GENERAL NOTES:

1. Work these Index drawings with the Strain Pole Schedule in the Plans.
2. Shop Drawings: This Design Standard is considered fully detailed and no shop drawings are necessary.
3. Materials:
   a. Concrete: Class V Special or Class VI
   b. Prestress Strands & Spiral Reinforcing: Specification Section 641
   c. Hand and coupler cover plates: Non-corrosive material
   d. Screws: Round headed, chrome plated
4. Fabrication:
   a. Pole Taper for pole width, strands, reinforcing and void: 0.081 in/ft per face.
   b. Concrete- Super- T minimum
   c. Spiral Reinforcing: As shown, plus one turn for splices and two turns at both the tip and butt ends of the pole.
   d. The design dimensions for Front Face (FF) and Back Face (BF) of the poles may vary transversely from the section shown by ± ¼" to assist with removal from forms. Balance addition and subtraction of the face widths to maintain section areas shown.
   e. Tie ground wires to the interior of reinforcing steel to prevent displacement during concrete operations.
   f. Cut the tip end of the prestressed strands first or simultaneously with the butt end.
   g. Provide cover plates and screws for hand hole and couplers. Attach cover plates to the poles using lead anchors or embedded threaded inserts.
   h. Provide Aluminum Identification Tags on the poles with the following information:
      a. Financial Project ID:
      b. Pole Manufacturer
      c. Standard Pole Type Number
      d. Pole Length (L)
5. Support locations are for stand release, storage, lifting and transport. Keep BF oriented downward until final erection.
6. Fork-up and support locations shown may vary within a tolerance of ±3'.
7. Two point attachment: provide an eye bolt hole for the messenger wire.
8. Tether Wire: When required, field-drill the eyebolt hole prior to installation.
One Additional Turn at End

3½" Chamfer (Typ.)

#5 Gauge Spiral Reinforcing

2½" Galv. Nipple (On Ø)

Front Face (Roadway)

One 24" Splice Allowed

Back Face

Transfer (8 strands total)

× Dormant Strand

#3 Gauge Spiral

3½" Hole (Two-Wire System Only)

Front Face (Roadway)

1½" Min. (Typ.)

3½" Hole with Cover

1½" Min. (Typ.)

Back Face

Back Face

 nurturing void:

6" Pitch

SPEN1 REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

Pole Elevations (Strands and Reinforcing Not Shown)

STRAND LEGEND

- Prestressed Strand

8.5 in. – 31 kips Before Transfer (8 strands total)

× Dormant Strand

6.5 in. (14 strands total)

One 24" Splice Allowed

Per Strand

Support Locations (Horizontal Pole)

3½" Chamfer (Typ.)

Front Face (Roadway)

1½" Min. (Typ.)

3½" Chamfer (Typ.)

FRONT FACE (ROADWAY)

#5 Gauge Spiral Reinforcing

Back Face

#5 Gauge Spiral Reinforcing

Back Face

FRONT FACE (ROADWAY)

Entry Hole

2½" Galv. Nipple with Cover

2½" Galv. Nipple (On Ø)

2½" Galv. Nipple (On Ø)

Conduit

Back Face

Front Face (Roadway)

3½" Chamfer (Typ.)

Face

Butt End (Bottom)

10% L

Pole Length Dim. L

Depth Dim. D

Pole Height Dim. H

Pole Length Dim. L

Pole Height Dim. H

Pole Elevation (For Dormant Strand Locations, See Section A-A)

STRAND LEGEND

× Dormant Strand

8.5 in. (14 strands total)

One 24" Splice Allowed

Per Strand

Support Locations (Horizontal Pole)

Pole Elevation (For Dormant Strand Locations, See Section A-A)

NOTES:

- Strands shown are continuous from Tip End to Butt End.

- Elevation view scale is exaggerated vertically for clarity.

- For final erection, tilt pole upright with single point attachment located a distance 12.5% L from the Tip End.

× Dimension may vary from 3½" to 4¾" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 4".
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)

POLE ELEVATION
(Strands and Reinforcing Not Shown)

NOTES:
- Strands shown are continuous from Tip End to Butt End.
- Elevation view scale is exaggerated vertically for clarity.
- For final erection, tilt pole upright with single point attachment located a distance 10% L from Tip End.
- Dimension may vary from 3" to 4¼" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".

STRAND LEGEND
- Prestressed Strand
  0.5 in. ~ 31 kips Before Transfer (8 strands total)
- Dormant Strand
  0.5 in. (4 strands total)
  One 24" Splice Allowed Per Strand

TIP END SECTION (TOP)
(For Dormant Strand Locations, See Section A-A)

SECTION A-A
(Typical Square Section)
**SPIRAL REINFORCING ELEVATION**

(Strands, Holes, and Fixtures Not Shown)

**POLE ELEVATION**

(Strands and Reinforcing Not Shown)

**NOTES:**

- Strands shown are continuous from Tip End to Butt End.
- Elevation view scale is exaggerated vertically for clarity.
- For final erection, tilt pole upright with single point attachment located a distance 10% L from the Tip End.
- *Dimension may vary from 3¾" to 5" to accommodate smaller radius of optional stepped (PVC) void. The void diameter shall not be less than 6½".

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**STRAIN POLE TYPE P-VIII**