



STATE OF LOUISIANA
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
TECHNICAL SPECIFICATIONS FOR

Cab and Chassis, 19,500# GVWR, with Steel Gooseneck Bed

SERIES NO. 148-000

REV. 2/7/2025

EQUIPMENT SPECIFICATION 148-000E

GENERAL

This specification sets forth the minimum requirements for a 2 Wheel Drive Cab and Chassis class 5 Truck (19,500 lb. GVWR).

Equipment shall be new, and must meet all state and Federal safety and emission standards in effect at time of order.

REPRESENTATIVE SPECIFICATIONS

An International CV Cab and Chassis, and a Knapheide PGTB Steel Gooseneck Bed with appropriate options and standard features, was used to develop these specifications and establish equivalency evaluation criteria.

Equipment of similar style, type, character, quality, features, and purpose conforming to the following detailed requirements/specifications will be considered. For evaluation purposes, bidder's proposing an exception/equivalent option/feature to those specified herein, may be required to provide manufacturer/product information (catalogue sheets, detailed specifications, pictures, etc.). This information will be evaluated against the minimum requirements of this specification. Proposed submittals that are determined not to be equivalent to the established criteria will be rejected.

LOUISIANA AUTHORIZED DEALER(S)

Proposed item(s) must be from a manufacturer who has at least one (1) authorized dealer or multiple field service technicians that are domiciled within the State of Louisiana where parts and service can be obtained. Authorized dealer(s) must have properly trained technicians plus all other resources necessary to perform warranty and repair services in complete accordance with the manufacturer's requirements. A letter certifying the ability to meet this requirement, inclusive of the company name(s) and address(es) of the Louisiana authorized dealer(s), should be supplied with the bid submittal and may be required prior to award.

DELIVERY & ACCEPTANCE

Vendor shall perform a test run of each unit to verify that all features and capabilities are operating properly at time of delivery. Documentation of testing may be required prior to acceptance by the Department.

Unit(s) must be delivered completely assembled (including all components, accessories, etc.) and ready for operation without any additional preparation including, but not limited to, ensuring all fluid levels are at their full mark, fuel tank(s) is full, all necessary lubrication has been performed, etc. A Louisiana safety inspection shall be performed on each vehicle prior to delivery and a Louisiana safety inspection sticker properly affixed.



Any unit delivered under this specification is subject to rejection if there is evidence of poor workmanship, by either the vendor or the original manufacturer. Noted defects and/or nonconformance findings may be corrected by the vendor. Corrections must be completed and approved by the Equipment Engineer or his representative prior to final acceptance.

Unit(s) shall be delivered "**on the ground**;" DOTD will not unload nor provide any unloading equipment to the vendor/delivery driver in order to offload the unit(s).

NOTE: The Department will have space available for equipment to be unloaded.

EACH UNIT MUST BE SUPPLIED WITH THE FOLLOWING DOCUMENTATION:

1. Notarized Bill of Sale
2. Certificate of Origin (MSO)
3. Dealer's Service Policy
4. Owner's/Operator's Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
5. Service Manual(s)
 - a. One (1) Hardcopy
 - b. One (1) Digital Copy
 - i. Acceptable Formats: PDF delivered via USB "Flash Drive", or E-mail
6. Build Sheet(s) – as applicable
 - a. One (1) Hardcopy
 - b. Build sheets should be writing in plain language (not company specific codes) and include, at a minimum, all standard & optional features of the delivered unit.

NOTE: Invoices will not be processed for payment until the unit(s) have been inspected by the Equipment Engineer or their representative and deemed in compliance with the specifications.

BID SUBMITTALS

Any additions, deletions, or variations from the specifications should be noted in the "Bidder's Exceptions" page of this specification. Exceptions that are noted to be less than a minimum requirement will not be accepted.

Any additions, deletions or variations from the manufacturer's standard published specifications should be noted on the "Bidder's Exceptions" page of this specification. Unless otherwise noted, any items appearing in the manufacturer's standard published specifications furnished by the Bidder are assumed to be included in the Bidder's submittal.

Bidder should note on their submittal any installation(s) to the equipment that will be performed by the vendor instead of the manufacturer.

Failure to note any specification exceptions, manufacturer specification alterations, and/or vendor installations prior to award may result in rejection of the equipment at the time of delivery.

