

## Ocean County Board of Commissioners

OFFICE OF THE  
OCEAN COUNTY COMMISSIONERS

Director Joseph H. Vicari  
Deputy Director Gary Quinn  
Commissioner Barbara Jo Crea  
Commissioner Virginia E. Haines  
Commissioner John P. Kelly

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### Board Meeting Agenda

Date: July 19, 2023 - 4:00 PM  
Location: Administration Building  
Room 119  
101 Hooper Avenue  
Toms River, NJ 08754

Agenda: Awarding a Contract for the furnishing and delivery of MOTOR VEHICLES: EQUIPMENT TRAILERS to Stephenson Equipment, Inc., the sole qualified bidder. (B2023-132)

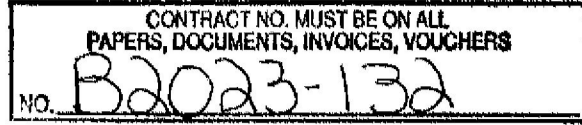
<b>Official Resolution#</b>	<b>2023001021</b>						
Meeting Date	07/19/2023						
Introduced Date	07/19/2023						
Adopted Date	07/19/2023						
Agenda Item	m-4						
CAF #							
Purchase Req. #	B2023-132						
Result	Adopted						
<b>COUNTY COMMISSIONER</b>	<b>PRES.</b>	<b>ABS.</b>	<b>MOVE</b>	<b>SEC</b>	<b>AYE</b>	<b>NAY</b>	<b>ABST.</b>
Vicari		✓					
Quinn	✓				✓		
Crea	✓			✓	✓		
Haines	✓				✓		
Kelly	✓		✓		✓		

I HEREBY CERTIFY THAT THIS DOCUMENT IS A TRUE, COMPLETE AND ACCURATE COPY OF THIS RESOLUTION, ADOPTED BY OCEAN COUNTY BOARD OF COMMISSIONERS, NJ AT THE MEETING REFERENCED THEREON

*Michelle I. Gunther*

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Clerk Of The Board



RESOLUTION

July 19, 2023

WHEREAS, on June 21, 2023, pursuant to legal advertisements therefor, sealed bids were received for the furnishing and delivery of MOTOR VEHICLES: EQUIPMENT TRAILERS for the County of Ocean; and

WHEREAS, at the advertised time, responses were received from the following bidders:

<u>Name of Bidder</u>	<u>Address of Bidder</u>
Stephenson Equipment, Inc.	135 Lincoln Ave. Prospect Park, PA 19076 (610) 534-0700

; 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, STEPHENSON EQUIPMENT, 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 contracts accepting the bid for the furnishing and delivery of MOTOR VEHICLES: EQUIPMENT TRAILERS for the County of Ocean, for the contract period from date of award through July 18, 2024, a period of one (1) year or until delivery is complete unless otherwise stated. The County reserves the right to extend the term of the contract pursuant to N.J.S.A. 40A:11-15, as follows:

STEPHENSON EQUIPMENT, INC. for four (4) items, to wit:

ITEM NOS. 1, 1A, 2 and 2A.

For a Total Lump Sum Award (Item #'s 1 - 1A) of \$240,000.00.

For a Total Lump Sum Award (Item #'s 2 - 2A) of \$97,000.00.

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

2. Payments for the equipment and services to be acquired by this contract shall be made upon the approval of vouchers submitted by the successful bidders in accordance with the requirements of the Board of Commissioners and subject to the Board of Commissioners customary procedures. Delivery shall be made upon receipt of a Purchase Order issued by the Ocean County Department of Purchase, upon which delivery locations and needed quantities shall be indicated.

3. Funds for the equipment and services shall be available within the following funding Source: Solid Waste Management O.E.

4. The contract number must be placed on all papers, documents, invoices and vouchers pertaining to said contract, the number being B2023-132.

5. **BE IT FURTHER RESOLVED** that certified copies of this Resolution shall be made available to the County Auditor, County Department of Purchasing, Department of Finance, Solid Waste Management and the successful bidder.

STEPHENSON EQUIPMENT, INC.

