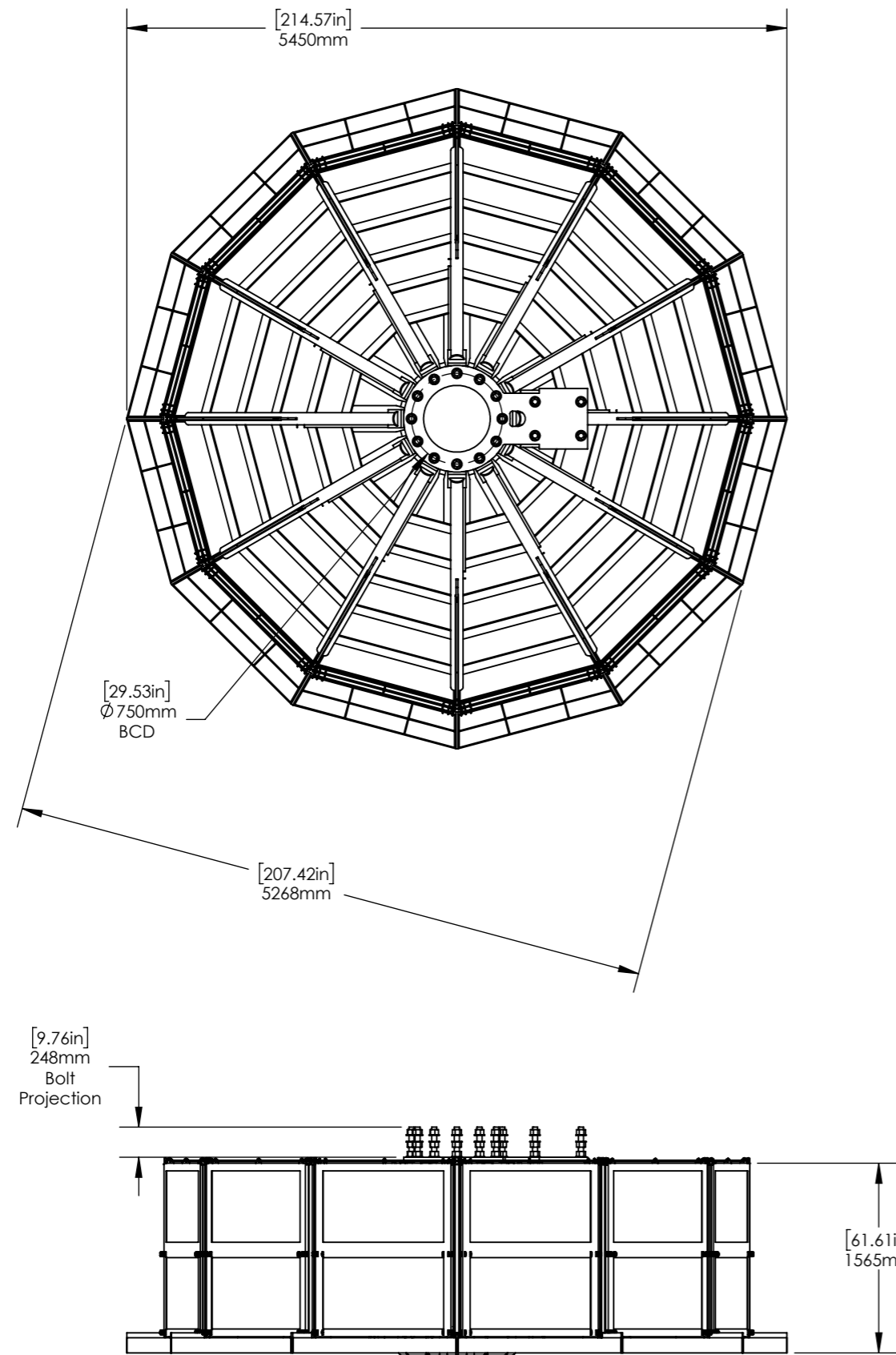


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	initial release	1/20/21	MGC
B			