THE NUMBER OF DELIVERY DAYS AFTER RECEIPT OF ORDER (ARO) MAY BE USED AS A FACTOR IN THE AWARD.

EQUIPMENT SPECIFICATIONS

NOTICE TO BIDDERS

Bidder should review the detailed "Equipment Specification" completely and respond to the compliance question at the end of each section by marking "X", in the space provided, for "Yes" or "No". Mark "Yes" to indicate that the equipment bid meets the section exactly as specified. Mark "No" if there are exceptions to any part of that section. Exceptions/deviations to any part of the specification are to be detailed on the "Bidder's Exceptions" page of this specification.

IN ORDER TO BE CONSIDERED FOR AWARD, BIDDER SHOULD RETURN THIS SPECIFICATION, COMPLETED IN FULL, WITH THEIR BID SUBMITTAL.

Note: All Values listed below are minimums unless noted otherwise.

1. Cab & Chassis

1.1. Weight Rating

1.1.1. GVWR 19,500 lbs.

1.1.2. GCWR: 30,000 lbs.

Comply: ____ Yes ____ No

1.2. Center section of Frame: 546,000 RBM (Resisting Bending Moment) - Bidder should list section modulus and yield strength below

Section Modulus: _____

Yield Strength: _____

Comply: ____ Yes ____ No

1.3. Cab to axle (CA) and axle to end of frame (AF)

1.3.1. CA: 84"

1.3.2. AF: 49"

Comply: ____ Yes ____ No

1.4. All steel front bumper and 2 frame mounted tow hooks

Comply: ____ Yes ____ No

1.5. Cab

1.5.1. Conventional day cab

1.5.2. Tilting Fiberglass hood

1.5.3. Tinted safety glass

1.5.4. Outside mirrors, driver & passenger side

1.5.4.1. Manual Folding and Extending

EQUIPMENT SPECIFICATIONS

- 1.5.4.2. Power adjustable
- 1.5.4.3. Heated
- 1.5.4.4. Turn Signal Indicator located in Mirror
- 1.5.5. Manufacturer's highest level sound insulation package
- 1.5.6. Vinyl High Back Driver Seat with integral headrest and Fixed Lumbar
- 1.5.7. Two-Man Passenger vinyl seat with integral Headrest in outboard position with fold down center console/arm rest
- 1.5.8. Gauge package including the following:
 - 1.5.8.1. Coolant temperature
 - 1.5.8.2. Fuel
 - 1.5.8.3. Oil pressure
 - 1.5.8.4. Speedometer
 - 1.5.8.5. Tachometer
 - 1.5.8.6. Gear indicator
 - 1.5.8.7. Odometer
 - 1.5.8.8. Trip odometer
 - 1.5.8.9. Automatic transmission oil temperature
- 1.5.9. Dual sun visors
- 1.5.10. Two (2) cup holders, mounted in dash or center console
- 1.5.11. Climate control, including air conditioning, heater, & defroster
- 1.5.12. Power windows & power door locks
- 1.5.13. Tilting steering column
- 1.5.14. Driver and passenger airbags
- 1.5.15. Roof Mounted Side Curtain Air Bags
- 1.5.16. Running boards/cab entry steps

Comply: ____Yes ____No

- 1.6. Engine & Fuel
 - 1.6.1. 6.6L , turbo diesel
 - 1.6.2. 350 HP, 700 lb-ft torque
 - 1.6.3. Engine Exhaust Brake
 - 1.6.4. Manual Regen Capability
 - 1.6.5. Aluminum 3 row radiator with in-tank oil cooler
 - 1.6.6. Fuel Tank: 40 gallon min. capacity

Comply: ____Yes ____No

- 1.7. Transmission
 - 1.7.1. Allison 1750 RDS or equivalent
 - 1.7.2. 6-Speed with Double Overdrive
 - 1.7.3. Transmission with PTO provision
 - 1.7.4. Transmission to shift to Neutral when service brake is depressed, return to drive when service brake is released