PROPOSAL DOCUMENT REPORT  
 Bid No. TBD  
 MOTOR VEHICLES: EQUIPMENT TRAILERS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year, Make & Model	Warranty	Delivery, A.R.O.
1	Current Model Year, or Newer, 50 Ton Non-Round Engaging Detachable Gooseneck 3-Axle Air Ride Gentle Riser Lowboy Semi-Trailer, As Specified, Or Equal	2	EA	\$119,999.84	\$239,999.68		2024 Rogers CFS0GR	7-year structural	20/22 weeks +/-
OPTIONS									
1A	Training, As Specified	32	HOUR	\$0.01	\$0.32				
TOTAL					\$240,000.00				

ITEM #2 - CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED, OR EQUAL

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year, Make & Model	Warranty	Delivery, A.R.O.
2	Current Model Year, or Newer, 21 Ton Drawbar Tag-Along Tandem Axle Spring Ride Suspension Trailer, As Specified, Or Equal	2	EA	\$48,499.84	\$96,999.68		2024 Rogers TAG21XXL	7-year structural	15/17 weeks +/-
OPTIONS									

STEPHENSON EQUIPMENT, INC.

PROPOSAL DOCUMENT REPORT

Bid No. TBD

MOTOR VEHICLES: EQUIPMENT TRAILERS

Line Item	Description	Quantity	Unit of Measure	Unit Cost	Total	No Bid	Year, Make & Model:	Warranty:	Delivery, A.R.O.:
2A	Training, As Specified	32	HOUR	\$0.01	\$0.32				
<b>TOTAL</b>					<b>\$97,000.00</b>				

✓ **ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 50 TON NON- ROUND ENGAGING  
DETACHABLE GOOSENECK 3-AXLE AIR RIDE GENTLE RISER LOWBOY SEMI-TRAILER  
TRAILER, AS SPECIFIED, OR EQUAL**

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

**DIMENSIONS**

Gooseneck Length	12' 1"		
Swing Clearance	98"		
Kingpin Setting	15"		
Gooseneck Height (light)	51"		
Clear Deck Length	24' 0"		
Deck Height (loaded)	22"		
Ground Clearance (loaded)	6"		
Axle Spacings	54 ½"		
Overall Trailer Width (maximum)	102"		
Capacity (concentrated in 19' 0" @ 60 MPH)	100,000 lbs.		
Overall Length	52' 8"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**General Description**

Trailer shall be equipped with a self-lifting (non-ground bearing) detachable gooseneck so that equipment can be loaded over the front of the deck.

Trailer shall be rated for full capacity at 60 MPH, concentrated in 2/3's the combined length of the deck and the riser.

**SPECIFICATIONS OF THE GOOSENECK**

**Materials and Construction**

The longitudinal carrying members shall be fabricated, using high strength, low alloy steels.

The webs shall be ASTM A572-GR50, 50,000 psi minimum yield steel and the flanges shall be ASTM A514, 100,000 psi minimum yield steel.

The gooseneck shall be a tapered, self-lifting detachable type with a "Scrapeneck" profile for additional load clearance.

Shall be equipped with two (2) 8.5" x 8" double acting hydraulic cylinders with 3" rods, anchored in a vertical position in the gooseneck. These cylinders shall push off of the deck of the trailer. The cylinders shall require a maximum of 2,300 psi to operate the gooseneck. The lifting mechanism shall not carry the load in the normal transport of the trailer.

The gooseneck must also be equipped with a 2" kingpin (conforming to SAEJ700A) properly boxed to prevent cracking and dishing of the fifth wheel plate. The upper fifth wheel plate shall be adequate in size for coupling to a 36" fifth wheel or a full oscillation fifth wheel.

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TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)**

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

**SPECIFICATIONS OF THE GOOSENECK (Cont'd)**

**Materials and Construction (Cont'd)**

The gooseneck shall connect to the main frame of the trailer using two (2) interlocking gooseneck hooks. Each hook shall be no less than 6" thick and flame cut from A572- GR42 plate stock. The use of multiple plates welded together to form hooks shall **not be acceptable**.

The gooseneck shall be equipped with a hydraulic gooseneck support and transverse frame shoe to support the gooseneck on the frame of the tractor when the gooseneck is detached from the trailer.

**Range of Movement**

Further, these cylinders shall be able to lower the trailer's main deck to the ground so that the gooseneck can be detached and shall be able to raise a fully loaded trailer without shifting the load in order to reattach the gooseneck.

The design of the detachable gooseneck shall also be capable of lifting the loaded platform above the normal travel position to assist in avoiding highway obstructions and to lower the loaded platform below the normal travel position to assist in avoiding overhead obstructions. This will be done without the gooseneck or the deck making contact with the ground.

