIVERABLES

Finish and Delivery Requirements

- Paint – Front, rear, and underbody components painted black (excludes rust-resistant parts)
- Paint – Unit powder coated white
- Paint – Body accessories above floor painted white
- Coating – Non-skid (black) applied to all walking surfaces
- Decals – Safety and instructional decals in English
- Placards – Vehicle height placard installed in cab; HVI-22 hydraulic oil placard
- Testing – Dielectric test and stability test performed to SI requirements
- Build – Focus factory build
- Delivery – Completed unit delivered
- Freight – Inbound freight included
- Documentation – As-built electrical and hydraulic schematics included in manual pouch
- Test Forms – Completed stability and dielectric test forms included in manual pouch

CHASSIS SPECIFICATIONS

- M2 106 Plus conventional chassis
- 2026 model year
- Set back axle – truck
- Trailer towing provision at end of frame with SAE J560
- Left-hand primary steering location

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

GENERAL SERVICE

Configuration and Operational Parameters

- Truck/Trailer Configuration
- Domicile – USA, 50 states including California and CARB opt-in states
- CARB Clean Idle Labels – Not for initial registration in CARB certification states
- Domicile: New Jersey
- Service Type – Utility/Repair/Maintenance
- Business Segment – Government
- Load Type – Fixed load commodity
- Terrain/Duty – 100% paved roads
- Road Grade – Max 8% expected grade
- Road Surface – Smooth concrete or asphalt
- Warranty – Medium truck warranty ☒ ☐

Expected Load Parameters

- Front Axle Load – 14,600 lbs
- Rear Drive Axle Load – 21,000 lbs
- Gross Vehicle Weight Capacity (GVWR) – 35,600 lbs
- Gross Combination Weight – 70,000 lbs ☒ ☐

TRUCK SERVICE

- Flatbed/platform body with lift/pull device/crane
- Body manufacturer: Altec, or equal
- Expected body/payload CG height above frame: 32 in ☒ ☐

CHASSIS EQUIPMENT

- Three-piece 14 inch painted steel bumper with collapsible ends
- Front tow hooks, frame mounted
- Single license plate bumper mounting on LH side
- No mudflap brackets
- No rear mudflaps
- Fender and front of hood mounted front mudflaps
- Grade 8 threaded hex headed frame fasteners
- Exterior harnesses wrapped in abrasion tape
- Clear frame rails from back of cab to front rear suspension bracket, both rails outboard ☒ ☐

ELECTRONIC PARAMETERS

- Road Speed Limit – 74 mph
- Cruise Control Speed Limit – Matches road speed limit
- PTO Governor Ramp Rate – 250 RPM per second
- PTO Minimum RPM – 1200
- Regeneration Inhibit Speed Threshold – 5 mph ☒ ☐

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COMPLIANCE PAGES FOR MOTOR VEHICLE: FLATBED TRUCK WITH HYDRAULIC DIGGER DERRICK PAGE 9 OF 20

ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
ENGINE		
• Cummins B6.7 280 HP @ 2400 RPM, 2600 GOV, 660 lb-ft @ 1600 RPM	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ENGINE EQUIPMENT		
General Configuration		
• EPA 2010 GHG 2024 / CARB 2024 ultralow NOx configuration		
• Standard oil pan		
• Engine-mounted oil check and fill		
• Side-of-hood air intake with firewall-mounted Donaldson air cleaner	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electrical and Battery System		
• 12V 200 amp 28-SI Quadramount pad alternator with remote battery volt sense		
• (2) DTNA genuine flooded starting batteries, minimum 2000 CCA, 370 RC, threaded stud terminals		
• Battery box frame-mounted		
• Standard battery jumpers		
• Single battery box frame-mounted LH side under cab		
• Wire ground return for battery cables with additional frame ground return		
• Non-polished battery box cover		
• Non-essential positive load disconnect with in-cab control switch (mounted outboard of driver seat)		
• Positive and negative posts for jumpstart located on frame next to starter		
• Progressive low voltage disconnect at 12.3 volts for designated circuits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Air and Exhaust System		
• Cummins turbocharged 18.7 CFM air compressor with internal safety valve		
• Standard mechanical air compressor governor		
• Air compressor discharge line		
• Electronic engine integral shutdown protection system		
• Cummins engine integral brake with variable geometry turbo (on/off)		
• RH outboard under-step mounted horizontal aftertreatment system with RH horizontal tailpipe		
• Engine aftertreatment device with automatic over-the-road regeneration and virtual regeneration request switch in cluster		
• Standard exhaust system length		
• RH standard horizontal tailpipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Diesel Exhaust Fluid (DEF) System		
• 6-gallon diesel exhaust fluid (DEF) tank		
• 100% DEF fill		
• LH medium duty standard DEF tank location		
• Standard DEF pump mounting		
• Standard DEF tank cap	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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ITEM # 1 – CURRENT MODEL YEAR OR NEWER M2 106 FREIGHTLINER CHASSIS WITH ALTEC DM47E HYDRAULIC DERRICK DIGGER, AS SPECIFIED OR EQUAL

