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SPECIFICATIONS  
M-57-BP-L-AH

**035500**

TRAILER, 40,000 LB, 22 FOOT DECK, WITH 5' BEAVERTAIL

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November 19, 2018 GAW

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I. GENERAL TRAILER SPECIFICATIONS:

A. INTENT STATEMENT:

The purpose of these specifications is to describe a 40,000 LB GVWR, 22' fixed deck with 5' beavertail and ramps, payload capacity rated at 65 MPH. Reference: Interstate 40DLA.

NOTE: Pennsylvania Department of General Services, PCID No. 1075, "*General Requirements for Bidding PENNDOT Vehicles/Equipment*", most current version effective at the time and date of bid opening, is included as a part of this specification. PCID No. 1075 may be reviewed and downloaded from the Department of General Services website, <http://www.dgs.state.pa.us>.

Delivery as required per Department of General Service PCID NO. 1075 Section "G". All units must be delivered within **180** days after receipt of the purchase order by the successful bidder.

NOTE: Trailers must be delivered at ground level (stacking is unacceptable).

Trailers shall be delivered with current PA State Inspection Sticker.

Pre-delivery trailer plug and circuit compatibility testing with Department owned trucks shall be performed. (Ref: EQN-80A for guidance).

Warranty per PCID 1075, Section E 1, Construction Equipment – (2 years).

B. TRAILER COMPONENTS:

DECKING: 1.75-inch minimum, pressure treated wood, oak or apitong flooring, with no raised wheel cutouts, (steel acceptable over wheels).

HITCH: 3-inch Lunette eye - minimum 5 vertical positions of adjustment. With Pintle eye in top position delivered hitch height shall be set at 28 inches from ground to center of eye with trailer level.

TIE DOWNS: Minimum four (4) D-rings per side.

SAFETY CHAINS: Two (2), minimum non-rusting, coil-proof, high tensile. Each chain shall have a minimum breaking strength rated equal or above the GVWR. Each chain shall extend 3 feet beyond the Pintle eye. Forged steel hooks with safety hasp to fit a minimum 5/8-inch up to and including a 3/4-inch D-ring (from tow vehicle) at the end of chain and the other end of the chain shall be permanently mounted to trailer.

LIGHTS: 12 volt All lights shall be LED, rubber mounted, with sealed wiring harness. Grote Ultra Blue, or equal (Ref: EQN-80A for guidance). Grote Ultra Link 500 power cord (87020), with one end severed and hard wired into a weatherproof box. Power cord shall extend 8 feet in length beyond Pintle. There shall be a Cole Hersee No. 11750 stor-a-way trailer connector plug-holder located in the tongue area. All harness pass-through locations shall be protected by a grommet. All wiring shall be protected within a frame-rail, metal enclosure or conduit. Wiring shall not be exposed within a wheel-well.

There shall be a Truck-Lite Model# 36140C LED license plate light with light bracket PN# 36710 installed and properly mounted to accept a full-size license plate.

There shall be no connections outside of a sealed box, unless connections are soldered and properly sealed with heat shrink. **3M type (Scotch Lock) crimp connectors are unacceptable and will not be accepted.** All electrical connection shall be coated with dielectric grease.

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I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

PAINT/PREPERATION: Prior to painting, all metal surfaces shall be cleaned utilizing a phosphate wash procedure, sandblasted or shot beaded to insure proper paint adherence and rust prevention, with all edges and holes de-burred, and all weld splatter removed the unit shall receive a minimum of (2) coats of paint, (1) shall be a zinc based epoxy primer, and (1) coat of finish paint.

Pricing shall be provided for Manufactures standard yellow paint and PENNDOT yellow paint.

COLOR: Trailer, toolbox and landing gear shall be OEM construction yellow, wood not need be painted. Wheels can be white, yellow, silver or argent. Conspicuity per EQN-127A. The undercarriage shall be painted either yellow or black.

Option: Paint Penn Dot yellow. Reference DuPont F9885, PPG 85246, Sherwin Williams 73266, NAPA 73266 and Sikkens 4017 shade only.

RUNNING GEAR, TIRE SIZE, HUBS: As required to meet net – 40,000 LB capability.

WHEELS: One-piece rims. (Mobile home type wheels are unacceptable). There shall be one spare wheel and tire assembly, mounted on a lockable bracket assembly (not to interfere with useable deck space and jack handle). Wheels shall be properly sized within all requirements and ranges to meet the specification.

SUSPENSION: Slipper spring with equalizer, or rubber bushed.

AXLES: Tandem axles shall be rated as (2) 20,000 LB. (minimum). All axles, if applicable, shall be equipped with EZ lube system.

