
ORIGINATION FORM

Proposed Revisions to a Standard Plans Index
(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: January 18, 2022
Originator: Joshua Turley/Jose Armenteros
Phone: (850) 414-4475
Email: Joshua.turley@dot.state.fl.us

Standard Plans:

Index Number: 641-010
Sheet Number (s): All
Index Title: Concrete Poles

Summary of the changes:

All Sheets: Renumbered

Sheet 1: Change Note 3.A reference to Class V Special to Class V.
Sheet 5: Added new sheet for a new 16 ft pole version P-IID.

Commentary / Background:

SMO has proposed to remove Class V Special Concrete as an option from the Standard Specifications and therefore the Standard Plans must be updated.

Districts have requested an often used 16 ft pole configuration to be added.

Other Affected Offices / Documents: (Provide name of person contacted)

- | Yes | No | |
|-------------------------------------|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Other Standard Plans – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Basis of Estimates Manual – Ryan Gray |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Standard Specifications – Daniel Strickland |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes:

(Email or hand deliver package to Rick Jenkins)

- | Yes | N/A | |
|-------------------------------------|--------------------------|--|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Proposed Standard Plan Instruction (SPI) |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Revised SPI |
| <input type="checkbox"/> | <input type="checkbox"/> | Other Support Documents |

Implementation:

- | | |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form

Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

GENERAL NOTES:

1. Work these Index Sheets with the Strain Pole Schedule in the Plans. See Index 634-001 for corresponding signal cable and span wire installation details.

2. Shop Drawings:

This Index is considered fully detailed and no shop drawing are necessary. Submit shop drawings only for minor modifications not detailed in the Plans.

3. Materials:

- A. Concrete: Deleted *Class V Special with 4 ksi minimum strength at transfer or Class VI with 6.5 ksi minimum strength at transfer Specification 641*
- B. Prestress Strands & Spiral Reinforcing: *Specification 641*
- C. Hand and coupler cover plates: *Non-corrosive material*
- D. Screws: *Round headed, chrome plated*

4. Fabrication:

- A. Pole Total Taper shown is for pole width, strands, reinforcing and void (0.081 in/ft per face).
- B. Concrete Cover: 1" minimum.
- C. Spiral Reinforcing: Place as shown, and add 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 $\pm 1/4"$ 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 concreting operations.
- F. Cut the tip end of the prestressed strand either 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 Tag on the pole with the following information:
 - a. Financial Project ID.
 - b. Pole Manufacturer
 - c. Standard Pole Type Number
 - d. Pole Length (L)

5. Support Points:

Support Points shown may vary within a tolerance of $\pm 3"$.

Horizontal Pole Support Points shown are for strand release, storage, handling and transport of the horizontal pole. Keep Back Face oriented downward until final erection.

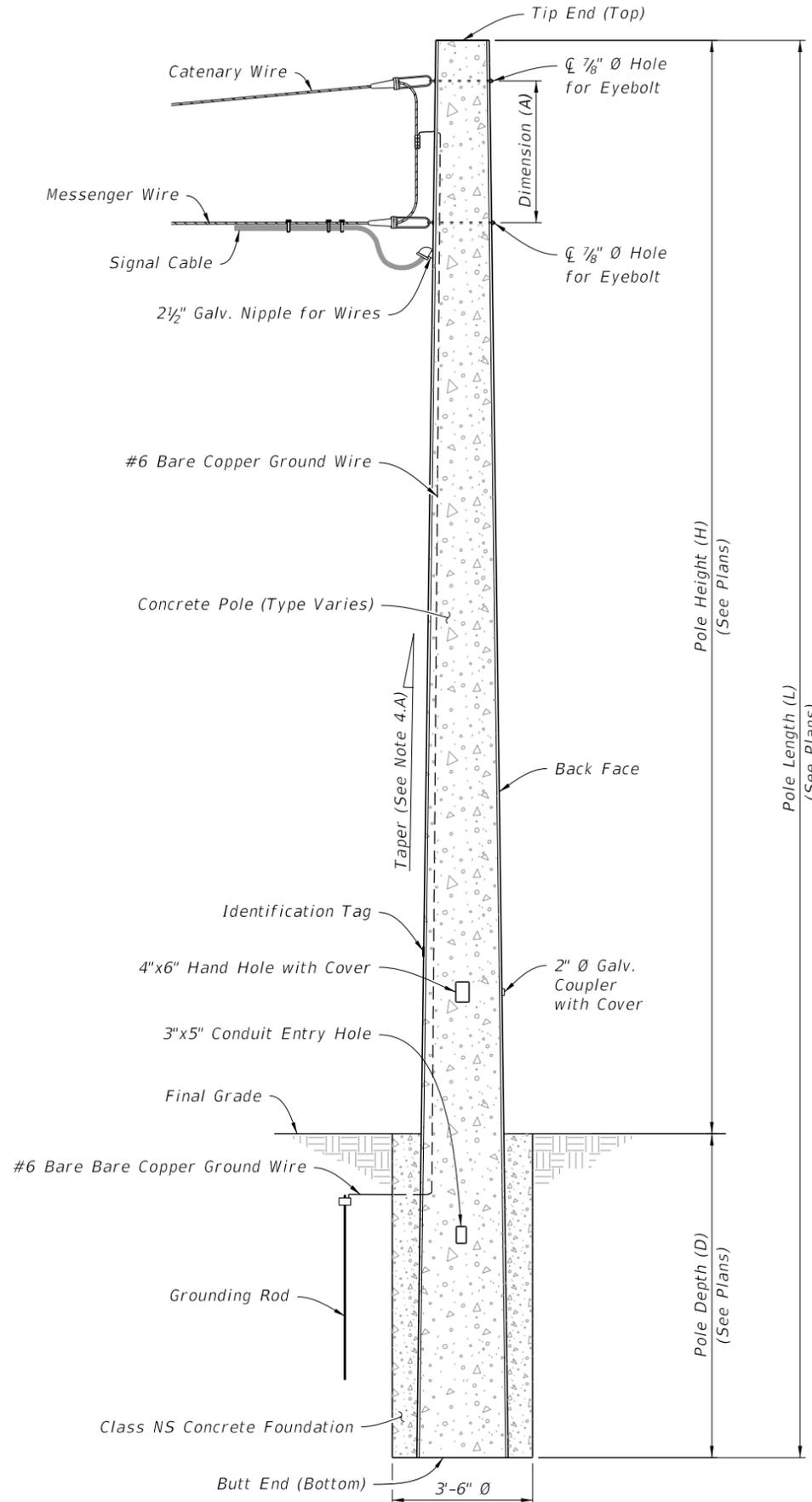
6. Two point attachment: Provide an eye bolt hole for the messenger wire.

7. Tether Wire: When required, field-drill the eyebolt hole prior to installation.

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1	General Notes and Contents
2	Service Pole - Type P-IIA (12 Ft.)
3	Service Pole - Type P-IIB (36 Ft.)
4	Pedestal Pole - Type P-IIC (12 Ft.)
5	Pole - Type P-III
6	Strain Pole - Type P-IV
7	Strain Pole - Type P-V
8	Strain Pole - Type P-VI
9	Strain Pole - Type P-VII
10	Strain Pole - Type P-VIII

UPDATED



CONCRETE POLE ASSEMBLY
(Type P-VII Shown, Others Similar)

Renumbered

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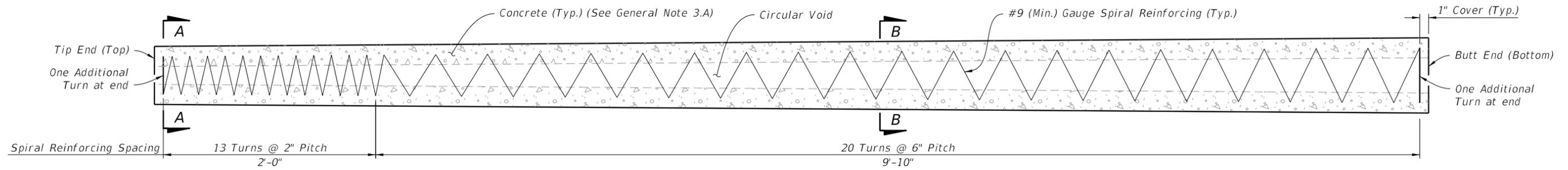


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STANDARD PLANS

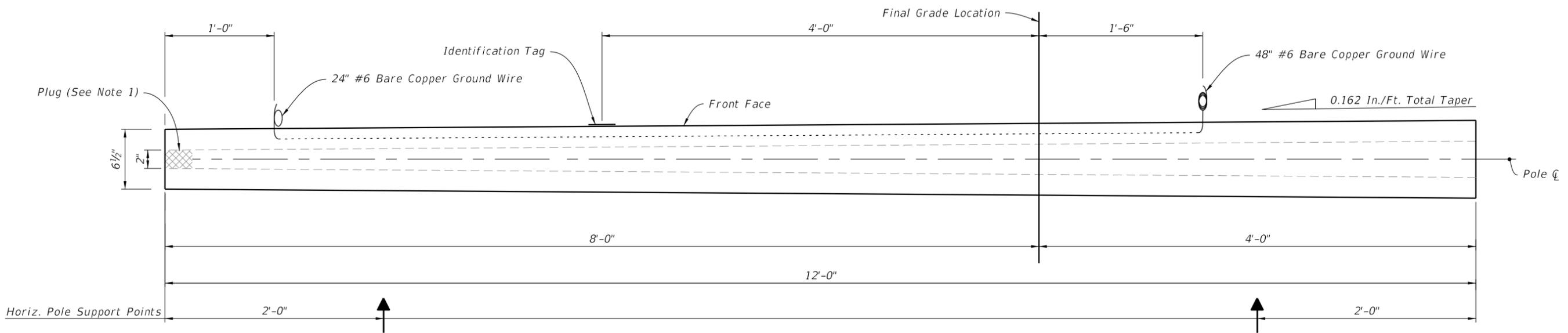
CONCRETE POLES

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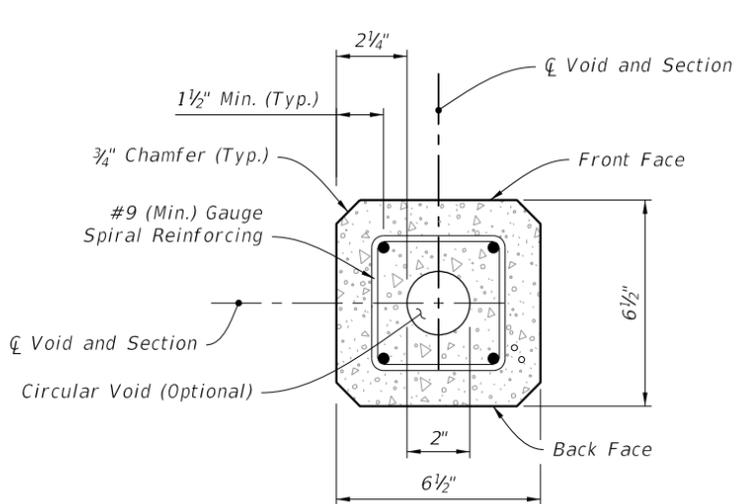
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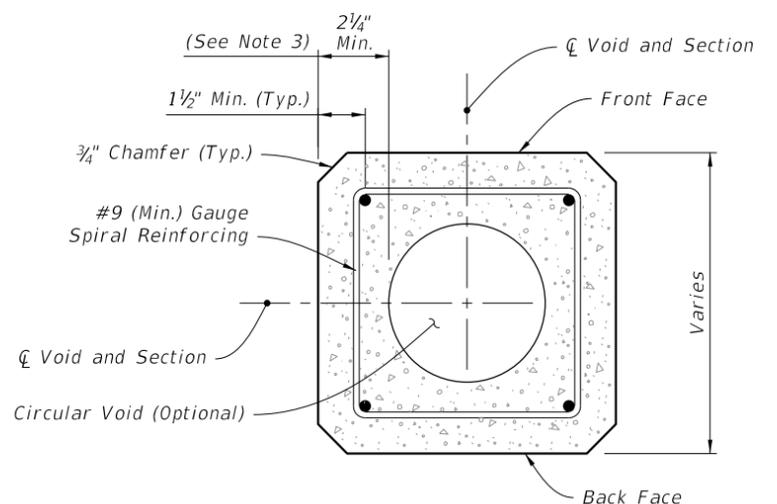
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(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A - (Tip End)



SECTION B-B (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer (4 strands total)

Renumbered

SERVICE POLE - TYPE P-IIA (12 Ft.)

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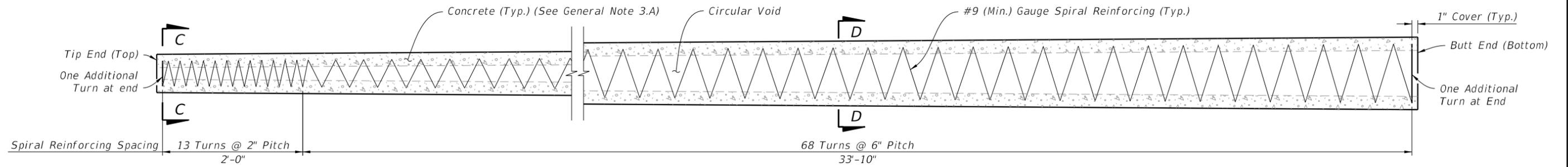