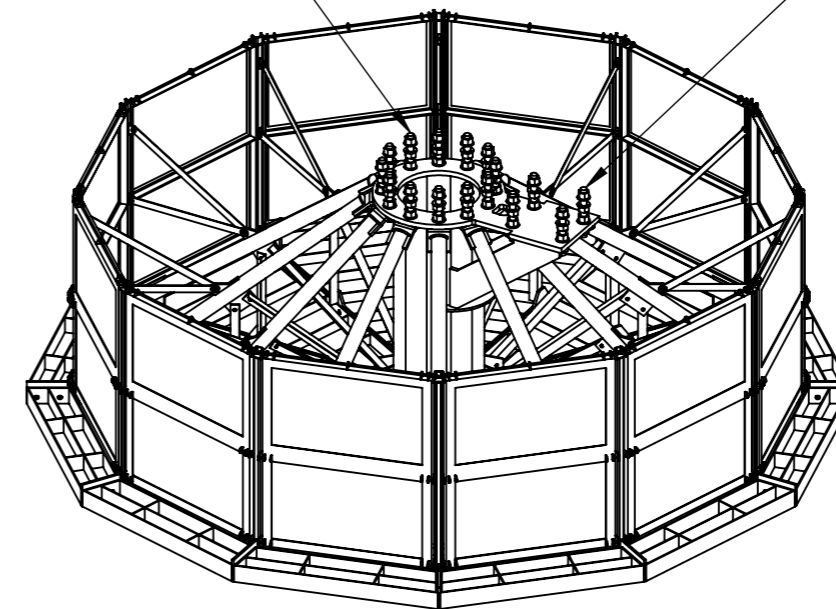


Ballast

- Backfill / Ballast Material – Bulk Dry Density shall be **2700 lb/ yd3 (16 kN/m3)**
- Maximum Ballast Volume - **35.5 yd3 (27 m3)**
- Steel Structure Self Weight
 - Foundation - **10890 lb (4950 kg)**

(12x) M42 Anchor Bolts

(4x) M42 Cylinder Bracket Bolts



CAD-generated drawing do not manually update

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Total Weight
10890 lbs (4950 kg)
Does not include fasteners

APPROVALS		DATE
DRAWN	MGC	1/20/21
CHECKED		
MATERIAL	See Notes	RESP ENG
FINISH	See Notes	MFG ENG
DO NOT SCALE DRAWING		QUAL ENG

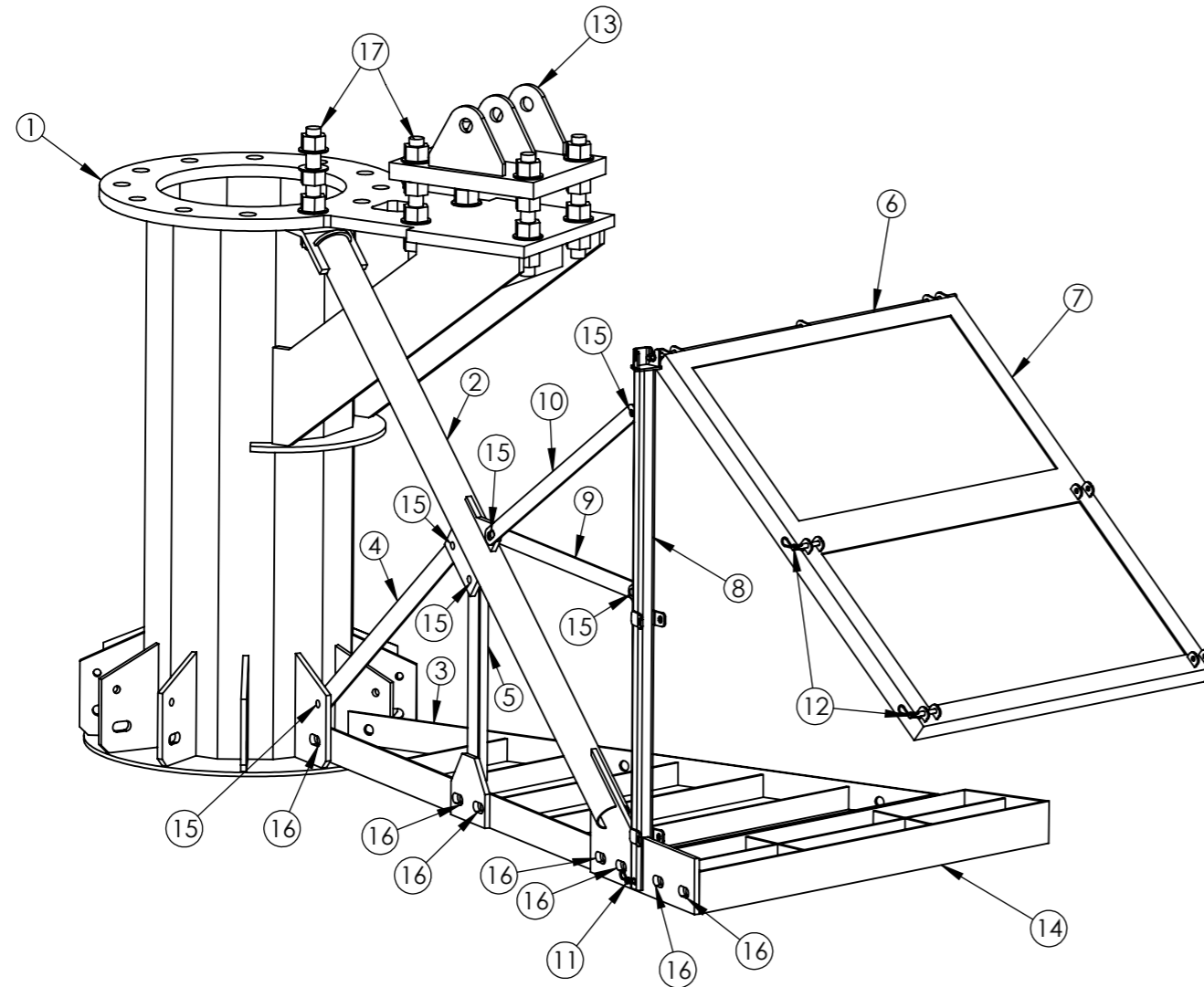
CAD file :
Details and dimensions not shown on this drawing can be found in CAD file.

