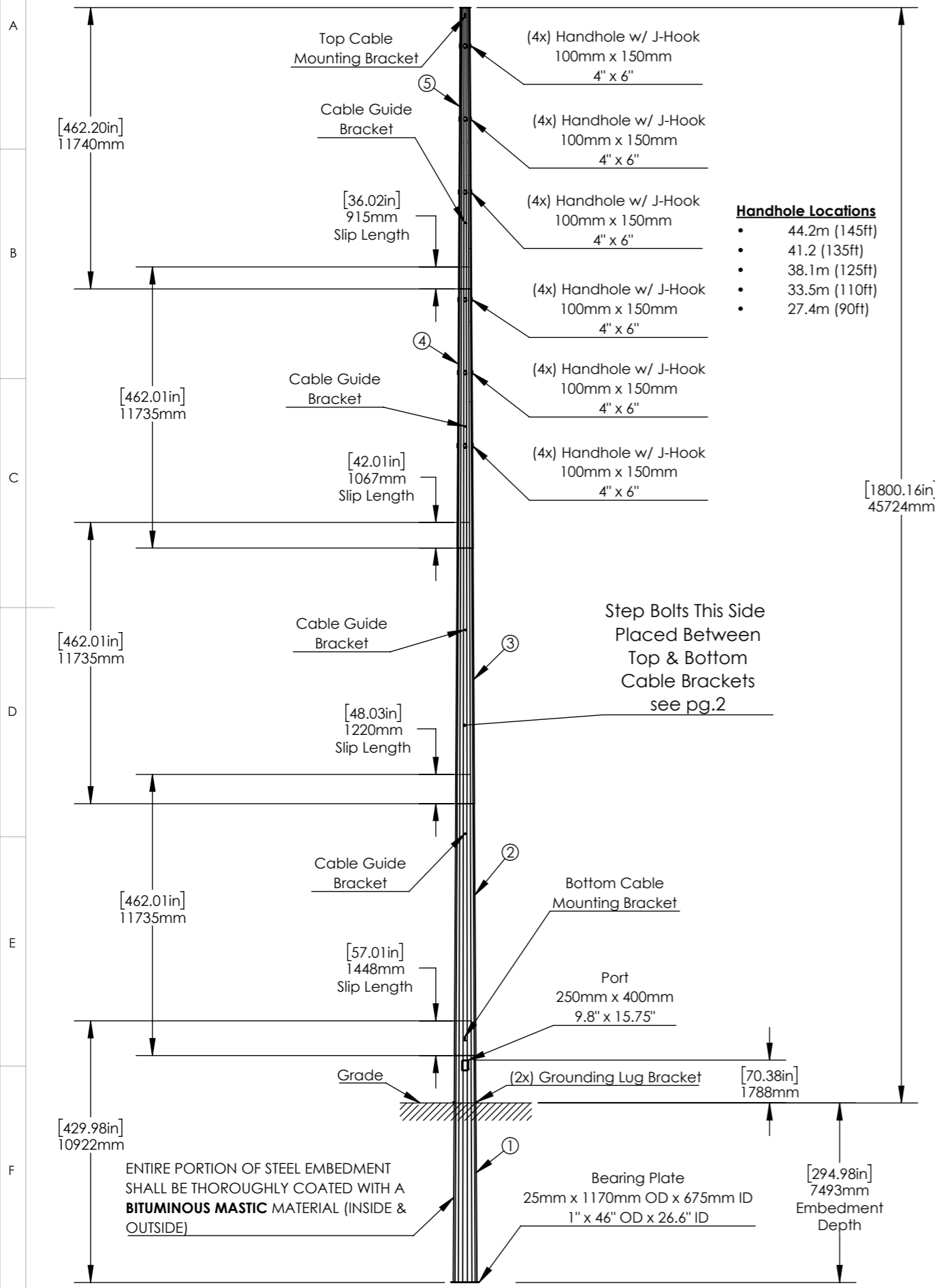


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	initial release	4/12/21	MGC
B			



- Handhole Locations**
- 44.2m (145ft)
 - 41.2 (135ft)
 - 38.1m (125ft)
 - 33.5m (110ft)
 - 27.4m (90ft)

