FOUNDATION NOTES:
1. Concrete: Class IV (Drilled Shaft) with a minimum 4,000 psi compressive strength at 28 days for all environment classifications.
2. Reinforcing Steel: ASTM A615 Grade 60
3. Anchor Bolts: ASTM F1554 Grade 5 with ASTM A563 Grade 5 heavy-duty nuts and plate washers. ASTM F2329 galvanization.
4. Install Anchor Bolts in accordance with Section 649-5 of the Specifications.
5. Foundation applies to slopes 1:4 or flatter.
6. The foundation for the CCTV structure shall be constructed in accordance with Section 455 of the Specifications except that no payment for the foundation shall be made under Section 455.

INSTALLATION NOTES:
1. Cable Supports: Electrical Cable Guides and Eyebolts.
   a. Locate top and bottom cable guides within the pole aligned with each other.
   b. Position one cable guide 2" below the handhole.
   c. Position other cable guide 1" directly below the top of the tenon.
   d. Position Park Stands 2" below the top of the handhole.
2. Lowering Device Installation Notes:
   a. Place the lowering cable that moves within the pole in an interior conduit to prevent it from tangling or interfering with other connections or conduit in the pole. Ensure that any electrical wire within the pole is routed securely and free from slack.
   b. Mount lowering arm perpendicular to the roadway or as shown in the plans. Position CCTV pole so that the camera can be safely lowered without requiring cage closures.
   c. Coordinate all lowering device hardware requirements (including Tenon, Tenon mounting plates, parking stands, etc.) with lowering device manufacturer.
3. Pole Installation Notes:
   a. Install pole plumb.
   b. The pole shall not be erected until the foundation concrete has achieved 70% of the minimum specified 28 day compressive strength.
4. Refer to Index No. 18108 for conduit and cabinet mounting details.

POLE NOTES:
1. The pole shaft shall be round or 16 sided or more with a constant taper of 0.14 inches per foot.
2. Pole shaft may be either One or Two sections (with telescopic field splice).
3. Use only circumferential welds at base.
4. Up to two longitudinal seam welds are permitted.
5. Longitudinal seam welds within 4" of circumferential welds shall be complete penetration welds. Longitudinal seam welds on female section of telescopic field splices shall be complete penetration welds for the splice length plus 6 inches. All other areas, size the partial penetration welds to at least 60% of the pole tube thickness.
7. Identification Tag: Furnish each pole with a 24" aluminum identification tag, secured to pole with stainless steel screws. Locate inside pole and visible from handhole. Provide Financial Project ID, pole height, manufacturer’s name, yield strength (Fy) of steel and pole base wall thickness.
8. Fixed for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/2", prior to galvanizing. Hole diameters for anchor bolts shall not exceed the bolt diameter plus 1/8".
9. This Design Standard is considered fully detailed and no shop drawings are necessary. Submit Shop Drawings for minor modifications not detailed in the plans.
10. Pole Material Specifications:
   a. Pole:
      - ASTM A1011 Grade 50, 55, 60 or 65 (less than 1/4") or ASTM A572 Grade 50, 60 or 65 (greater than or equal to 1/4") or ASTM A995 Grade A (15 ksi) yield or Grade B (16 ksi) yield.
   b. Steel Plates and Pole Cap:
      - ASTM A36 or ASTM A109 Grade 50.
   c. Weld Metal:
      - E70XX.
   d. Bolts: ASTM A325, Type 1.
      - Nuts: ASTM A563
      - Washers: ASTM F-436.
   e. Handhole frame: ASTM A19 Grade 36 or ASTM A36.
   f. Handhole cover:
      - ASTM A1011 Grade 50, 55, 60 or 65.
   g. Stainless steel screws: AISI Type 316.
   h. Galvanization:
      - Nuts, bolts and washers: ASTM F2329.
      - All other steel: ASTM A123.
11. Additional wire access holes not shown in this Design Standard shall not exceed 1/2" in diameter.
12. Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. Where CSL access tube locations conflict with anchor bolt locations, move the CSL access tube location a few inches along the inner circumference of the reinforcing cage. Notify the Engineer before excavating the shaft if the CSL access tube locations cannot be moved out of conflict with anchor bolt locations.

GENERAL NOTES

INDEX NO. 18111

STEEL CCTV POLE

REV. 07/01/13

DESCRIPTION

07/01/13

REV.

1

FDOT 2014

DESIGN STANDARDS

1 of 4
**POLE TOP PLATE DETAIL**

- **TOP PLATE**
  - 1" Ø Hole
  - 1/2" Ø Hole

- **EYE BOLT OPTION**
  - 1/2" Ø Eye Bolt
  - Wall Thickness

- **ROD OPTION**
  - 1/2" Ø Rod
  - 1/2" Inner Ø

**HANDHOLE DETAIL**

- **Wall Thickness**
- **1/2" Hole**
- **1/2" Rod with 1" Inner Ø**

**POLE CAP PLATE**

- **POLE WITHOUT LOWERING DEVICE**
- **POLE WITH LOWERING DEVICE**

**POLE TENON ASSEMBLY DETAIL**

- **EYE BOLT OPTION**
- **ROD OPTION**
- **POLE CAP PLATE**

**POLE DETAILS**

- **POLE TOP PLATE DETAIL**

**SECTION E-E**

- **POLE DETAILS**

**SECTION F-F**

- **POLE CAP PLATE**

**HANDHOLE DETAIL**

- **Wall Thickness**
- **1/2" Hole**

**ROD OPTION**

- **1/2" Rod with 1" Inner Ø**

**EYE BOLT OPTION**

- **1/2" Ø Eye Bolt**
- **Wall Thickness**

**CABLE GUIDE DETAIL**

- **POLE (or Tenon) Wall**
- **Internal Shaft Wall**

- **PARK STAND DETAIL**

- **DIAMETER**
- **HEIGHT**

- **TIP Diameter**

**POLE TENON ASSEMBLY DETAIL**

- **ASSEMBLY**
- **NOTE**

- **INSTALLATION**

**PHOTO**

- **DESCRIPTION**
- **INDEX NO.**
- **SHEET NO.**