COMPLIANCE
YES **NO**

ENGINE EQUIPMENT

Cooling and Fan System

- No muffler/tailpipe shield
- Air-powered on/off engine fan clutch
- Automatic fan control with dash switch and indicator light (non-engine mounted)
- Cummins spin-on fuel filter
- Full flow oil filter
- No coolant filter
- 700 square inch aluminum radiator
- Antifreeze to -34°F, OAT (nitrite and silicate free) extended life coolant
- Gates Blue Stripe coolant hoses or equivalent
- Constant tension hose clamps for coolant hoses
- Radiator drain valve
- Lower radiator guard

Heater and Starter

- Phillips-Temro 750 watt / 115 volt block heater
- Chrome engine heater receptacle mounted under LH door
- Aluminum flywheel housing
- Electric grid air intake warmer
- Delco 12V 38MT HD starter with integrated magnetic switch

TRANSMISSION

Transmission Specification

- Allison 3500 RDS automatic transmission with PTO provision

Transmission Equipment

- Allison vocational package 223 for 3000/4000 product families (engine and vocation dependent)
- Neutral at stop enabled
- Driver switch input – default (no switches)
- Max engine speed for PTO engagement: 1000 RPM
- QuickFit body lighting connector at end of frame with cap
- Electronic transmission wiring to customer interface connector
- (2) customer-installed Muncie CS10 series PTOs
- PTO mounting on LH and RH sides of main transmission
- Magnetic plugs: engine drain, transmission drain, axle(s) fill and drain
- Push-button electronic shift control, dash-mounted
- Transmission prognostics enabled 2013
- Water-to-oil transmission cooler, in radiator end tank
- Transmission oil check and fill with crossover to clear LH PTO and direct mount pump

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COMPLIANCE
YES **NO**

FRONT AXLE AND EQUIPMENT

Front Axle

- Detroit DA-F-14.7-3 14,700 lb FF1 front axle, 71.5 KPI / 3.74 drop
- Meritor 16.5 x 5 Q+ cast spider cam front brakes, double anchor, fabricated shoes
- Non-asbestos front brake lining
- ConMet cast iron front brake drums
- Front oil seals
- Vented front hub caps with window, center and side plugs (oil)
- Standard spindle nuts for all axles
- Meritor automatic front slack adjusters
- TRW TAS-85 power steering
- Power steering pump
- 2-quart see-through power steering reservoir
- Synthetic 75W-90 front axle lube (current availability)

FRONT SUSPENSION

- 14,600 lb taperleaf front suspension
- Maintenance-free rubber bushings
- Front shock absorbers

REAR AXLE AND EQUIPMENT

Rear Axle

- Meritor RS-23-160 23,000 lb R-series single rear axle
- 6.14 rear axle ratio
- Iron rear axle carrier with standard axle housing
- MXL 176T Meritor extended lube main driveline with half-round yokes
- Driver-controlled traction differential (single rear axle)
- Driver-controlled differential lock rear valve for single drive axle
- Indicator light for each differential lockout switch
- Meritor 16.5 x 7 Q+ cast spider cam rear brakes, double anchor, fabricated shoes
- Non-asbestos rear brake lining
- Brake cams and chambers on forward side of drive axle(s)
- ConMet cast iron rear brake drums
- Rear oil seals
- WABCO Tristop D longstroke spring parking chambers (1-drive axle)
- Meritor automatic rear slack adjusters
- Synthetic 75W-90 rear axle lube (current availability)

REAR SUSPENSION

- 23,000 lb, 52-inch variable rate multi-leaf spring rear suspension

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COMPLIANCE
YES **NO**

HELPER SUSPENSION

- Spring suspension with 1.00" axle spacer
- Standard axle seats in axle clamp group

