

## UNDERPASS LUMINAIRE 100W HPS

### I. Quantity

The base bid shall include the indicated number of underpass luminaires to be installed as hereinafter specified at the locations shown on the drawings and located in the field by the engineer.

### II. Material

- a. Luminaire - The luminaire housing and lens shall be one piece molded polycarbonate material with prismatic design for directional light output. Housing and lens shall be hinged and secured to water tight aluminum body.

The luminaire body shall be precision die-cast corrosion resistant aluminum, providing mounting for all electrical components.

The luminaire finish shall be bronze, internally applied to polycarbonate housing and externally applied to aluminum body and the reflector shall be of textured anodized aluminum.

The lamp socket shall be of high temperature, flame-retardant thermoset material with self-wiping silver plated copper alloy contacts and the lamp support shall be spring wire type for positive lamp retention.

The gasket shall be closed cell neoprene rubber, providing weather tight seal between housing and body.

The ballast shall be suitable for high and low ambient temperature operation, integrally mounted within separate compartment with removable cover for wiring and maintenance. The Ballast shall be Suitable for operating 100w hps High Pressure Sodium Lamp and shall be rated reactor (480v) type.

The luminaire shall provide two (one top and one side) surface wire conduit entry holes tapped 1/2" NPS, 3-5/16" knockouts for wall fasteners and knockouts for mounting to standard recessed boxes for thru wall wiring. The entire unit shall be prewired and ready for installation and shall be supplied complete with a 100w HPS lamp.

The luminaire shall be an approved equal in appearance, quality and design, to American Electric, Cooper or approved equal.

- b. Mounting Hardware - Banding material shall be stainless steel. Anchor bolts shall be expanding type of appropriate size.
- c. Wire - Wire shall be #10 AWG stranded copper Type THW 600 Volt.
- d. Y Connector Kit Fused - The Fused connector kit shall have a 3 amp current limiting type fuse.
- f. Conduit - The conduit shall be 1/2" galvanized.
- g. Conduit Fittings - All fittings shall be galvanized.

### III. Installation

The luminaire shall be attached to the structure by banding or drilling as instructed by the engineer. The use of a stud gun shall NOT be permitted.

### IV. Payment

The underpass luminaire hereinbefore specified shall be quoted as a unit price each in the appropriate place of this document.