# CONTRACT AWARD

**CONTRACT** 2020-17 ONE (1) 2021 OR NEWER KENWORTH MODEL T370 4X2, STANDARD DAY CAB WITH HI REACH LIFT AND PLATFORM WITH ACCESSORIES FOR USE BY TRAFFIC AND SIGNAL FOR A PERIOD OF ONE (1) YEAR

**BID OPENING DATE:** JULY 29, 2020

**CONTRACT TERM:** SEPTEMBER 14, 2020 THROUGH SEPTEMBER 15, 2021

**RES. NO.** 2020-481

**NAME OF BIDDER:** GABRIELLI KENWORTH OF NJ, LLC

**ADDRESS:** 2306 ROUTE 130N DAYTON, NJ 08810

**CONTACT:** PAUL AVVENTO

**TELEPHONE:** 732 438 5740

**FAX:** 732 438 0739

**E-MAIL:** CKEIM@GABRIELLETRUCK.COM

**UNIT COST FOR ONE (1) 2021 OR NEWER KENWORTH MODEL T370 4X2, STANDARD DAY CAB WITH HI REACH LIFT AND PLATFORM WITH ACCESSORIES:** $316,589.79

**MANUFACTURER:** KENWORTH / STAMM

**MODEL:** T370 4X2 / TR-45

**YEAR:** 2021

**DELIVERY DATE:** 180 DAYS AFTER RECEIPT OF ORDER
AWARD OF BID RECEIVED JULY 29, 2020 TO GABRIELLI KENWORTH OF NJ, LLC FOR ONE (1) 2021 OR NEWER KENWORTH MODEL T370, 4X2 STANDARD DAY CAB WITH HI REACH LIFT AND PLATFORM WITH ACCESSORIES FOR USE BY TRAFFIC AND SIGNAL AND THE MERCER COUNTY COOPERATIVE CONTRACT PURCHASING SYSTEM. PERIOD: SEPTEMBER 14, 2020 THROUGH SEPTEMBER 15, 2021. TOTAL AMOUNT NOT TO EXCEED $316,589.79 (CK09MERCER2020-17)

WHEREAS, the Mercer County Purchasing Department has advertised for bids for one (1) 2021 or Newer Kenworth T370, 4x2 Standard Day Cab with Hi Reach Lift and Platform with accessories for use by Traffic and Signal and the Mercer County Cooperative Contract Purchasing System for a period of one (1) year as authorized by Resolution No. 2018-89, adopted February 8, 2018; and,

WHEREAS, two (2) sealed bids were received on July 29, 2020 in connection with the aforementioned procurement; and,

WHEREAS, the lowest bidder, Bucks County International, Inc., provided exceptions to the specifications and the County does not accept these exceptions, therefore the bid received by Bucks County International, Inc., is hereby rejected; and,

--------------------------------------------------------------------------------

Clerk to the Board

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cannon</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Melker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cimino</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Walter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colavita</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Koontz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frisby</td>
<td>x</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

X—Indicates Vote  Abs.—Absent  N.V.—Not Voting
Res.—Resolution Moved  Sec.—Resolution Seconded
WHEREAS, the bidder hereinafter designated is the lowest qualified bidder; and,

WHEREAS, the bid received from Gabrielli Kenworth of NJ, LLC, 134 Old Oxford Valley Road, Langhorne, PA, 19047, meets the specifications and shall be awarded for one (1) 2021 or newer Kenworth T370, 4x2 Standard Day Cab With Hi Reach Lift and Platform with accessories for use by Traffic and Signal for a period of September 14, 2020 through September 15, 2021, in an amount not to exceed $316,589.79; and,

WHEREAS, the Chief Financial Officer of Mercer County has certified in writing the availability of funds for the purposes set forth in this Resolution; said certification is on file with the Clerk to the Board; now, therefore,

BE IT RESOLVED, that the County Executive and Clerk to the Board be and are hereby authorized to execute said contracts when presented in a form approved by County Counsel; and,

BE IT FURTHER RESOLVED, that the Clerk to the Board shall forward a copy of this Resolution to the Mercer County Department of Transportation and Infrastructure, Highway Division, and the Mercer County Purchasing Department for further distribution.

\[Signature\]