BRAKES: Air brake system. Brakes shall apply in the absence of air pressure. Air glad-hand hoses shall extend a minimum of 48 in. beyond the Pintle. Glad-hands shall be color-coded. Trailers are to be equipped with surge brakes (unless specified as air brakes) and rely on a mechanical braking system. The use of electrical connections such as solenoids or dump valves and manual lockout devices will not be accepted for trailer backing. The axle brake shoes MUST be "FREE BACKING" type.

OVERALL WIDTH: 102-inch, maximum.

DECK HEIGHT: Top of deck to ground, approximately 36" maximum height.

FLAT DECK LENGTH, MIN: 22 feet minimum useable deck length, excluding beavertail, per EQN-141C.

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I. GENERAL TRAILER SPECIFICATIONS: (Continued)

B. TRAILER COMPONENTS: (Continued)

RAMPS: Adjustable, heavy-duty steel framed ramps, with oak apitong, pressure treated wood inserts or gripping type steel cross sections. Each ramp shall be a minimum of 18 inches wide. Ramps shall have a positive locking system in the travel position. Per EQN-141C.

LANDING GEAR: Properly rated and capable of swinging back or up for travel. The landing gear shall be centerline mounted. Jack handle shall not interfere with any part of trailer or spare tire.

TOOL BOX: Steel toolbox mounted in the tongue area, lockable, not to interfere with trailer operation.

ACCESSORIES: Four (4) .3750-inch x 10-foot grade 70 transport tie down chains and .3750-inch ratchet screw type binders. All items to be stored in toolbox.

OTHER FEATURES: Hi-strength low alloy steel mainframe.

\*NOTE: A decal stating, "(MLWR) Trailers actual load carrying capacity is \_\_\_\_\_" shall be posted on the trailer in minimum 1-inch lettering.

A metal identification tag stating manufacturer's information, model number, serial number and date of build shall be mounted within the tongue area.

All pivot points shall be of the "heavy duty" design and shall incorporate easily accessible zerk fittings. Zerk fitting location/s shall be stenciled on the trailer.

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II. DRAWINGS:

EQN-80A	dated	Rev.	08-02-18	1 sheet	WIRING DIAGRAM
EQN-127A	dated	Rev.	01-02-09	1 sheet	CONSPICUITY TAPE STRIPING REQUIREMENTS
EQN-141C	dated	Rev.	06-17-05	1 sheet	TRAILER, 40,000 LB, 22' DECK WITH 5' BEAVERTAIL

The above referenced drawings shall become part of these specifications. These drawings reflect the intent of the Department. Any discrepancies shall be resolved at the Pre-build meeting between the vendor and the Fleet Management Division.

**DRAWINGS APPEAR AT THE END OF THE SPECIFICATIONS.**

III. MANUALS

The successful vendor shall furnish all applicable manuals per unit:

- 1 Operator's
- 1 Parts
- 1 Service
- 0 Engine
- 1 Transmission (Automatic or Manual)
- 1 Body and Sub-frame (Parts and Service)
- 1 Complete set of manuals for any additional items/equipment added to a piece of equipment.

The manuals listed shall be official O.E.M. publications supplemented with technical manuals for all components as published by sub-vendors/manufacturers.

Parts Manual presented must be a relative to "all" items utilized to build these units, with appropriate part numbers.

Delivery of these manuals shall be completed within a maximum of 90 days after the pilot model is accepted.

Manuals may be supplied on CD Disc in lieu of paper manuals.

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IV. TRAINING

Mechanic:

The successful vendor shall provide services of qualified factory trained technicians for not more than   0   training sessions of not more than   0   hours at   0   PennDOT locations to train personnel for in-depth preventive maintenance, overhaul and review of the proper usage of parts and service manuals, as well as component/system adjustments that need to be monitored at specified service intervals.

Operator:

The successful vendor shall provide services of qualified factory trained technicians for not more than   0   training sessions of not more than   0   hours at   0   PennDOT locations to train personnel in the proper operation, safety and servicing of the equipment.

The successful vendor shall submit a training plan to the Equipment Division for approval within 45 days after receipt of the Purchase Order. The training plan shall consist of course outline and class schedule.

All training must be completed within 60 days after the dates established in the approved training plan unless an extension is mutually agreed to in writing by the Chief of the Equipment Division.

All training shall be coordinated with the District Equipment Managers, with the exception of Asphalt related training, which must be coordinated with the Statewide Training Coordinator (717) 787-4836, Fax (717) 783-4438.

V. WARRANTY: Per PCID No. 1075