WITH LOWERING DEVICE

TENON DETAIL

- Tenon Bolted To Pole
- So The Rectangular Openings Are 90° From The Handhole Boxes
- Plug Top Of Pole With Concrete
  - A Minimum Depth of 3"

- 1" Lifting Hole

- Galv. Steel Handhole Box & Coverplate
- 2 - 2" Couplings With Caps
  - @ 180° To Handhole Box

- 1/2" Insert In Ctr. At Bottom Of Handhole Box - Pullout Strength 300 lbs.
- 1/2" Grd. Lug Grounded To Rein. Cage
- 2 - 3" X 12" Conduit Entry Holes
- Class NS Concrete
- Plugged Butt
  - 1/2" Drain Hole

WITHOUT LOWERING DEVICE

- 1" Lifting Hole

- Galv. Steel Handhole Box & Coverplate
- 2 - 2" Couplings With Caps
  - @ 180° To Handhole Box

- 1/2" Insert In Ctr. At Bottom Of Handhole Box - Pullout Strength 300 lbs.
- 1/2" Grd. Lug Grounded To Rein. Cage
- 2 - 3" X 12" Conduit Entry Holes
- Class NS Concrete
- Plugged Butt
  - 1/2" Drain Hole

Not To Scale

CONCRETE CCTV POLE
**DESIGN NOTES:**


Manufacturers seeking approval for inclusion on the Qualified Products List must submit a QPL Product Evaluation Application along with design documentation and drawings showing the product meets all specified requirements of this standard.

Place prestressing symmetrically about both axis.

Use Class V Special Concrete or Class VI Concrete with 4 ksi minimum strength of transfer.

Use A615 Grade 60 reinforcing steel. Provide a minimum of non-prestressed reinforcement equal to 0.33% of the concrete area.

Use A416 Grade 270 stress relieved or low-lax prestressing strands.

One turn required for spiral splices and two turns required at the top and bottom of poles. Manufacture spirals from cold-drawn ASTM A82 steel wire.

Identify poles as to manufacturer, length, QPL qualification number by inset numerals 1" in height inscribed on the same face of the pole as the handhole and ground wire.

Provide a Class 3 surface finish.

Provide a 1" minimum cover.

Foundation design based upon the following soil criteria:

- Classification = Cohesionless (Fine Sand)
- Friction Angle = 30 Degrees (30°)
- Unit Weight = 60 lbs./cu. ft. (assumed saturated)

Only in cases where the designer considers the soil types at the specific site location to be of lesser strength properties should an analysis be required. Auger borings, SPT borings or CPT soundings may be utilized as needed to verify the assumed soil properties, and at relatively uniform sites, a single boring or sounding may cover several foundations. Furthermore, borings in the area that were performed for other purposes may be used to confirm the assumed soil properties.

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**LOWERING DEVICE INSTALLATION NOTES:**

Place all electrical wire in interior conduit to prevent them from interfering with or being damaged by the lowering cable that moves within the pole.

Mount lowering arm perpendicular to the roadway or as shown in the plans. Position the CCTV pole so that the camera can be safely lowered without requiring lane closures.

Include a lowering device (including top J-box), mounting hardware, lowering cable, contact block, waterproof electrical connectors, camera J-box and housing.

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**SPECIFICATIONS:**

| Pole Top: | 85/8 Dia. |
| Pole Butt: | (0.2 x 1') + 8 1/4" |
| Pole Taper: | 0.2 in./ft. nominal |
| Defl. Spc: | 1" max. in 40 mph wind (3 second gust) |
| Max. Camera Wgt: | 560 lbs. Total |
| Max. Camera Wgt: | 240 lbs. Total |

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**TOP VIEW**

**SECTIONAL VIEW THROUGH TOP HAND HOLE BOX**

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**CONCRETE CCTV POLE**