

LONG ISLAND RAIL ROAD
VEHICLE FLEET OPERATIONS
PURCHASE SPECIFICATION #106MW
CRANE/WELDING TRUCK

ADMINISTRATIVE

The vendor is required to place a check (✓) next to each item it meets specification or an (x) if it does not meet specification and give an adequate description for the alternative that is being proposed. Where information is requested the vendor is required to furnish the information.

ITEM NO	DESCRIPTION	COMPLY YES - ✓ NO - X	PROPOSED ALTERNATIVE
1.0	<u>GENERAL DESCRIPTION</u>		
1.1	The following specification describes a eleven (11) foot HD utility body utilized as a welding truck. Body and equipment shall be installed on a vendor supplied Ford 2022 or newer 550 XL HD 4x2 chassis cab or Vehicle Fleet Operations approved equivalent.		
2.0	<u>CHASSIS</u>		
2.1	Chassis specs as follows:		
2.2	19,500 GVWR.		
2.3	4x2 chassis.		
2.4	Regular two (2) door chassis cab.		
2.5	Driver's seat shall be high back bucket, fixed height with manual adjuster. Seat shall adjust forward/aft.		
2.6	Passenger seat shall be high back single-person bucket, fixed height with manual adjuster. Seat shall adjust forward/aft.		
2.7	XL-Trim.		
2.8	169-inch wheelbase.		
2.9	84" cab to axle.		
2.10	Front axle capacity shall be 5,600# minimum.		

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2.11	Rear axle capacity shall be 13,660# minimum.		
2.12	Diesel engine. Specify manufacture, HP, torque and model with bid proposal. Include engine shutdown feature.		
2.13	Automatic transmission. Specify number of speeds with bid proposal.		
2.14	Daytime running lights.		
2.15	Snowplow prep package.		
2.16	Power take-off with electronic activated switch. Provide two (2) engine rpm settings.		
2.17	Horizontal stainless steel exhaust with factory DPF system and diesel fluid tank.		
2.18	1,000 Watt, 110 Volt engine block heater.		
2.19	Passenger side air bag.		
2.20	OEM heated powered remote side view mirrors. Mirrors shall be 12"x7". Mirrors shall be extend/retract tow type mirrors.		
2.21	LT 225/70R x 19.5F BSW traction tires to the rear position only.		
2.22	Geared road speed shall be 75 mph.		
2.23	Payload upgrade package to 19,500 GVWR.		
2.24	Front license plate bracket.		
2.25	50 state emissions package.		
2.26	Ambulance prep package not-required.		
2.27	Trailer towing package.		
2.28	Air conditioning, CFC free.		
2.29	AM/FM stereo with clock.		
2.30	Factory installed upfitter switches.		
2.31	Factory installed amber roof marker lights.		

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2.32	Front tow recovery hooks.		
2.33	Factory trailer towing brake controller including 7-Pin trailer connector.		
2.34	Factory installed 6" angular black in color running boards.		
2.35	40-gallon aft axle fuel tank.		
2.36	Exterior color shall be School Bus Yellow.		
2.37	Interior shall be Gray cloth.		
2.38	Power windows driver/passenger w/driver's express down.		
3.0	<u>BODY SPECIFICATIONS</u>		
3.1	Knapheide heavy duty crane utility body or Vehicle Fleet Operations approved equivalent. Approx. overall length: 11'-0"; Overall width: 96.00".		
3.2	Body shall be Heavy Duty steel construction crane service body. Bid proposal shall include all literature and dimensional data on body specifications to be supplied.		
3.3	All body panels and compartment doors shall be fabricated from two-sided galvaneal steel.		
3.4	Completed body shall be <i>immersed</i> in electro-deposition gray epoxy prime paint to prevent premature corrosion. Body rust out warranty shall be 5 years minimum. No exceptions permitted.		
3.5	All shelves shall be capable of supporting a 250# load minimum.		
3.6	All compartment doors shall incorporate stainless steel full-length heavy-duty piano hinges.		
3.7	All vertical compartments shall be approx. 44"H x 20"D except where noted.		
3.8	The compartment doors shall have stainless steel slam action paddle activated handles with automotive style rotary latches. Latches shall not have keyed locks.		
3.9	All vertical compartment doors shall have over center spring closures.		