Clerk to the Board
BID SPECIFICATIONS

ONE (1) 2021 OR NEWER KENWORTH MODEL T370 4X2, STANDARD DAY CAB
WITH HI REACH LIFT AND PLATFORM WITH ACCESSORIES
FOR USE BY TRAFFIC AND SIGNAL
FOR A PERIOD OF ONE (1) YEAR

INTENT
The County of Mercer requests bids for One (1) 2021 Or Newer Kenworth Model T370 4x2, Standard Day Cab with Hi Reach Lift and Platform with Accessories or Equivalent For Use By Traffic And Signal. The County requests the bid price to be held for one year. Bids shall be for new, current year production equipment. Demonstrator, used or lessor model equipment will not be accepted. All references to brand name shall be interpreted as brand name or equivalent. All questions shall be directed to the department of Purchasing; please email all questions to smceachern@mercercounty.org by July 15th, 2020.

EXCEPTIONS
If bidding an equivalent manufacturer, provide the manufacturer’s published literature and list all exceptions with descriptions of each exception.

A certificate of origin will be provided with the equipment upon delivery. Any questions regarding the bid must be directed to purchasing.

Upon delivery, vendors must provide set-up, operating training by an authorized manufacturer’s representative and two sets of training manuals. All equipment shall include standard safety features.

As this is a cooperative bid, the awarded vendor(s) may provide the equipment herein bid upon to local governmental contracting units located within the County of Mercer without substitution or deviation from specifications, size, features, quality, price or availability as herein set forth. It is understood that orders will be placed directly by the contracting units, subject to the terms of the contract to be awarded by the County of Mercer, and that no additional service or delivery charges will be allowed. References to brand names shall be interpreted as brand or equivalent.

All equipment shall be delivered F.O.B destination with delivery charge included, within 60 days from receipt of purchase order. All equipment shall be delivered as stated above with to the Mercer County Highway Division at 300 Scotch Road, West Trenton, NJ 08628.

WARRANTY
The awarded vendor shall provide the warranty as stated in the specifications.
AWARDED CONTRACTOR SHALL PROVIDE OPERATING TRAINING BY AN AUTHORIZED MANUFACTURER’S REPRESENTATIVE UPON DELIVERY OF EQUIPMENT. VENDORS MUST SPECIFY THE MANUFACTURER’S CUT-OFF DATE.

VENDOR WILL HOLD PRICING FIRM FOR ONE YEAR
YES ☐ NO ☐

BID SPECIFICATIONS
ONE (1) 2021 OR NEWER KENWORTH MODEL T370 4X2, STANDARD DAY CAB WITH HI REACH LIFT AND PLATFORM WITH ACCESSORIES FOR USE BY TRAFFIC AND SIGNAL

The Unit shall be new and of the latest design and in current production at the time of the submission of this bid. The Chassis manufacture, whose equipment or products are bid shall have an authorized service, warranty and parts distribution facility located with 25 miles of Mercer County Department of Public Works facility located at 300 Scotch Road West Trenton, New Jersey 08628. All subcontractors installing equipment for components must also be an authorized distributor for that equipment for the purpose of warranty, parts and service.

CHASSIS CAB SPECIFICATIONS: Kenworth T370 4x2, Standard Day Cab, Chassis Factory built Aluminum and Fiberglass construction.

All Standard and optional equipment listed shall be original equipment manufacturers (OEM) items when available.

DIMENSIONS
• Wheelbase: 188”
• Cab to Axle: 120”
• After Frame: 63”
• GVWR: 33,000 GVWR
• Front Axle to Back of Cab: 68”
• Bumper to back of cab: 108”
• Cab Width: 72”
• Bottom flange of frame to top of cab: 78”

Comply Exactly: Yes_____ No_____

Exceptions:_____________________________________________________________________
______________________________________________________________________________

COMPATABILITY CLAUSE
The successful vender shall be responsible to ensure capability with equipment components.
Comply Exactly: Yes_____ No_____