AFS1300

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AFS1300 Bill of Materials

#	Description	Qty	Weight ea. kg/ (lb)
1	Kingpost	1	628/ 1382
2	Upper Chord	12	49/ 108
3	Base Tray Segment	12	133/ 293
4	Diagonal Web	12	5.5/ 12.1
5	Vertical Web w/ gusset plate	12	7/ 15.4
6	Hinge Rod (M12 (1/2-13)) w/ (4x) Nuts & Washers	12	1.2/ 2.64
7	Sidewall (Hinged)	12	69/ 152
8	Vertical Hinge Post	12	12/ 26.5
9	Horizontal Brace	12	1.72/ 3.8
10	Diagonal Brace	12	2/ 4.4
11	Clevis & Cotter 12mm X 75mm (1/2" x 3")	12	0.11/ 0.24
12	Clevis & Cotter 12mm X 115mm (1/2" x 4.5")	48	0.12/ 0.27
13	Hydraulic Cylinder Bracket	1	87/ 191.4
14	Outer Bearing Tray	12	61/ 134.2



Notes:

- All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
- Tube shall be 102mm x 4mm GR. Q345 (4.5" x 0.25" ASTM A500 Gr B)
- All right angles shall be Q345 (ASTM A572 Gr 50) or equivalent
- 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
- All components shall Hot Dip Galvanized in accordance with ASTM A123
- Debur all sharp edges

AFS1300 Bolts, Nuts & Washers (other equivalent grades acceptable)

#	Unit	Bolt Size	Length	Width Across Flats	Thread Length	Grade	Coating	Nut Qty.	Washer Qty.	Bolt Qty.
15	Metric	M20x2.5	65mm	30mm	Full Thread	8.8	Hot Dip Galv.	72	144	72
15	Imperial	3/4-10	2.5"	1 1/8"	Full Thread	A325	Hot Dip Galv.	72	144	72
16	Metric	M24x3	75mm	36mm	Full Thread	8.8	Hot Dip Galv.	84	168	84
16	Imperial	1-8	3"	1-1/2"	Full Thread	A325	Hot Dip Galv.	84	168	84
17	Metric	M42x4	300mm	65mm	300mm	8.8	Hot Dip Galv.	48	64	16
17	Imperial	1 3/4-5	12"	2.625"	12"	A325	Hot Dip Galv.	48	64	16

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AFS1300 BOM

Part #

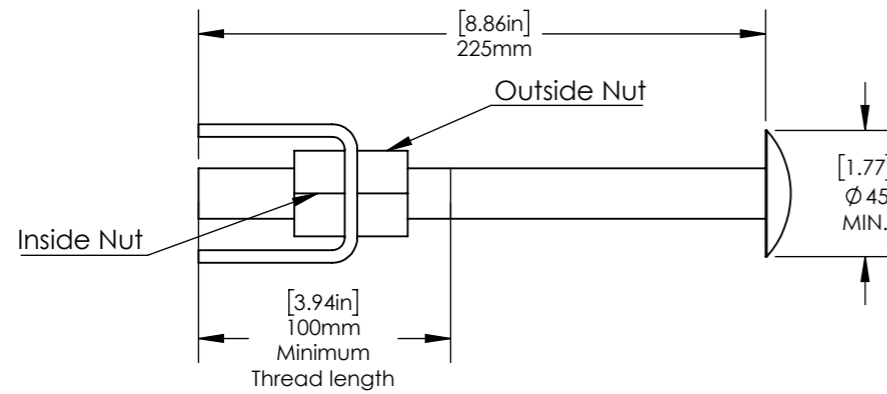
scale NA rev. A size NA sheet 4 of 6

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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