BRAKE SYSTEM

- Air brake package
- WABCO 4S/4M ABS with traction control and ATC shut-off switch
- Reinforced nylon, fabric braid, and wire braid chassis air lines
- Fiber braid parking brake hose
- Standard brake system valves
- Standard air system pressure protection system
- Standard U.S. front brake valve
- Relay valve with 5–8 PSI crack pressure, no rear proportioning valve
- WABCO System Saver HP with integral air governor and heater
- Air dryer mounted under hood
- Steel air brake reservoirs mounted inside rail
- BW DV-2 auto drain valve with heater (wet tank); petcocks on all others

TRAILER CONNECTIONS

- No trailer air hose
- No air hose hanger
- Air connections to end of frame with glad hands for truck, no dust covers
- Primary connector/receptacle wired for combination stop/turn, center pin powered through ignition, with stop signal prewire package
- SAE J560 7-way primary trailer cable receptacle mounted at end of frame
- No trailer electrical cable

WHEELBASE & FRAME

Dimensions and Specifications

- 4825 mm (190 inch) wheelbase
- 7/16 x 3-9/16 x 11-1/8 inch steel frame (11.11 mm x 282.6 mm / 0.437 x 11.13 inch), 120 KSI
- 1900 mm (75 inch) rear frame overhang
- Frame overhang range: 71 to 80 inches
- Calculated back of cab to rear suspension centerline (CA): 124.41 in
- Calculated effective CA: 121.41 in
- Calculated frame length – overall: 303.74 in
- Calculated frame space LH side: 88.85 in
- Calculated frame space RH side: 90.94 in
- Calculated space available for deckplate: 0.0 in

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COMPLIANCE
YES **NO**

WHEELBASE & FRAME

Frame Configuration

- Square end of frame
- Front closing crossmember
- Standard weight engine crossmember
- Crossmember flush with back of cab
- Standard midship #1 crossmember(s)
- Standard rearmost crossmember
- Standard suspension crossmember

TIRES, HUBS, AND WHEELS

Tires

- Michelin X Works Z 315/80R22.5 20-ply radial front tires
- Michelin XDS2 11R22.5 16-ply radial rear tires

Hubs

- ConMet PreSet Plus premium iron front hubs
- ConMet PreSet Plus premium iron rear hubs

Wheels

- Accuride 29039 22.5 x 9.00 10-hub pilot 5.25 inset 5-hand steel disc front wheels
- Accuride 28828 22.5 x 8.25 10-hub pilot 2-hand HD steel disc rear wheels
- Front and rear wheel mounting nuts
- Nylon wheel guards (front and rear, all interfaces)

Hi-Visibility Green wheel nut indicators to be installed on all wheels

One (1) complete rear tire set – hub and rim

One (1) complete front tire set – hub and rim

FUEL TANKS

- 50 gallon (189 liter) short rectangular aluminum fuel tank – LH
- Rectangular fuel tank(s)
- Plain aluminum/painted steel fuel/hydraulic tank(s) with painted bands
- Fuel tank(s) forward
- Plain step finish
- Fuel tank cap(s)
- Detroit fuel/water separator with water-in-fuel sensor and hand primer
- Equiflo inboard fuel system
- High temperature reinforced nylon fuel line

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COMPLIANCE
YES **NO**

CAB EXTERIOR

Cab Design and Construction

- 106" BBC flat roof aluminum conventional cab
- Rubber cab mounts
- Fiberglass hood with tunnel/firewall liner ☒ ☐

Exterior Components and Trim

- Non-removable bug screen mounted behind grille
- Hood-mounted chromed plastic grille
- Chrome hood-mounted air intake grille
- LH and RH exterior grab handles with single rubber insert ☒ ☐

Horns and Mounts

- Single 14" round Hadley air horn (under LH deck)
- Single electric horn
- Rear license plate mount (end of frame) ☒ ☐

Lighting and Signals

- Integral headlight/marker assembly with chrome bezel
- LED aerodynamic marker lights
- Headlights on with wipers (no daytime running lights)
- Integral LED stop/tail/back-up lights
- Standard front turn signal lamps ☒ ☐