Exceptions: ____________________________________________________________

ENGINE
- Paccar PX-7 In Line 6 Cylinder, 260 HP, Minimum Peak Torque 660 @ 1600 RPM
- Engine shall include Turbo Exhaust brake, oil cooler and Aluminum flywheel housing
- Alternator: Paccar 160 AMP Brush Type or approved equal
- Batteries: (2) Optima 31A Threaded Post or approved equal
- Air Compressor: 18.7 CFM or approved equal
- Air Cleaner: Dry-Type firewall mounted with restriction indicator
- Fan Hub: Horton 2 position or approved equal
- Cooling Module: Minimum 1000 Square inches surge tank to be metal
- Exhaust: 2017 EPA Compliant, Mounted RH side under cab to include DPF/SCR with Vertical tailpipe right hand side of cab
- Fuel Filter: Paccar Standard service interval with 12v heater or approved equal
- Engine Block Heater: Paccar 1000 Watt 120 Volt or approved equal, plug mounted on Driver side fender
- Starter/Electrical system: Paccar 12 volt Electrical system with centralized power distribution with plug in style relays, circuit protection, numbered and color coded wires. Mitsubishi 105P55 12V starter or approved equal
- Battery disconnect: (2) Located on battery box
- Jump Start terminals: Located under hood
- Multi-Function engine connector for body builder

Comply Exactly: Yes_____ No_____

Exceptions: ____________________________________________________________

TRANSMISSION
- Dash mounted push button shifter
- Allison 2500RDS 6 Speed Automatic Transmission with PTO Drive gear, 5th generation
- Driveline: 3 Dana SPL100 with 2 Center bearings bolted at crossmembers
- Allison Fuel sense Delete
- J 1939 Park Brake Auto Neutral

Comply Exactly: Yes_____ No_____

Exceptions: ____________________________________________________________

EXHAUST AND EMISSIONS
- DPF: Mounted Passenger Side, Under Cab
- DPF Tank: 11 Gallon minimum mounted Driver Side under Cab
- DEF to fuel ration 2:1 or Greater
COMPLY EXACTLY: Yes_____ No_____

EXCEPTIONS:_____________________________________________________________________
______________________________________________________________________________

FRONT AXLE
- Front Axle: Meritor MFS12E Plus 12,500 lb.; Capacity Minimum rated at 12,000
- Springs: Taper leaf 12,000Lb ground load rating
- Front Brake Dust Shields
- Brakes: 16 ½ x 5” Bendix or approved equal rated for 14,600lb
- Brakes Drums: Cast Drums
- Slack Adjuster: Automatic
- Front shock absorbers
- Steering: Single steering box rated for 13.2K
- Greaseable type front oil seals
- Hubs: Aluminum 10 bolt pilot preset
- Wheels: Alcoa Ultra 22.5” x 8.25” Magnaforce,
- Tires: 275/80R22.5 Michelin X Line Energy or approved equivalent
- (1) One Spare Front Rim and Tire

COMPLY EXACTLY: Yes_____ No_____

EXCEPTIONS:_____________________________________________________________________
______________________________________________________________________________

REAR AXLE
- Rear Axle: Dana S21-140, 21,000 lb. Single Reduction
- Ratio: 4.10
- Suspension: Reyco 79KB Taperleaf Rated 23,000LB
- Rear Shock absorbers
- Rear Brake Dust Shields
- Brakes: 16-1/2” x 7” Cam type
- Spring Brake: 3030 long stroke single 3” travel
- Slack Adjuster: Automatic
- ABS Sensor: 4S/4M for rear wheel end sensors
- Bendix ABS
- Bolted rear suspension crossmembers
- Hubs: Cast Iron, 10 bolt pilot preset
- Wheels: Alcoa Ultra 22.5” x 8.25”
- Tires: Michelin XDN2 11R22.5 14PR
- (1) One Spare Rear Rim and Tire

COMPLY EXACTLY: Yes_____ No_____

EXCEPTIONS:_____________________________________________________________________
______________________________________________________________________________
FRAME/WHEELBASE/PLATFORM

- Bidder to provide proper wheelbase and cab to axle requirements to upfitter
- Frame Rails, 10 3/4” x 3 1/2” x .3/8”
- Frame weight: 3.48 lb-in per pair
- Section Modulus: 17.80, RBM 2,132,000 IN-LBS PER RAIL
- Frame Reinforcement: none required
- Front Bumper: Aerodynamic Painted cab color
- Crossmembers: Back of cab and rear frame, 5 piece assembled with 12mm frame fasteners
- Fuel Tank: Left side under cab mounted 56 Gallon minimum, aluminum Tank
- Removable front tow hooks