- Survival Wind Speed: Per Local Code
 - Structure Class - Per Local Code
 - Topographic - Per Local Code
 - Exposure - Per Local Code
- Design and Welding Codes:
 - TIA-222-G
 - AWS D1.1
- Material (or equivalent)
 - Pole: Q355 (ASTM A572 GR50)
 - Bearing Plate: Q355 (ASTM A572 GR50)
 - Splice Plates/ Flanges: Q355 (ASTM A572 GR50)
- Finish: Hot dip Galvanizing per ASTM A123
- Pole has 16 sides
- Pole Section Details

Pole Section	#1	#2	#3	#4	#5
Thickness - (in)/ (mm)	0.3937/ 10	0.3937/ 10	0.315/ 8	0.236/ 6	0.197/5
Length - (ft)/ (m)	35.8/ 10.92	35.8/ 11.74	35.8/ 11.74	35.8/ 11.74	35.8/ 11.74
Top Dia. - (in)/ (mm)	25.4/ 864	29.8/ 758	25.4/ 646	20.75/ 527	16/ 405
Bottom Dia. - (in)/ (mm)	39.25/ 997	35.5/ 901	31.1/ 789	26.4/ 671	21.57/ 548
Min Slip - (in)/ (mm)		57/ 1448	48/ 1220	42/ 1067	36/ 915
Weight (lbs)/ (kg)	5874/ 2670	5324/ 2420	3683/ 1674	2334/ 1061	1575/ 716

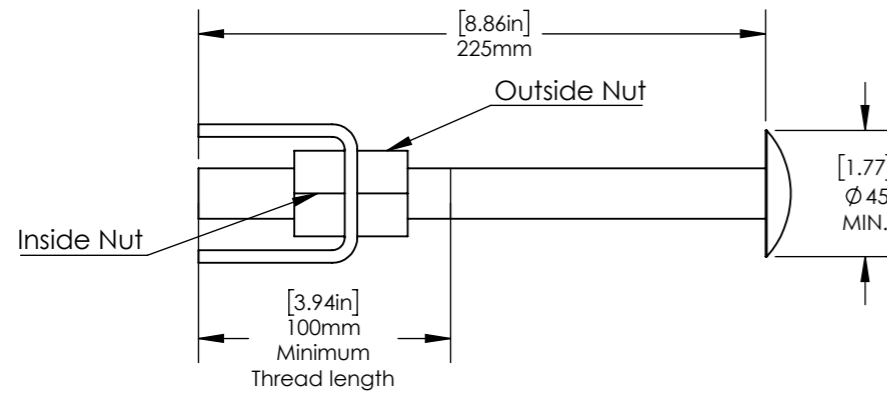
CAD-generated drawing do not manually update				1041 Grand Ave., #213 St. Paul, MN 55105 (651) 330-1263 www.aretelcom.com	
Total Weight 18788 lbs (8540 kg) Does not include fasteners		APPROVALS DRAWN MGC CHECKED RESP ENG MFG ENG QUAL ENG	DATE 4/12/21	45.7m 150ft DBSJ55 Pole	
MATERIAL See Notes FINISH See Notes DO NOT SCALE DRAWING		CAD file : Details and dimensions not shown on this drawing can be found in CAD file.		scale NA rev. A size NA sheet 1 of 3	

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#	DESCRIPTION (Optional Grade)	QTY	Weight (lb/ kg)
1	Clip - ASTM A572 GR 50 (Q345 or Q355)	*1	1.2/ 0.54
2	Step Bolt - M20x2.5 x 225mm - A449 (GR 8.8) HDG	*1	0.88/ 0.64
3	Heavy Hex Nut, M20x2.5 - A563 GR DH (GR 8.8) HDG	*2	0.224/ 0.11

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	initial release	10/12/20	MGC
B	Revised BOM bolt length to 225mm	11/2/20	MGC