The gooseneck shall be equipped with two (2) pairs of trap door extension blocks to adjust the ride height at the front of the deck. The normal or standard deck height of 22" loaded requires the ½" blocks to be in place giving a loaded ground clearance of 6". The 1" blocks will allow you to raise the deck height 2" giving you a loaded deck height of 24" and a loaded ground clearance of 8". To lower the deck height requires no blocks giving you a 20" loaded deck height with a loaded ground clearance of 4".

**Power Source**

Power shall be supplied by a customer furnished Power Take-Off (PTO) system mounted on the tractor developing a maximum 2,300 psi pressure.

**Storage**

A steel covered lockable toolbox shall be located at the front center of the gooseneck.

**Material and Construction - Main Frame to Gooseneck Connection**

The main deck of the trailer shall connect to the gooseneck by means of two (2) interlocking beam hooks. Each hook shall be no less than 6" thick and flame cut from A572-GR42 plate stock. The use of multiple plates welded together to form hooks shall **not be acceptable**.

The front of the trailer shall be designed to allow the beam hooks to self-align for easy reconnection. Use of eye and pin connection for deck to gooseneck

Introduced on: July 19, 2023  
Adopted on: July 19, 2023  
Official Resolution#: 2023001021

**ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 50 TON NON- ROUND ENGAGING DETACHABLE GOOSENECK 3-AXLE AIR RIDE GENTLE RISER LOWBOY SEMI-TRAILER TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)**

Res-Pg:m.4-8

COMPLIANCE  
YES                      NO

**SPECIFICATIONS OF THE MAIN FRAME**

**Longitudinal Members**

All longitudinal carrying members shall be fabricated, using high strength low alloy steels. The main frame shall consist of two (2) 16" deep I-beams for the main beams. The webs shall be ASTM A572-GR50, 50,000 psi minimum yield steel and the flanges shall be ASTM A514, 100,000 psi minimum yield steel. All welding of these main beams will be accomplished by use of a submerged arc machine.

The side beams for this 50-ton capacity lowbed trailer shall be a 13" deep I-beam. The webs shall be ASTM A572-GR50, 50,000 psi minimum yield steel and the flanges shall be ASTM A514, 100,000 psi minimum yield steel. All welding of these side beams will be accomplished by use of a submerged arc machine.

Vertical gussets shall be installed in the front slope area of the deck to support the top flange of the side beams, three (3) on each side.

Reinforcing shall support the top of the side beam flange, full length of the deck and riser on both sides of the trailer.

**Cross Members**

Construction of the main frame shall include two (2) anchor channels (one (1) at each end of deck). These channels shall be 10" deep.

The full width cross members for this trailer shall consist of eleven (11) 10" deep and spaced on 24" centers, pierced through the web of the main beams. Multiple piece cross members **are not acceptable**.

All cross members shall be welded to the main beams and side beams.

**Access to Main Deck**

Two (2) 33 ½" long by 23 ½" wide laterally adjustable front fold-down loading ramps with oak inserts shall be provided to form a 9° approach to the main deck area.

The front of the main beams, side beams, and beam hooks shall be tapered on the top to permit easy loading of low ground clearance equipment. Also, the bottom of the main beams and side beams must facilitate the deck resting evenly on the ground.

**Side Brackets**

This platform deck trailer shall be equipped with one (1) set of twenty-six (26) cast ductile iron side brackets (thirteen (13) brackets per side) to increase the width of the deck to 10'-6.



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**COMPLIANCE**  
**YES NO**

**SPECIFICATIONS OF THE MAIN FRAME (Cont'd)**

**Side Brackets (Cont'd)**

When the side brackets are not in use, they shall be secured against the side beam with spring loaded clips. Fabricated side brackets **are not acceptable.**

**Anchor Points (Lashing D's)**

Twenty-Three (23) drop forged lashing D's of 1" diameter steel (C1030 steel construction) shall be provided. The lashing D's shall have a working load limit of 15,586lbs.

Rotating lashing D's **are not acceptable.**

They shall be positioned as follows: three (3) standard D's on the gooseneck, six (6) Bent D's on each side of the deck, one (1) bent D on each side of the riser section between the main deck and the rear frame area, one (1) standard D on the end of each trunnion beam between the tires, and one (1) D on top of each rear outside corner of the wheel covers.

The successful bidder shall furnish test results from an independent testing agency detailing strength and characteristics of the lashing D's to be supplied.