Wiring Provisions

- Switch, indicator light, and ~10 feet of wire on chassis RH back of cab ☒ ☐

MIRRORS AND WINDOWS

Mirrors

- Dual West Coast bright finish heated mirrors with LH and RH remote
- Door-mounted mirrors
- LH and RH 8" bright finish convex mirrors mounted below primary mirrors
- 102" equipment width
- RH aftertreatment system cab access with plain diamond plate cover ☒ ☐

Windows and Visibility

- Composite exterior sun visor
- 63" x 14" tinted rear window
- Tinted door glass (LH and RH) with tinted operating wing windows
- RH and LH electric-powered windows
- One-piece solar green glass windshield
- 2-gallon windshield washer reservoir with fluid level indicator (frame mounted) ☒ ☐

Lighting Provisions

- Provision for customer-furnished utility light(s) ☒ ☐

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 Adopted on: September 17, 2025
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COMPLIANCE
YES **NO**

CAB INTERIOR

Trim and Materials

- Professional trim package
- Mist and carbon cloth interior ("Professional")
- Carbon with base black accent
- Molded door panels (plastic)
- Black mats with single insulation ☒ ☐

Storage and Convenience

- LH and RH door storage pockets (integrated)
- Forward roof-mounted console
- (1) 12V outlet, (1) dash-mounted dual USB-C outlet
- (2) cup holders (LH and RH dash) ☒ ☐

Dashboard and Controls

- M2/SD dash layout
- Digital alarm clock (in driver display)
- Adjustable tilt and telescoping steering column
- 4-spoke 18" black steering wheel with integrated switches
- Driver and passenger interior sun visors ☒ ☐

Climate and Insulation

- Heater, defroster, and air conditioner
- Main HVAC controls with recirculation switch
- Standard HVAC ducting
- Valeo heavy duty A/C refrigerant compressor
- Binary control (R-134A refrigerant)
- Standard heater plumbing with ball shutoff valves (supply lines only)
- Premium insulation ☒ ☐

Electrical and Safety Features

- Solid-state circuit protection and fuses
- 12V negative ground electrical system
- Premium LED cab lighting
- Remote keyless entry with (2) transmitters
- All units keyed alike (key code FT1007)
- Total key quantity: 6
- LH and RH electric door locks
- Triangular reflectors (no flares)
- No mattress ☒ ☐

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COMPLIANCE
YES **NO**

CAB INTERIOR

Seats

- Premium Isringhausen high-back air suspension driver seat:
 - 2 air lumbar, cushion extension, tilt, adjustable shock
- Premium Isringhausen high-back air suspension passenger seat:
 - 2 air lumbar, cushion extension, tilt, adjustable shock
- Dual armrests for driver and passenger seats
- LH and RH integral armrests (door panel)
- Black vinyl seat covers (driver and passenger)
- Black seat belts

Emergency Equipment

- 5 lb fire extinguisher
- First aid kit

INSTRUMENTS AND CONTROLS

- Electronic accelerator control
- No instrument panel-driver
- Configurable upper panel with integrated lower storage
- Engine remote interface with park brake and neutral interlocks
- Bright argent finish gauge bezels
- Low air pressure indicator light and audible alarm
- Dual needle primary and secondary air pressure gauge
- Intake mounted air restriction indicator without graduations
- Automatic self-adjusting backup alarm (87–112 dB)
- Electronic cruise control with steering wheel controls
- Key operated ignition switch with 4-position (off/run/start/accessory)
- Premium instrument cluster with 5.0" TFT color display
- Digital panel lamp dimmer in driver display
- Onboard diagnostics interface connector (LH dash)
- 2" electric fuel gauge
- Engine remote interface for remote throttle
- QuickFit powertrain interface connector (under cab with caps)
- Powertrain interface connector for engine remote interface
- Prewire package for Altec module and chassis interface with BW cutout
- Electrical engine coolant temperature gauge
- 2" transmission oil temperature gauge
- Outside temperature sensor in driver message center
- Engine and trip hour meters (driver display)
- PTO controls for electric/electronic architecture
- Electric engine oil pressure gauge
- 7" B-panel touchscreen radio:

Introduced on: September 17, 2025
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 ◦ USB, Apple CarPlay, Android Auto, Bluetooth,
 ◦ AM/FM/SXM/WB, microphone

