

UPDATED

Clamps And Clevis
(See Index 17723)

Steel Strain Pole

Automatic Compression Type
Clamp (Feed Through Deadend)

LOAD (See Note #7)

Catenary Or Messenger Wire

PLAN
(Two Span Connections Shown)

Eyebolt With Nut
And Washer (Typ.)

Automatic Compression Type
Clamp (Feed Through Deadend)

LOAD (See Note #7)

Prestressed Concrete Strain Pole

Catenary Or Messenger Wire

PLAN
(Two Span Connections Shown)

Clamps And Clevis
(See Index 649-010)

Automatic Compression Type
Clamp (Feed Through Deadend)

Catenary Wire

No. 6 Bare Copper Ground Wire

Crimp Type Electrical Connector

Tapped Lug For Grounding

Varies

Locking Cable Ties Or
Lashing Wire (See Note 3)

Messenger Wire

Signal Cable

6" (Min.)

Wire Entrance (See Index 649-010)

Varies

Automatic Compression Type
Clamp (Feed Through Deadend)

Tether Wire
(If Required)

Steel Strain Pole

"S" Hook
Split Clamp

#6 Bare Copper Ground Wire

1/2" PVC Conduit
For Ground Wire

Finished Grade

Reinf. Handhole Frame And
Cover With 1/2" - 13 NC 2
Tapped Lug Inside For Ground

5/8" Ø X 20'
Grounding
Electrode
(Copperclad)

Drilled Shaft (See
Index 17723)

ELEVATION

STEEL STRAIN POLE

Eyebolt With Nut
And Washer (Typ.)

Automatic Compression Type
Clamp (Feed Through Deadend)

Catenary Wire

Varies

No. 6 Bare Copper Ground
Wire, Pigtail Min. Of 24"

Crimp Type Electrical Connector

Varies

Locking Cable Ties Or
Lashing Wire (See Note 3)

Messenger Wire

Signal Cable

6" (Min.)

Varies

Automatic Compression Type
Clamp (Feed Through Deadend)

Tether Wire
(If Required)

Prestressed Concrete Strain Pole

"S" Hook

Finished Grade

#6 Bare Copper Ground
Wire, Min. Of 4'-0" Pigtail

Class NS Concrete Foundation

5/8" Ø X 20'
Grounding
Electrode
(Copperclad)

ELEVATION

PRESTRESSED CONCRETE STRAIN POLE

Catenary Wire

APL Span Wire Mounting
Assemblies (See Note 1)

Messenger Wire

Signal Cable

1'-0" (Min.)

Locking Cable Ties
Or Lashing Wire
(See Note 3)

8" To 12" Drip
Coil Or Drip Loop

Signal Head

Louvered
Backplates
(If Required)

Tether Wire (If Required)

Drain Holes (See Note 8)

Tether Wire Clamp (If Required)

ELEVATION

SIGNAL ATTACHMENT

NOTES:

1. Use only span wire mounting assemblies listed on the APL. For specific details and requirements, see the vendor drawings on the APL.
2. With the approval of the resident engineer, the service head hole for joint use poles may be drilled by the utility company at an angle of 90° but not less than 45° to the face of the pole.
3. Lashing wire should normally be used for distances of 12' or greater.
4. Use only stainless steel hardware on all signal attachments.
5. Hole for eyebolt will require field reaming for 1" & 1 1/4" eyebolts.
6. Meet all grounding requirements of Specification 620.
7. The load face of pole is to be perpendicular to the resultant load.
8. Field Drill 2-1/4" drain holes in the bottom of the installed signals.
9. Method of framing corner Strain Poles angles 10° to 120°.

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UPDATED

LAST REVISION 11/01/17	DESCRIPTION:
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FDOT FY 2018-19 STANDARD PLANS

SIGNAL CABLE AND SPAN WIRE INSTALLATION DETAILS

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