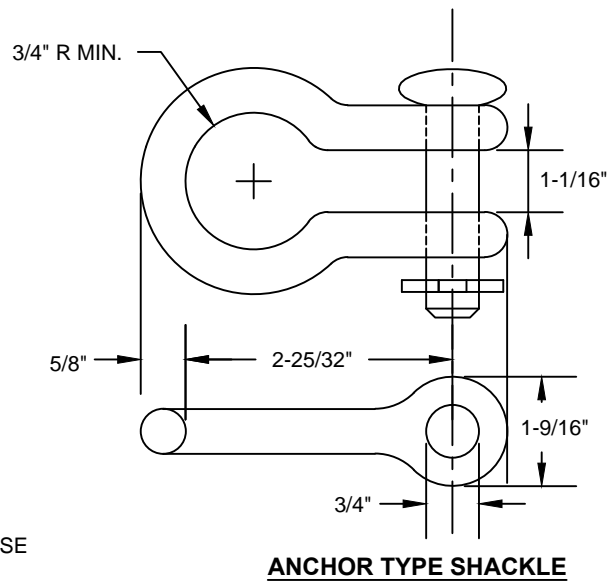
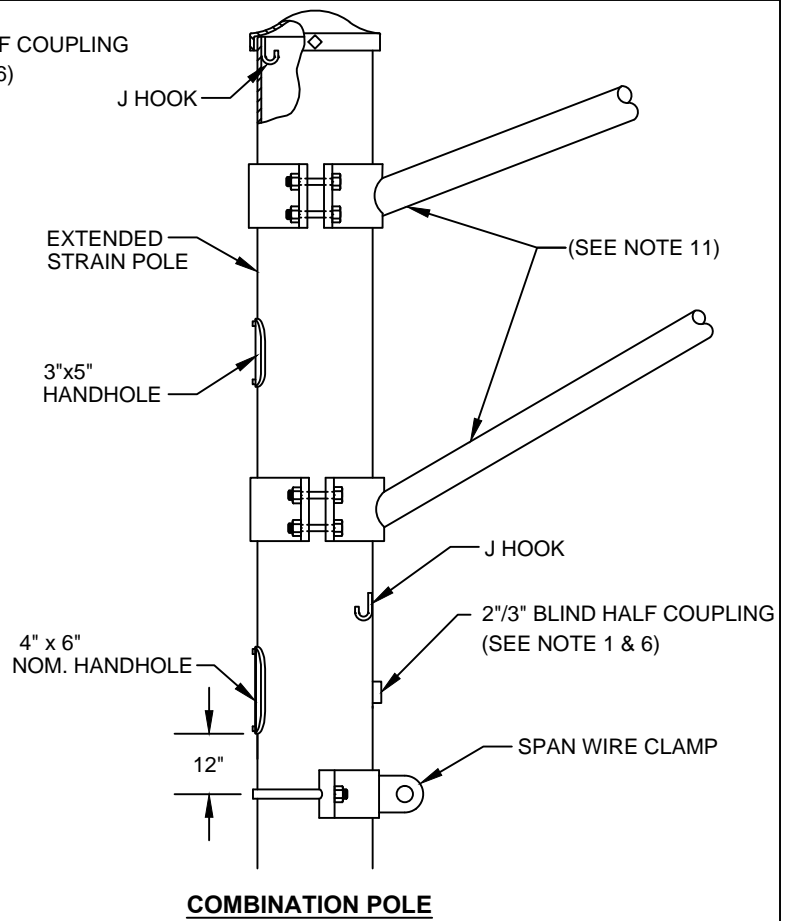
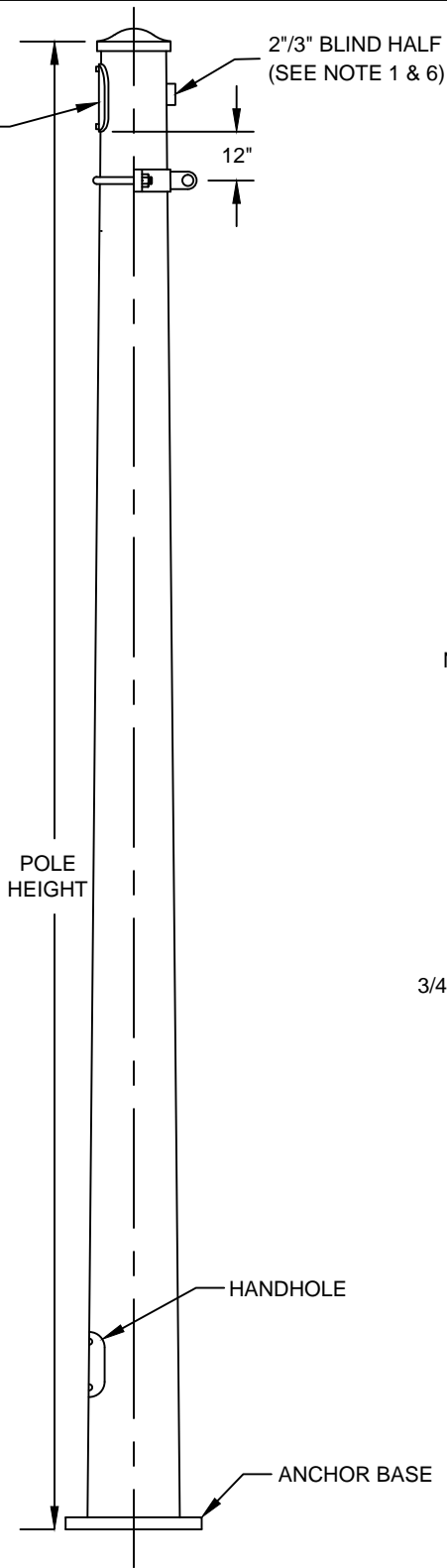