EQUIPMENT SPECIFICATIONS

1.7.5. Transmission to have Park Prawl

1.7.6. To be filled with manufacturer approved synthetic lubricants

Comply: ____ Yes ____ No

1.8. Front Axle

1.8.1. I beam type

1.8.2. 6,250 lbs. GAWR @ ground capacity

1.8.3. Front suspension to be parabolic taper leaf springs

1.8.4. Shock absorbers

Comply: ____ Yes ____ No

1.9. Rear Axle

1.9.1. Gear Ratio to be 4.30

1.9.2. 13,500 lbs. GAWR @ ground capacity

1.9.3. Shock absorbers

1.9.4. Rear Axle to use synthetic oil

Comply: ____ Yes ____ No

1.10. Brake System

1.10.1. Brake System to be Hydraulic Split System

1.10.2. Brake System to be Four Channel with ABS

1.10.3. Hydromax Brake Booster or equivalent

1.10.4. High Speed Master Cylinder with Trailer Sway Control

1.10.5. Parking Brake to be Differential mounted Foot Operated in cab

1.10.6. Front Brakes to be disc type with 8,000-lb capacity

1.10.7. Rear Brakes to be disc type with 15,500-lb capacity

Comply: ____ Yes ____ No

1.11. Wheels & Tires

1.11.1. 19.5 X 6.75" wheels, 8 bolt Hub Piloted

1.11.2. First line, first quality tires

1.11.2.1. Front – 225/70R19.5, Load range G, highway tread

1.11.2.2. Rear – 225/70R19.5, Load range Gm dual wheel, on/off road tread

Combined load ratings must be compatible with axle ratings and GVWR

Comply: ____ Yes ____ No

1.12. Chassis Electrical System & Lights

1.12.1. 12-volt system

1.12.2. Single 12 volt alternator, 220 amp capacity

EQUIPMENT SPECIFICATIONS

- 1.12.3. Dual batteries with 1100 CCA Total
- 1.12.4. Four (4) dash or overhead mounted, factory installed, body circuit switches (up-fitter switches) for simple on/off functions for accessories (PTO, warning lights, etc.; one (1) assigned to activate the PTO; one (1) assigned to operate the flashing warning lights; one (1) assigned to enable the convenience lighting circuits, and one (1) blank to be assigned by DOTD personnel.
- 1.12.5. Headlights:
 - 1.12.5.1. Automatic daytime running lights
 - 1.12.5.2. Warning buzzer/alarm when headlight switch is on and ignition switch is in off position
- 1.12.6. Roof mounted clearance marker lights
- 1.12.7. Cruise control
- 1.12.8. Adjustable Electronic governor to control maximum road speed, to be set to 78 mph prior to delivery
- 1.12.9. Intermittent windshield wipers with washers
- 1.12.10. Backup alarm, 102 dba
- 1.12.11. Throttle Hand control to adjust engine speed when PTO is engaged
- 1.12.12. AM/FM radio, Bluetooth/hands free function with 7" color display
- 1.12.13. Two (2) 12V accessory power outlets with covers, mounted in dash (for cell phone chargers, GPS devices, etc.). One (1) 12V power outlet and one (1) USB charging outlet will also satisfy this requirement.
- 1.12.14. Integrated trailer brake controller
- 1.12.15. Body Builder wiring harness
 - 1.12.15.1. Body Builder wiring harness to be located at back left side of cab
 - 1.12.15.2. Separate wiring circuits in body builder harness to include
 - 1.12.15.2.1. Ground circuit
 - 1.12.15.2.2. Backup light circuit
 - 1.12.15.2.3. left and right turn circuits
 - 1.12.15.2.4. Tail light circuit
 - 1.12.15.2.5. Accessory 12 volt power circuit

Comply: ____Yes ____No

1.13. Paint

- 1.13.1. Cab: Manufacturer's standard, white
- 1.13.2. Chassis: Manufacturer's standard, black

Comply: ____Yes ____No

1.14. FMCSA/DOT Mandated Safety Items

- 1.14.1. One (1) UL listed, 5 B:C rated, or higher, fire extinguisher securely mounted in cab
- 1.14.2. One (1) set of three (3) bidirectional reflective triangles conforming to FMVSS No. 125
- 1.14.3. At least one (1) spare fuse for each type/size used in the truck