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COMPLIANCE
YES **NO**

INSTRUMENTS AND CONTROLS

- Dash mounted radio with (2) cab speakers
- Sharkfin multi-band antenna (RH roof):
 - AM/FM/weatherband, WiFi/Bluetooth, SiriusXM, GPS
- Interoperable SDAR antenna
- Standard radio wiring with steering wheel controls
- Electronic MPH speedometer with secondary KPH scale (no odometer)
- Standard vehicle speed sensor
- Electronic 3000 RPM tachometer
- Detroit Connect platform hardware
- Daimler Connectivity base package – 3 years (Cummins)
- (2) TMC RP1226 accessory connectors: behind RH dash and overhead console
- Ignition switch-controlled engine stop
- (4) hardwired switches in dash, routed under cab (capped):
 - Switch 1: on/off, 20A battery
 - Switch 2: on/off, 20A battery
 - Switch 3: on/off, 20A ignition
 - Switch 4: on/off, 20A battery
- Overhead-mounted lanyard control for air horn
- BW tractor protection valve
- Trailer hand control brake valve
- Digital voltage display (driver display)
- Electric windshield wiper motor with delay
- Rotary headlamp switch with fog/road lamp pull-out
- Two-valve parking brake system with warning indicator
- Self-canceling turn signal switch with headlamp flash, wash/wipe/intermittent
- Electronic turn signal flasher (40A capacity)

DESIGN AND COLOR

- Paint: one solid color
- Cab color A: L0006EY White Elite EY
- Black, high solids polyurethane chassis paint
- Powder white (N0006EA) front wheels/rims
- Powder white (N0006EA) rear wheels/rims
- Bumper paint: FP24812 Argent Silver Dupont Flex
- Sunvisor painted same as cab color A
- Standard e-coat/undercoating

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COMPLIANCE
YES **NO**

MISCELLANEOUS

- 12-month access to derrick safety and performance insights via web browser with configurable email/text notifications (non-transferable, non-refundable; terms and exclusions apply)
- Radio remote controls
- Stanley pole tamper
- Seabee pole puller assembly
- 4-Corner-mounted strobe light
- TLME warranty – 5 years

WARRANTY

- Cummins B6.7 HD1 MD DTY engine (CARB compliant):
 - 5 years / 100,000 miles / 161,000 km extended warranty
- Allison 3500 RDS series transmission: 5 years / unlimited miles extended warranty
- Towing coverage: 5 years / unlimited miles/km (maximum reimbursement \$750)
- General warranty: 1 year parts, 1 year labor, 90 days travel
- Limited lifetime structural warranty

OPTIONS

1A. Diagnostic Tools / Test Equipment

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

1. Successful bidder may be required to supply between one (1) to three (3) complete sets of OEM 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)
 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.
- Adopted on: September 17, 2025
Official Request #: 202500133
- Official Request shall be provided on all items in this section at a County location.

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COMPLIANCE
YES **NO**

OPTIONS

1B. Two-Way Radio Power and Wiring Requirements for New Vehicles

For the purpose of installing two-way radios into new County vehicles and equipment, the following power and wiring components shall be included:

- 1. #12 AWG RED wire connected to 12VDC Battery Source rated at 20 Amps.
- 2. #12 AWG BLACK wire connected to chassis ground.
- 3. #16 AWG YELLOW wire connected to 12VDC Ignition Sense rated at 5 Amps.

These wires shall be encased in plastic wire loom and routed from their source into the cab of the vehicle and secured in the vicinity of the operator. The wiring harness shall be clearly labeled "TWO-WAY RADIO". The wires shall be unterminated. The 12VDC sources shall be protected from making contact with grounded metal surfaces

1C. 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.

1D. 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"

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. Computer (dump body sweeper, etc.) – 1 day at each location

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COMPLIANCE
YES **NO**

OPTIONS

1D. Technical Support

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 location as scheduled by a Vehicle Services Department representative:

- a. Toms River, 152 Chestnut Street, Toms River, N.J. 08753 (Two (2) sessions will be provided at this location. One beginning at 7 am and another beginning at 1:30 pm)
- b. Manahawkin, 379 Haywood Road, Bldg. 109, Manahawkin, N.J. 08050

Technical Support for other Departments will be held at a location within Ocean County. The requesting Department will notify the successful bidder of the location.

Training at the successful bidder's site, rather than the designated locations, will be by mutual consent only.

Technical support will be requested and scheduled on an as needed basis up to but not exceeding the 180 hours total during a period not to exceed twelve (12) months from the date of placing the last unit in service.