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3.10	Drop down compartment doors shall have spring/safety chains with plastic tubing or netting over the chain.		
3.11	All compartment doors shall incorporate weather drip shields.		
3.12	All outside compartments shall be furnished with an internal spring-loaded locking bar. <i>The locking bar handles shall incorporate steel welded on bushings as part of the handle assembly. Electrical conduit bushings are not acceptable.</i>		
3.13	All compartment doors shall be fully weather-stripped with HD automotive bulb weather stripping to prevent elements from entering the body.		
3.14	Wheel chocks four (4) Sauber type w/handles; install "V" type holders at rear wheel area for best access. Holders to be located on the streetside/curbside of body. Holders shall incorporate a retaining bar.		
3.15	Furnish and install black wheelhouse rubber moldings after body has been painted.		
3.16	Furnish and Install two (2) anti-sail type mud flaps. Mud flaps shall be black in color.		
3.17	Outside body dimensions shall be approx. 96"W x 132"L.		
3.18	Inside load space between the compartments shall be approx. 56" and approx. 44" between wheelhouses.		
3.19	Furnish and install a 18"L x full body width tail shelf. Tailshelf shall incorporate two (2) cable steps. Steps shall be located on each side of the tail shelf. Tail shelf shall incorporate two (2) 1"φ handrails to facilitate entering/exiting the body.		
3.20	Tailgate shall house crane outrigger assemblies.		
3.21	Furnish and install HD drop down slam action body tailgate.		
4.0	<u>Compartments Front to Rear (Passenger Side/Right Side)</u>		
4.1	<input type="checkbox"/> 36"W x 44"H x 20"D with vertical door. Furnish three (3) adjustable shelves with removable dividers. Provide ten (10) dividers per shelf.		
4.2	<input type="checkbox"/> 24"W x 44"H x 20"D with vertical door. Furnish three (3)		

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	adjustable shelves with removable dividers. Provide ten (10) dividers per shelf.		
4.3	<input type="checkbox"/> 48"W x 18"H x 20"D with drop down door over wheelhouse.		
4.4	Furnish one (1) fixed shelf with removable dividers. Furnish one (1) adjustable shelf with removable dividers. Provide ten (10) dividers per shelf.		
4.5	<input type="checkbox"/> 24"W x 44"H x 20"D with vertical door. Compartment shall be fully structurally braced to support the crane mounting per the crane manufactures requirements.		
5.0	<u>Compartments Front to Rear (Drivers Side/Left Side)</u>		
5.1	<input type="checkbox"/> 36" wide x 62.00" high gas bottle compartment constructed out of 3/16" diamond plate and reinforced by steel angle iron. Compartment shall be furnished with a double overlapping doors. Doors shall have a louvered section for airflow. The top of the compartment shall be closed. The top of the compartment shall have additional header bracing to eliminate flexing and racking. The compartment shall have drain holes. Furnish and install D.O.T. approved bottle holder retainers. The compartment shall be capable of holding a minimum of 300#.		
5.2	<input type="checkbox"/> 24"W x 44"H x 20"D with vertical door. Furnish three (3) adjustable shelves with removable dividers. Provide ten (10) dividers per shelf.		
5.3	<input type="checkbox"/> 48"W x 20"H x 20"D with drop down door over wheelhouse. Furnish one (1) fixed shelf with removable dividers. Furnish one (1) adjustable shelf with removable dividers. Provide ten (10) dividers per shelf.		
5.4	<input type="checkbox"/> 24"W x 44"H x 20"D with vertical door. Furnish three (3) adjustable shelves with removable dividers. Provide ten (10) dividers per shelf.		
6.0	<u>CRANE</u>		
6.1	Crane shall be Venturo HT40KX or Vehicle Fleet Operations approved equivalent.		
6.2	Crane hydraulics shall have proportional controls.		
6.3	Crane shall be mounted on the top of the righthand rear cabinet.		
6.4	Crane shall have rear full hydraulic independent outriggers.		