Comply: ____Yes ____No

EQUIPMENT SPECIFICATIONS

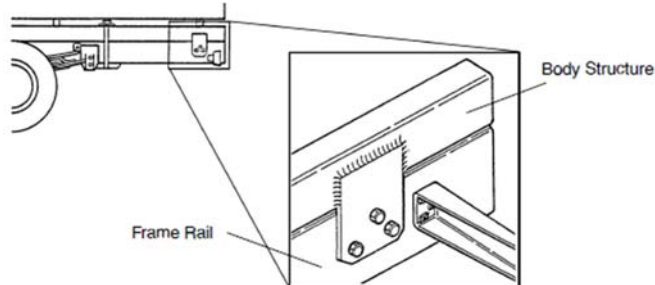
2. Attached Equipment – Gooseneck Body and Lighting

2.1. Steel Gooseneck Body

2.2. Body Installation

2.2.1. A sill spacer is not required; however, a rubber or plastic (nylon or Delrin) sill spacer is allowed

2.2.2. Body shall be bolted to chassis frame and body sub-frame using brackets or fishplates. U-BOLTS ARE NOT ALLOWED AND WILL NOT BE ACCEPTED.



Comply: ____ Yes ____ No

2.3. Dimensions

2.3.1. Overall Length 138 inches

2.3.2. Overall width 95 inches

2.3.3. Overall height, top of bulkhead to bottom of rear bumper 65 inches

2.3.4. Top of Bulkhead to deck of body 48 inches

Comply: ____ Yes ____ No

2.4. Body Construction and design

2.4.1. Body to have internal stake pockets lining both sides and rear of the platform with a maximum of 24 inch spacing

2.4.2. Rub rails installed on both sides of body

2.4.3. 12-Gauge tread plate floor

2.4.4. Six (6) inch Structural channel long sills with 34 inch long sill spacing

2.4.5. 12 Gauge Formed cross sills spaced on sixteen (16) inch centers

2.4.6. Formed, integrated bulkhead with screened window

2.4.7. Gooseneck Hitch

2.4.7.1. Turnover ball Gooseneck Hitch

2.4.7.2. 2 5/16" Ball

2.4.7.3. Hitch rated for 30,000 lb. gross trailer weight

2.4.7.4. Hitch rated for 7,500 lb. tongue weight

2.4.7.5. Spring loaded safety chain U-bolts

2.4.8. Integrated Driver side fuel fill cup

2.4.9. Receiver Hitch

2.4.9.1. ICC bumper style Class 5 hitch (Similar to the picture below)

2.4.9.2. 2 1/2" receiver tube

2.4.9.3. 20,000 lb. Towing capacity

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2.4.9.4. 1600 lb. tongue capacity



Comply: ____Yes ____No

2.4.10. Body lighting and electrical

2.4.10.1. 2 Installed 7-way trailer plugs in the rear skirt – 7 pole round and 7 pole blade (RV style)

2.4.10.2. Installed 4-way trailer plug in the rear skirt

2.4.10.3. Installed LED marker and license plate lights

2.4.10.4. All LED clearance and marker lights must meet FMVSS 108 requirements

2.4.10.5. Oval 6 inch LED Stop/Tail/Turn and Reverse lights to be installed in the Bulkhead and the rear tail skirt

Comply: ____Yes ____No

3. Lighting and Safety

3.1. Lighting

3.1.1. Body lamps to be recessed rubber-mounted snap-in shock-proof type with plug in connectors. All body lighting must meet FMVSS Standard No. 108.

3.1.2. Mid-Size Light Bars

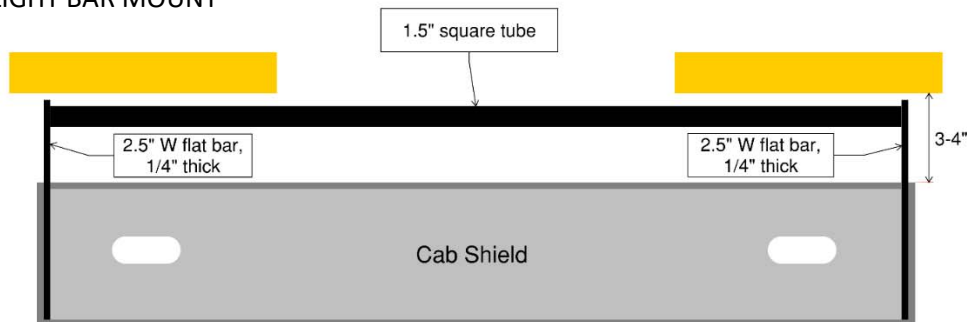
3.1.2.1. SoundOff Signal nRoads Mini/Mid-Size or equal light bars that satisfy the following requirements.