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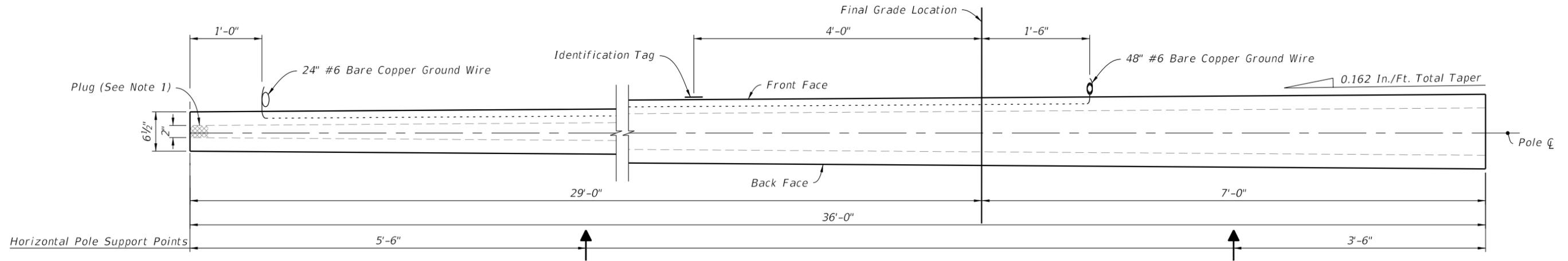
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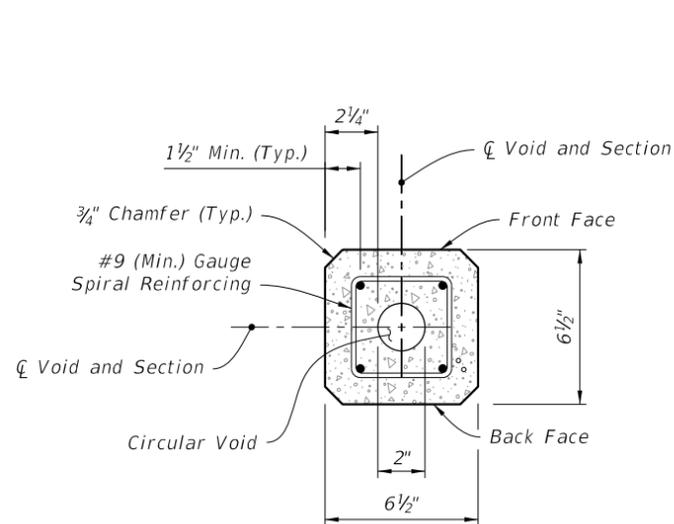
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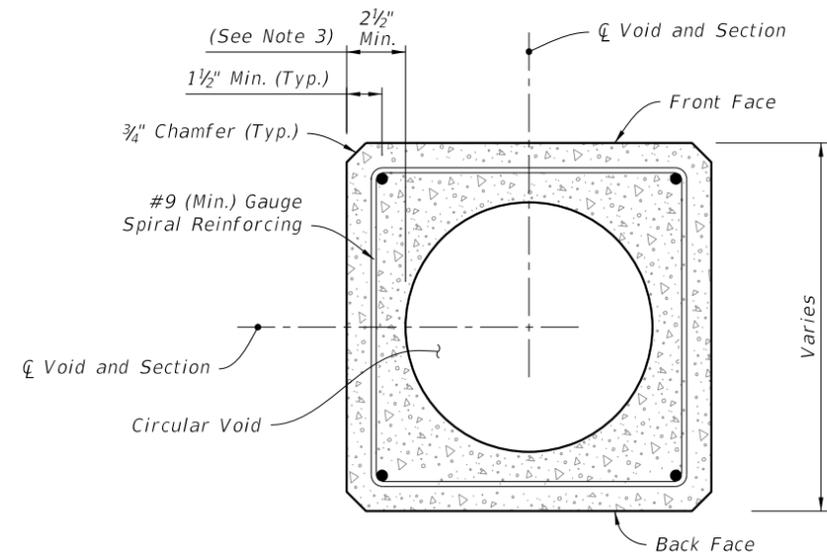
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(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION C-C (Tip End)



SECTION D-D (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

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SERVICE POLE TYPE P-IIB (36 Ft.)

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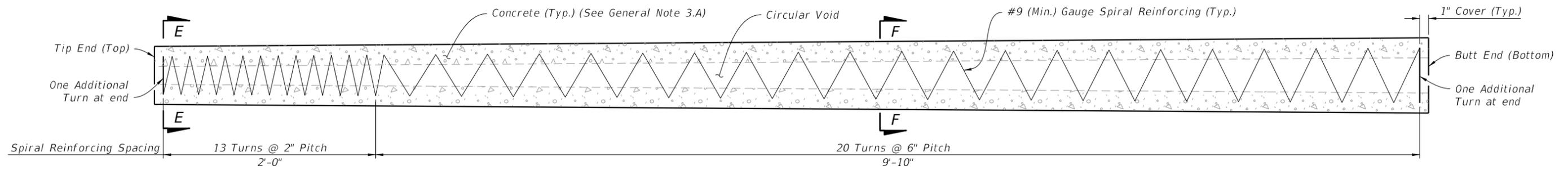


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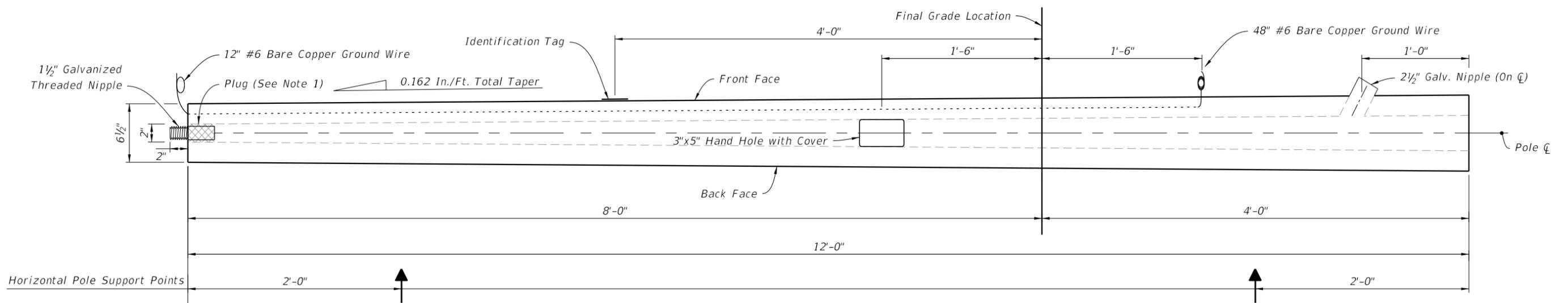
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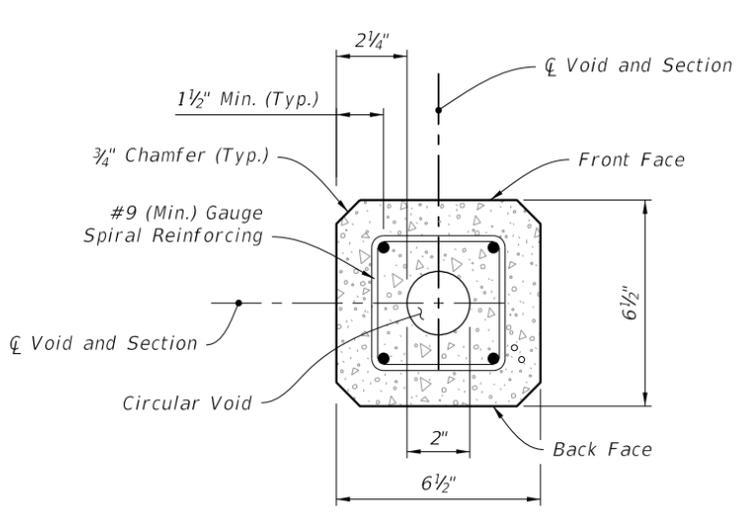
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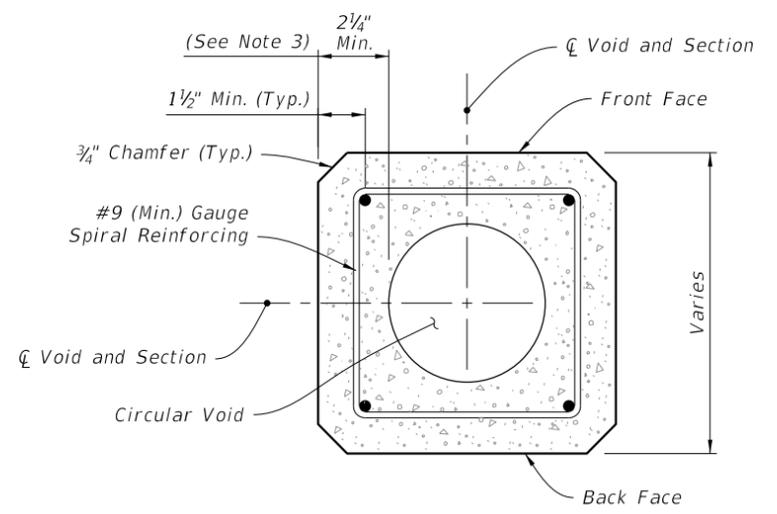
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(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION E-E (Tip End)



SECTION F-F (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

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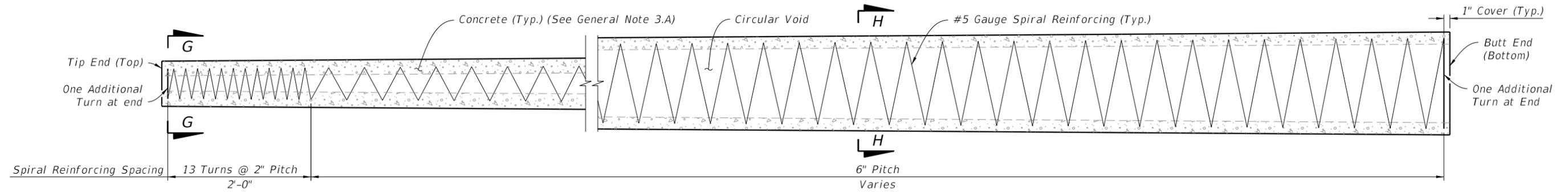

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STANDARD PLANS**

CONCRETE POLES

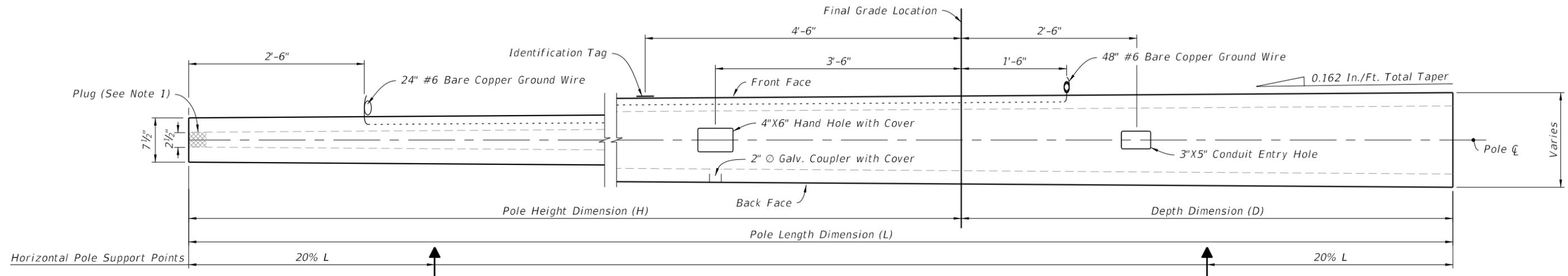
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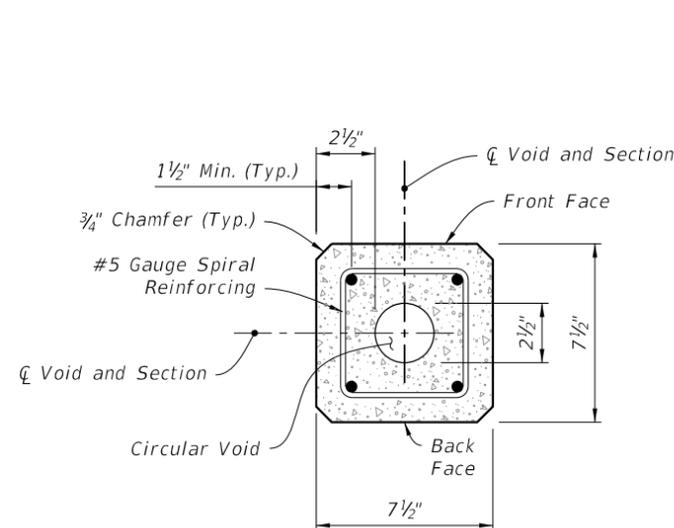
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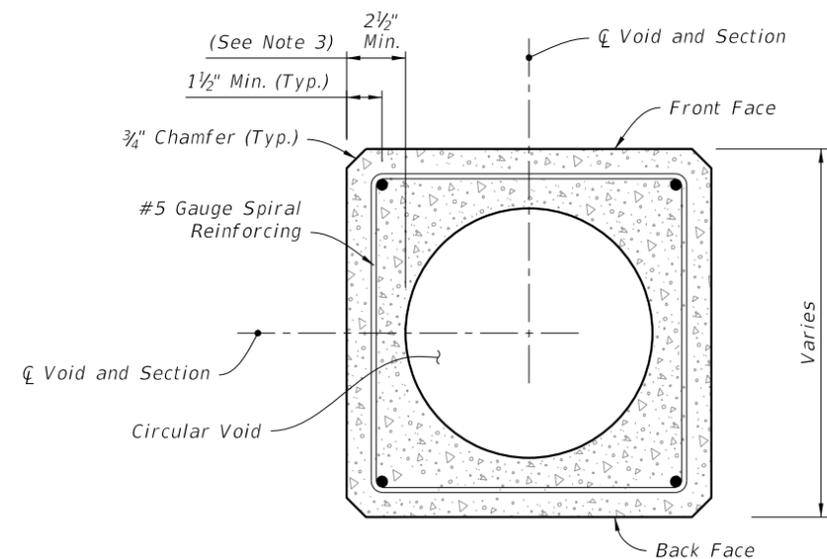
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(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION G-G (Tip End)



SECTION H-H (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 33% L from the Tip End.
3. Dimension may vary from 2 1/2" to 3 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (4 strands total)

Renumbered
POLE TYPE P-III

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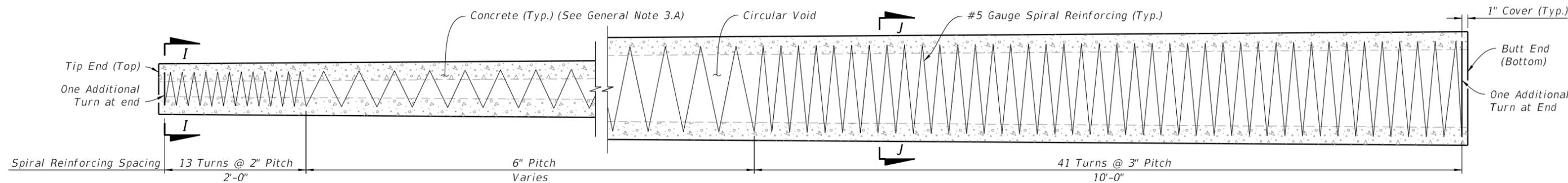
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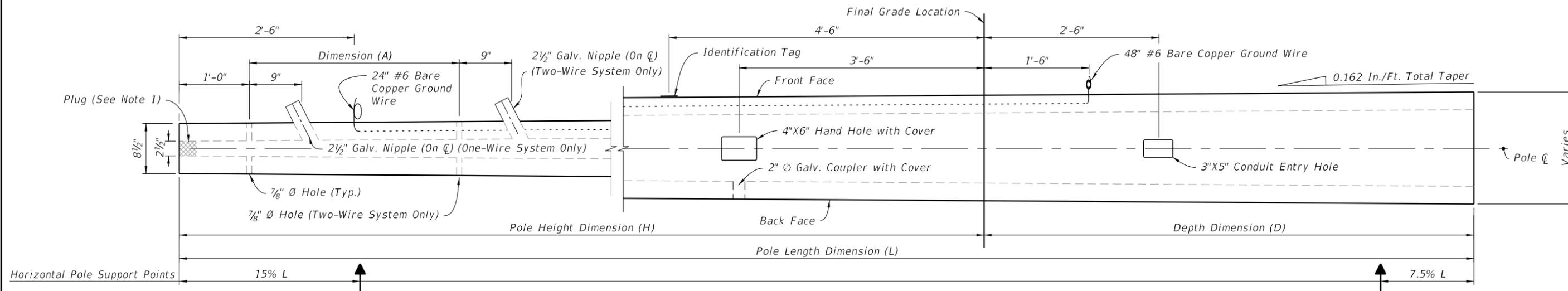
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CONCRETE POLES