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6.5	Furnish and install adjustable boom rest.		
6.6	Crane shall be furnished in factory Dark Grey color.		
6.7	Boom storage light shall be installed on the cab dashboard. The boom storage light shall incorporate a whisker switch.		
7.0	<u>WELDER</u>		
7.1	Furnish and install Miller Trailblazer 302 Air Pack Welder.		
7.2	Welder shall be mounted on a welded structural steel stand in the bed against the bulkhead.		
7.3	Furnish and install optional desiccant air dryer.		
7.4	Furnish welder with optional remote control.		
7.5	Furnish welder with optional protective outdoor cover.		
8.0	<u>HYDRAULIC SPECIFICATIONS</u>		
8.1	Furnish and install hydraulic pressure test quick-disconnect coupling (with dust cap) located at the pedestal base to check system or pump pressure.		
8.2	All hose end fittings and adapters shall be SAE O-ring or 37° JIC flared fittings. All steel tubes and fittings shall be plated to prevent rust.		
8.3	All hose assemblies shall be burst rated for four-times the working pressure.		
8.4	All hose and steel tube assemblies shall be marked with their part number for easy identification.		
8.5	Hydraulic reservoir shall include return line ¼ turn ball shut off valve. The shut off valve shall be equipped with a device to keep the valve from being closed by accident. Reservoir shall be externally mounted in the front portion of the cargo bed area or internally mounted in the boom pedestal area.		
8.6	The hydraulic reservoir shall have a 10-micron return filter. Filter shall be spin-on type. Reservoir shall incorporate a sight glass.		
8.7	Permanently label tank with type of hydraulic fluid used in system. The hydraulic pump shall be powered by the chassis transmission		

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	power take off.		
8.8	Hydraulic system shall be open center, pressure compensating which will provide the required flow and pressure on demand.		
8.9	All hydraulic hoses shall be shielded from exhaust.		
9.0	<u>BODY EQUIPMENT</u>		
9.1	Furnish and install Holland T125 pintle hook reinforced to chassis frame rails. Include two (2) HD "D" rings for trailer safety chain hookup. Pintle hook shall be installed at 28" +/- 1" from the ground to the centerline of the throat.		
9.2	Furnish and install safety cone holder. Location of safety cone holder TBD at the vendor's facility pre-paint inspection.		
9.3	Furnish and install two (2) anti sail rear rubber mud flaps.		
9.4	Furnish and install two (2) rear rubber dock bumpers. Dock bumpers shall be black in color.		
9.5	Furnish install on cab rear wall one (1) 5lb fire extinguisher. Location of fire extinguisher TBD at the pre-paint inspection at the vendor's facility.		
9.6	Furnish loose in cab One (1) reflective triangle D.O.T. kit.		
9.7	Furnish and install rear bumper mounted 6- inch machinists vice. Location TBD at the vendor's facility during the pre-paint inspection.		
10.0	<u>ELECTRICAL</u>		
10.1	Chassis and Body lights and reflectors furnished shall meet or exceed all applicable FMVSS 108, state, OSHA and local regulations.		
10.2	<i>All standard chassis and platform lighting must be LED.</i>		
10.3	<i>All body factory electrical connections shall be sealed Weatherproof design. Butt and crimp connectors are All aftermarket electrical devices/equipment shall have soldered connections with sealed weather proof insulation. Butt and crimp connections are not acceptable.</i>		
10.4	Body brake/taillights shall be mounted on rear body posts for best		