**Flooring**

The platform deck shall have full cut 1 3/4" air-dried oak laid longitudinally with the planking secured to the cross members with countersunk button head carriage bolts and floor clips. A center board shall be installed in the centerline of the deck, approximately 10' long, with center boards loose with hand holes on each side of the installed board. The hardwood decking shall be fitted to eliminate gaps.

Drilling of the cross members or use of self-tapping screws to secure the deck **is not acceptable.**

**Storage**

A wood covered toolbox shall be installed at the front center of the deck in the 2nd bay.

A wood covered toolbox shall be installed at the rear center of the deck in the 2nd to last bay.

**Materials and Construction**

The main carrying members of the rear frame shall be fabricated using high-strength, low alloy steel. The webs shall be ASTM A572- GR50, 50,000 psi minimum yield steel and the flanges shall be ASTM A514, 100,000 psi minimum yield steel.

1/4" tread plate reinforced, flush wheel covers shall be installed over the tire area.

One (1) pair of flag holders shall be built into the rear channel.

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COMPLIANCE  
YES                      NO

**SPECIFICATIONS OF THE REAR FRAME**

**Access to Rear Frame**

The rear riser section shall run at a 20° angle between the main deck and the rear frame area and have a 20" drop between these two parts of the trailer. The riser area shall be covered with wood decking. The length of the riser shall be 55". Wood shall be installed in the center of the rear frame, between the wheel covers, making the rear frame fully covered. This Gentle Riser shall facilitate the loading of equipment from the deck onto the rear frame

The rear frame shall include trunnion beams between each set of wheels.

**Suspension**

Each of the three axles shall be equipped with an air ride suspension rated at 25,000 lbs. capacity by the suspension manufacturer. The suspension shall require no lubrication.

The suspension shall also include a height control system to mechanically adjust the ride height of the suspension by 3" up or down.

This system shall have five (5) positions:

- Two (2) positions to increase the standard ride height
- One (1) standard ride height
- Two (2) positions to decrease the standard ride height.

An air dump valve shall be installed to be able to fully exhaust or dump the air from the air bags of the air ride suspension. The push/pull valve to operate the air dump valve shall be located on the roadside of the riser section between the main deck and the rear frame area.

**Axles**

Each of the three (3) axles of the trailer shall be of a through-type design with a 5" round axle bar. The wheel bearings shall be an oil-bathed type.

Each axle shall be rated at 25,000 lbs. capacity by the axle manufacturer.

There shall be a spacing of 54 ½" between each axle.

An axle lift shall be installed on the 3rd axle. This lift shall be controlled by air furnished by the tractor, inflating airbags causing the axle to lift off the ground. The air bags for the axle air lift shall be located in front of the 3rd axle below the rear frame beams. The push/pull valve to operate the axle air lift shall be installed on the roadside of the riser section between the main deck and the rear frame area.

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TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)** Res-Pg:m.4-11

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

**SPECIFICATIONS OF THE REAR FRAME (Cont'd)**

**Hubs and Wheels**

The hubs shall be ten (10) stud, hub-piloted type and made of cast ductile iron.                      

The inner wheels shall be 22.5 x 8.25 10-hole hub piloted steel disc and the outer wheels shall be 22.5 x 8.25 10-hole hub piloted steel disc.                      

**Tires**

The trailer shall be equipped with twelve (12) size 275/70R 22.5 H16 radial tubeless tires.                      

These tires shall be rated by the tire manufacturer at 24,700 lbs. per axle at highway speed.                      

Two (2) spare wheels and tires to be provided                      

**BRAKE SYSTEM**

**Air Delivery System**

The air brakes shall conform to DOT specifications in effect at time of delivery.                      

The complete system shall include all necessary tubing; glad hand connectors at the front of the gooseneck; and air reservoir(s).                      

**Mechanical Brakes**

The six (6) wheel brakes shall be the two-shoe internal expansion type with molded block lining, size 16 1/2" x 7", actuated by constant riser "S" type cam, connected to Type 30 spring brake air chambers through automatic slack adjusters on each drum.                      

Lubrication points shall be provided for lubrication of the cam shaft and brake shoe bushings.                      

The entire system will be controlled by a 4-sensor, 2-module (4S/2M) anti-lock braking system.                      

All precautions shall be taken to prevent the brake mechanism from being damaged by road hazards.                      