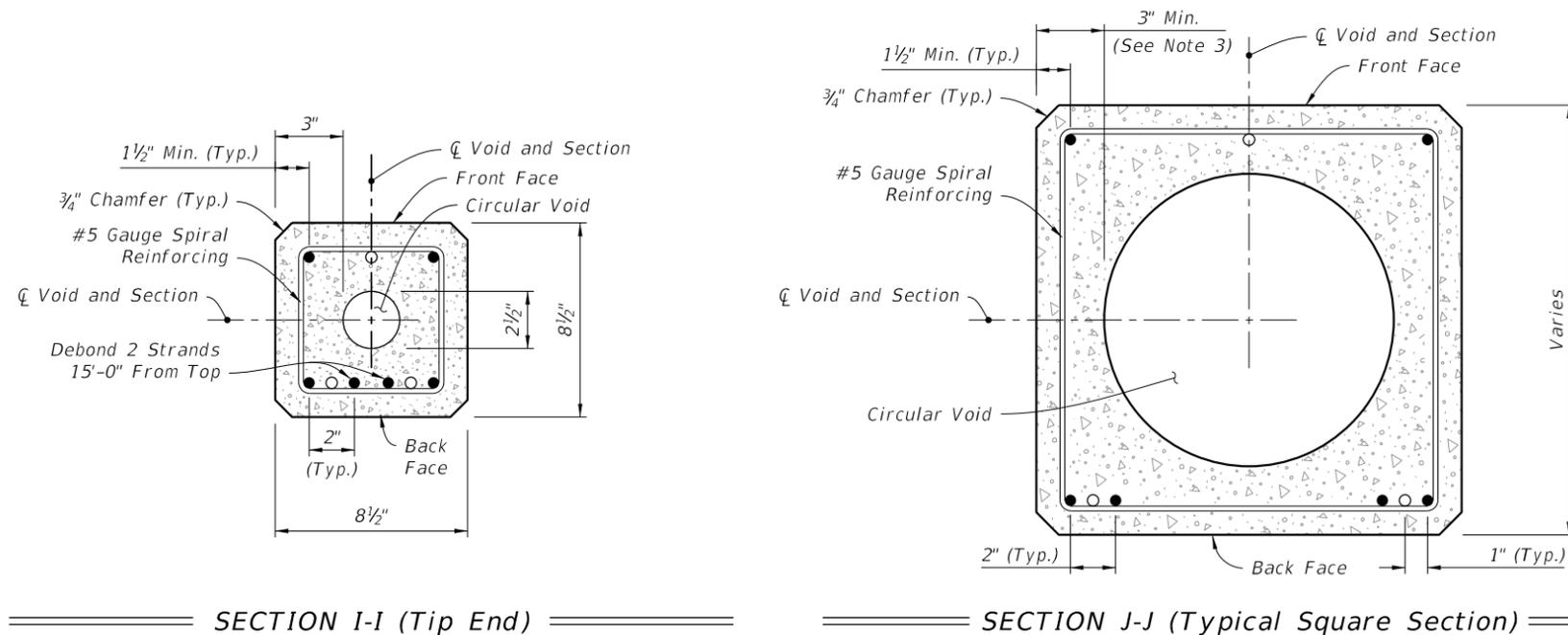
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SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 20% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (6 strands total)
- Dormant Strand:
0.5 in. (3 strands total) One 24" splice allowed per strand

Renumbered
STRAIN POLE TYPE P-IV

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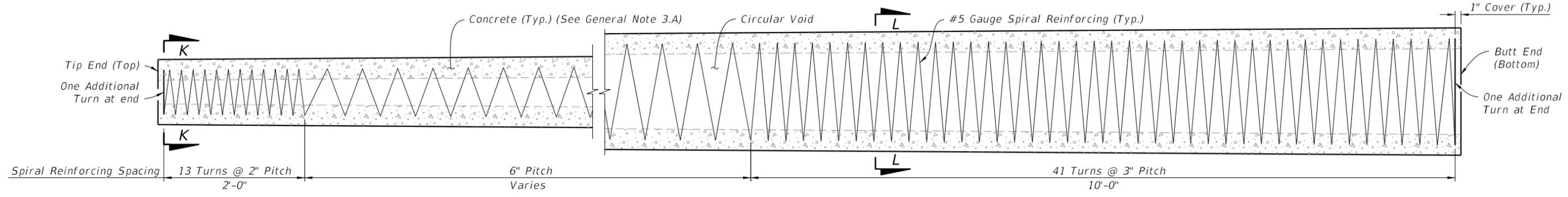


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STANDARD PLANS

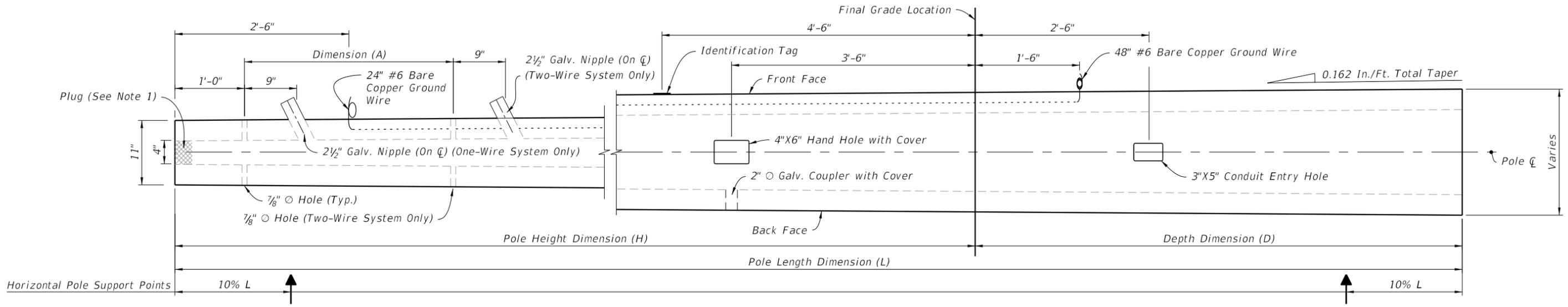
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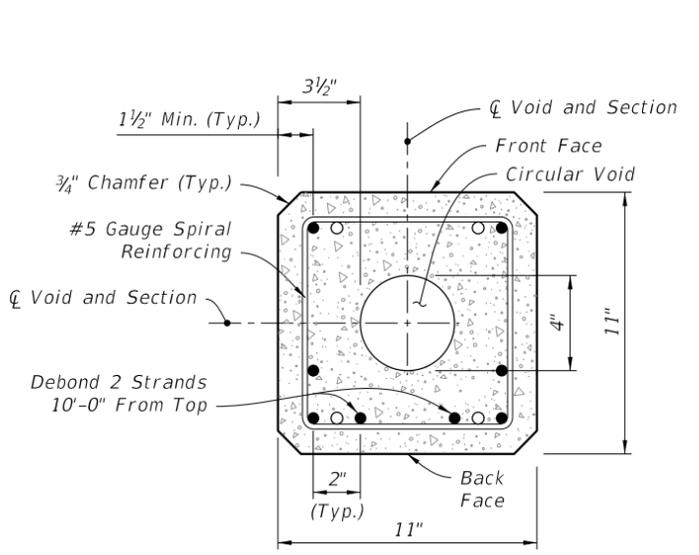
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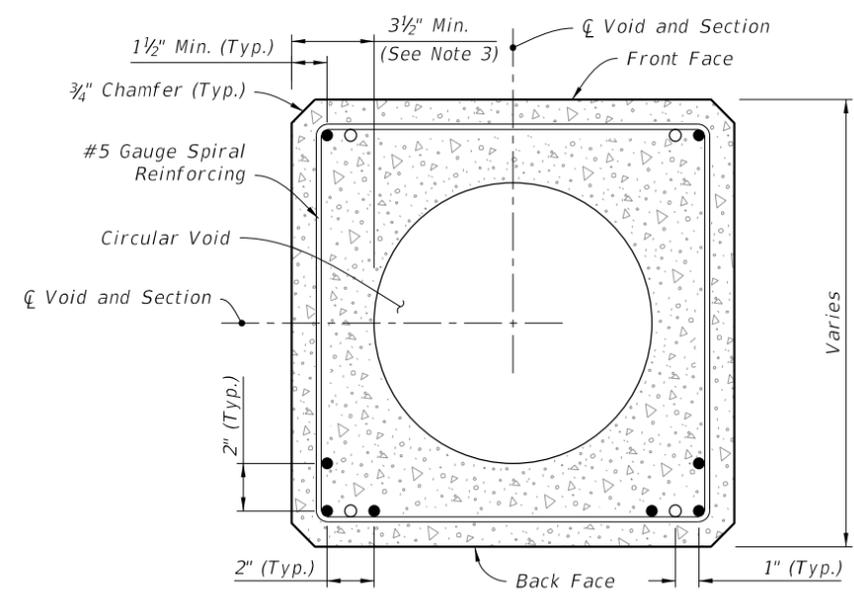
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(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION K-K (Tip End)



SECTION L-L (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 12.5% L from the Tip End.
3. Dimension may vary from 3 1/2" to 4 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 4".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

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

Renumbered

STRAIN POLE TYPE P-V

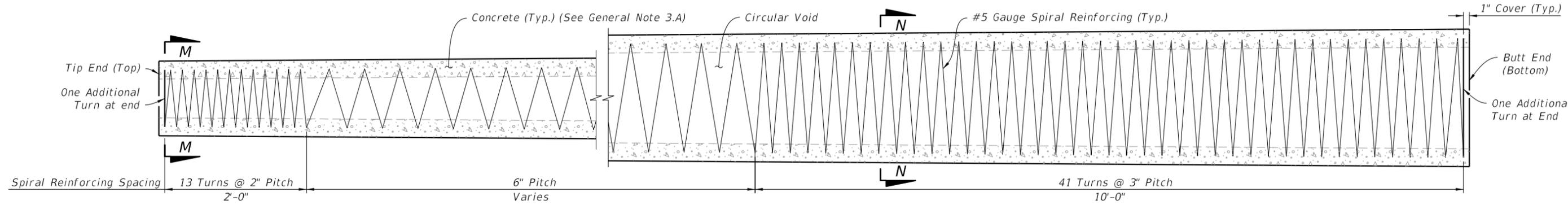
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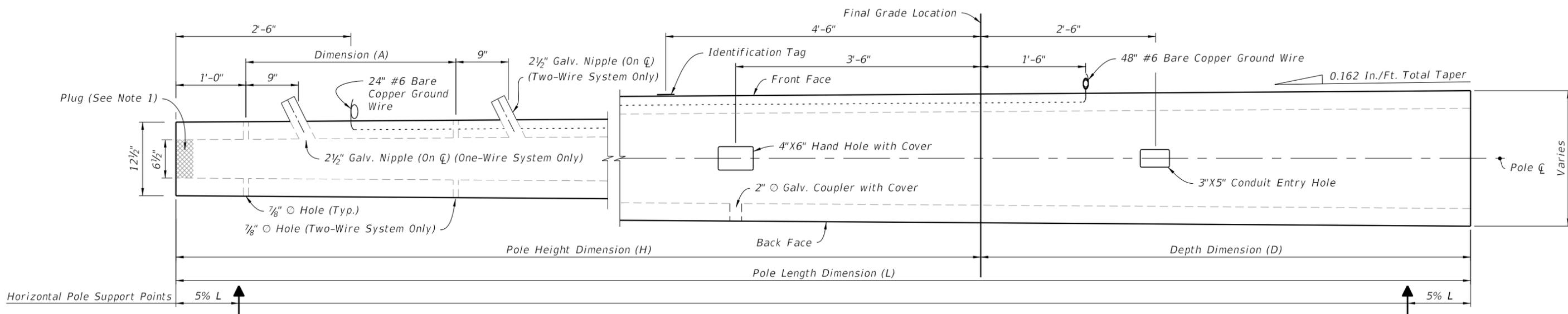
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CONCRETE POLES

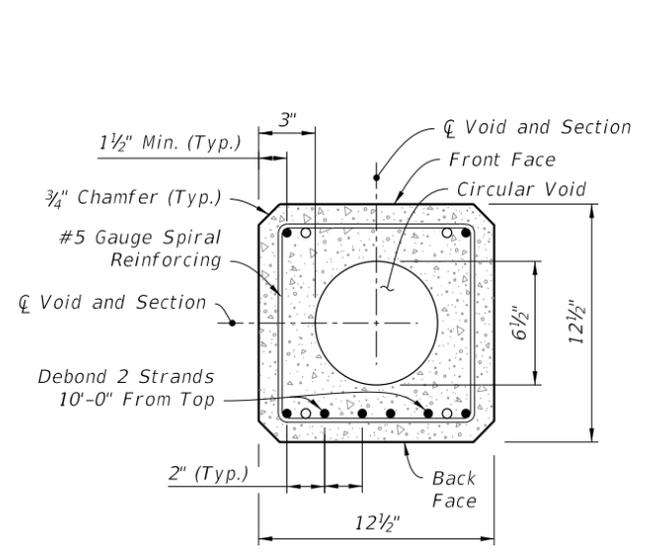
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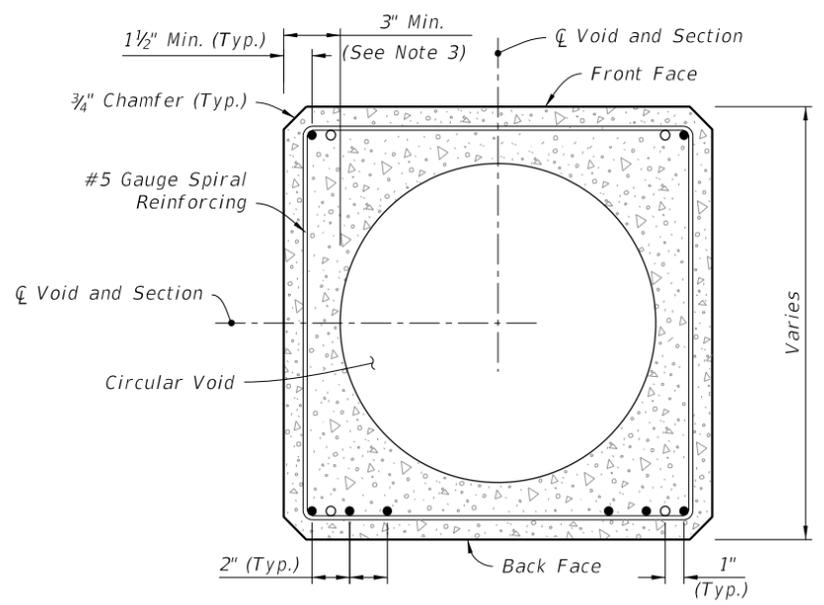
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(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION M-M (Tip End)



