



STATE OF LOUISIANA  
DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT  
TECHNICAL SPECIFICATIONS FOR

**LOW BED SEMI-TRAILER, REMOVABLE GOOSENECK, 55 TON CAPACITY**

**SERIES NO. 510-000**

**REV. 4/26/2023**

**EQUIPMENT SPECIFICATION 510-000B**

**GENERAL**

This specification sets forth the minimum requirements for a low bed ("lowboy") semi-trailer with a removable gooseneck (RGN) and a rated capacity of 55 tons.

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

**REPRESENTATIVE SPECIFICATIONS**

An Etnyre RTN55ETD3-PS and a Landoll 855-53, with appropriate options and standard features, were 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, bidders 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 **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 AT TIME OF DELIVERY:**

1. Notarized Bill of Sale
2. Original Certificate of Origin (MSO), (no photocopy)
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 written 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. Trailer Design & Construction

#### 1.1. General Description and Construction

1.1.1. The trailer shall be a heavy-duty, removable gooseneck type, designed for paver/construction combination service

1.1.2. 110,000 lb. capacity (distributed load)

1.1.3. Complete with all standard features and accessories normally provided by the manufacturer plus all additional options and accessories specified hereinafter

1.1.4. Must meet all applicable FMVSS, DOT, and ICC Requirement

1.1.5. Main load deck to be four cambered T-1 steel I-beams

1.1.6. Cross members to be on 12" centers (maximum spacing)

Comply: \_\_\_ Yes \_\_\_ No

#### 1.2. Gooseneck

1.2.1. Removable, high lift, with support cylinder

1.2.2. Positive connection to main deck with lock pin

1.2.3. Non-ground engaging

1.2.4. Swing clearance 84" (minimum)

1.2.5. King pin setting – 15"-18"

1.2.6. Adjustable fifth wheel height

1.2.7. Upper gooseneck area to be covered with aluminum top cover

1.2.8. Hydraulics to be supplied by truck wet kit.

1.2.8.1. Dual ¾" quick-disconnect hydraulic couplers, one (1) male and one (1) female, at front of trailer

1.2.8.1.1. Female: DNP HNV-12-12-C or equal

1.2.8.1.2. Male: DNP HNV-12-12-N or equal

Comply: \_\_\_ Yes \_\_\_ No

#### 1.3. Dimensions

1.3.1. Length overall – 49'-54'

1.3.2. Main deck length - 24' min.

## EQUIPMENT SPECIFICATIONS

- 1.3.3. Main deck width - 8' 6"
- 1.3.4. Height of main deck from ground (loaded) – 22" maximum
- 1.3.5. Ground clearance - 6"
- 1.3.6. Length of rear deck – 14'-18'

Comply: \_\_\_ Yes \_\_\_ No

### 1.4. Deck Features

- 1.4.1. Main Deck: 2" apitong
  - 1.4.1.1. Removable wood in center of main
- 1.4.2. Powered full width ramp at front of main deck
  - 1.4.2.1. Full width short ramp, approx. 15 deg, approx 28"
- 1.4.3. Bucket plate or trough at rear of main deck
- 1.4.4. Recessed boom trough in rear upper deck with steel plate tray
- 1.4.5. Load bearing wheel covers

Comply: \_\_\_ Yes \_\_\_ No

### 1.5. Axles & Brakes

- 1.5.1. Two fixed axles, one lift axle, full width
- 1.5.2. 25,000# capacity each
- 1.5.3. Hubometer
- 1.5.4. 49"-55" axle spread
- 1.5.5. Air ride suspension, automatic/manual +3"/-3" (or greater) height control with manual exhaust valve
- 1.5.6. Full air-operated brake equipment for all wheels
  - 1.5.6.1. Outboard drums & automatic slack adjusters
  - 1.5.6.2. 12" X 7" (min.) non-asbestos linings
  - 1.5.6.3. Automatic spring brake application on axles upon accidental breakaway
  - 1.5.6.4. 4S/2M ABS anti-lock brake system, Wabco or equal

Comply: \_\_\_ Yes \_\_\_ No

### 1.6. Wheels & Tires

- 1.6.1. First line, first quality
- 1.6.2. 255/70R X 22.5, 16 ply
- 1.6.3. 8.25 X 22.5 hub piloted steel disc wheels
- 1.6.4. Air inflation system on all wheels, Meritor or equal

Comply: \_\_\_ Yes \_\_\_ No

### 1.7. Extension Brackets & Tie-Downs

- 1.7.1. 12" swing/removable sufficient in numbers to support rated capacity
- 1.7.2. Double brackets at front of load deck
- 1.7.3. Bent style D-rings, 6 per side (min.)

## EQUIPMENT SPECIFICATIONS

### 1.7.4. Keyhole tie-downs (where possible)

Comply: \_\_\_ Yes \_\_\_ No

### 1.8. Lights, Markings & Safety

**1.8.1.** Trailer shall be equipped with clear lens LED lights plus conspicuity tape and reflectors in accordance with all applicable requirements, including turn signals, dual tail lights, mid-ship turn signals, brake lights, and license plate light.

**1.8.2.** Standard 7-way receptacle, SAE J-560a type provided.

**1.8.3.** All wiring shall be of adequate capacity and properly installed for maximum protection from damage and weather, and all lights shall be recessed or guarded to prevent accidental damage.

**1.8.4.** Wiring harness shall be Grote "Xtreme" or approved equal, with neoprene compression seals, grommets for protection when running through metal, and support clamps at intervals of no more than 24."

**1.8.5.** Rear flag holder slots

Comply: \_\_\_ Yes \_\_\_ No

### 1.9. Paint/Finish: manufacturer's standard black

Comply: \_\_\_ Yes \_\_\_ No