**LIGHTS, ELECTRICAL SYSTEM AND MARKINGS**

**General Specifications**

The trailer shall be furnished with a complete 12-volt light system consisting of marker lights and directional signals to comply with existing DOT regulations.

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Res-Pg:m.4-12

**COMPLIANCE**  
**YES NO**

**LIGHTS, ELECTRICAL SYSTEM AND MARKINGS (Cont'd)**

**Wiring System**

The 12-volt wiring system shall be contained in modular-type, water-resistant harnesses.

The tractor/trailer connector shall be a seven-wire socket.

All wiring that runs through cross members shall be adequately protected from grounding.

A self-powered auxiliary light system that flashes all of the trailer lights when power is interrupted or disconnected from the trailer shall be provided.

**Lights, Reflectors and Conspicuity**

All lights shall be of the sealed beam style and be mounted in a rubber grommet. They shall be recessed or provided with guards to prevent accidental damage.

All marker lights shall be reflectorized.

Red and white conspicuity tape will be installed in conformity with NHTSA regulations.

**LAMP CONFIGURATION**

Two (2) LED amber marker/turn lights	Center of gooseneck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Three (3) LED white work lights w/switch	Gooseneck	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Front of deck, facing forward	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Front slope of deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED mini strobe lights w/switch	Front slope of deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Ten (10) add'l LED amber marker lights	Deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker/turn lights	Center of deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker/turn lights	Center of riser area, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) LED amber marker lights	Below each trunnion between tires, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED mini strobe lights	Rear of trailer, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red marker lights	Rear of trailer, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red stop/turn signal lights	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red marker lights	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Three (3) LED red marker lights	Rear of trailer, center, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) LED white license plate light	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED oval amber strobe lights w/switch	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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**ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 50 TON NON- ROUND ENGAGING DETACHABLE GOOSENECK 3-AXLE AIR RIDE GENTLE RISER LOWBOY SEMI-TRAILER TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)**

Res-Pg:m.4-13

	<u>COMPLIANCE</u>	
	<u>YES</u>	<u>NO</u>
<b><u>PREPARATION, PRIME AND FINISH</u></b>		
<b>Preparation and Primer</b>		
Prior to welding and assembly, the steel shall be shot-blasted and buffed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Prior to painting, the steel shall be cleaned and ground to eliminate splatter and scale.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Finish</b>		
The assembled frame shall be primed with an epoxy primer . The frame shall be finished with one coat of the manufacturer’s lead-free and chromate-free rust preventative.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Accessories to be Included</b>		
Four (4) Grade 70, 10-Foot Long, 3/8” Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Grade 70, 16-Foot long, 3/8” Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Grade 70, 20-Foot long, 3/8” Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eight (8) binders for 3/8” chain, Grainger Peerless ratchet load binder rated for 12,000 lb., or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Four (4) tie-down straps with u-hooks; shall be between 15 and 20 feet in length, Grainger Tie Down Strap #38Z943, or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>WARRANTY</b>		
The bidder shall include a copy of their standard commercial warranty with their bid.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Additionally, the warranty must include, at minimum:		
<b>Limited Structural Warranty</b>		
Shall warrant new trailer structure to be free from defects in material and workmanship under normal usage and service for a period of seven (7) years after delivery of the trailer to the customer. Warranty coverage will be in accordance with the schedule below. Trailer structure shall be considered the framework of the trailer (gooseneck, main frame and/or rear frame. This warranty is not transferable to any other customer who may purchase this trailer from the original owner within the seven-year period.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**✓ ITEM #1 – CURRENT MODEL YEAR, OR NEWER, 50 TON NON- ROUND ENGAGING <sup>Res-Pg:m.4-14</sup>  
DETACHABLE GOOSENECK 3-AXLE AIR RIDE GENTLE RISER LOWBOY SEMI-TRAILER  
 TRAILER, AS SPECIFIED, OR EQUAL (CONT'D)**

COMPLIANCE  
YES                      NO

**WARRANTY (Cont'd)**

**Structural Warranty Coverage Schedule:**

Vendor shall bear that portion of the cost of repairing or replacing any trailer structure found to be defective within the seven-year warranty period based on the following schedule:

- One (1) Year: 100%
- Two (2) Years: 90%
- Three (3) Years: 80%
- Four (4) Years: 70%
- Five (5) Years: 60%
- Six (6) Years: 50%
- Seven (7) Years: 40%

**Warranty of Other-Manufactured Components:**

Manufactured components of trailers (other than the trailer structure), with the exception of loading ramps, for a period of one (1) year after delivery of the trailer to the customer. Vendor shall make no warranty of loading ramps, or of components supplied by other manufacturers, and the vendor's warranty of its own components will not expand or alter in any way the warranties of the original manufacturers and suppliers of components or accessories. Vendor shall assign to the customer any warranty rights it receives from the component manufacturer or supplier. Please contact you dealer in the event of a problem with the trailer or its components.

