1. Provide anchor bolts for the T-base, concrete traffic barrier base, and bridge mount roadway illumination poles, in accordance with the specifications provided by DMS-11040. Breakaway fuse holders are listed on the MPL for Roadway Illumination and Electrical Supplies.

2. The locations of poles and fixtures may be shifted by the Engineer to accommodate local conditions. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TxDOT standards and specifications, and National Electrical Manufacturers Association (NEMA) Design Specifications for outdoor luminaire bases.

3. Provide new and unused materials. Ensure that all materials and installations comply with the applicable articles of the National Electrical Code (NEC), TxDOT standards and specifications, and National Electrical Manufacturers Association (NEMA) Design Specifications for outdoor luminaire bases.

4. The Engineer shall have approval of all drawings. Include on manufacturer's shop drawings the ASTM designations for all materials to be used.

5. All necessary construction drawings shall be submitted to the Engineer. For the submission of drawings, refer to the Shop Drawing Submittal" on the TxDOT web site.

6. For both transformer and pole-base type illumination poles, provide the manufacturer's shop drawings and the ASTM designations for all materials to be used. Ensure that no high point of contact occurs between the straight sides of the T-base and the foundation.

7. Tighten anchor bolts for the T-base, concrete traffic barrier base, and bridge mount roadway illumination poles, in accordance with the specifications provided by DMS-11040. Breakaway fuse holders are listed on the MPL for Roadway Illumination and Electrical Supplies.

8. Erect pole over T-base with crane. Coat bolts, nuts, washers, and lock washers with electrically conductive lubricant. Use pre-qualified two-pole breakaway connectors for all pole-base connections. Use 1/2 in.-13 UNC threaded, copper or tin-plated copper, heat, or mount driver to side of the enclosure or to the enclosure on 1 5/8" strut or other standoff to dissipate heat.

9. Orient luminaires perpendicular to the roadway intended to be lit unless otherwise shown on the plans. Provide and install underpass luminaires in accordance with Item 610, DMS-11010, and TxDOT standard sheet RID(2).

10. Use LED drivers in remote outdoor enclosures for drivers that do not include an enclosure as part of a factory assembly. Provide drivers with documentation of 100,000 hr lifetime. For multiple drivers in an enclosure, provide at least 4 inches side to side and 1 inch end to end from other drivers or electronic equipment.

11. Install 1/2" connecting washers from the inside of the T-base, thread through the pole-base, install flat washers, lock washers and nuts snug tight according to Item 441. Structural Bolting.

12. Orient luminaires perpendicular to the roadway intended to be lit unless otherwise shown on the plans.