

SPECIFICATIONS

**002084  
CONE SETTER PLATFORM ATTACHMENT**

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SPECIFICATIONS

I. GENERAL EQUIPMENT SPECIFICATIONS:

A. INTENT STATEMENT:

NOTE: Pennsylvania Department of General Services, PCID No. 1075, "General Requirements for Bidding PennDOT Vehicles/Equipment", Effective 2/14/2008 is included as part of this specification, Excluding warranty section E and warranty is here by replaced with section III on page 5 of this specification (002085).

Delivery as required per Department of General Services PCID NO. 1075 Section "G". All units must be delivered within 60 days after receipt of the purchase order by the successful bidder.

This specification describes minimum requirements for light weight cone setter platforms to be attached to the rear of a single rear wheel  $\frac{3}{4}$  or 1 ton pick up truck with standard bed, capable of holding one person (Minimum weight of 315 pounds) while manually setting or retrieving traffic cones and storing them on the standard bed pick up truck, while traveling at speeds up to 15 MPH. The unit must be adaptable to various department owned trucks; IE Ford, Chevrolet, Dodge, GMC etc utilizing mounting by the 2" tow hitch receiver and a pair of outriggers for stabilization.

**It is understood that the components specified are minimum. The burden of responsibility is hereby placed on the manufacturers engineering department to supply a unit that is totally engineered.**

B. CONE SETTER PLATFORM:

1. UNDERSTRUCTURE FRAME:

Unit shall be constructed to fully accommodate a full upper structure basket that measures 78 inches wide by 30 inches deep. Rails are to be continual lengths to the rear of the platform for stability. A frame constructed of 2"x4" perimeter tubing to include crossmembers using 1.5" box tubing for Supporting a platform floor and vertical frame members including a central vertical frame member. Ref: EQN-1091, sheet 1 of 4. Unit shall be securely fastened to a height adjustable mount assembly allowing for a travel and work position which shall be easily adjustable by one person to position though the assistance of two hand crank jack stands. These stands shall be attached to the frame of the basket on the same side as the hitch assembly on both corners. These jack stands shall be attached utilizing a 1/2" x 4" hitch pin with clip securing each jack to the front corners of the platform floor vertically Ref EQN-1091 sheet 3 of 4. A 1 1/4" receiver hitch shall, equipped with 1 1/2"x 4 1/4" hitch pin shall be incorporated into the subframe, floor level of the basket extending from the rear on the center line of the basket equipped with loops properly rated for safety chain attachment. This purpose of this hitch shall be for light tows such as a trailer mounted arrow board and shall be capable of towing up to 1,300 lbs. with a max tongue weight of 200lbs. Two removable "outriggers" shall be provided, mounted on the inner "step" frame. Outrigger shall have a vertical and horizontal height adjustment where attached to the basket along with a adjustable height "boom". Boom shall be height adjustable by control of a hand wheel easily adjusted from on the platform to control sway and balance of the basket while in use. Vertical mounting adjustment shall be achieved by the removal of a 1/2" pin and Ref: EQN-1091 sheet 4,5.

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### I. GENERAL EQUIPMENT SPECIFICATIONS: (Continued)

#### 2. MOUNTING COMPONENTS

The following shall be provided with each unit. 2" male receiver with centerline drilled for a 5/8" x4 1/4" hitch pin for attachment to the vehicle. Mount shall provide a working height and a transport height by utilization of two 1/2" x 4 1/4" hitch pins. Receiver shall fit against the adjustable height selector. Ref: EQN-1091 sheet 2

#### 3. PAINT:

All steel exterior surfaces shall be cleaned and properly prepared prior to finishing. All parts shall be powder coated orange The frame shall be painted orange in color.

#### 4. BASKET

- a. Floor of basket shall be one piece of aluminum diamond plating.
- b. All aluminum materials shall utilize 6061 material
- c. Within the basket there shall be a step placed at 12" in height from the floor for access to the bed of the host vehicle.
- d. Railing shall be constructed of 1 1/2 inch by 1 1/2 inch by 1/8inch steel square tubing. All exposed tube ends shall be capped / filled in as to not allow any pinch points. Drain holes shall be drilled in each railing to prevent freezing and breaking.
- e. Railing height shall be approx. 34" in height from floor of the platform.
- f. Sides (2) of unit shall have non-adjustable, non-removable retainment bars. Bars shall be 22 1/4" in length providing an unobstructed width for access and egress from the platform of 16 1/2" minimum. Height from the bar to the platform floor shall be the top rail height at 40"  
Reference EQN 1091, Sheet 1

#### 5. LABELS:

- a. Each unit shall have a metal label or non-removable decal affixed to the unit containing the manufacturer's name, date of manufacture, weight capacity and serial number.
- b. Each unit shall have an aluminum plate, welded in clear view to attach the following labels. R
  1. Max Weight Capacity 315 lbs.
  2. Maximum Speed Limit 10 MPH when Occupied. One additional label shall be supplied with each unit to be installed in the cab of truck.
  3. 1300 lb. max tow/200 lbs. max tongue weight

## SPECIFICATIONS

I. GENERAL EQUIPMENT SPECIFICATIONS: (Continued)

B. COMPONENTS: (Continued)

6. LIGHTING:

All lights shall be LED.

Connection shall be made with the trucks electrical system via a 7-way RV blade style Pollack Connector with a cable guard. Ref: EQN-80B

The platform shall include ICC bar lighting located along the platform floor level. Clearance lights and reflectors on each side, amber at front and red at rear shall also be placed along the platform floor level. Conspicuity tape and reflectors shall be installed following the same established standards as lighting

The platform shall also include brake lights, taillights, turns signals and four way flashers by use of (four total) Whelen STT light Whelen part# 40BTT. Two lights shall be flush mounted on an enclosure in the upper corners of the hand railing and two on either side along the platform floor, horizontal to the ICC lights. Upper enclosures shall fully house the wiring and back of lights, sealing all areas to prevent water from entering. Flush grommet mounted recessed mounting of the lights is acceptable. Two ¼" in holes shall be drilled at the lowest point of the enclosure to allow any water that does enter to self-drain. Lights shall work in conjunction with the truck STT lights. Ref: EQN 1091 sheet 1 of 4

Two Hazard warning lights (Whelen Part # TLIMAD) shall also be placed in the upper corners of the platform hand railings in the same enclosure. Flashing warning lights shall be flush grommet mounted towards upper corners of the platform. Lights shall be powered in conjunction with the parking lights and utilize their own switch mounted on the hand railing. Switch should be in its own water tight enclosure so as to prevent corrosion. Enclosure shall have a drain hole in the lowest point to allow water to self-drain if water does penetrate the enclosure.

Conspicuity tape and reflectors shall be installed following the same established standards as lighting.

In the case of wiring protruding through the platform, it shall be protected by a rubber grommet.

All electrical connections shall be protected with dielectric grease.

All electrical connections shall be sealed.

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II. DRAWINGS:

EQN-80B	dated	8/17/22	sheet 1 RV 7 WAY LIGHT CONNECTOR
EQN-1091	dated	6/22/22	sheets 1,2,3,4 HITCH MOUNTED SAFETY BASKET

The above referenced drawings shall become part of these specifications. These drawings reflect the intent of the Department and any discrepancies shall be resolved at the meeting between the vendor and the Equipment Chief, or the pre-production inspection of the unit.

III. WARRANTY:

The vendor shall repair or replace, free of charge within one (1) year from date of acceptance, any platform which in the judgment of the manufacturer has failed because of defective material or workmanship, provided it is shown to be properly mounted, and not subject to abuse in operation or assembly.