1) Signal Structure Materials shall be as follows:
- Threaded Bars/Studs
- Stainless Steel Screws
- Nut Covers
- Caps
- Washers for Anchor Bolts
- Nuts for Anchor Bolts
- Anchor Bolts
- Bolts (except Anchor Bolts)
- Weld Metal
- Steel Plates
- Steel Set Screws
- With (3) Stainless Steel Rivets or Screws. Fabricators shall provide a QPL Product Evaluation Application along with detailed drawings of the proposed design for review and approval by the Engineer prior to fabrication.

2) Reinforcing Steel shall be ASTM A615 Grade 60 ksi or equivalent.

3) Concrete shall be Class IV (Drilled Shaft) with a minimum 28-day compressive strength of 4,000 psi for all environmental classifications.

4) All welding shall conform to American Welding Society Structural Welding Code (Steel) & ANSI/AWS D1.1 (current edition).

5) All welding shall be finished of uniform bead width and finish. Welds shall be full penetration with a maximum penetration of 0.0625 inches. Full penetration welds shall be inspected by a qualified inspector. Welds shall be free of crack indications, porosity, and excessive penetration.

6) The Pole shall be installed vertically. Camber shall be accounted for in the Mast Arm connection as detailed. The Pole shall be installed vertically. Camber shall be accounted for in the Mast Arm connection as detailed.

7) Design according to FDOT Structures Manual (current edition). Alternate Designs of partial penetration groove welds shall be inspected. Full-penetration groove weld inspection shall be performed by nondestructive methods of radiography or ultrasonic testing.

8) One hundred percent of full-penetration groove welds and a random 25 percent of partial penetration groove welds shall be inspected. Full-penetration groove welds shall be inspected by nondestructive methods of radiography or ultrasonic testing.

9) If a Mast Arm damping device is required by the Engineer, it shall be installed within eight feet of the Mast Arm tip.

10) The Pole shall be installed vertically. Camber shall be accounted for in the Mast Arm connection as detailed. The Pole shall be installed vertically. Camber shall be accounted for in the Mast Arm connection as detailed.

11) If a Mast Arm damping device is required by the Engineer, it shall be installed within eight feet of the Mast Arm tip.

12) Design according to FDOT Structures Manual (current edition). Alternate Designs of Special/Mast Arm Assemblies are not allowed. Special/Mast Arm Assemblies are not allowed. Special/Mast Arm Assemblies are not allowed.

13) Provide "U"/"S" or "O" Hook at top of pole for signal cable support.

14) First and Second Arm Camber Angle = 2°.

15) Details for Signal and Sign Locations, Signal Head attachment, Sign Attachment, Pedestrian Head Attachment, and Foundation Conduit are not shown. Details for Signal and Sign Locations, Signal Head attachment, Sign Attachment, Pedestrian Head Attachment, and Foundation Conduit are not shown. Details for Signal and Sign Locations, Signal Head attachment, Sign Attachment, Pedestrian Head Attachment, and Foundation Conduit are not shown.

16) One hundred percent of full-penetration groove welds and a random 25 percent of partial penetration groove welds shall be inspected. Full-penetration groove welds shall be inspected by nondestructive methods of radiography or ultrasonic testing. Full-penetration groove welds shall be inspected by nondestructive methods of radiography or ultrasonic testing. Full-penetration groove welds shall be inspected by nondestructive methods of radiography or ultrasonic testing.

17) Manufacturers seeking approval of a steel mast arm assembly 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 Index and Index 17743. Manufacturers seeking approval of a steel mast arm assembly 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 Index and Index 17743. Manufacturers seeking approval of a steel mast arm assembly 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 Index and Index 17743.

18) Verify CSL access tube 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 location +/- two 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. Verify CSL access tube 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 location +/- two 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. Verify CSL access tube 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 location +/- two 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.
E  Flat Washer
E  Pole Cap Plate
3⁄16" thick

\[ 2" \times 2" \]

\[ \frac{1}{2} " \] hole and

\[ \frac{3}{8} " \] Nut tack welded

to underside of bar

\[ \text{4"} \]

\[ \text{1"} \]

\[ \text{11 Gage} \]

\[ \text{Pipe Handhole Cover} \]

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'b')} \]

\[ \text{‘C’ Hook for wiring and} \]
lifting, \[ \frac{3}{8} " \] \ commercial

\[ \text{grade hot rolled bar} \]
welded to inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'b')} \]

\[ \text{‘C’ Hook for wiring and} \]
lifting, \[ \frac{3}{8} " \] \ commercial
grade hot rolled bar welded to inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'b')} \]

\[ \text{‘C’ Hook for wiring and} \]
lifting, \[ \frac{3}{8} " \] \ commercial
grade hot rolled bar welded to side of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

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inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

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inside of pole.

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inside of pole.

\[ \text{POLE TOP DETAILS} \]

\[ \text{POLE TOP CUT-AWAY} \]

\[ \text{(Option 'a')} \]

\[ \text{‘J’ Hook for wiring,} \]

\[ \frac{3}{8} " \] \ commercial grade

\[ \text{hot rolled bar welded to} \]
inside of pole.