SECTION N-N (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

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

Renumbered
STRAIN POLE TYPE P-VI

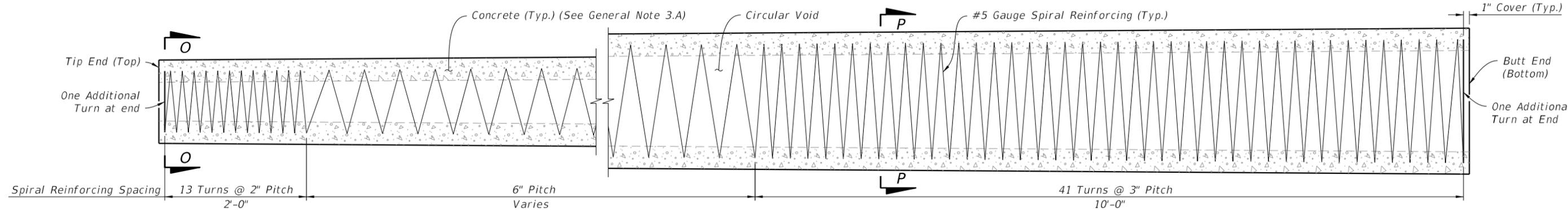
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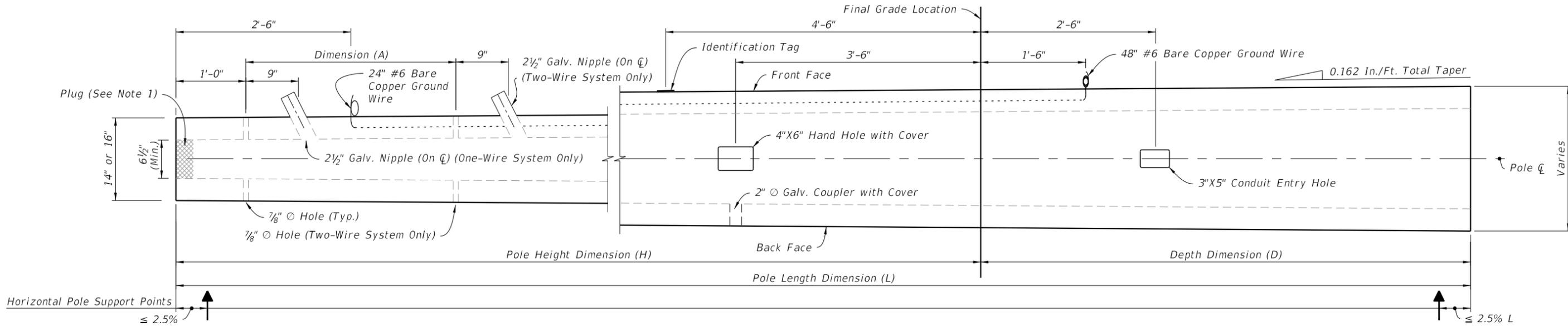
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CONCRETE POLES

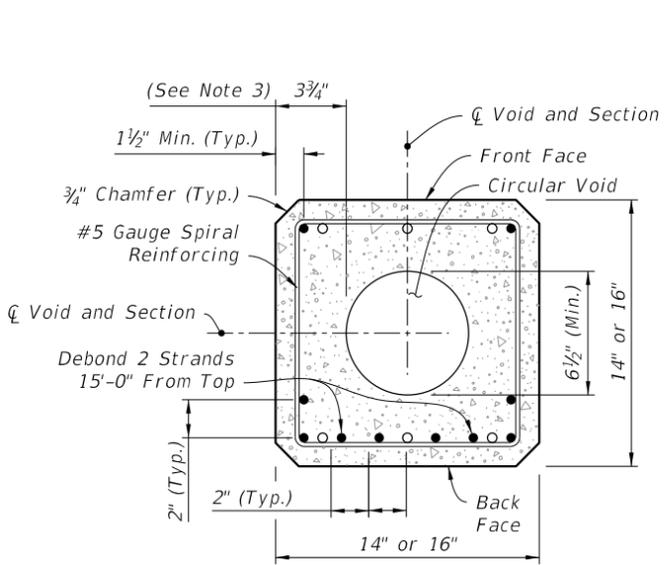
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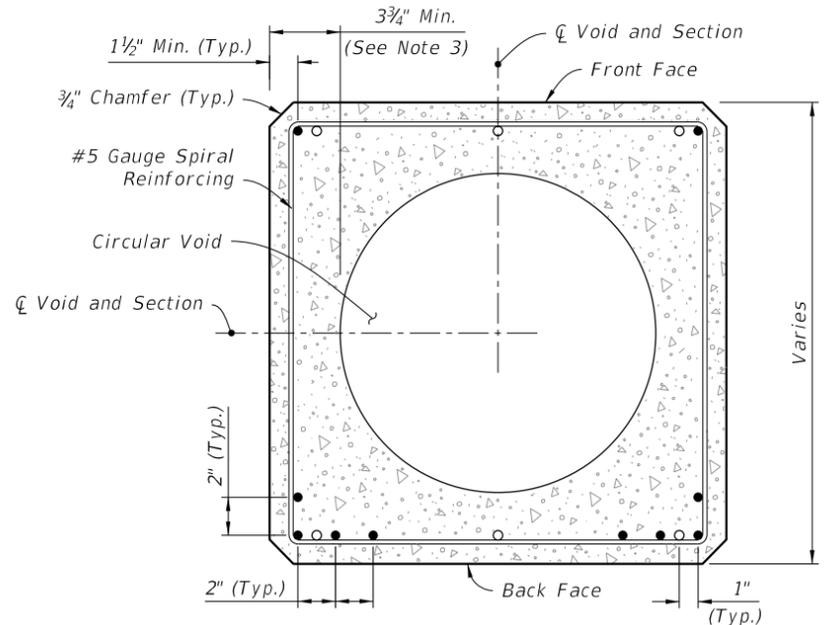
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(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION O-O (Tip End)



SECTION P-P (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (10 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

Renumbered

STRAIN POLE TYPE P-VII

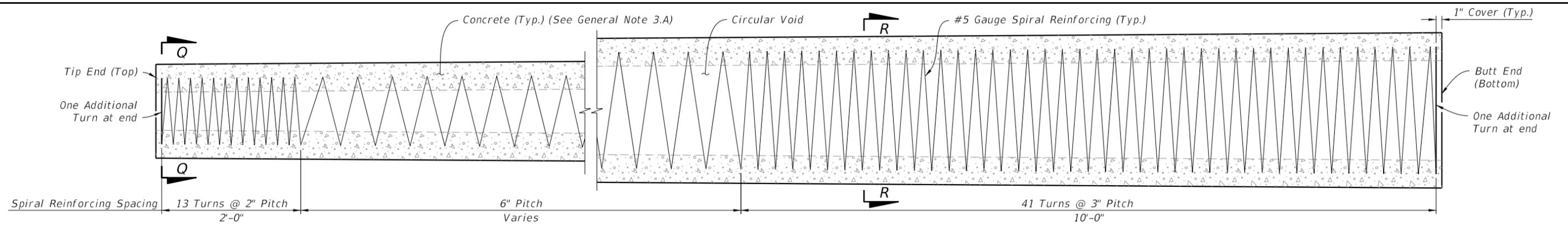
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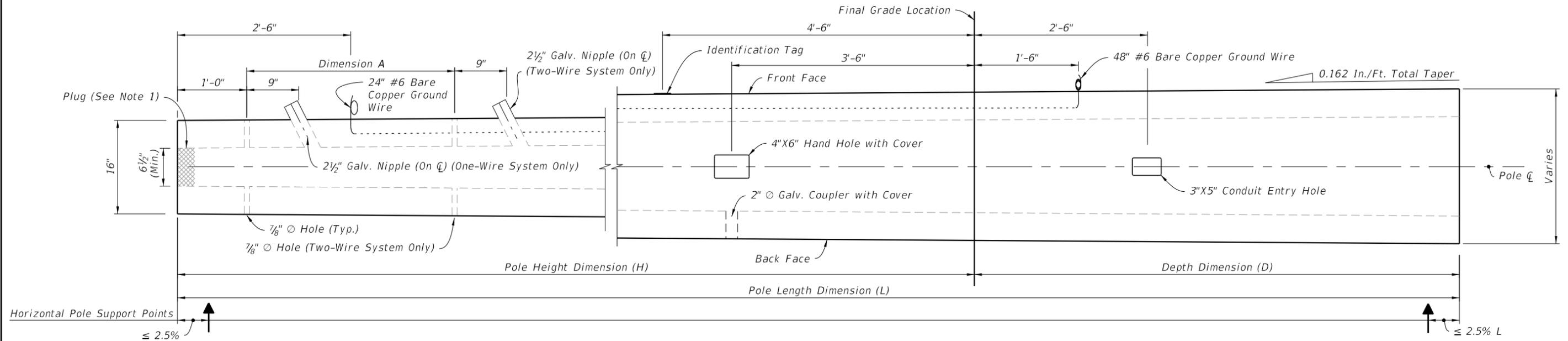
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STANDARD PLANS**

CONCRETE POLES

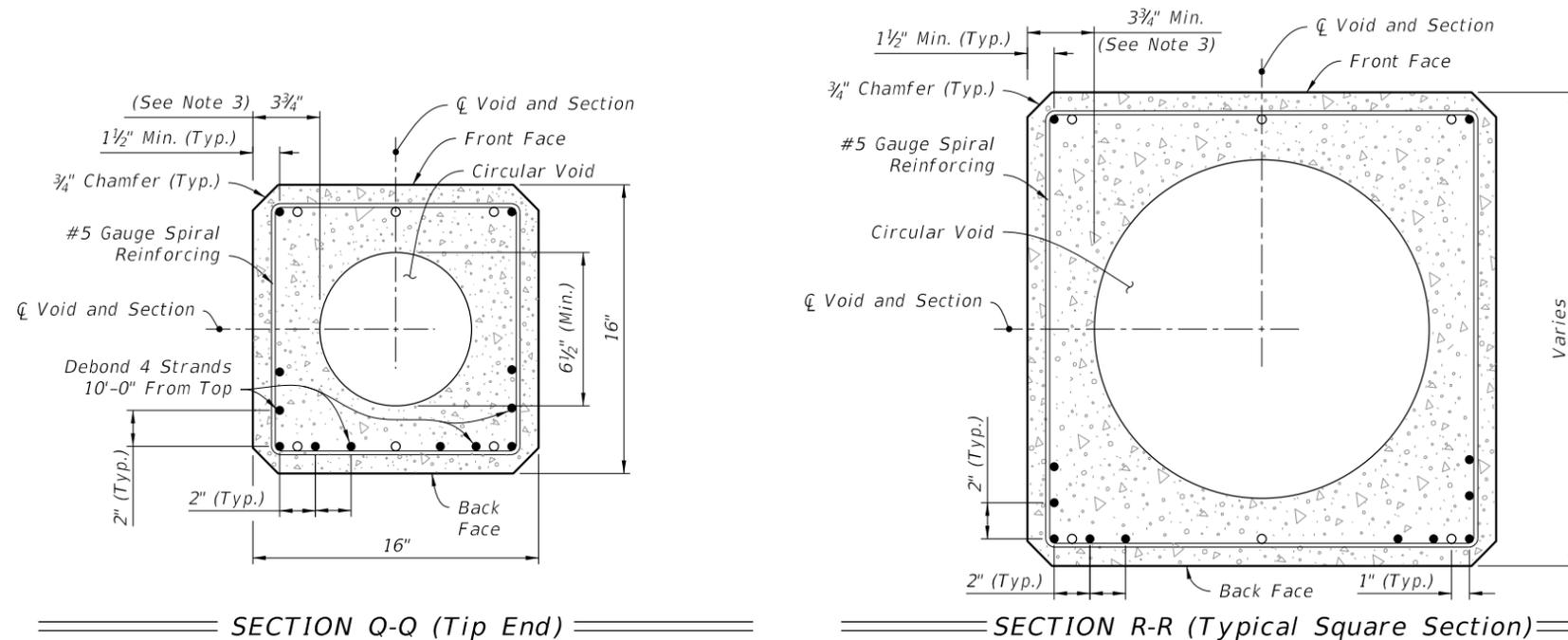
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SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION Q-Q (Tip End)

SECTION R-R (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (12 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

Renumbered
STRAIN POLE TYPE P-VIII

9/22/2021 11:15:45 AM

LAST REVISION	DESCRIPTION:
11/01/21	11/01/22

FDOT
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STANDARD PLANS

CONCRETE POLES

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GENERAL NOTES:

1. Work these Index Sheets with the Strain Pole Schedule in the Plans. See Index 634-001 for corresponding signal cable and span wire installation details.

2. Shop Drawings:

This Index is considered fully detailed and no shop drawing are necessary. Submit shop drawings only for minor modifications not detailed in the Plans.