HANDHOLE
REQUIRED IF
SPAN WIRE
CLAMP IS
GREATER
THAN 3'
BELOW TOP
OF POLE.



STRAIN POLE

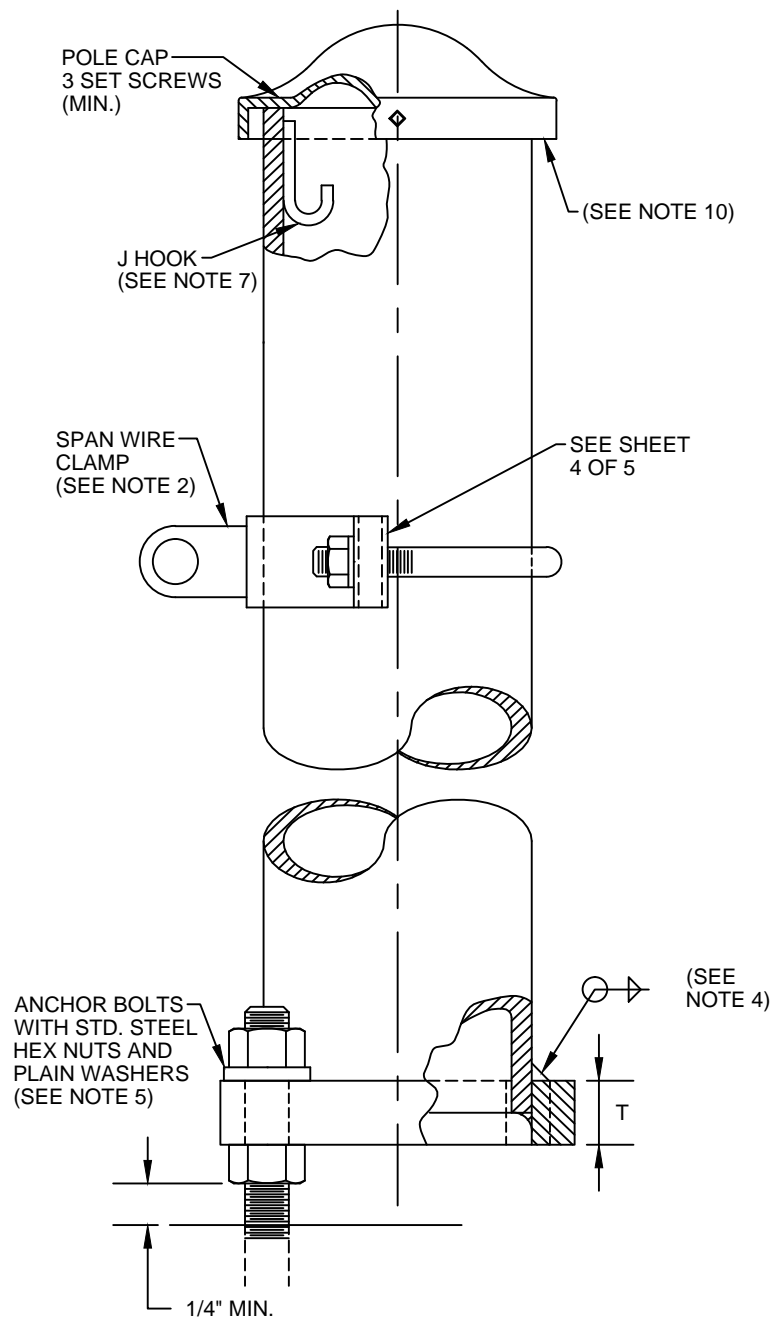
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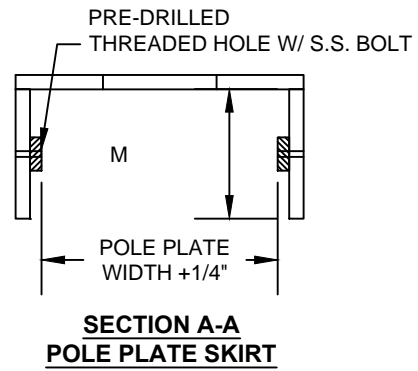
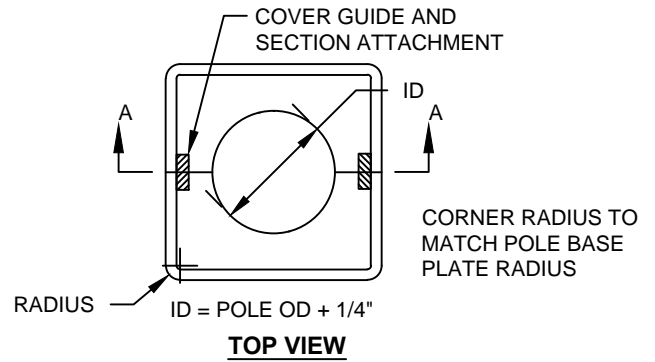
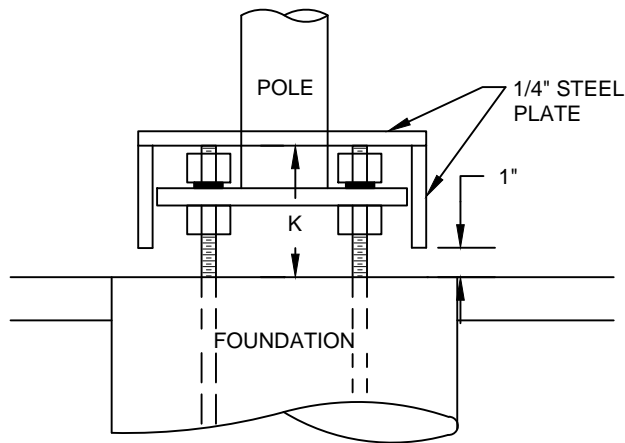
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POLE DETAILS

STRAIN POLE

| | |
|---|------------------------|
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| | 10/01/2018 |
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STEEL BASE COVER