Comply Exactly: Yes_____ No_____

Exceptions:_____________________________________________________________________

AIR BRAKE

- Air Dryer: Bendix ad-is heated puraguard or approved equal
- Air Dryer Location: Outside Passenger side frame
- Air Control valve: Bendix or Equivalent switches and valves
- Drain Valves: Manual valves with lanyard on all tanks
- Air tanks: Steel, Painted Black
- Bendix or Equivalent Anti-lock braking system

Comply Exactly: Yes_____ No_____

Exceptions:_____________________________________________________________________

CAB

- Cab to be all Aluminum and fiberglass construction.
- Doors to be All aluminum with Stainless Piano Hinge
- Blend air HVAC w/ATC temp regulation built in defroster. 45,000 BTU
- (1) Dome Lamps: Door and switch activated
- Cab mounting: Fixed bolted to cross member
- (5) Assignable body builder dash switches
- Diagnosable bulb fault detection and warning
- Warning alarm when lights are left on when vehicle is not running
- Daytime running lights
- LED tail lamps
- Radio: stereo AM/FM, CD player, MP3, Weather Band, Bluetooth
- Power leads for Radio
- Door trim panel: padded vinyl with armrest pad
• Speedometer with trip odometer
• Required gauges: Exhaust Pyrometer, Transmission oil Temperature, manifold pressure, air application, engine coolant temperature, engine oil pressure, engine oil temperature, and voltmeter
• Separate engine hour gauge to be provided
• Engine Tachometer
• Gear shift: dash mounted push button
• Cab door to have bearing blocks top and bottom
• Hood: Slopped aerodynamic with fixed grille
• Adjustable telescoping tilt steering column
• Emergency reflector kit
• Driver side seat: KW Air Cushion plus high back vinyl, 7 in slide adjustment, 7 to 23 degree recline, armrest, 2 tone color, Grey in color
• Passenger side seat: KW Battery box intermediate back, vinyl, armrest, seat cushion 19.5”, 2 tone color, grey in color
• Lap and shoulder belt 3 point, orange
• Windshield: One piece
• Steering wheel: two spoke, urethane grip
• Windshield washer: 2 speed electronic with intermittent feature
• Windshield reservoir: Plastic under hood mounted
• Electric horn
• (5) Sets of keys
• Air horns: One under cab mounted
• Mirror: Polished Stainless steel, thermostatically controlled 7” x 16” rectangular mirror located on each door
• Mirror: Bright finish, 8” x 4” Convex, rectangular proximity above right hand door
• Sun visor-Interior: Both side Vinyl
• Power Outlets: (1) 12v auxiliary power outlets center dash mounted
• Under Dash Console: (1) 12v power outlet, storage compartment, (1) Lighter, cup holders and ashtray
• Power windows. No exceptions
• Power Door Locks. No exceptions
• Instrument Cluster Display: Includes fuel economy, RPM display, trip information, truck information, gear display, alarm clock and truck information
• Headliner and backwall covering to be vinyl
• Self-cancelling turn signal w headlight dimmer switch
• Grab Handle: Left hand with extension over door, Stainless Steel
• Grab Handle: Right hand with extension over door, Stainless Steel
• Daylight Door: Left hand/Right hand includes right hand peeper window
• One 17” x 36” stationary rear window
• Two 17.5” x 16” Curved glass corner rear stationary windows.
• Cab to be fastened together via Huck Rivets without used of welding.
• Exterior Aerodynamic sun visor with integral LED marker lamps

Comply Exactly: Yes____ No____

Exceptions:____________________________________________________________________
ELECTRICAL
- LED tail lamps
- Headlamps: Halogen projector low beam, halogen complex reflector high beam
- Turn Signals: Fender mounted
- Battery box: In cab under Passenger seat.
- Chassis and power harness with heavy duty casing
- Electrical circuit protection package, all circuit breaker protected in lieu of fuses
- Solid state Trucklite or equivalent heavy-duty signal flasher
- Five Aerodynamic LED marker lights mounted in sun visor
- Body builder lighting harness at end of frame
- Two Cab mounted Beacons to be factory installed mounted on Stainless Steel Brackets with factory installed dash mounted control

Comply Exactly: Yes_____ No_____  
Exceptions:__________________________________________________________

PAINT
- Cab Exterior: WHITE
- Cab Finish: Urethane clear coat
- Chassis Running Gear: Black (Urethane)

Comply Exactly: Yes_____ No_____  
Exceptions:__________________________________________________________

SPECIALITY EQUIPMENT
- PTO Control: PTO switch, Telltale, and wiring. NO EXCEPTIONS