3.1.2.2. Two (2) – mid-size (24") light bars shall be installed on a light bar mount in the locations shown. (Length is nominal and +/- 1" is acceptable)

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LIGHT BAR MOUNT



****Image provided as a general concept of light mounting. Vendor designed mounting that achieves similar function will be acceptable****

- 3.1.2.3.** Dual color - 12 diodes per module (equal number of green & amber)
- 3.1.2.4.** All modules shall be capable of fully displaying both colors.
- 3.1.2.5.** Flash pattern capable of alternating between an asymmetric, low-frequency, "wig-wag" pattern and a low-frequency double or quad flash.
- 3.1.2.6.** UV resistant clear polycarbonate lens
- 3.1.2.7.** 10-16 VDC
- 3.1.2.8.** Light bars shall meet all applicable federal/state laws and regulations
- 3.1.2.9.** Shall be SAE J845 360-degree Class 1 certified

Comply: ____Yes ____No

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3.1.3. Perimeter Lights – Front and Rear



3.1.3.1. Front Perimeter lighting

3.1.3.1.1. Four(4) mounted in front grill

3.1.3.1.2. Brooking Industries XT12D perimeter light head or equal that satisfies the following requirements.

3.1.3.1.3. Size - Length: 4.25-5.25 in., Width: 1.0-2.0 in., Height: 0.3-0.4 inches

3.1.3.1.4. 12-24 VDC

3.1.3.1.5. UV resistant clear polycarbonate lens, black bezel trim

3.1.3.1.6. 12 diodes - dual color - (equal number of green & amber)

3.1.3.1.7. Light head shall be capable of displaying each color across full length.

3.1.3.1.8. Capable of alternating between an asymmetric, low-frequency, "wig-wag" pattern and a low-frequency double or quad flash.

3.1.3.1.9. Light head shall meet all applicable federal/state laws and regulations

3.1.3.1.10. Shall be SAE J595 Class 1 certified

3.1.3.2. Rear Perimeter Lighting

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- 3.1.3.2.1. Four(4) perimeter lights mounted on rear outside edge of bed
- 3.1.3.2.2. Brooking Industries XT12D perimeter light head or equal that satisfies the following requirements.
- 3.1.3.2.3. Size - Length: 4.25-5.25 in., Width: 1.0-2.0 in., Height: 0.3-0.4 inches
- 3.1.3.2.4. 12-24 VDC
- 3.1.3.2.5. UV resistant clear polycarbonate lens, black bezel trim
- 3.1.3.2.6. 12 diodes - dual color - (equal number of green & amber)
- 3.1.3.2.7. Light head shall be capable of displaying each color across full length.
- 3.1.3.2.8. Capable of alternating between an asymmetric, low-frequency, "wig-wag" pattern and a low-frequency double or quad flash.
- 3.1.3.2.9. Light head shall meet all applicable federal/state laws and regulations
- 3.1.3.2.10. Shall be SAE J595 Class 1 certified

Comply: ____ Yes ____ No

3.1.4. High Visibility Retroreflective Tape, see images below for locations

- 3.1.4.1. DOT C2 approved high visibility retroreflective conspicuity tape, 2" wide, with alternating 6" segments of red and white, shall be placed along the side of the truck and bed as referenced below

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3.1.4.2. High visibility retroreflective conspicuity tape, 2" wide, with alternating 6" segments of red and white, shall be placed on the rear of the body as referenced below



Comply: ____ Yes ____ No

BIDDER'S EXCEPTIONS

Instructions: Bidder should note all exceptions in space provided below. List the detail number from the aforementioned specification in the column to the left and the exception in the column to the right. Responses may be typed or hand-written. Handwritten responses must be legible. If additional space is needed, please print a duplicate copy of this sheet. "Bidder's Exceptions" page(s) should be returned with the bid submittal.

Examples:

<u>1.6</u>	<u>Engine has 325 horsepower</u>
<u>1.18.3</u>	<u>Batteries have 2000 CCA combined.</u>
2.2.8	Crossmembers are 4" channel on 12" centers.

**Spec. /Detail
Reference**

Exception

[illegible]