3. Materials:

- A. Concrete: Class V with 4 ksi minimum strength at transfer or Class VI with 6.5 ksi minimum strength at transfer
- B. Prestress Strands & Spiral Reinforcing: Specification 641
- C. Hand and coupler cover plates: Non-corrosive material
- D. Screws: Round headed, chrome plated

4. Fabrication:

- A. Pole Total Taper shown is for pole width, strands, reinforcing and void (0.081 in/ft per face).
- B. Concrete Cover: 1" minimum.
- C. Spiral Reinforcing: Place as shown, and add 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 $\pm 1/4"$ 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 concreting operations.
- F. Cut the tip end of the prestressed strand either 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 Tag on the pole with the following information:
 - a. Financial Project ID.
 - b. Pole Manufacturer
 - c. Standard Pole Type Number
 - d. Pole Length (L)

5. Support Points:

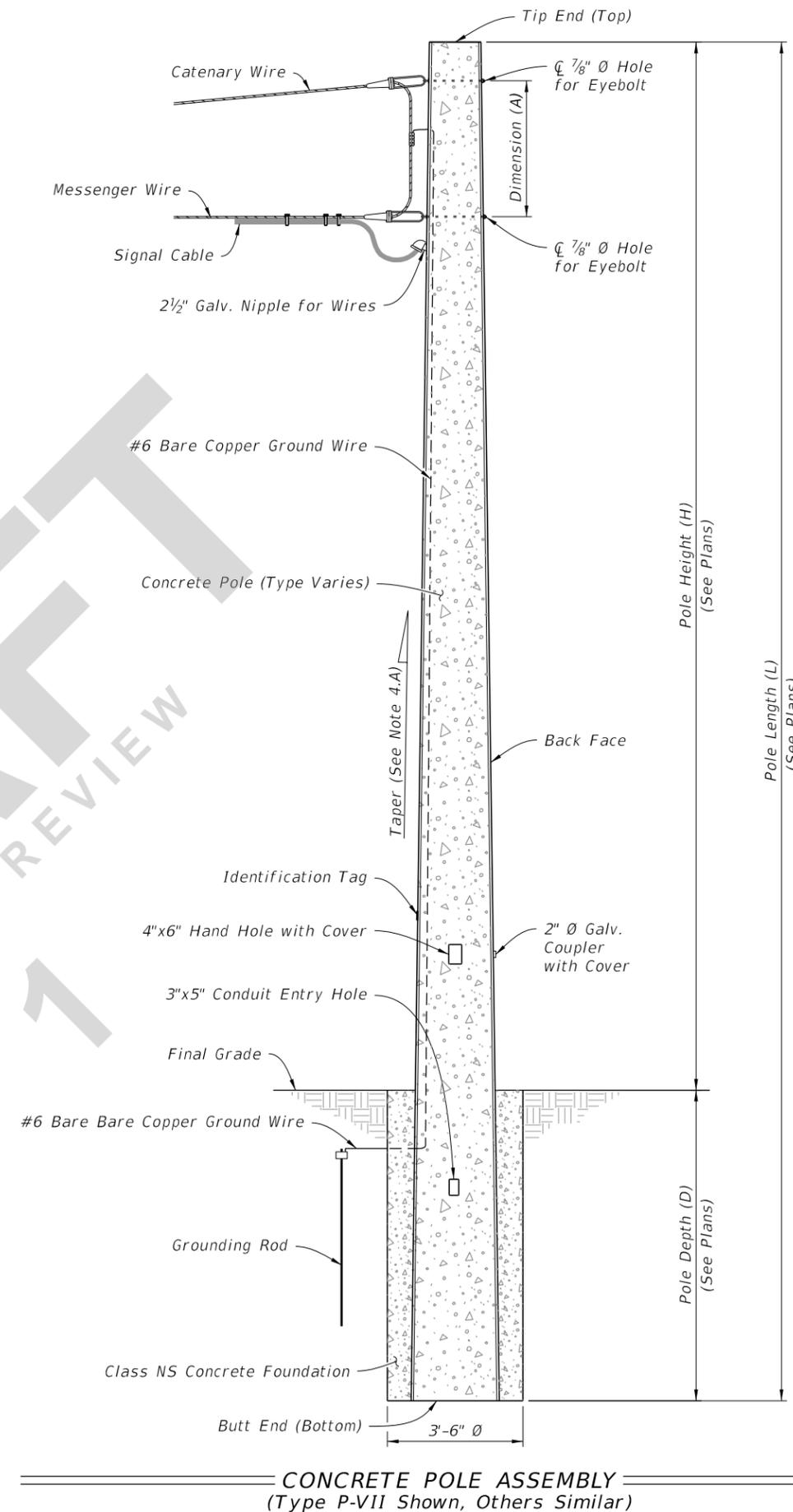
Support Points shown may vary within a tolerance of $\pm 3"$.

Horizontal Pole Support Points shown are for strand release, storage, handling and transport of the horizontal pole. Keep Back Face oriented downward until final erection.

6. Two point attachment: Provide an eye bolt hole for the messenger wire.

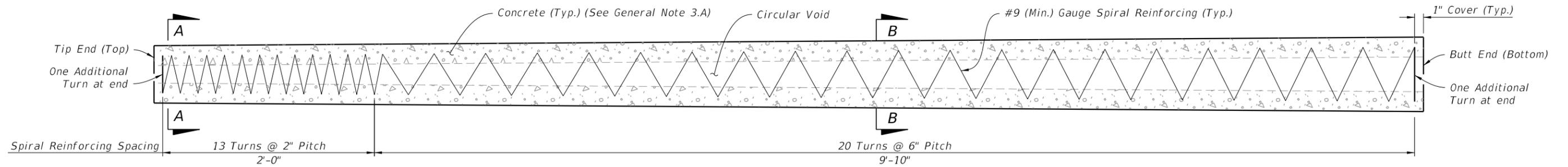
7. Tether Wire: When required, field-drill the eyebolt hole prior to installation.

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1	General Notes and Contents
2	Service Pole - Type P-IIA (12 ft.)
3	Service Pole - Type P-IIB (36 Ft.)
4	Pedestal Pole - Type P-IIC (12 Ft.)
5	Pedestal Pole - Type P-IID (16 Ft.)
6	Pole - Type P-III
7	Strain Pole - Type P-IV
8	Strain Pole - Type P-V
9	Strain Pole - Type P-VI
10	Strain Pole - Type P-VII
11	Strain Pole - Type P-VIII

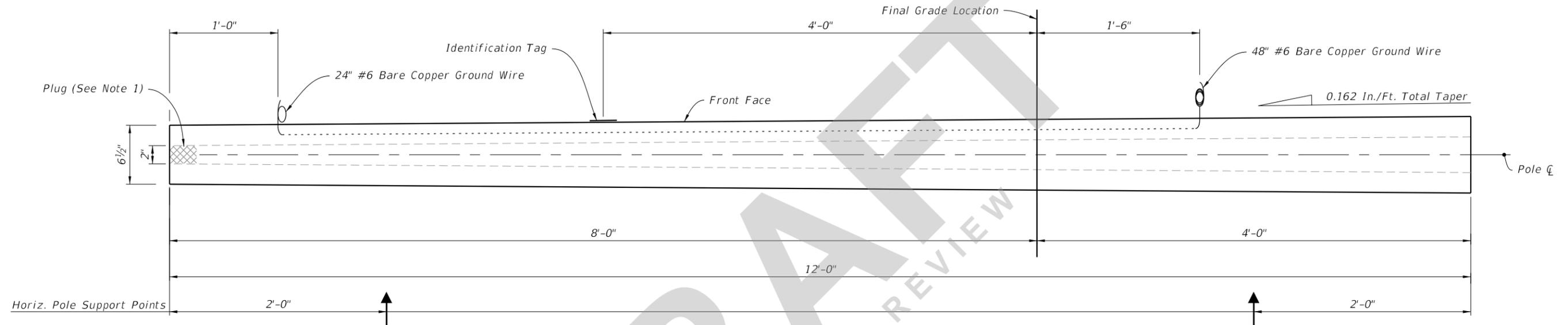


CONCRETE POLE ASSEMBLY
(Type P-VII Shown, Others Similar)

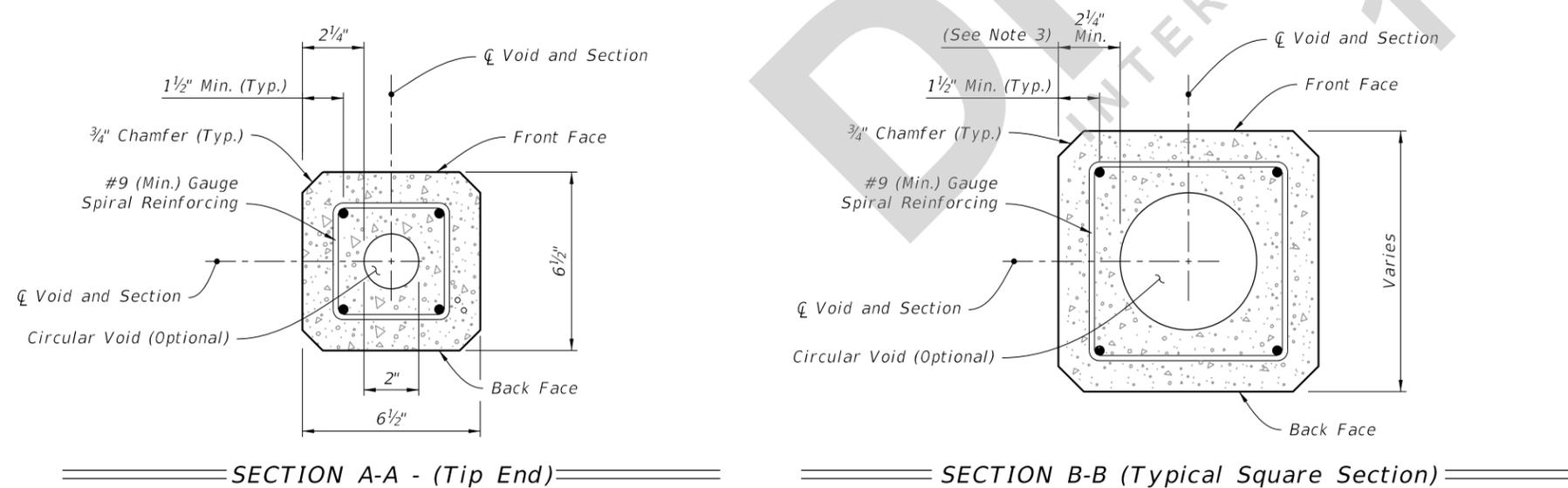
4/20/2022 8:30:41 AM



SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

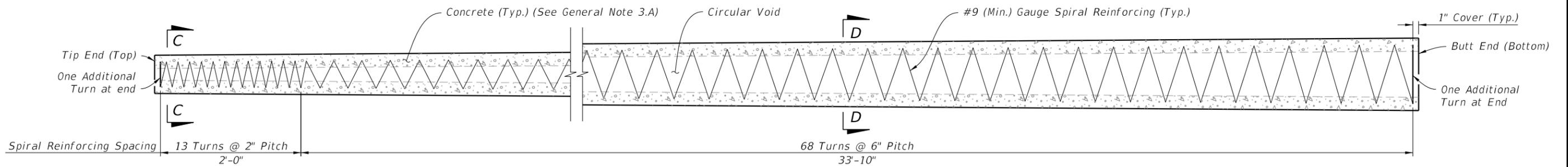
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer (4 strands total)

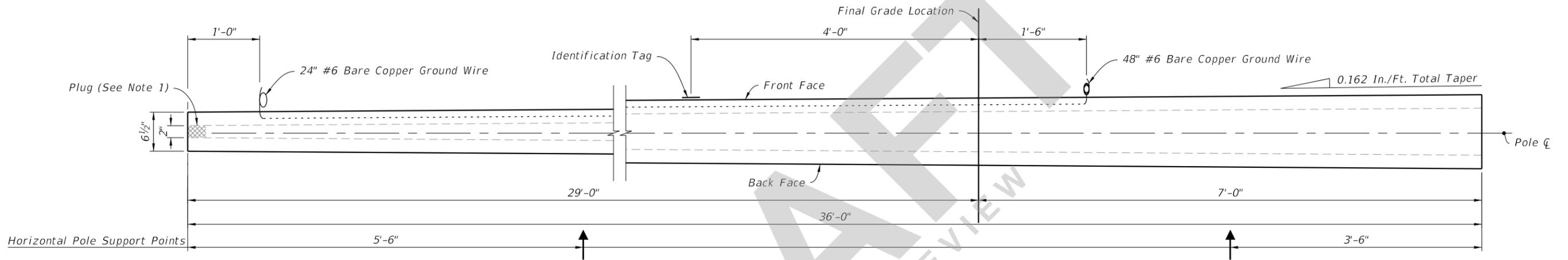
SERVICE POLE - TYPE P-IIA (12 Ft.)

4/20/2022 8:30:42 AM

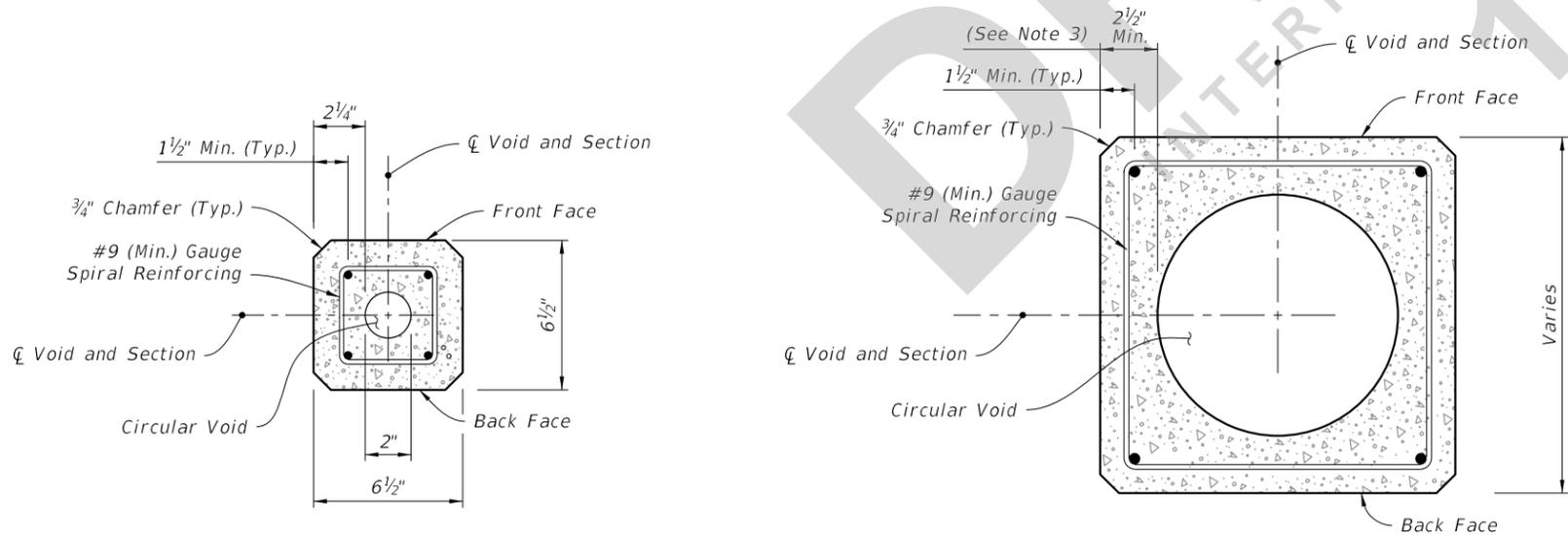
LAST REVISION 11/01/22	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-001	SHEET 2 of 11
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SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION C-C (Tip End)

SECTION D-D (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

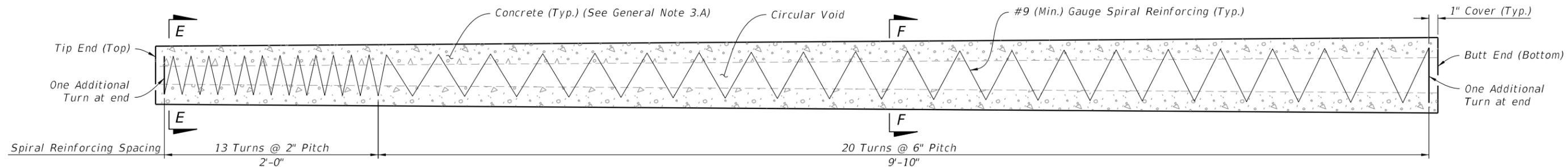
LEGEND:

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0.375 in. ~ 14 kips before transfer
(4 strands total)

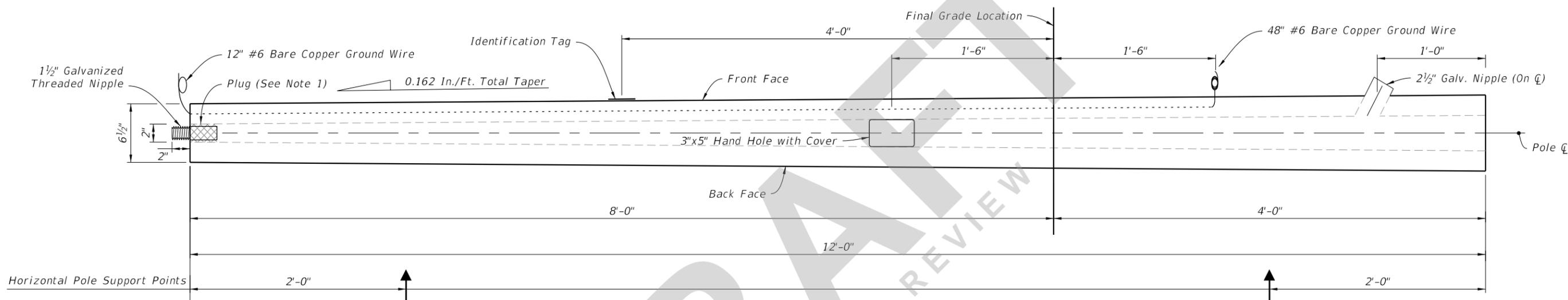
SERVICE POLE TYPE P-IIB (36 Ft.)