Comply Exactly: Yes_____ No_____  
Exceptions:__________________________________________________________

WARRANTY
- All applicable standard factory warranties shall apply with the additional extended warranties listed
- Extended Engine Warranty: 5YR/100,000 MILES PAC CAR PX-7 PLAN 1 EPA 17
- Extended After treatment Warranty: 5 YR/100,000 MILES
• Extended Base Vehicle Warranty: 5 YR/100,000 MILES
• Extended Radiator/CAAC Warranty: 5 YR/100,000 MILES
• Extended HVAC Warranty: 6 YR/100,000 MILES
• Extended Allison Transmission Coverage: 2 YR/UNLIMITED MILES

Comply Exactly: Yes____ No____
Exceptions: __________________________________________
_____________________________________________________

BIDDER REQUIREMENTS
• Chassis must meet all EPA Requirements for current model year engines
• Successful bidder shall have NJ State diesel emissions test performed on the truck by a NJ certified NJ state emission center and provide a 2-year sticker. COST SHALL BE INCLUDED IN BID PRICE
• Successful bidder shall perform a federal DOT inspection before truck is delivered
• Vehicle shall be titled to County of Mercer with CG tags provided
• Successful bidder shall have a factory authorized service center able to perform any and all service claims within 25 Miles of the County public works facility. It shall be the responsibility of the bidder to pick up and return the vehicle in the case of any warranty at their expense. Notification of 2 business days must be given upon a scheduled pick up from the township garage. If the bidder can provide onsite service that is acceptable.
• Bidder to provide a copy of manufacturers MSO to confirm they are an authorized dealer upon request.

Comply Exactly: Yes____ No____
Exceptions: __________________________________________
_____________________________________________________

BIDDER REQUIREMENTS
• Upon award must have demonstrator available for review at Mercer County Motor Pool.

Comply Exactly: Yes____ No____
Exceptions: __________________________________________
_____________________________________________________

DIAGNOSTICS EQUIPMENT
• Successful bidder may be required to supply one (1) complete set of test/diagnostic/programming equipment (i.e. laptop, software, cabling, and adapters) and special tools required to perform the full range of diagnostic and maintenance actions necessary to maintain vehicle operability. This equipment will cover the vehicle chassis, engine, transmission, brakes, hydraulics, and all additional equipment (if applicable).
• All laptop computers will be of the newest available technology and have sufficient storage and memory to operate all required software.
• Provide a list of all test/diagnostic/programming equipment and special tools being supplied at the time of bid.
• All software installations and activations will be completed by the successful bidder at no cost to the County.
• 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.
• 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.
• Training shall be provided on all items in this section at a County location.
• This equipment shall be the OEM equipment as available by the chassis manufacturer.

Comply Exactly:  Yes_____  No_____

Exceptions:__________________________________________________________

______________________________

TECHNICAL TRAINING AND SUPPORT

• Technical Support is to be provided by factory authorized technical representatives and is to be the original equipment Manufacturers’ industry standard technical presentation in a classroom setting.
• The support provided shall be at the journeyman/equipment technician level and should address limited theory, fault diagnosis and repair pertaining specifically to the equipment supplied under this specification.
• Technical support may be requested in the following areas:
  o Engine (cooling, fuel, ignition, lubrication systems) – 1 day at each location.
  o Transmission – 1 day at each location
  o Electrical – 1 day at each location
  o Brakes – 1 day at each location
  o Hydraulic system (dump body, spreader, snow plow) – 1 day at each location
  o 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 Motor Pool. 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 Motor Pool 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) DOT Employees.
- Actual class size will be determined by the Motor Pool at the time the classes are scheduled.
- Before the training is scheduled, Motor Pool 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 Motor Pool may be provided at the following fleet maintenance facility location as scheduled by a Motor Pool representative:
  - Mercer County, 300 Scotch Rd, Trenton, N.J. (Two (2) sessions will be provided at this location. One beginning at 8 am and another beginning at 1:30 pm)
- Technical Support for other Departments will be held at a location within Mercer 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.

Comply Exactly: Yes_____ No_____ 
Exceptions:____________________________________________________________________________________
___________________________________________________________________________________________

**LIFT SPECIFICATIONS: TR-45**

All standard and optional equipment listed shall be Original Equipment Manufacturer’s items, when available.

