

ALUMINUM POLE WITH ANCHOR BASE AND 6' BRACKET

I. Quantity

The base bid shall include the quantity indicated of aluminum poles furnished and erected as hereinafter specified and located as shown on the drawings.

II. Material

The aluminum poles shall be as follows:

The street light pole shall consist of a round, tapered, spun aluminum shaft having a base welded to the lower end and complete with bolts, and single arm (6' bracket as specified) without scroll and with pole top. The complete unit shall be designed for wind loading of at least 101 M.P.H.

The shaft shall have no longitudinal or circumferential welds except at the lower end joining the shaft to the base and shall be 8" x 4.5" x 28' and be 6063 Alloy T-6 with minimum wall thickness .188".

An opening shall be furnished near the top of the shaft to provide a cable entrance from the shaft into the bracket arm. A special cast adapter shall be welded into this opening, providing a smooth cable guide for wiring and a support for the attaching plate which is welded to the bracket arm. The top of the shaft shall be equipped with a cast aluminum removable pole top held securely in place by means of set screws.

The bracket arm assembly shall consist of a tapered aluminum arm, ovaliptic in shape at the pole end and tapering to a 2" O.D. at the luminaire end.

The pole shall have a 4" x 6" handhole located opposite the bracket, with an oval cast aluminum tamper resistant cover. The handhole shall be 18" from the base of the pole. A grounding lug with 3/8" hole shall be provided for grounding opposite the handhole.

Each base shall be provided with four (4) loose bearing plates and nuts to fasten the base down to the anchor bolts. All bearing plates shall be hot dipped galvanized.

Four (4) high-strength, hot dipped galvanized, steel anchor bolts, each fitted with a hex nut, shall be furnished with the poles. Each anchor bolt shall have an "L" bend at the bottom end and be threaded at the top end. Threaded ends and all nuts shall be galvanized. Anchor bolts shall be capable of resisting at yield strength stress and bending movement of the shaft at its yield strength stress.

All hardware (bolts, nuts and washers - but not including anchor bolts) not otherwise specifically designated in this specification, shall be aluminum or stainless steel (at the option of the supplier).

All materials shall be furnished in natural aluminum color. Pole shafts shall be furnished with polished surface.

Shaft and bracket arm assembly shall be tire-wrapped with a heavy water resistant paper for protection during shipment and installation.

The complete pole shall be an approved equal in design, quality and performance to Hapco Company 21-585 (6' bracket).

III. Installation

The poles and bases shall be set on the foundations securely anchored to the anchor rods so that the hand hole is at right angles to the curb. Bases shall be properly plumbed by means of shims.

IV. Quotation

The aluminum poles furnished and erected as hereinbefore specified shall be quoted on as a unit price each in the appropriate place of this document.