In general, components will be subject to the following manufacturers' warranties:

1. Axles, suspensions, wheels, rims, hubs, landing gear, hydraulic valves, and manufactured components: One (1) year: 100%; Over one (1) year: 0%
2. Cylinders, brake drums, brake valves, oil seals, shock absorbers, springs, air bags, leveling valves, air lines, bearings, electrical, hydraulic hoses/connections and paint: One (1) to six (6) months: 100%; Over six (6) months: 0%
3. Tires and tubes: Make claim directly to local tire dealer.
4. Engines: Make claim directly to local engine dealer.
5. Wear parts, including light bulbs, brake lining, all loading ramps and wood: 0%

**Service Center**

Awarded vendor shall have an authorized service center within 90 miles from Toms River

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TRAILER, AS SPECIFIED, OR EQUAL (CONT'D) Res-Pg:m.4-15

COMPLIANCE  
YES                      NO

✓ OPTIONS (Cont'd)  
1A. Training

Training shall take place at a designated Ocean County Facility. Training shall be coordinated with the user department upon delivery of the vehicle.

Initial training will be eight (8) hours long:  
Four (4) hours shall be spent with operators  
Four (4) hours shall be spent with vehicle services technicians.

An outline of both training sessions shall be provided prior to occurrence.

Once the trailer has been in service for 60 days, another 8-hour training session will take place similar to the first at a designated Ocean County Facility.

**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL**

**COMPLIANCE**  
**YES NO**

**GENERAL**

The purpose of these specifications is to describe in general terms the components in a 21-ton capacity, two-axle tagalong trailer.

It shall be capable of being towed over both improved and unimproved roads with a full capacity load.

The trailer shall be rated for full capacity at 60 MPH, concentrated in one-half the length of the deck.

**DIMENSIONS**

Drawbar Length	80"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Clear Deck Length (24' 0" flat deck plus 6' 0" beavertail)	30' 0"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Deck Height (loaded)	34"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capacity (concentrated in 15' 0" of deck @ 60 MPH)	42,000 lbs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Axle Spacing	49"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Wheelbase	26' 0"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall Length	36' 10"	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Overall Width	102"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**SPECIFICATIONS FOR THE MAIN FRAME**

**Material and Construction**

**Longitudinal Members:**

All longitudinal carrying members shall be high strength low alloy steel.

The main frame shall consist of two (2) 14" deep I-beams made of ASTM A572 GR50, 50,000 psi minimum yield steel.

The side channels for this 21-ton capacity tagalong trailer shall be 8" deep and made of ASTM A572 GR50, 50,000 psi minimum yield steel.

Cut-away areas over the tires will **not be acceptable**.

**Cross Members:**

Construction of the main frame shall include seventeen (17) full width cross members: ten (10) 4" deep channels made of ASTM A36, 36,000 psi minimum yield steel, five (5) 6" deep I-beams made of ASTM A36, 36,000 psi minimum yield steel and two (2) formed cross members made of ASTM GR50, 50,000 psi minimum yield steel, pierced through the web of the main beams. Multiple piece cross members and knee braces shall be deemed unacceptable for these seventeen (17) cross members.

All cross members shall be welded to the main beams and side channels.



**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES NO**

**Drawbar:**

The drawbar shall be an integral "A" type at least 80" in length. Bending of the beam flanges **is not acceptable when forming the drawbar.**

The front plate that the pintle eye attaches to shall be a flat 1/2" thick late flush fit to the miter cut drawbar beams.

The drawbar pintle eye shall be a 4-bolt adjustable type and provide at least six (6) positions of height adjustment. The pintle eye shall have a minimum 15,000 lb vertical load capacity and 60,000 lb tow capacity. The inside diameter shall be 3".

The safety chain shall be 1/2" proof coil and 132" long. It shall be fitted through the front plate of the drawbar instead of two (2) separate pieces of chain being welded or bolted to the drawbar. One (1) pair of clevis grab hooks with a safety latch will be supplied.