**DIMENSIONS:**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Specification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Height Telescopic</td>
<td>45’/13.7m</td>
<td>Powered Boom Section Articulated</td>
</tr>
<tr>
<td>Working Side Reach 10’9”/3.27m</td>
<td>27’/8.23 m</td>
<td>Overall Height</td>
</tr>
<tr>
<td>Platform Capacity 10,000lbs/4,534kg</td>
<td>1000lbs/454kg</td>
<td>Unit Weight (Bare)</td>
</tr>
<tr>
<td>Platform Size 11’/3.35m</td>
<td>40”x 60”/102x152cm</td>
<td>Outrigger Spread</td>
</tr>
<tr>
<td>Platform Type 12,000 lbs</td>
<td>End Mount</td>
<td>Front Gross Axle Weight</td>
</tr>
</tbody>
</table>
Lifting Capacity: 5000 lb
Rear Gross Axle Weight: 21,000 lbs
Jib Winch: 1000 lbs/454 kg
Approximate Weight for unit: 23,500 lbs

Comply: Yes____ No____
Exceptions: ____________________________________________________________

COMPATIBILITY CLAUSE:
The successful vendor shall be responsible to ensure compatibility with body components

Comply: Yes____ No____
Exceptions: ____________________________________________________________

TECHNICAL SPECIFICATION:

1. **Maximum Platform Height:**
   40’ ground to platform floor
2. **Working Range:**
   45’ maximum height and 27’ maximum side reach
3. **Work Platform:**
   The aluminum platform is 60” x 84” x 42” deep with an entry gate for easy access. The maximum platform capacity is 1000 lbs.
4. **Personnel Restraint System:**
   A safety belt or harness and a lanyard are provided. Then anchor for the lanyard is attached to the Upper Platform in several positions.
5. **Individual Controls:**
   Full-pressure individual controls at the turret actuate all boom functions. An emergency stop and a tool selector are located at the upper controls. The lower control station is equipped with a selector valve to override the upper controls.
6. **Upper Controls:**
   The full proportional upper control includes a safety to prevent inadvertent operation. The lift movements correspond with control handle movements.
7. **Outriggers:**
   The outriggers are attached to the subframe. The outriggers are equipped with pilot-operated check valves, and separate controls. At maximum extension, outriggers furnish 120” of spread and 8” of penetrations with 16” of ground penetration.
clearance based on 36” frame height. Pivoting outrigger feet pivot 12 degree angle about a horizontal centerline.

8. Independent Outriggers:
A-frame outriggers are mounted to the subframe and are equipped with pilot operated check valves and separate controls. At maximum extension, the outriggers furnish 120” of spread and 8” of penetration with 16” of ground clearance based on 36” of frame height. H-Frame outriggers are shear mounted to the subframe and are equipped with pilot operated check valves, and separate controls. The outriggers furnish up to 90-1/2” of spread and a maximum of 8” of penetration with 16” ground clearance. Outrigger feet pivot up to 10 degree angle.

9. Outrigger Boom Interlock System:
The outrigger/boom interlock system prevents lift operation until the outriggers contact the ground and outrigger retraction before the aerial lift is properly stored.

10. Emergency Power:
The emergency hydraulic pump is driven by a DC motor, which is a powered by the truck engine battery. The system is connected in parallel with the main pump and is designed for non-continuous operation. A sealed toggle at the upper controls and at the pedestal are used to energize the system.

11. Turret:
The turret wings are designed for strength and rigidity. The bearing cover is to prevent foreign materials from obstructing the turret rotation. The turret plate is machined to provide a flat surface to support the rotation bearing.

12. Continuous Rotation:
Unrestricted rotation accomplished by a hydraulically driven worm and spur gear with a shear-ball rotation bearing. The critical bolts holding the lift to the rotation bearing and the rotation to the pedestal are socket head-cap screws. These critical bolts are torque seal marked to provide a quick means of detecting any loosening upon inspection. The eccentric ring backlash adjustment (gearbox pinion adjustment) is described in the “Adjustment” section.

13. Lubrication:
Non-lube bearings are used at most points of motion. The rotation bearing requires periodic lubrication.

14. Pedestal:
The pedestal is tubular with a reinforced mounting plate. The top plate of the pedestal is 1” thick to support the rotation bearing.