**STRAIN
POLE**

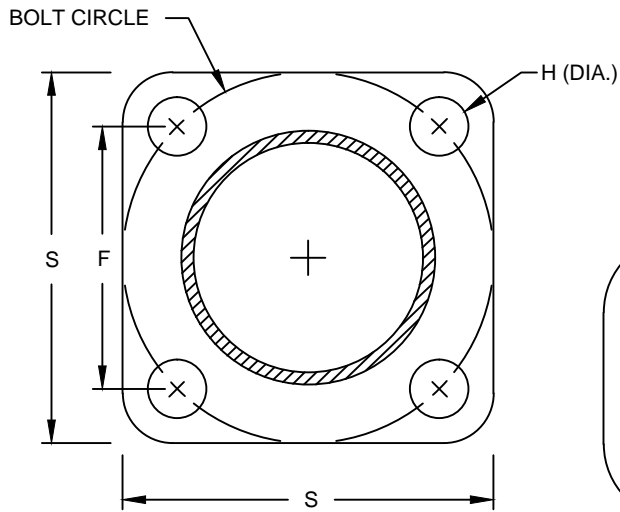
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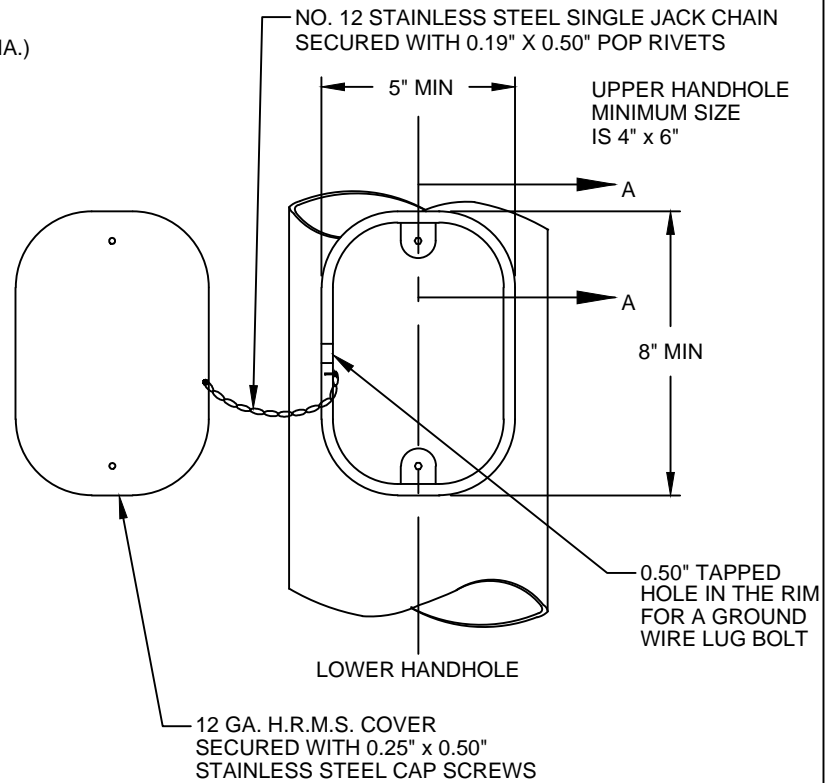
CITY ENGINEER

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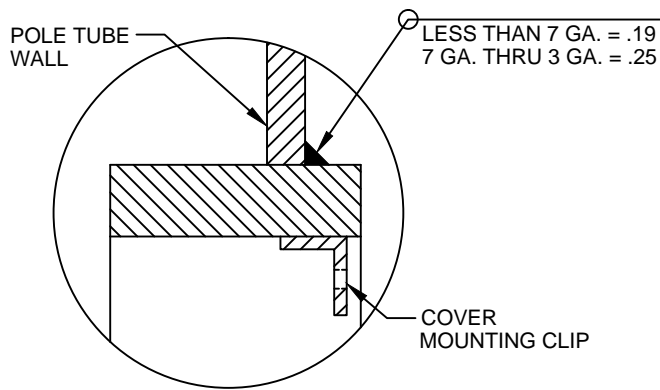
SHT 3 OF 7



