

SECTION 02761**ALUMINUM LIGHTING STANDARDS****02761.01 GENERAL****A. Description**

Aluminum lighting standards shall include, but not necessarily be limited to, furnishing and installing low level aluminum lighting poles, bracket arms, and reinforced concrete foundations as shown and detailed on the Plans and in accordance with the Contract Documents or as directed by the Engineer.

B. Related Work Included Elsewhere

1. Concrete foundations; Section 02734.
2. Electrical conduit and fittings; Section 02731.
3. Luminaries; Section 02762.
4. Steel Lighting Standards; Section 02760.

C. Quality Assurance

The Engineer will inspect all materials and work to ensure compliance with the Contract Documents.

D. Submittals

Shop drawings shall be submitted as specified in the "General Provisions" for all aluminum lighting standards. The shop drawings shall show the overall dimensions of the poles, details of construction, and bolt circle data.

02761.02 MATERIALS**A. Materials Furnished by the County**

The County will not furnish any materials for aluminum lighting standards.

B. Contractor's Options

Not applicable.

C. Detailed Material Requirements

1. Aluminum Castings

Aluminum castings shall meet the requirements of ASTM B 26 or ASTM B 108, Alloy ANSI 356.0 T6.

2. Stainless Steel Hardware

Stainless steel hardware shall meet the requirements of ASTM A 167, Type 302.

3. Aluminum Shaft and Bracket Arm

Aluminum shaft and bracket arm shall be spun from one piece of extruded tubing meeting the requirements of ASTM B 241, 6000 series alloy. The shaft and bracket shall be cold worked from the specified taper.

4. Anchor Base Plate

Anchor base plate shall meet the requirements of ASTM B 209, 6000 series alloy.

5. Lighting Poles and Bracket Arms

Lighting poles and bracket arms shall meet the requirements of Section 02760.02.

6. Conduit

Conduit shall meet the requirements of Section 02731.

02761.03 EXECUTION**A. General**

All welding shall be metallic-arc-consumable-electrode-inert-gas-shielded-process. After welding, the entire assembly shall be precipitation heat treated to the T 6 temper by any approved method and rotary sand finished.

B. Installation

Lighting standards shall be installed as detailed on the Plans.

02761.04 METHOD OF MEASUREMENT

Measurement for aluminum lighting standards with bracket arms and reinforced concrete foundations will be made on a per each assembly basis in each bracket arm length category.

02761.05 BASIS OF PAYMENT

Payment for aluminum lighting standards will be made at the price bid per each assembly for the various bracket arm lengths specified, complete in place. The price bid shall include furnishing all materials, labor, and equipment; reinforced concrete foundations including excavation, backfill, and conduit elbow; and incidentals necessary to complete this item of work as shown and specified in strict accordance with the Contract Documents.

END OF SECTION