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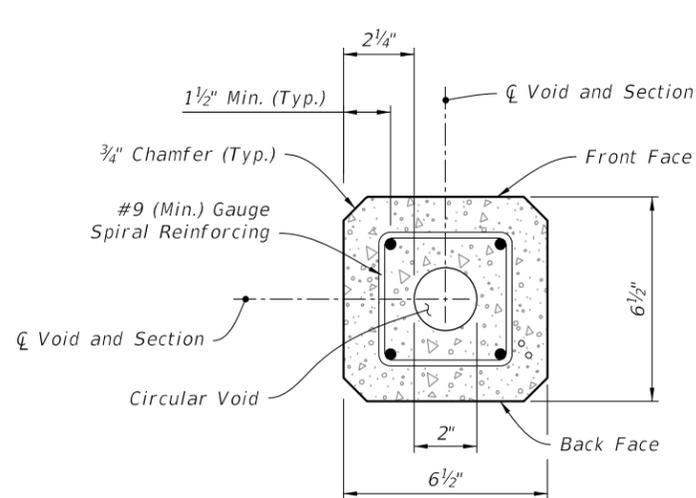
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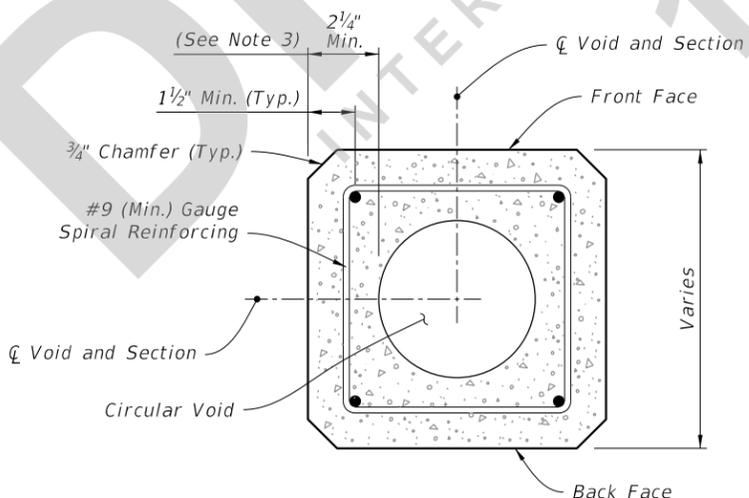
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION E-E (Tip End)



SECTION F-F (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 4 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

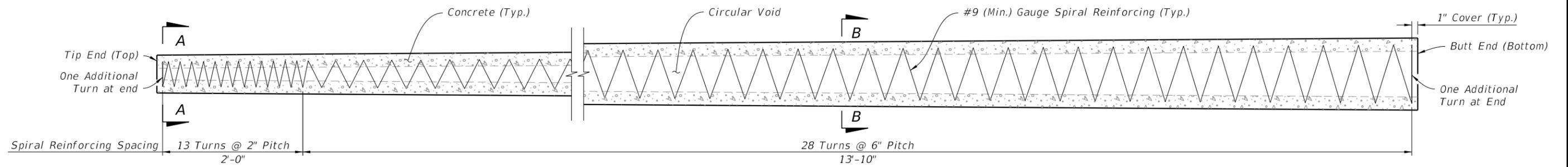
LEGEND:

- Prestressed Strand:
0.5 in. ~ 24 kips before transfer or
0.375 in. ~ 14 kips before transfer
(4 strands total)

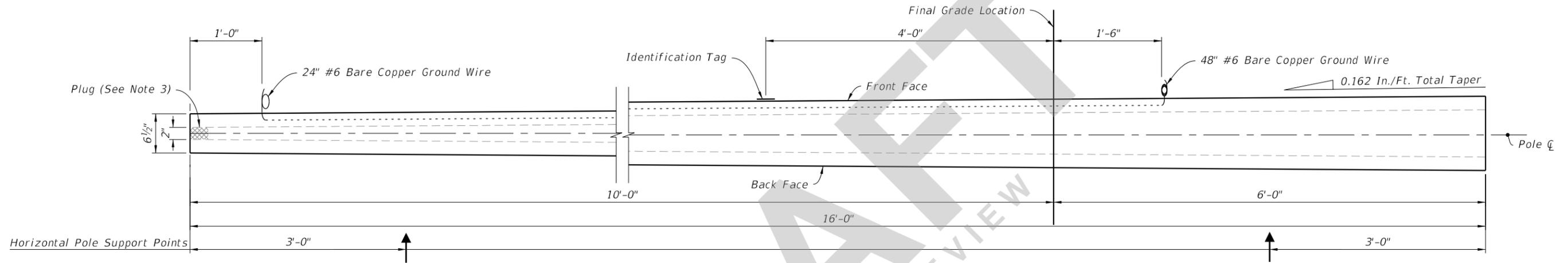
PEDESTAL - TYPE P-IIC (12 Ft.)

4/20/2022 8:30:44 AM

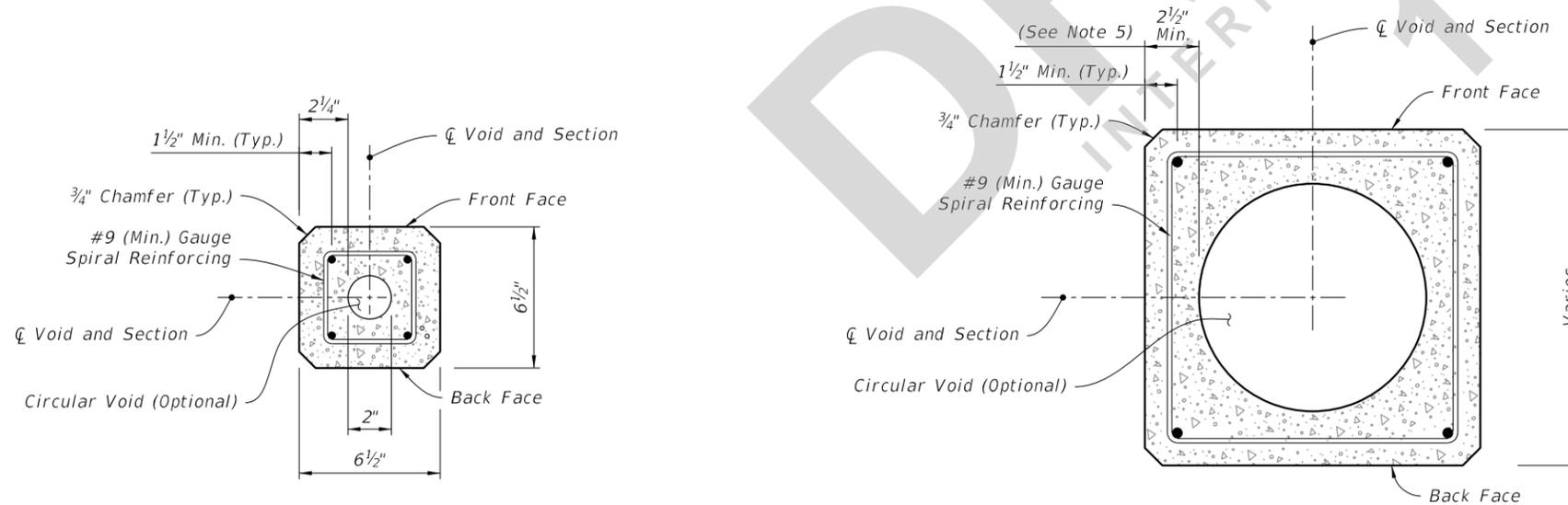
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SPIRAL REINFORCING ELEVATION
(Strands and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION A-A (Tip End)

SECTION B-B (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 5 feet from the Tip End.
3. Dimension may vary from 2 1/4" to 3 1/2" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

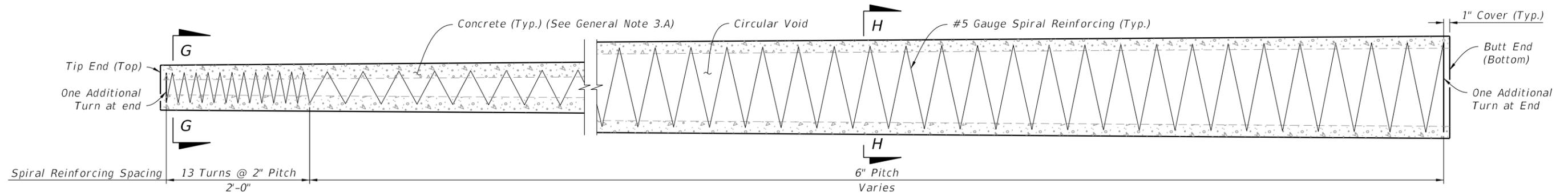
LEGEND:

- Prestressed Strand:
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0.375 in. ~ 14 kips before transfer
(4 strands total)

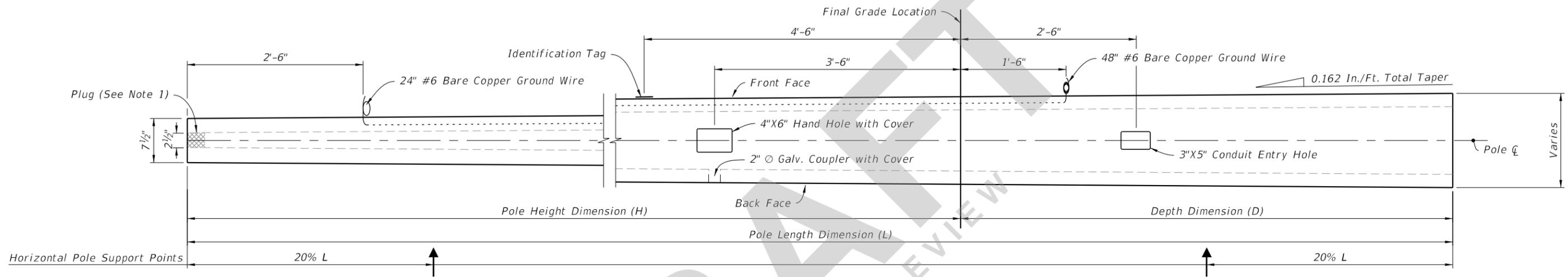
SERVICE POLE TYPE P-IID (16Ft.)

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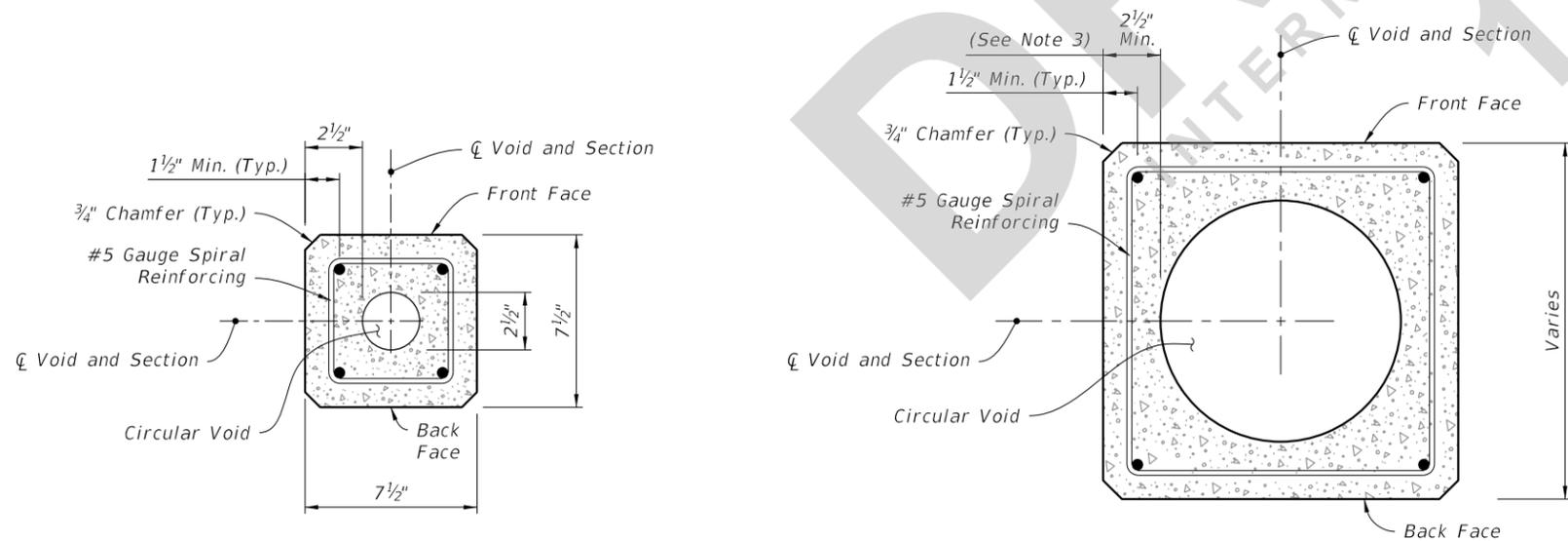
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SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION G-G (Tip End)

SECTION H-H (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 33% L from the Tip End.
3. Dimension may vary from 2 1/2" to 3 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