BASE PLATE



HANDHOLE



SECTION A-A

STRAIN POLE

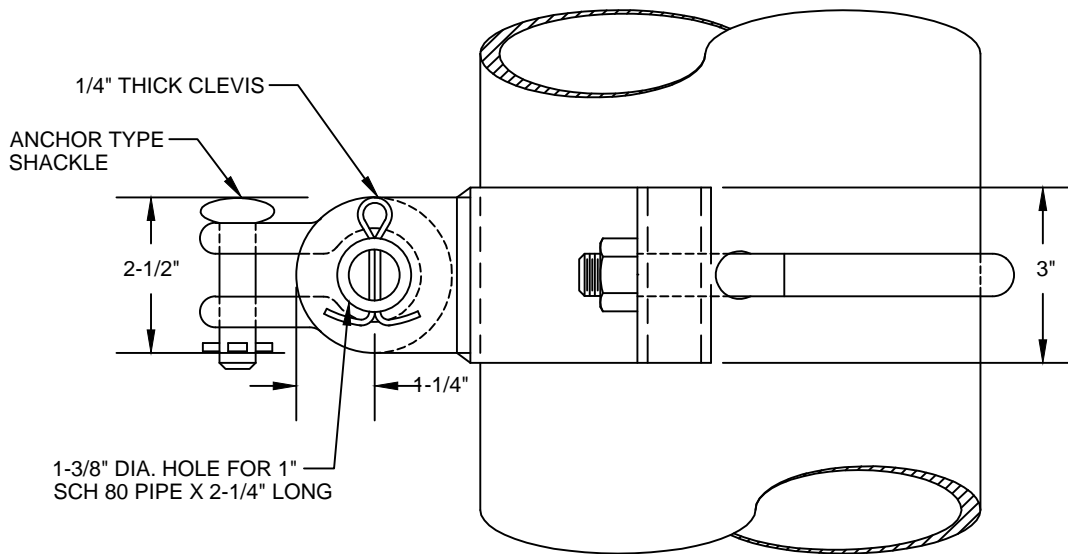
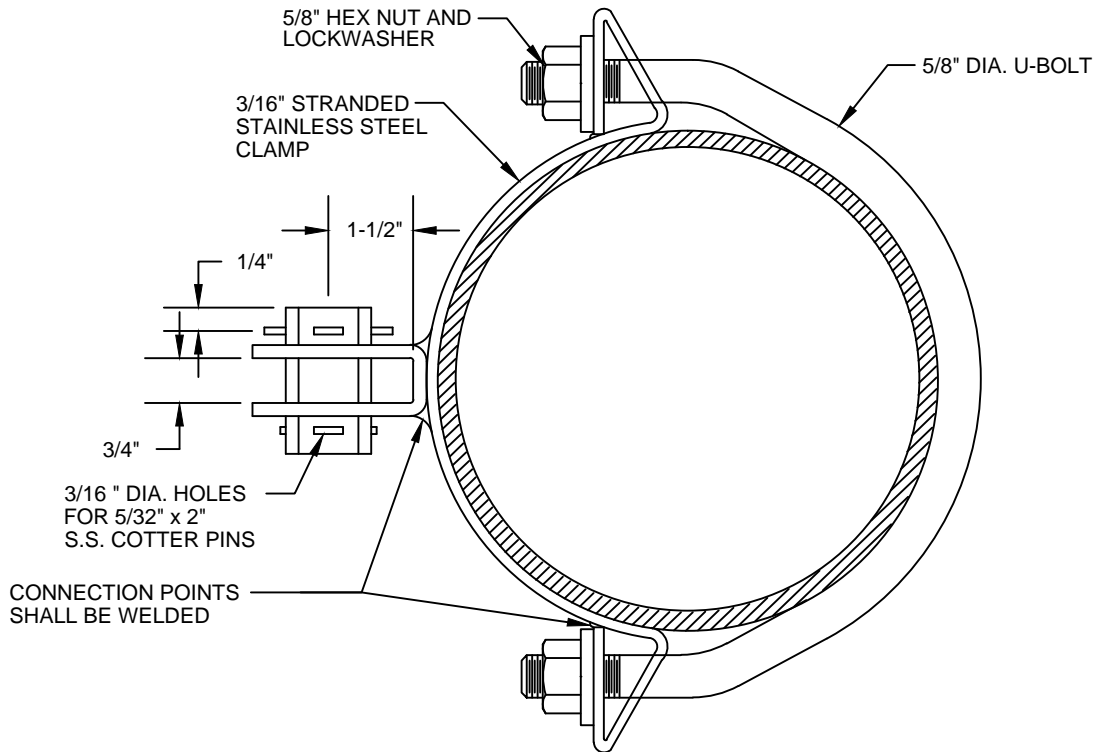
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SPAN WIRE CLAMP