15. Hoses and fittings:
The hoses are high pressure with swaged hose and fittings. Retainers are used to separate the hoses to prevent chafing and nylon sleeves are installed over hoses at points of movement. Reusable fittings can be installed if a hose is damaged.

16. Hydraulic Oil Reservoir:
A 20 gallon hydraulic oil reservoir is remotely mounted. The reservoir includes anti-splash baffles, sight gauges for quick hydraulic fluid level check, and a return filter.

17. Hydraulic System:
The open-center hydraulic system has a rated pressure of 3000 psi and operates at 2700 psi at 7 gpm. A 10-micron return line filter, mounted above the hydraulic
oil level and inside the pedestal, can be easily changed without draining the reservoir. The 100 mesh suction strainer in the reservoir can be removed for cleaning. A gate valve, located below the reservoir, prevents oil loss when the pump is serviced.

18. **Pump:**
   - Gear type, direct mount to truck PTO

19. **PTO:**
   - Heavy Duty, high speed. Hot shift type engaged from cab

20. **Cab Equipment:**
   - PTO Cable with indicator lights installed in truck cab. Engine speed control and start/stop installed with control switches in platform remote control box and also located at lower controls. U/L approved 5:BC dry chemical fire extinguisher installed in truck cab.

21. **Operators Manual & Video:**
   - Two CD's and one printed copy of operation, maintenance, safety and parts manual provided with each unit. Operational and safety video provided at delivery.

22. **Installation:**
   - Unit installed on truck, painted, system and tank filled with oil, tested, inspected, and ready to operate

23. **Standard Paint:**
   - Paint Boom and turret wheatland yellow, outriggers wheatland yellow, bed and boxes black. Top of steel bed sprayed with non skid BASF surface.

24. **Bumper:**
   - Bureau of Motor Carrier Safety rear bumper

25. **Hydraulic Platform Leveling:**
   - Platform leveling is controlled by a master and slave cylinder arrangement. The platform leveling system can be activated from the upper and lower controls to adjust platform leveling, tilt the platform for clean out, or to ease the removal of an injured operator.

26. **Hydraulic Platform Rotator:**
   - A hydraulic platform rotator, operated by a control lever, rotates the platform 180 degrees from one side of the outer/inner boom assembly, across the end-hung position, to the other side of the outer/inner boom assembly.

27. **Outer/Inner Boom Assembly:**
   - The outer/inner boom assembly includes an outer boom, telescopic inner boom, extension system, and hose assemblies. The outer boom consists of a 10 in. x 10 in. steel section. The 8 in. x 8 ½ in. inner boom is housed with the outer boom. The inner boom can be easily removed and disassembled for service and inspection. The extension system consists of a hydraulic cylinder housed entirely within the boom assembly. The hoses routed outside the outer/inner boom assembly thru the cat track system allow for repair or replacement without removing the boom assembly. The outer/inner boom assembly articulates from 20 degree below horizontal to 85 degree above horizontal. Actuated by a double acting cylinder, equipped with two integral holding valves. A boom support cradle and a boom tie down strap.

28. **Cylinders:**
Both the upper and lower cylinders are a threaded head-cap design. Both cylinders are equipped with two integral holding valves to prevent creep down and to lock the booms in position in the event of a hose failure.

29. Master Control:
The master control energizes the upper and lower control circuits, including engine start/stop and optional two-speed throttle control.

30. Engine Start/Stop:
The start/stop circuit has been designed so the lift cannot be operated unless the truck ignition switch is in the “RUN” position and the master control is activated. This feature makes it difficult for unauthorized individuals to operate the lift when the truck is locked. An air cylinder at the upper controls and a toggle switch at the pedestal energize this system.

31. Emergency Power:
The emergency hydraulic pump is driven by a DC motor, which is powered by the truck-engine battery. The system is connected in parallel with the main pump and is designed for non-continuous operation. An air cylinder at the upper controls and a toggle switch at the pedestal are used to energize the system.

32. GFCI Outlet at Platform
33. Set of Tool Power Ports:
A set of power ports are installed at the platform to accommodate an open center tool. The tool circuit provides 7 gpm at 2000-2700 psi.

