FOUNDATION NOTES:

1. Concrete Class IV (Drilled Shaft) with a minimum 6,000 psi compressive strength at 28 days for all environment classifications.
2. Reinforcing Steel: ASTM A615 Grade 60.
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:

3. 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.
4. Lowering Device Installation Notes:
   a. 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 lane closures.
   b. Coordinate all lowering device hardware requirements (including Tenon, Tenon mounting plates, parking stands, etc.) with lowering device manufacturer.
   c. Install pole plumb. Ensure that any electrical wire within the pole is routed securely and free from slack.
5. Pole Installation Notes:
   a. Locate top and bottom cable guides within the pole aligned with each other.
   b. Position pole plumb. 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 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 6" 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 six inches. All other areas, size the partial penetration welds to at least 80% of the pole tube thickness.
7. Identification tag: Furnish each pole with a 2½" (max.) aluminum identification tag, secured to pole with stainless steel screws. Provide Financial Project ID, pole height, manufacturer's name, yield strength (Fy of steel) and pole base wall thickness.
8. Except for Anchor Bolts, all bolt hole diameters shall be equal to the bolt diameter plus 1/16", prior to galvanizing. Hole diameters for anchor bolts shall not exceed the bolt diameter plus 1/16".
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, 60 or 65 (less than 1/4") or ASTM A572 Grade 50, 60 or 65 (greater than or equal to 1/4") or ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield).
   b. Steel Plates and Pole Cap: ASTM A36 or ASTM A709 Grade 50.
   c. Weld Metal: E70XX.
   d. Bolts: ASTM A325, Type 1.
   e. Nuts: ASTM A563.
   f. Washers: ASTM F-436.
   g. Handhole frame: ASTM A709 Grade 36 or ASTM A36.
   h. Handhole cover: ASTM A1011 Grade 50, 55, 60 or 65.
   i. Stainless steel screws: A55 Type 316.
   j. Galvanization:
      - Nuts, bolts and washers: ASTM F2329.
      - All other steel: ASTM A325.
11. Additional wire access holes not shown in this Design Standard shall not exceed 1/4" in diameter.
12. Verify CSL access tubes will not interfere with anchor bolt installation before excavating the shaft. When CSL access tube locations conflict with anchor bolt locations, move the CSL access tube locations to avoid conflict. Communicate the new 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

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DETAILED DESIGN

DESIGN STANDARDS

2016
STEEL CCTV POLE

LAST REVISED: 07/01/13

REVISION DESCRIPTION:

FOOT
POLE DETAILS

STEEL CCTV POLE

2016 DESIGN STANDARDS

INDEX NO. 18111

Sheet NO. 4 of 4

REVISION NO.

DESCRIPTION:

REV ISIO N

NO. 07/01/13

Note: Install all handhole and opening covers prior to shipping. For Poles with Lowering Device, install Pole Cap Plate when Tenon Assembly is not installed.