STRAIN POLE

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ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.

| DESIGN NO. | BASE MOMENT AT YIELD (ft. kips) | TAPERED (NOTE A) | | TAPERED (NOTE B) | | | ANCHOR BASE | | | | | PLATE SKIRT | |
|------------|---------------------------------|------------------|---------------------|------------------|---------------------|-----------|-------------|---------|------|-----|-------|-------------|-------|
| | | BASE DIA. | MIN. WALL THICKNESS | BASE DIA. | MIN. WALL THICKNESS | NO. SIDES | BOLT CIRCLE | F | S | T | H | M | K |
| 5 | 121.0 | 12 | .239 | 12.00 | .239 | N/A | 16.0 | 11.3125 | 17.0 | 2.0 | 2.125 | 6.75 | 7.75 |
| 6 | 149.0 | 12 | .299 | 12.00 | .250 | 10 | 16.0 | 11.3125 | 17.0 | 2.0 | 2.125 | 6.75 | 7.75 |
| 7 | 176.0 | 13 | .299 | 13.00 | .250 | 12 | 18.0 | 12.7500 | 18.5 | 2.0 | 2.375 | 7.50 | 8.50 |
| 8 | 206.0 | 14 | .299 | 15.00 | .219 | 14 | 20.0 | 14.1250 | 20.5 | 2.0 | 2.375 | 7.50 | 8.50 |
| 9 | 228.0 | 12 | .478 (2 PLY) | 14.75 | .250 | 14 | 22.0 | 15.5000 | 23.0 | 2.5 | 2.375 | 7.50 | 8.50 |
| 10 | 270.0 | 13 | .478 (2 PLY) | 16.00 | .250 | 16 | 22.0 | 15.5000 | 23.0 | 2.5 | 2.625 | 8.00 | 9.00 |
| 11 | 316.0 | 14 | .478 (2 PLY) | 15.50 | .313 | 14 | 22.0 | 15.5000 | 23.0 | 2.5 | 2.625 | 8.00 | 9.00 |
| 12 | 385.0 | 14 | .598 (2 PLY) | 17.25 | .313 | 16 | 23.5 | 16.6250 | 24.5 | 2.5 | 2.875 | 8.75 | 9.75 |
| 13 | 590 ^C | 18 | .626 | 18.00 | .500 | 14 | 26.0 | 18.3800 | 30.0 | 3.5 | 3.375 | 10.75 | 11.75 |
| 14 | 900 ^C | 23 | .563 | 22.00 | .500 | 16 | 34.0 | 24.0400 | 36.5 | 3.5 | 3.375 | 10.75 | 11.75 |

NOTES:

- A. TAPERED TUBE SHALL BE STEEL WITH A MINIMUM OF 55,000 PSI YIELD STRESS AFTER GALVANIZING.
- B. DESIGN 5 SHALL BE ASTM A595M STEEL WITH A MINIMUM OF 55,000 PSI YIELD STRENGTH AFTER GALVANIZING. DESIGNS 6 THRU 14 SHALL BE ASTM A572M GRADE 55 OR 65 STEEL WITH A MINIMUM OF 55,000 OR 65,000 PSI YIELD STRENGTH AFTER GALVANIZING, RESPECTIVELY.
- C. MAX. DESIGN BASE MOMENT; DESIGN 13 AND 14 STRAIN POLES ARE AASHTO 1994 COMPLIANT.