CLIP-STEP BOLT

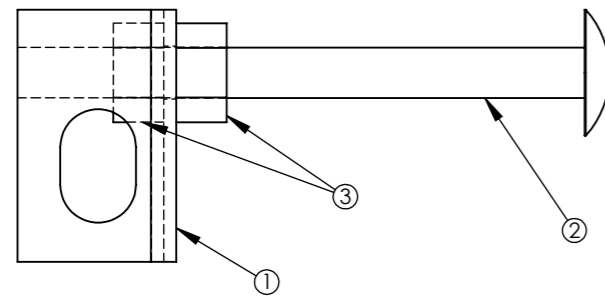


Fabrication Notes:

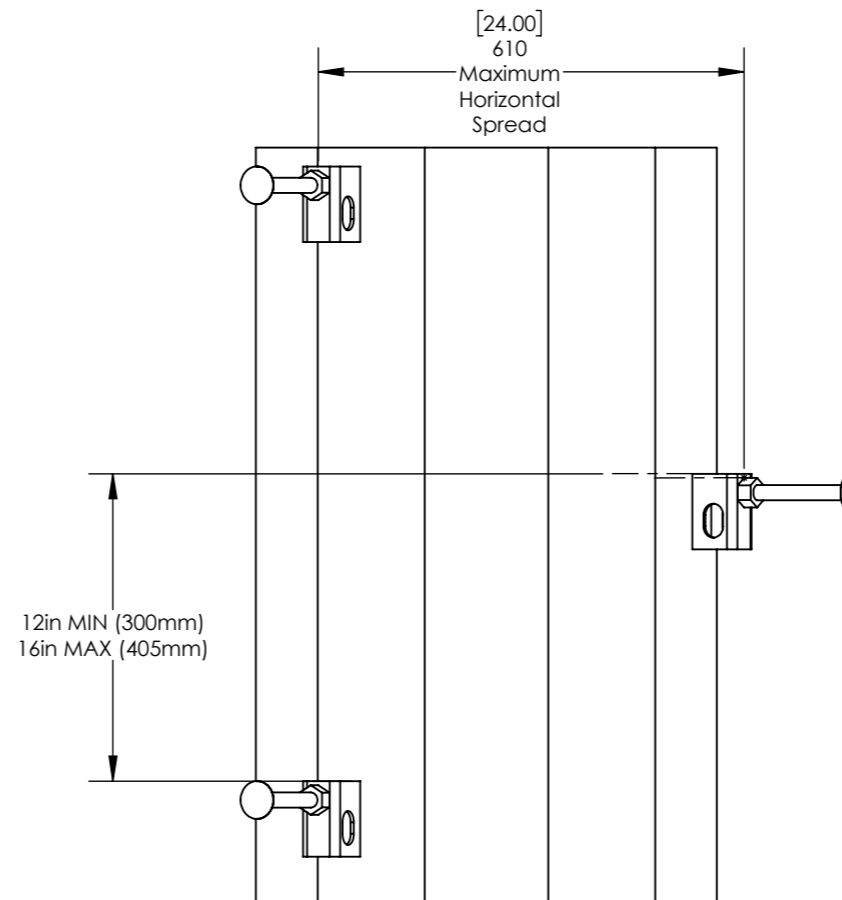
- *The number of Clips/ Step Bolts will vary based on height of pole and shall be equally spaced between the upper and lower cable mount brackets (see pg. 2).
- All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
- All welding shall conform to the minimum requirements of AWS D1.1
- All welding shall be done by welders qualified under AWS specifications, using E70XX, low hydrogen electrodes
- Hot Dip Galvanized in accordance with ASTM A123
- Debur all sharp edges

Installation Steps:

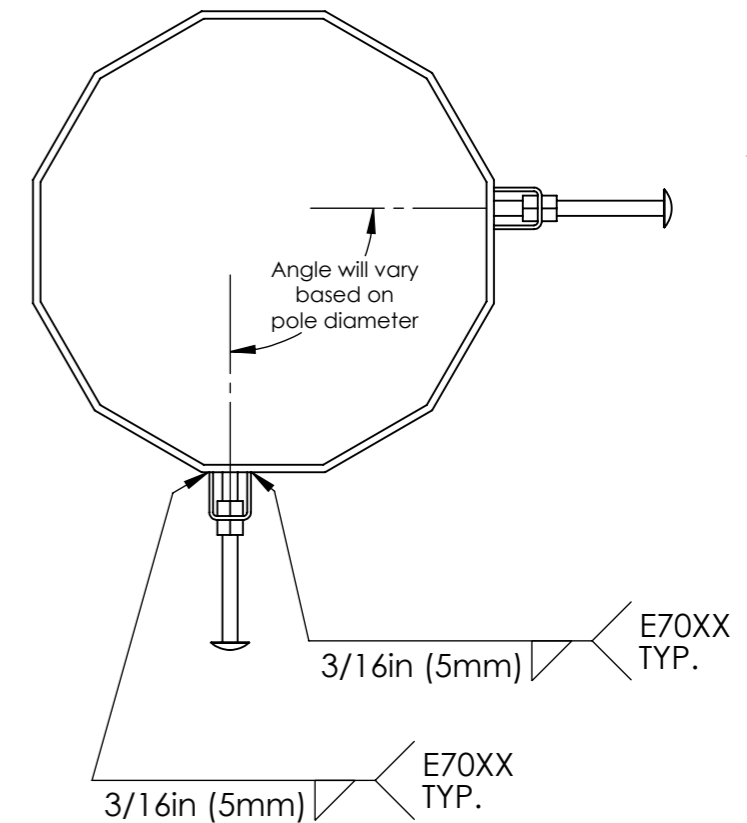
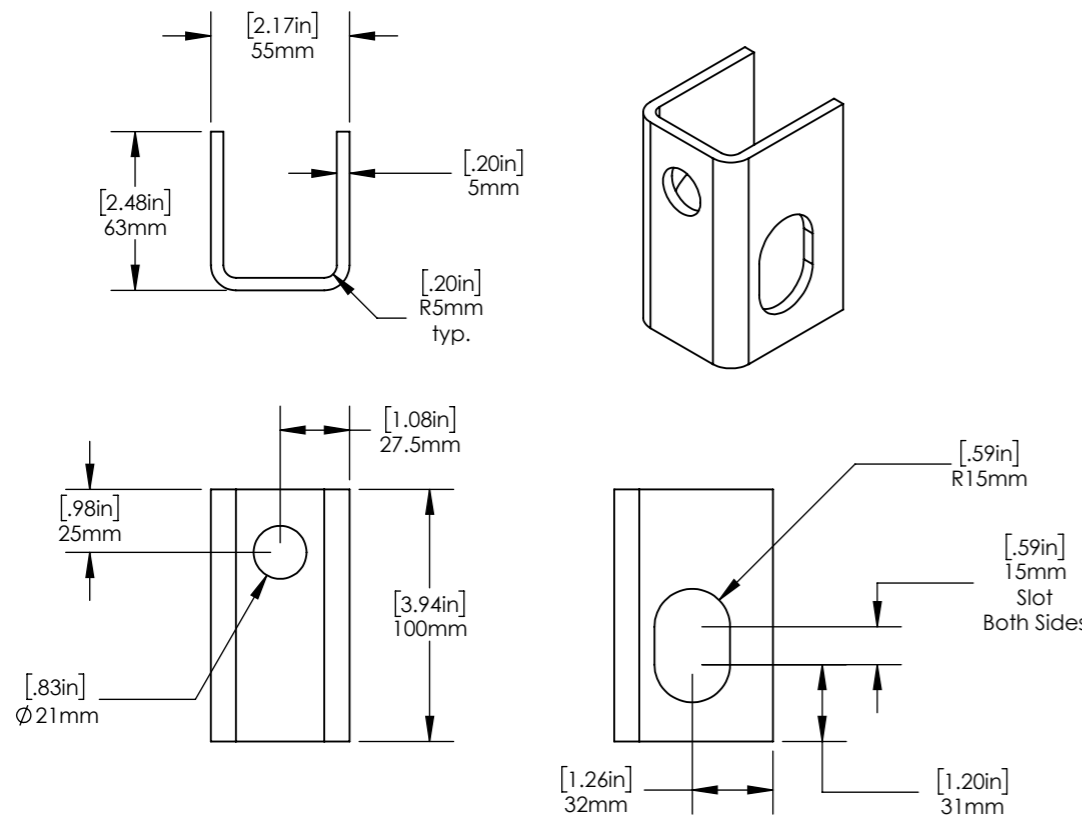
- Outside nut shall be turned to end of step bolt threads prior to installation.
- Step bolt shall be turned through inside nut until bolt makes snug contact with pole.
- Outside nut shall be snugged against clip then tightened 1/4 to 1/2 turn to achieve proper step bolt preload.