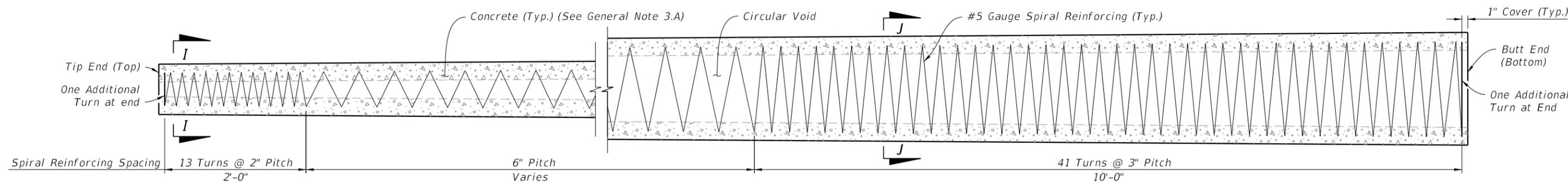
LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (4 strands total)

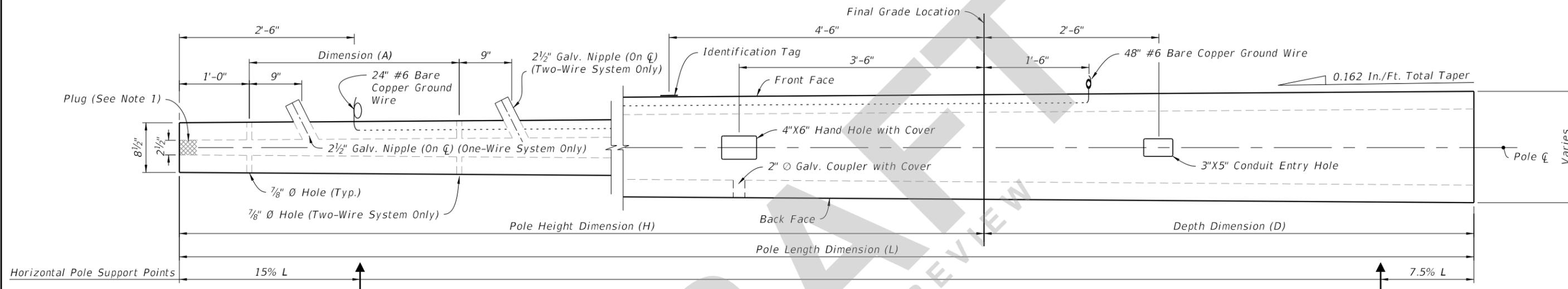
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LAST REVISION 11/01/22	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 6 of 11
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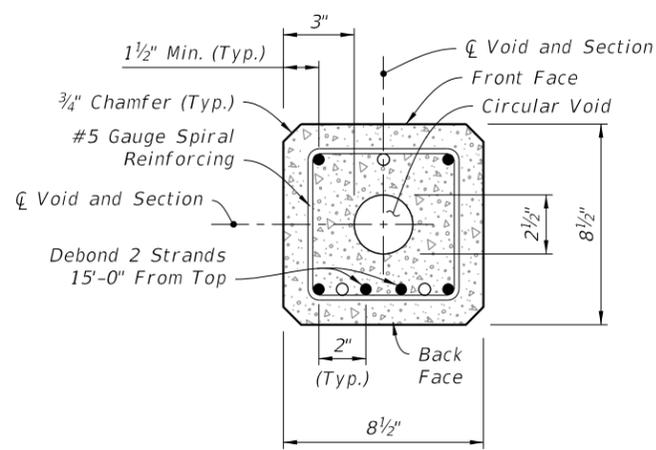
POLE TYPE P-III



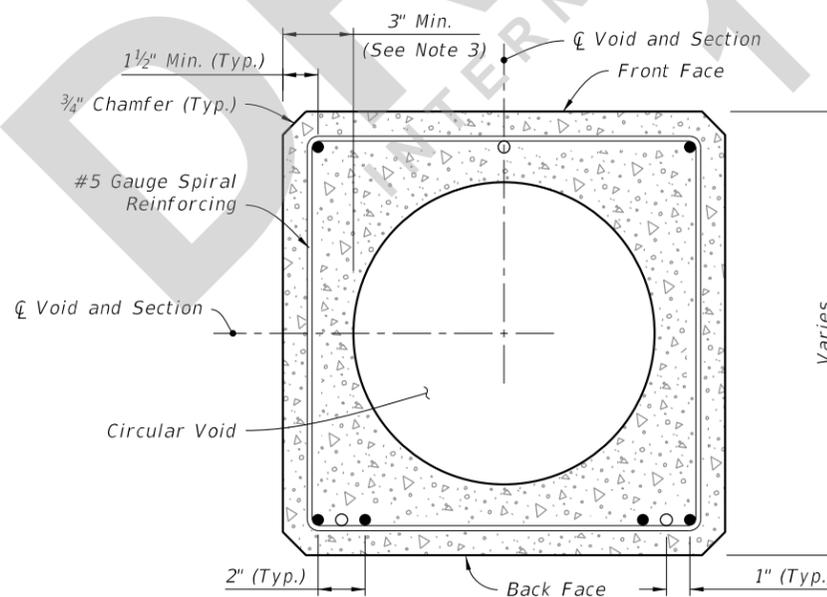
SPIRAL REINFORCING ELEVATION
(Strands, Holes and Fixtures Not Shown)



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION I-I (Tip End)



SECTION J-J (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 20% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 2 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (6 strands total)
- Dormant Strand:
0.5 in. (3 strands total) One 24" splice allowed per strand

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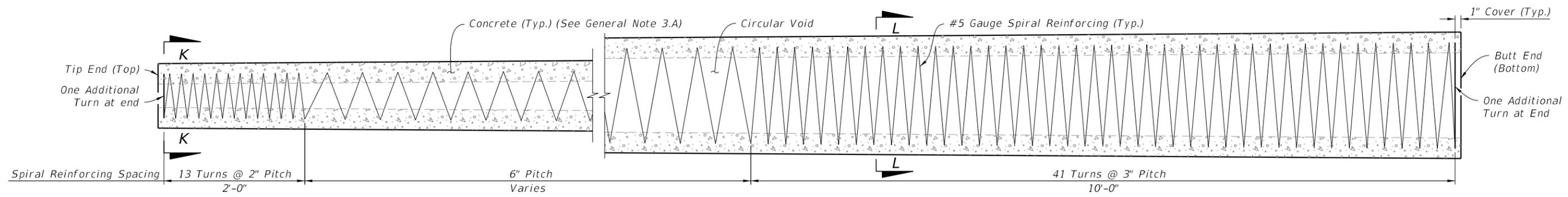
FY 2023-24
STANDARD PLANS

CONCRETE POLES

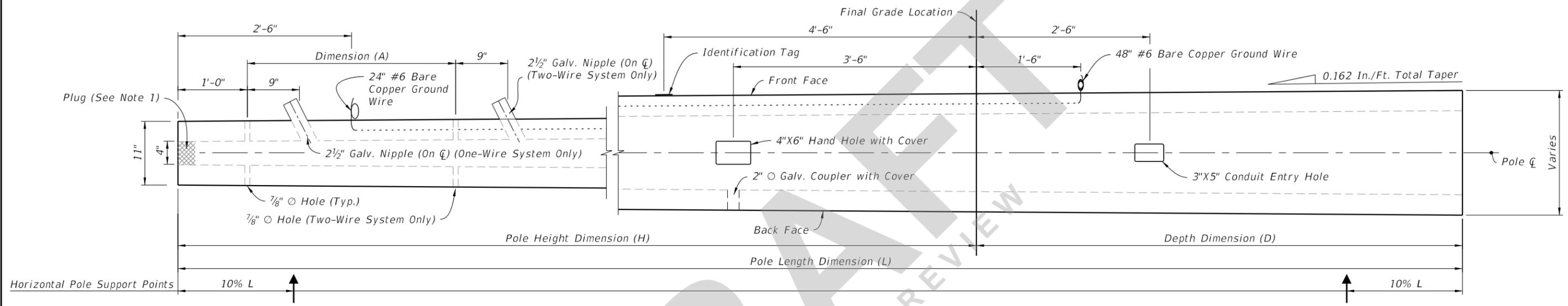
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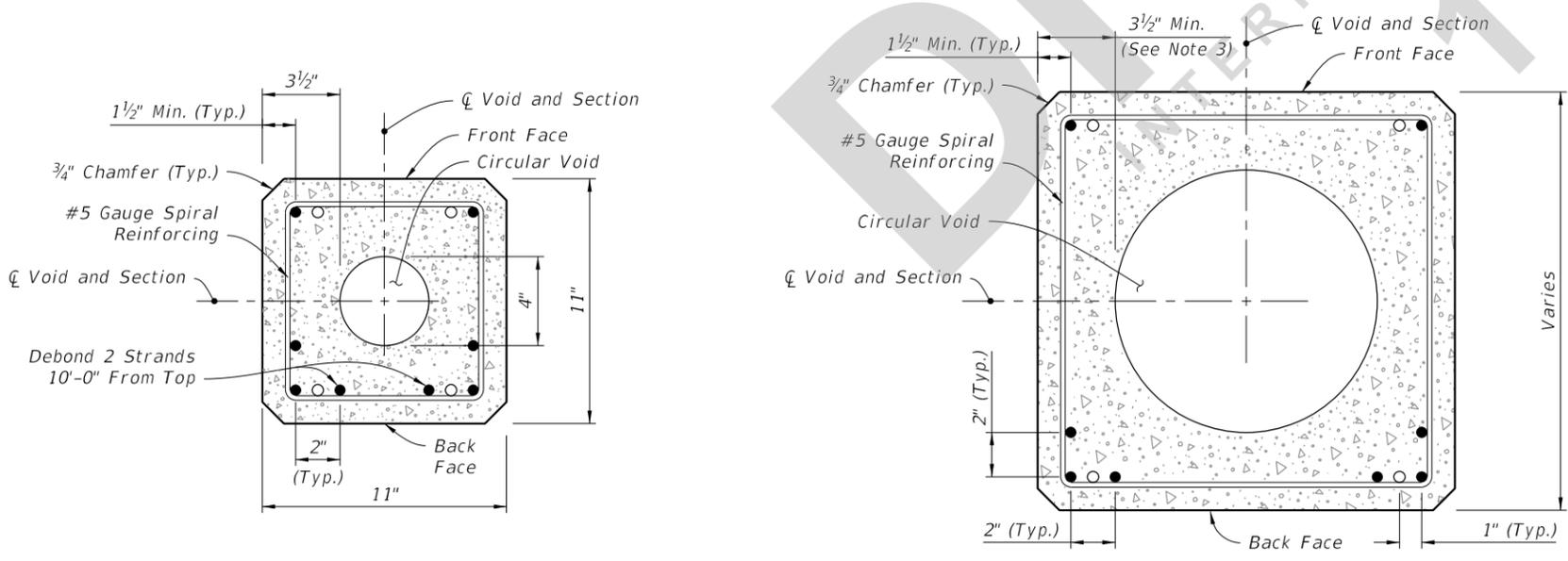
STRAIN POLE TYPE P-IV



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



POLE ELEVATION
(Strands and Reinforcing Not Shown)



SECTION K-K (Tip End)

SECTION L-L (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 12.5% L from the Tip End.
3. Dimension may vary from 3 1/2" to 4 3/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 4".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

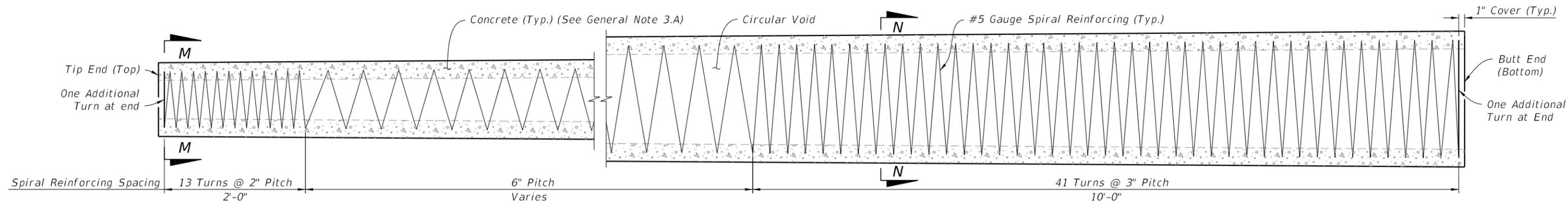
LEGEND:

- 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

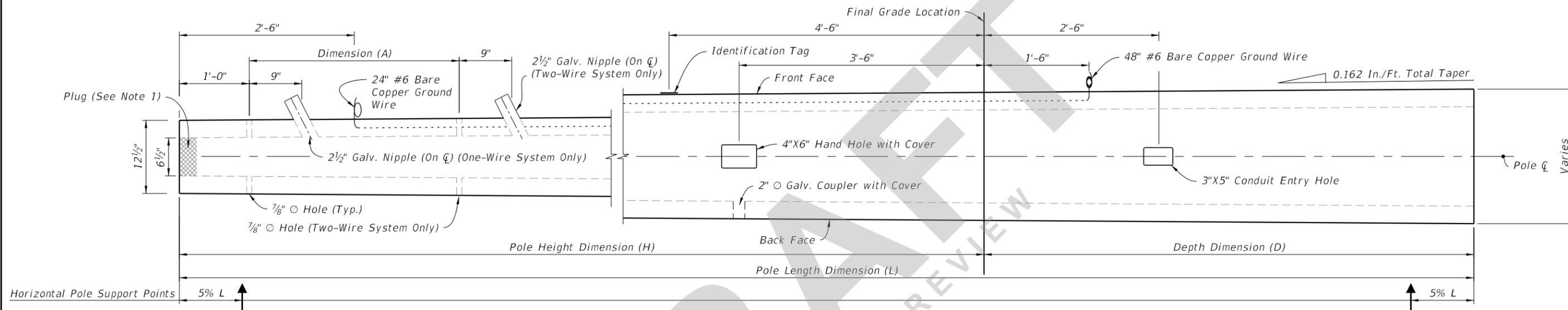
STRAIN POLE TYPE P-V

4/20/2022 8:30:47 AM

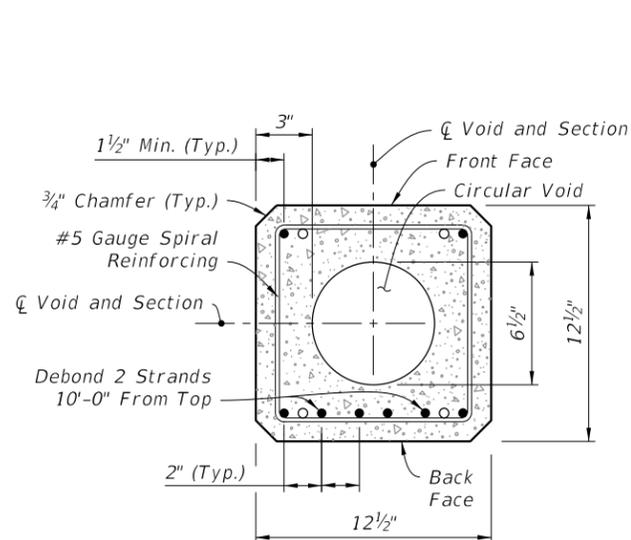
LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	CONCRETE POLES	INDEX 641-010	SHEET 8 of 11
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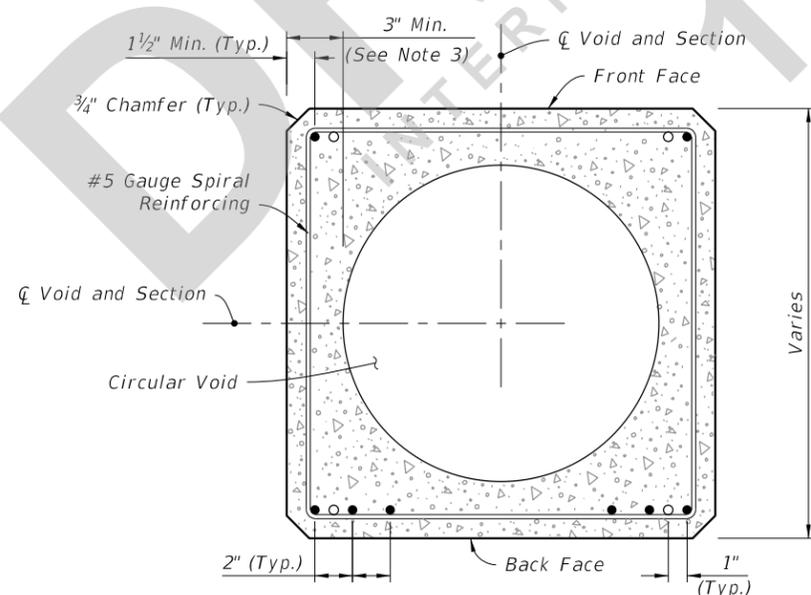
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION M-M (Tip End)