34. Tool Power at the Ground Controls:
The hydraulic tools must be open-center and operate satisfactorily at 2700 psi.

Comply: Yes____ No____

Exceptions:__________________________________________________________________________
_____________________________________________________________________________________

BED BUMPER OPTIONS:
Provide 18’ Steel platform with 2” rub rails, wood platform not acceptable.
Provide angle step rear bumper with steps and grab handle
Provide automatic safety rotation lock-out which prevents boom from rotation
Comply: Yes____ No____

Exceptions:__________________________________________________________________________
_____________________________________________________________________________________

LIFTING OPTIONS:

Platform mounted jib with hydraulic winch with 1,000 lb capacity.

5,900 lb planetary winch with anti-two block switch, hom, two part hook and 130' of 3/8” cable and retainer lug.

Comply: Yes   No____

Exceptions:_________________________________________

______________________________

Aluminum Tool box

24” x 18” x 18” Aluminum Diamond plate tool box mounted Driver side

36” x 18 x 18” Aluminum Diamond Plate tool box mounted Passenger side

Comply: Yes   No____

Exceptions:_________________________________________

______________________________

High Voltage Detection System

A system must be provided in which alerts the operators of the presence of High Voltage overhead power lines by means of audible alert and visible illumination.
- Be capable of detection up to 100m
- Adjustable sensitivity
- Require no calibration
- Auto resetting mute

Preferred audible means is use of chassis city horn.

Comply: Yes   No____

Exceptions:_________________________________________

______________________________

Lighting Requirements
Rear of Flatbed: LED I.C.C recessed and centered.
   : (1) LED Stop/Tail/Turn/Backup combination Recessed
   : (1) LED Amber Strobe Recessed

Top of cab: Chassis Factory installed beacons mounted on stainless brackets, One each side offset of center. Controlled by factory installed dash switch.

Must meet all Federal Motor Vehicle standards at time of bid.

Comply: Yes_____ No____

Exceptions:___________________________________________________________

___________________________________________________________

Wireless Controls

Wireless controls to operate the Jib 1000lb Winch, Boom Mounted 5900lb winch and the entire boom shall be provided.

Comply: Yes_____ No____

Exceptions:___________________________________________________________

___________________________________________________________

TEST AND CERTIFICATION

• Each of the following tests are to be completed and documented and submitted at the time of delivery
  • Stability Test 1: 1-1/2 times rated load on level ground
  • Stability test 2: 1-1/3 times rated load on a 5o slope
  • State the name and address of the facility where the stability tests required by the bid specification were performed.

Facility:__________________________________ Address:_________________________________

• Electrical Test 1: Upper boom @ 100 KVAC for three minutes
• Electrical Test 2: Lower boom @ 50 KVAC for five minutes
• Electrical Test 3: Combined upper and lower boom @ 100 KVAC for three minutes
• Electrical Test 4: Basket liner @ 50 KVAC for one minute
• State the name and address of the facility where the electrical test required by this specification were performed

Facility:__________________________________ Address:_________________________________

• Holding Valve Test 1: Upper boom both directions.
- Holding Valve Test 2: Lower boom both directions.
- Holding Valve Test 3: Rotation both directions
- Speed Test 1: Upper boom.
- Speed Test 2: Lower boom.
- Speed Test 3: Rotation

In addition an annual inspections on the unit must be completed and provided for five years. The first year shall be completed prior to the delivery.

Comply: Yes_____ No_____

Exceptions:__________________________________________________________________________

____________________________________________________________________________________

MANUALS:

Two of each, parts and repair

Comply: Yes_____ No_____

Exceptions:__________________________________________________________________________

____________________________________________________________________________________

TRAINING:

Demonstration unit must be made available within 10 days after bid at the Mercer County DOT Complex, 300 Scotch Road, West Trenton, NJ 098628

Comply: Yes_____ No_____

Exceptions:__________________________________________________________________________

____________________________________________________________________________________

RUST PROOFING:

Entire vehicle to be rust proofed with Milspray Tectyl undercoating

Comply: Yes_____ No_____

Exceptions:__________________________________________________________________________

____________________________________________________________________________________
DELIVERY

- The unit shall receive all pre-delivery preparation at successful vendors facility, prior to final delivery to the county.
- The successful vendor shall be responsible for final deliveries to the county. Delivery within 180 days of receipt of Purchase Order.
- Truck must be delivered with a New Jersey motor vehicle new vehicle inspection sticker in place as prescribed by law. Truck must also be delivered with a new Jersey motor Vehicle Commission title, registration and CG Tags.

Comply: Yes_____ No_____

Exceptions:________________________________________

_________________________________________________