CLIP-STEP BOLT SPACING



CLIP



CAD-generated drawing do not manually update

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Total Weight	APPROVALS	DATE
3.1 lbs (1.41 kg)	DRAWN MGC	10/12/20
	CHECKED	
	RESP ENG	
MATERIAL See Notes	MFG ENG	
FINISH See Notes	QUAL ENG	
DO NOT SCALE DRAWING		

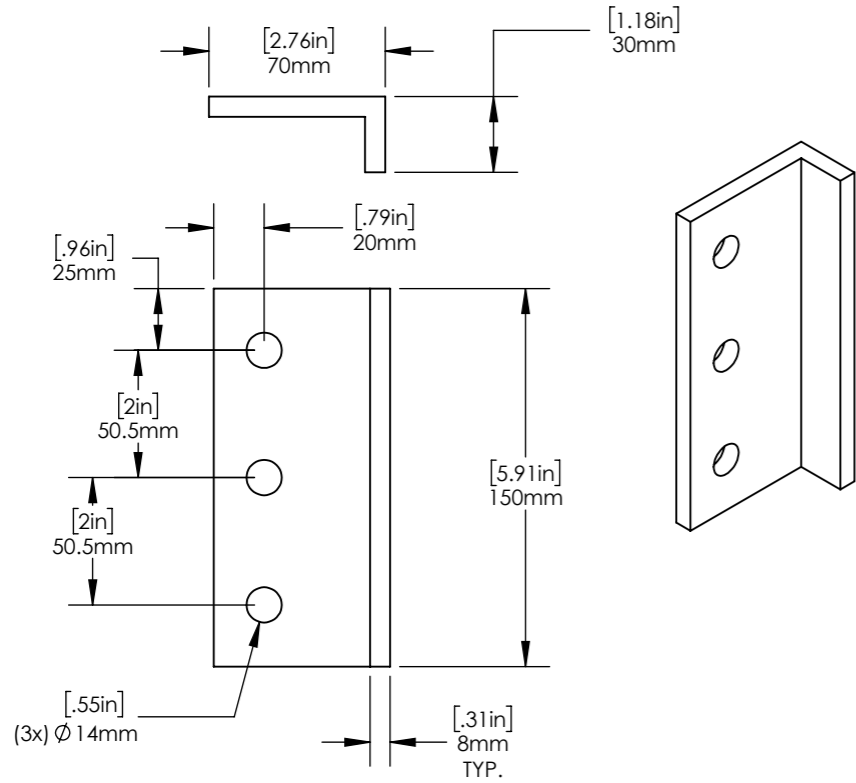
CAD file : Details and dimensions not shown on this drawing can be found in CAD file.

