

## PART 1 – GENERAL

- 1.1 This section includes all work necessary for and incidental to the procurement and installation of lighting poles.

## PART 2- PRODUCTS

### 2.1 GENERAL

- A. Pole material shall be galvanized steel.
- B. Pole height shall be as indicated in the contract drawings.
- C. Pole shall be designed for a 100-mph wind speed minimum.
- D. Light fixtures shall be Phillips Lumec as described on the light fixture schedule or approved equal.

### 2.2 HIGH MAST LIGHTING

- A. Pole shall be Millerbernd High Mast Lighting or approved equal. Approved equal will be TxDOT approved manufacturer and subject to Owner approval.
- B. Pole shall be furnished with a lowerable lighting ring assembly providing four luminaries.
- C. Pole shall be furnished with an internal motorized winch for lowering and raising the lighting ring assembly.
- D. Lowering system shall be bottom latching i.e. not top latching.
- E. Lowering system shall provide two, independent stainless-steel lowering cables, each with an associated stainless-steel winch drum.
- F. Lowering system components shall be made of stainless-steel, i.e. not galvanized steel, as applicable.

### 2.3 STREET LIGHTING

- A. Pole shall Millerbernd Street Lighting, type ART (tapered) with dual pipe arms or approved equal. Approved equal will be TxDOT approved manufacturer and subject to Owner approval.

### 2.4 LIGHTING RING ASSEMBLY

- A. Lighting ring assembly shall be furnished by a TxDOT approved manufacturer and will be subject to Owner approval.

## PART 3 - EXECUTION

- 3.1 Install pole using established industry practices and in accordance with manufacturer requirements.
- 3.2 Use established industry and manufacturer safety practices when installing pole.
- 3.3 Prevent scarring or marring of the pole. Repair galvanized surfaces damaged in assembly, transit, or installation; or for steel parts or members welded after galvanizing in accordance with manufacturer requirements.

- 3.4 Where applicable, orient pole so maintenance personnel can see into the access hole while facing oncoming traffic.

**PART 4- MEASUREMENT AND PAYMENT**

4.1 MEASUREMENT

- A. Measurement shall be made in accordance with the unit(s) shown for each Lighting Pole item identified on the Bid Schedule.

4.2 PAYMENT

- A. Payment shall be made upon completion of each Lighting Pole item identified on the Bid Schedule and acceptance by the Owner. Payment shall be full compensation for furnishing, installing, aiming and testing all rings, ring support assemblies, lighting units, drivers, LED modules, hoisting assemblies, power drive assemblies, transformers, electrical equipment, electrical cord, junction boxes and enclosures; and all materials, labor, tools, equipment and incidentals necessary to complete the work.

**- END OF SECTION -**