A heavy-duty single two-speed landing gear shall be installed in the center of the drawbar with a lifting capacity of 50,000 lbs and a static capacity of 70,000 lbs. The trailer will also be prepared to accept a dual landing gear setup if so desired in the future.

A steel covered lockable toolbox shall be provided at the rear of the drawbar.

**Access to Main Deck:**

The trailer shall have an 8-degree rear slope for easy loading of equipment. It shall be equipped with two (2) air operated rear loading ramps. The ramps shall be steel with oak inserts and shall measure 84" long x 38" wide. The ramps will have an additional 12" tapered ramp extension made of aluminum and is removable. When the ramps are not in use, they shall be in the upright vertical position and secured with a safety link bar that is attached to the sides of the beavertail of the trailer and the sides of the air ramps.

**Anchor Points (Lashing D's):**

Fourteen (14) drop forged lashing D's of 1" diameter steel (C1030 steel construction) shall be provided, seven (7) each side of the deck.

**Flooring:**

The platform deck shall have full cut 1 3/4" air-dried oak laid longitudinally with the planking secured to the cross members with countersunk button head carriage bolts and floor clips. The hardwood decking shall be fitted to eliminate gaps.

Drilling of the cross members or use of self-tapping screws to secure the deck

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**is not acceptable.**

**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL (CONT'D)** Res-Pg:m.4-18

<u>COMPLIANCE</u>	
<u>YES</u>	<u>NO</u>

**THE REAR ASSEMBLY**

**Suspension:**

The trailer shall be equipped with a multi-leaf spring, tandem axle underslung suspension rated at 44,800 lbs. capacity by the suspension manufacturer. The suspension shall be completely rubber mounted and require no lubrication.

☒                      ☐

**Axles:**

Each of the two (2) axles of the trailer shall be of a through-type design with a 5" round axle bar. The wheel bearings shall be an oil-bathed type.

☒                      ☐

The two (2) axles shall have a 71" track length so that the out-to-out of the tires dimension does not exceed 96".

☒                      ☐

Each axle shall be rated at 22,500 lbs. capacity by the axle manufacturer.

☒                      ☐

**Hubs and Wheels:**

The hubs shall be eight (8) stud, hub-piloted type and made of cast ductile iron.

☒                      ☐

The wheels shall be four (4) 17.5 x 6.75 hub piloted steel disc on the inner wheels and four (4) 17.5 x 6.75 hub piloted steel disc on the outer wheels.

☒                      ☐

**Tires:**

The trailer shall be equipped with eight (8) size 235/75R17.5 H16 radial tubeless tires.

☒                      ☐

These tires shall be rated by the tire manufacturer at 22,700 lbs. per axle at highway speed.

☒                      ☐

Two (2) spare wheels and tires to be provided

☒                      ☐

**BRAKE SYSTEM**

**Air Delivery System:**

The complete system shall include: all necessary tubing; glad hand connectors at the front of the drawbar; and air reservoir(s), each with not less than 1507 cubic inch capacity.

☒                      ☐

The trailer shall be equipped with cable pull remote air tank drains.

☒                      ☐

**Mechanical Brakes:**

The four (4) wheel brakes shall be the two-shoe internal expansion type with molded block lining, size 12 ¼" x 7 ½", actuated by constant riser "S" type cam, connected to Type 30 spring brake air chambers through automatic slack adjuster on each drum.

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**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL (CONT'D)** Res-Pg:m.4-19

COMPLIANCE  
YES                      NO

**Mechanical Brakes: (Cont'd)**

Lubrication points shall be provided for lubrication of the cam shaft and brake shoe bushings.

☒                      ☐

The entire system will be controlled by a 4-sensor, 2-module (4S/2M) anti-lock braking system.

☒                      ☐

**LIGHTS, ELECTRICAL SYSTEM AND MARKINGS**

The trailer shall be furnished with a complete 12-volt light system consisting of marker lights and directional signals to comply with existing DOT regulations.

☒                      ☐

**Wiring System:**

The 12-volt wiring system shall be contained in modular-type, water-resistant harnesses.

☒                      ☐

The tractor/trailer connector shall be a seven-wire socket.  
One (1) 7-wire jumper cord is to have 7-round semi plugs on both ends.  
The drawbar is to have a 7-round harness socket connected to the main harness and mounted in the drawbar to accept the jumper plug.