Step Bolt/ Clip

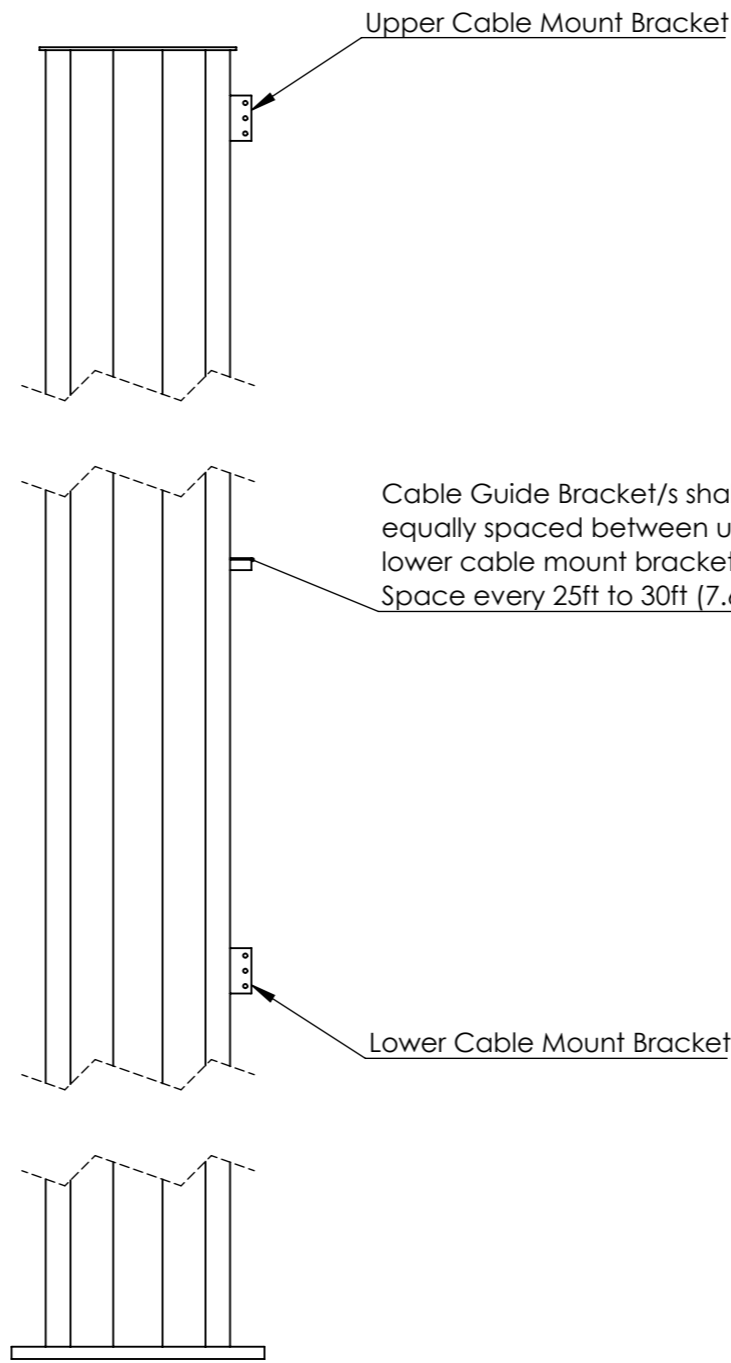
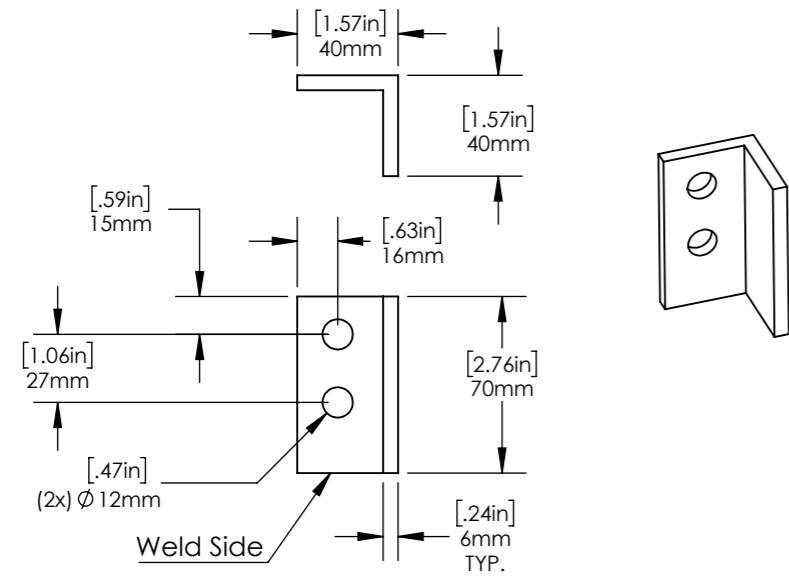
scale NA rev. B size NA sheet 2 of 3