SECTION N-N (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3" to 4 1/4" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

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

STRAIN POLE TYPE P-VI

4/20/2022 8:30:48 AM

LAST REVISION 11/01/22	DESCRIPTION:
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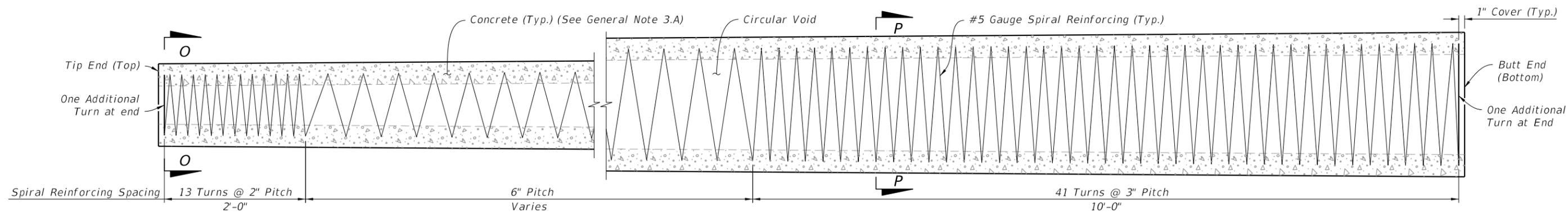


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STANDARD PLANS

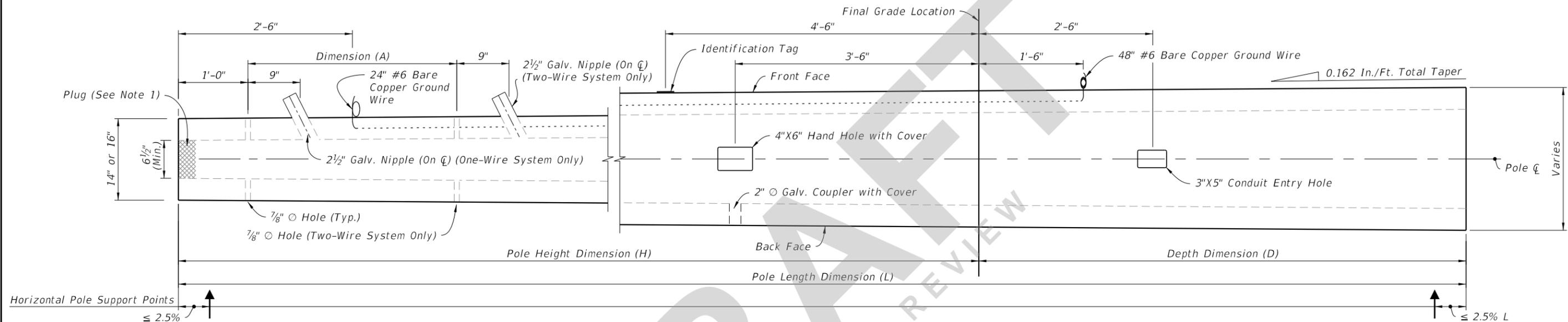
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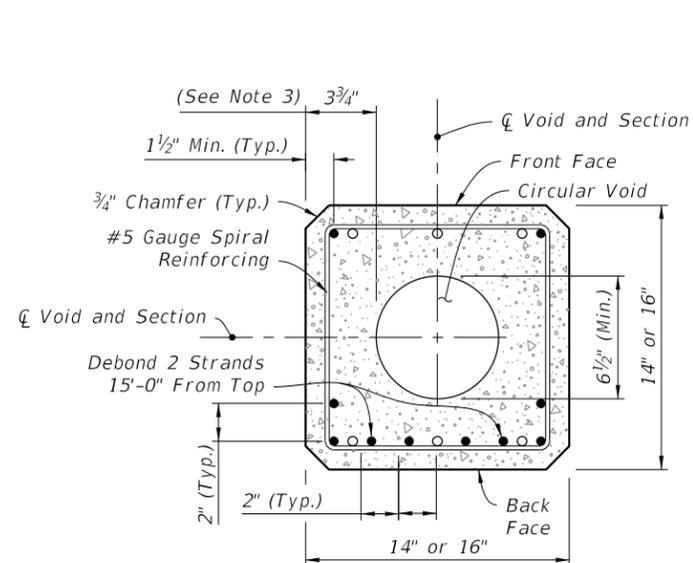
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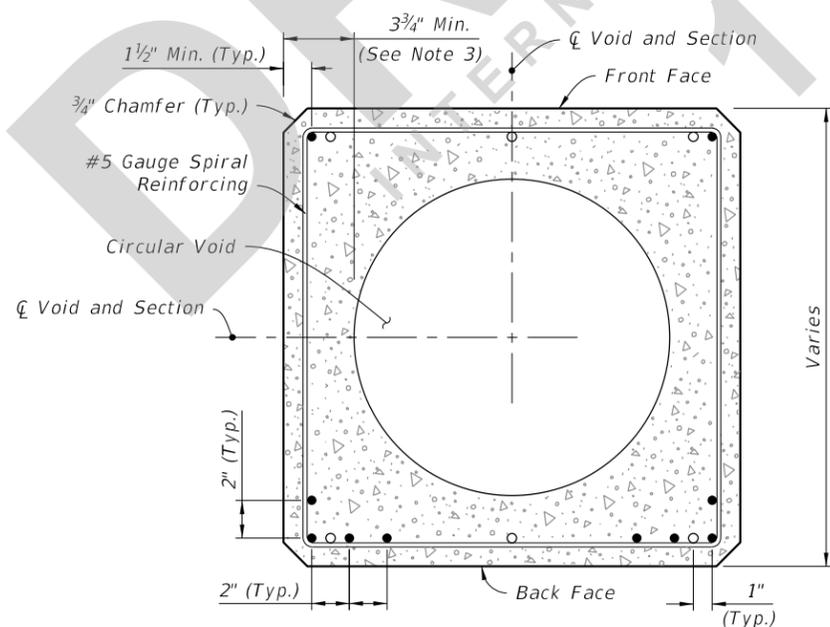
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION O-O (Tip End)



SECTION P-P (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (10 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

STRAIN POLE TYPE P-VII

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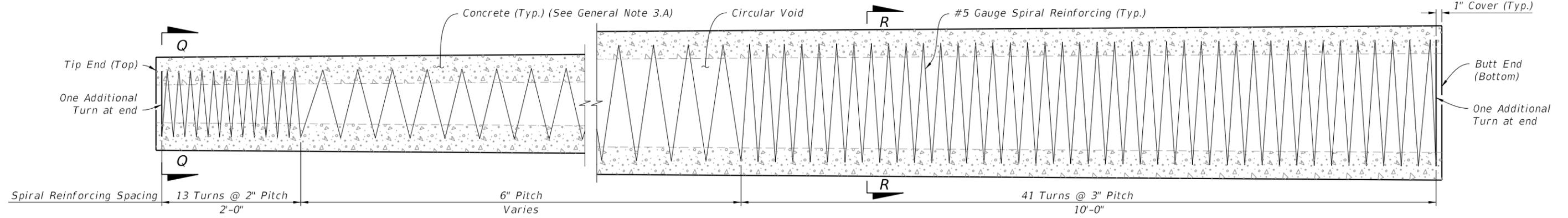


FY 2023-24
STANDARD PLANS

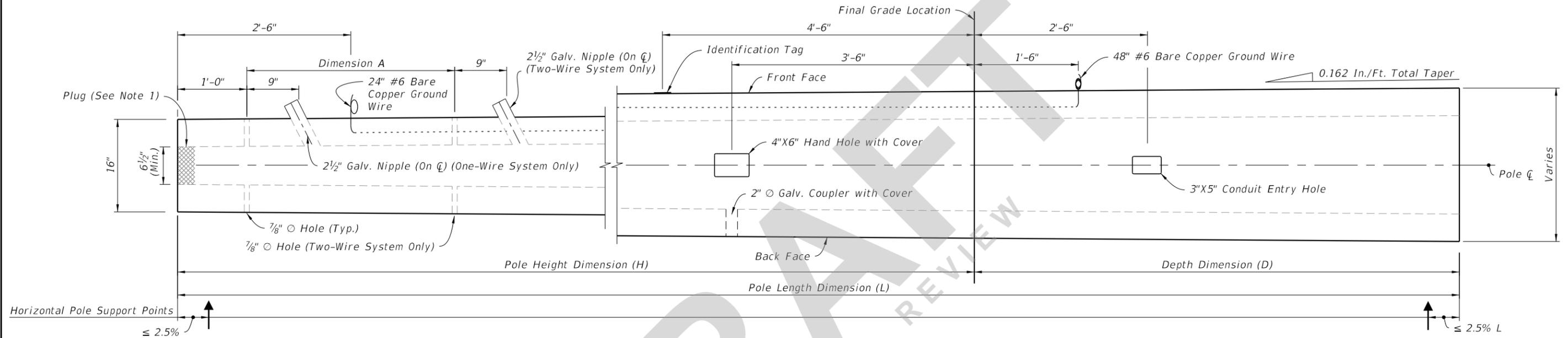
CONCRETE POLES

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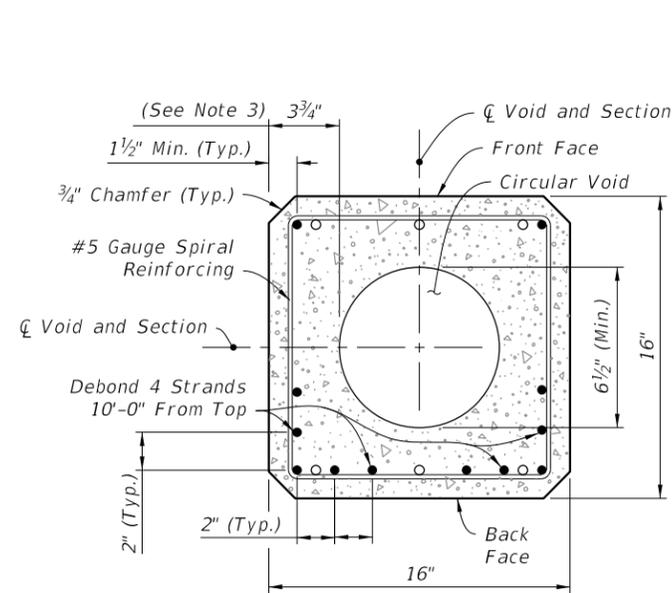
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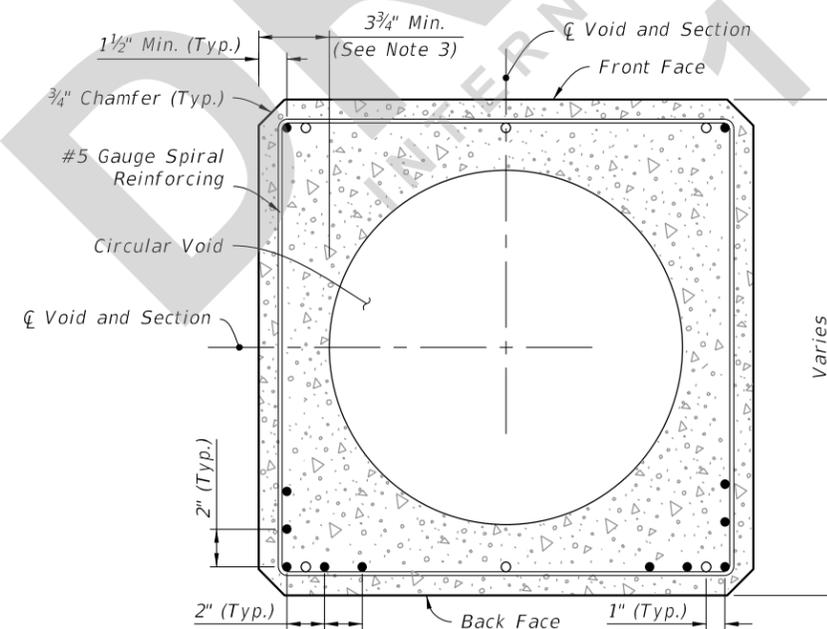
SPIRAL REINFORCING ELEVATION
(Strands, Holes, and Fixtures Not Shown)



POLE ELEVATION
(Strands And Reinforcing Not Shown)



SECTION Q-Q (Tip End)



SECTION R-R (Typical Square Section)

NOTES:

1. Provide a minimum 3" concrete plug at the Tip End.
2. For final erection, tilt pole upright with single point attachment located a distance of 10% L from the Tip End.
3. Dimension may vary from 3 3/4" to 5" to accommodate smaller radius of optional stepped (PVC) void. The minimum void diameter is 6 1/2".
4. Strands shown are continuous from Tip End to Butt End.
5. Strands are not shown in the elevation views for clarity.

LEGEND:

- Prestressed Strand:
0.5 in. ~ 31 kips before transfer (12 strands total)
- Dormant Strand:
0.5 in. (6 strands total) One 24" splice allowed per strand

STRAIN POLE TYPE P-VIII

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