☒                      ☐

All wiring that runs through cross members shall be adequately protected from grounding.

☒                      ☐

**Lights, Reflectors and Conspicuity:**

All lights shall be of the sealed beam style and be mounted in rubber grommets. They shall be recessed or otherwise provided with guards to prevent accidental damage. All marker lights shall be reflectorized.

☒                      ☐

Red and white conspicuity tape will be installed in conformity with NHTSA regulations.

☒                      ☐

**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL (CONT'D)**

**COMPLIANCE**  
**YES NO**

**LIGHTS, ELECTRICAL SYSTEM AND MARKINGS (Cont'd)**

**Lamp Configuration:**

Two (2) LED white license plate lights	Inside of toolbox	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Front of deck, facing forward	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED mini strobe lights w/switch	Front of deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Front of deck, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Side of deck behind 2nd lashing D	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker/turn lights	Side of deck behind 3rd lashing D	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Side of deck behind 4th lashing D	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED amber marker lights	Side of deck ahead of last lashing D	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED mini strobe lights	Front of beavertail, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red marker lights	Rear of trailer, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) amber ABS marker light	Rear of trailer, roadside, facing out	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red stop/turn signal lights	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED red marker lights	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Three (3) LED red marker lights	Rear of trailer, center, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) LED mini strobe lights w/switch	Rear of trailer, above 3-light cluster	<input checked="" type="checkbox"/>	<input type="checkbox"/>
One (1) LED white license plate light	Rear of trailer, facing aft	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**PREPARATION, PRIME AND FINISH**

Prior to welding and assembly, the steel shall be shot-blasted and buffed.  
Prior to painting, the steel shall be cleaned and ground to eliminate splatter and scale.

The assembled frame shall then be primed with epoxy primer.

**Finish**

The assembled frame shall be primed with an epoxy primer . The frame shall be finished with one coat of the manufacturer's lead-free and chromate-free rust preventative.

**Accessories to be Included**

Four (4) Grade 70, 10-Foot Long, 3/8" Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Grade 70, 16-Foot long, 3/8" Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Two (2) Grade 70, 20-Foot long, 3/8" Chains with hooks	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Eight (8) binders for 3/8" chain, Grainger Peerless ratchet load binder rated for 12,000 lb., or equal	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**ITEM #2 – CURRENT MODEL YEAR, OR NEWER, 21 TON DRAWBAR TAG-ALONG TANDEM AXLE SPRING RIDE SUSPENSION TRAILER, AS SPECIFIED OR EQUAL (CONT'D)** Res-Pg:m.4-21

<u>COMPLIANCE</u>	
<u>YES</u>	<u>NO</u>

**Accessories to be Included (Cont'd)**

Four (4) tie-down straps with u-hooks; shall be between 15 and 20 feet in length, Grainger Tie Down Strap #38Z943, or equal

**WARRANTY**

The bidder shall include a copy of their standard commercial warranty with their bid.

Additionally, the warranty must include, at minimum:

**Limited Structural Warranty**

Shall warrant new trailer structure to be free from defects in material and workmanship under normal usage and service for a period of seven (7) years after delivery of the trailer to the customer. Warranty coverage will be in accordance with the schedule below. Trailer structure shall be considered the framework of the trailer (gooseneck, main frame and/or rear frame). This warranty is not transferable to any other customer who may purchase this trailer from the original owner within the seven-year period.

**Structural Warranty Coverage Schedule:**

Vendor shall bear that portion of the cost of repairing or replacing any trailer structure found to be defective within the seven-year warranty period based on the following schedule:

- One (1) Year: 100%
- Two (2) Years: 90%
- Three (3) Years: 80%
- Four (4) Years: 70%
- Five (5) Years: 60%
- Six (6) Years: 50%
- Seven (7) Years: 40%

**Warranty of Other-Manufactured Components:**

Manufactured components of trailers (other than the trailer structure), with the exception of loading ramps, for a period of one (1) year after delivery of the trailer to the customer. Vendor shall make no warranty of loading ramps, or of components supplied by other manufacturers, and the vendor's warranty of its own components will not expand or alter in any way the warranties of the original manufacturers and suppliers of components or accessories. Vendor shall assign to the customer any warranty rights it receives from the component manufacturer or supplier. Please contact you dealer in the event of a problem with the trailer or its components.