STRAIN POLE

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NOTES:

1. SIGNAL CABLE ENTRANCE SHALL BE A 2" MINIMUM BLIND HALF COUPLING PROVIDED IN EACH POLE ON CORNERS WITHOUT CABINET. MINIMUM OF 3" BLIND HALF COUPLING ON CORNER WITH CABINET OR AS SPECIFIED ON THE PLANS.
2. SPAN WIRE CLAMP SHALL BE GALVANIZED STEEL, CAPABLE OF RESISTING A LOAD OF 12,500 POUNDS MINIMUM WITHOUT PERMANENT DISTORTION.
3. FOR FOUNDATION DETAILS, INCLUDING ANCHOR BOLT DETAILS, SEE CITY OF COLUMBUS STANDARD CONSTRUCTION DRAWING 4160.
4. THE BASE PLATE SHALL BE WELDED TO TWO PLY POLES WITH AWS PREQUALIFIED WELDS IN CONFORMANCE WITH 730.04.
5. A MINIMUM OF ONE FULL BOLT THREAD SHALL REMAIN ABOVE THE ANCHOR NUT.
6. ALL UNUSED COUPLINGS SHALL BE PROVIDED WITH A REMOVABLE GALVANIZED CAST IRON PLUG.
7. PROVIDE 1 OR 2 WELDED CABLE SUPPORT HOOKS ('J' OR 'C' HOOKS) LOCATED ON THE INSIDE OF THE POLE.
8. STRAIN POLES SHALL BE COATED IN ACCORDANCE WITH THE PLANS.
9. PROVIDE 1, 2 OR 3 HANDHOLES, AS PER PLAN DESIGN, EACH COMPLETE WITH A COVER, A RECTANGULAR OR ELLIPTICAL REINFORCED FRAME, AND A STAINLESS STEEL FASTENER FOR THE COVER. THE FASTENER SHALL BE FLUSH WITH THE HANDHOLE SURFACE. THE HANDHOLES SHALL BE LOCATED 180 DEGREES FROM THE RESULTANT FORCE UNLESS SPECIFIED OTHERWISE.
 - A.) THE HAND HOLE NEAR THE BRACKET ARM SHALL HAVE A MINIMUM INSIDE OPENING OF 3" X 5" AND BE SIMILAR IN DESIGN TO THE BOTTOM HAND HOLE EXCEPT THAT NO GROUNDING PROVISION IS REQUIRED.
 - B.) THE HAND HOLE NEAR THE SPAN WIRE ATTACHMENT POINT SHALL HAVE A MINIMUM INSIDE OPENING OF 4" X 6" AND BE SIMILAR IN DESIGN TO THE BOTTOM HAND HOLE EXCEPT THAT NO GROUNDING PROVISION IS REQUIRED.
 - C.) THE BOTTOM HAND HOLE SHALL HAVE A MINIMUM INSIDE OPENING OF 5" X 8". A GROUNDING PROVISION CAPABLE OF ACCEPTING 4 - #4 AWG COPPER GROUNDING WIRES SHALL BE PROVIDED AND SHALL BE ATTACHED TO THE FRAME.
10. PROVIDE A REMOVABLE POLE CAP ATTACHED EITHER BY A MINIMUM OF 3 STAINLESS STEEL SET SCREWS OR BY A STAINLESS STEEL THROUGH BOLT.
11. FOR BRACKET ARM DETAILS SEE CITY OF COLUMBUS STANDARD DRAWING 4110.

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