GENERAL NOTES:

1. Design Criteria: Poles shall be designed in accordance with the 2001 AASHTO Standard Specifications For Structural Supports For Highway Signs, Luminaires And Traffic Signals.

   The structure shall not exceed 1" deflection in a 30 mph (6.121 m/s) wind.

All coatings and foundation designs shall be based on site soil boring data, and submitted to the Engineer for review and approval. All designs, drawings, and calculations submitted must be signed and sealed by a Professional Engineer licensed in the State of Florida.

2. Pole Shaft: The pole shaft shall be round or 16 sided with a 4" corner radius, have a constant linear taper of 0.14 in/ft and contain only one longitudinal seam weld for the pole. Cylindrical welded tube butt splices and laminated tubes are not permitted. Longitudinal seam welds within 6" of complete penetration pole to base plate welds shall be complete penetration welds.

3. Handholes: See Detail.

4. Cable Supports: Electrical Cable Guides and Eyebolts: Top and bottom electrical cable guides shall be located within the pole aligned with each other. One cable guide shall be positioned 2¼" below the handhole and the other shall be positioned 1¼" directly below the top of the tenon. An eyebolt shall be positioned 2½" below the top of the handhole.

5. CCTV Structure shall be as follows:

   • Poles: ASTM A595 Grade A
   • Steel Plates & Cap: ASTM A709 Grade 36
   • Weld Metal: E70XX
   • Bolts (Except Anchor Bolts): ASTM A325 Type 1
   • Anchor Bolts: ASTM F1554 Grade 55 (6 Min.)
   • Nuts For Anchor Bolts: ASTM A563 Grade A Heavy Mix
   • Washers For Anchor Bolts: ASTM F436 Type 1
   • Handhole Frame: ASTM A709 Grade 36
   • Handhole Cover: ASTM A607 Grade 50, 55, or 60
   • Stainless Steel Screws: ANSI Type 316

6. All Nuts, Bolts and Washers: ASTM A563 Class C or D

   • Depending on Size: ASTM A563

7. Reinforcing steel shall be ASTM A615-96, Grade 60.

8. Concrete foundations shall be Class IV (drilled shaft) with a minimum 28-day compressive strength of 5 ksi for all environmental classifications.

9. Grout shall have a minimum 28-day compressive strength of 5 ksi and shall meet the requirements of Sections 9.14 of the Standard Specifications. Grout armor pole is set and properly plumbed. Grout pad is optional.

10. All welding shall conform to American Welding Society Structural Welding Code (Steel ANSI/AWS D1.1, Current Edition).

11. Shop drawings must be submitted to the Engineer for review and approval. Fabrication shall not begin until shop drawings are approved.

12. The foundation for the CCTV structure shall be constructed in accordance with Section 435 of the Specifications. Payment for the foundation and any other incidental items to furnish and install a complete CCTV structure shall be included in the pay item for the complete CCTV structure.

13. Except for anchor bolts, all bolt hole diameters shall be equal to the bolt diameter plus 0.25", prior to galvanizing. Hole diameters for anchor bolts shall not exceed the bolt diameter plus 0.25".

14. When the structure is fully plumb, the concrete shall not be used until the foundation concrete has been allowed to cure for a minimum of seven days.

LOWERING DEVICE NOTES:

1. Pole Top Tenon: A tenon shall be bolted to the pole top with mounting holes and slot as required for the mounting of the lowering device. The tenon shall be of dimensions necessary to facilitate lowering device component installation. Each slot shall be parallel to the pole centerline for mounting the lowering device.

2. All cables shall be secured in a manner that prevents them from interfering with or being damaged by the lowering cable that moves within the pole.

3. Lowering arm shall be mounted perpendicular to the roadway or as directed by the Engineer. The CCTV pole shall be positioned so that the camera can be safely lowered without requiring lane closures.

4. Pole shall include lowering device which includes top J-box, mounting hardware, lowering cable, contact block, waterproof electrical connectors, camera J-box, housing and steel pole.