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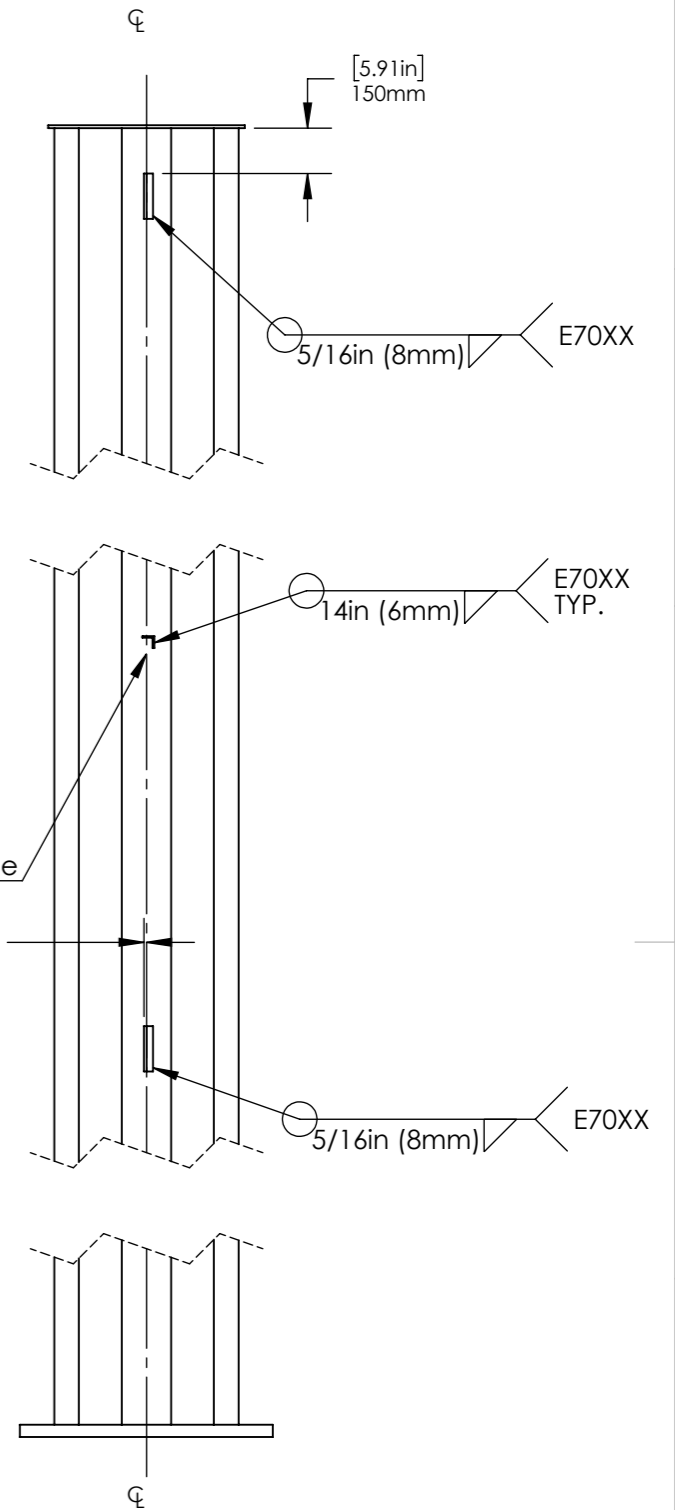
Cable Mount Bracket



Cable Guide Bracket



Align mounting holes with center line of pole



Fabrication Notes:

- *The number of cable guides will vary based on height of pole and shall be equally spaced between the upper and lower cable mount brackets.
- All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
- All welding shall conform to the minimum requirements of AWS D1.1
- All welding shall be done by welders qualified under AWS specifications, using E70XX, low hydrogen electrodes
- Hot Dip Galvanized in accordance with ASTM A123
- Debur all sharp edges

#	DESCRIPTION (Optional Grade)	QTY	Weight lb/ kg
1	Cable Mount Bracket-ASTM A572 GR 50 (Q345 or Q355)	2	1.85/ 0.84
2	Cable Guide Bracket-ASTM A572 GR 50 (Q345 or Q355)	*1 or more	0.51/ 0.23

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Cable Mount/ Guide Brackets

Part #
scale NA rev. B size NA sheet 3 of 3