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	visibility. Lights shall be rubber shock mounted. All lighting must be protected by circuit breakers. Circuit breakers shall be permanently labeled.		
10.5	Side body lights shall be recessed to protect from damage during loading, unloading and off-road driving activities. Lighting shall not be installed below rear bumper level. Lights shall be rubber shock mounted.		
10.6	Triple markers lights shall be recess mounted for best possible protection. Lights shall be rubber shock mounted. Rear chassis lights shall be recess mounted in rear body frame rails and shall be visible after all equipment is installed.		
10.7	Install (2) Federal Signal strobe lights Model #651 or equivalent with branch guard mounted brackets. Locations TBD at the vendor's facility pre-paint inspection. Wire to control panel.		
10.8	Furnish and install backup camera system. Camera shall be Rosco or VFO approved equivalent. Include LCD color monitor with driver audio feedback and nighttime/low light vision.		
10.9	Furnish and install electronic Backup alarm. The alarm shall automatically adjust volume of alarm to ambient noise levels. Alarm shall be wired into reverse light circuit. Backup alarm shall be tied into the outrigger motion alarm circuit.		
10.10	Furnish and install electric trailer brake controller in the chassis cab. Controller shall have brake sensitivity adjustment. Controller shall also incorporate a switch/button to activate/test trailer brakes.		
10.11	Furnish and install two (2) 7-pin trailer connectors at centerline of rear of chassis. One trailer connector shall be round pin-type, the other shall be spade type connector (RV type).		
10.12	Furnish and install Truck lite Model #80, Part #80351, 6"φ utility interior bin light in all body compartments. Lights shall not be equipped with individual switches. All compartment lights shall be wired to a fused connection to the chassis ignition switch. Compartment lighting shall be wired to switch box.		
10.13	Furnish and install three (3) Betts par 336 sealed beam full swivel floodlights, Model#315009. Locations TBD at the vendor's facility pre-paint inspection. Wire to control panel.		

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10.14	Furnish and install Federal Signal SW300 switch box in the chassis cab.		
10.15	Provide two (2) weatherproof GFI surface mounted duplex outlets wired to the welder. Locations TBD at the vendor's facility during the pre-paint inspection.		
10.16	Provide two (2) tool air fittings plumbed to the welder's air dryer. Locations TBD at the vendor's facility during the pre-paint inspection.		
11.0	<u>PAINT</u>		
11.1	Service body and all components shall be painted to exactly match OEM chassis cab. Paint shall be base coat/clear coat system only. Paint shall be PPG Deltron, Dupont Chroma system ultra-productive or VFO approved equivalent. Single stage paint system is not acceptable. Clear coating single stage paint system is not acceptable. Prepare body per manufactures specifications prior to topcoats. Bid proposal shall indicate brand and product line to be utilized.		
11.2	Black Ferox non-slip paint shall be applied to the body floor, tops of all body compartments and all grab handles after topcoat paint.		
11.3	Type of fluid decals shall be permanently stenciled with 1 1/2" letters on each tank in a conspicuous place using a contrasting color. Supply all operational and safety decals.		
11.4	Furnish and install safety conspicuity Tape 3M Diamond Grade; 2" red and white. Install on rear body tailshelf and along both bottom sides of service body.		
12.0	<u>MISCELLANEOUS</u>		
12.1	Completed unit must comply with all current N.Y.S. Motor Vehicle & Traffic Laws, Department of Transportation Federal Specifications.		
12.2	Completed unit shall have a stability test according to ANSI standards.		
12.3	Furnish and install all warning decals and general-purpose decals.		

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12.4	Furnish with each completed vehicle: Five (5) operation manuals. Five (5) repair and parts manuals. Specify completed height with bid proposal.		
12.5	Permanent decal visible to the driver of the completed height of the vehicle as built.		
13.0	<u>WEIGHTS</u>		
13.1	Bid proposals shall include the following weight calculations: Completed Front Axle Weight: Completed Rear Axle Weight: Payload Capacity:		
13.2	Vendor to supply a minimum of one (1) year warranty for parts and labor on all body components and body. If warranty or recall work is required, vendor shall bear entire cost to transport the vehicle to vendor's repair facility and return to Long Island Railroad Property.		
14.0	<u>DELIVERY</u>		
14.1	Specify with bid proposal # days after receipt of purchase Order for each completed vehicle.		
14.2	All vehicles and Manuals must be delivered to the following address: Long Island Rail Road Fleet Department 93-59 183rd Street Hollis, NY 11423		
14.3	<u>NOTE</u> All vehicles must be delivered between the hours of 8:00 AM and 2:00 PM with a 24-hour notice prior to delivery.		