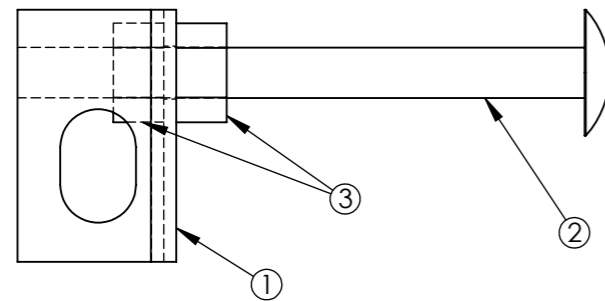


Fabrication Notes:

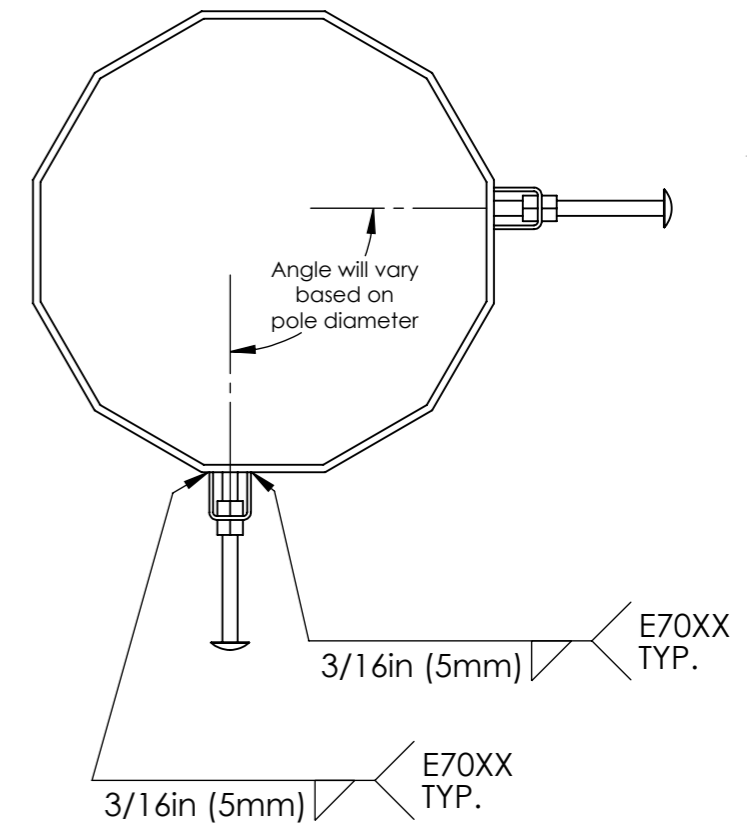
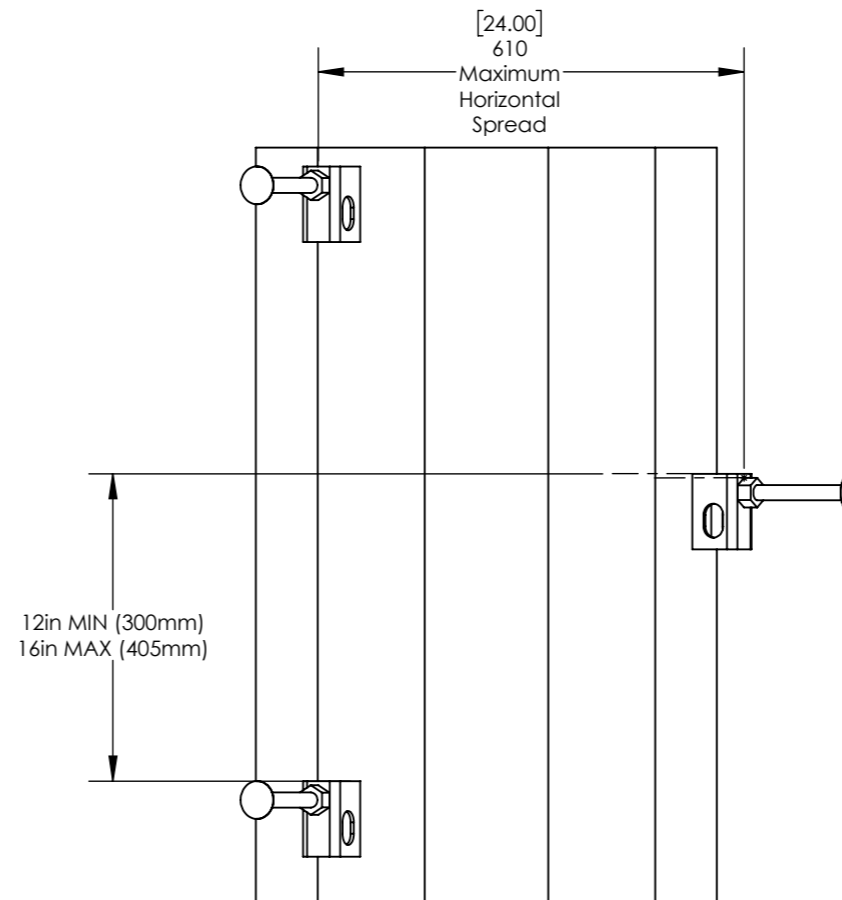
- *The number of Clips/ Step Bolts will vary based on height of pole and shall be equally spaced between the upper and lower cable mount brackets (see pg. 2).
- All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
- All welding shall conform to the minimum requirements of AWS D1.1
- 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:

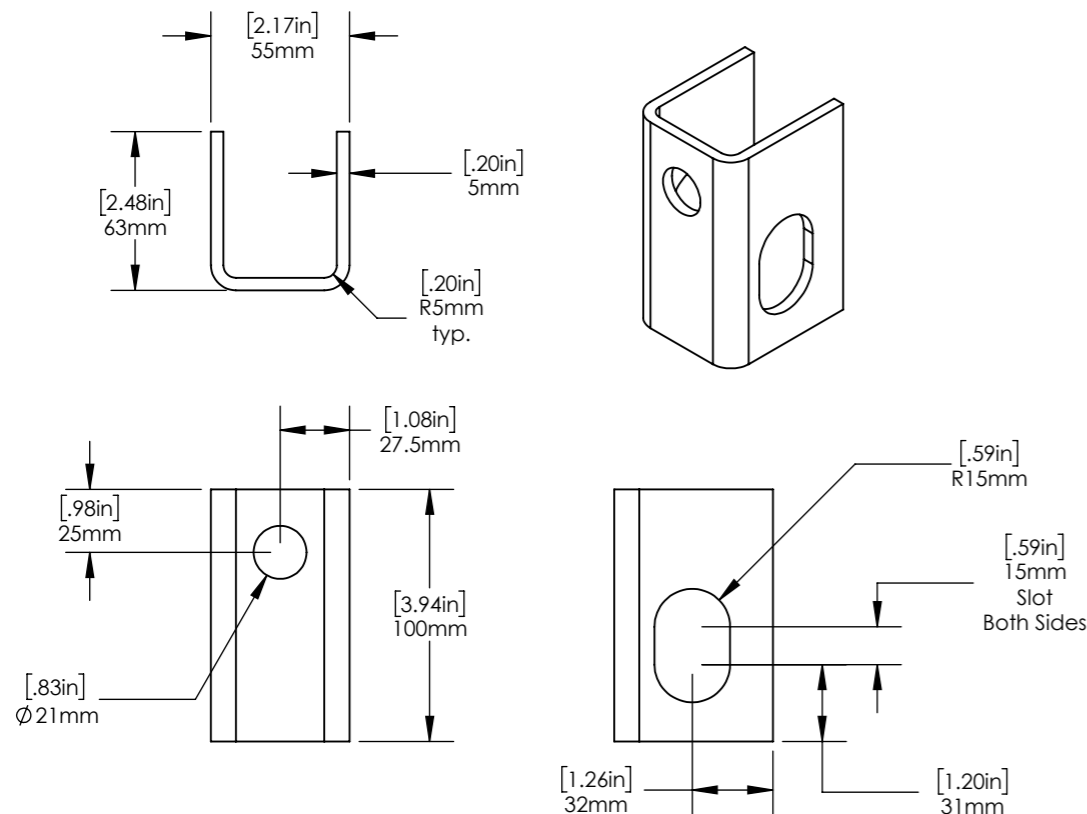
- Outside nut shall be turned to end of step bolt threads prior to installation.
- Step bolt shall be turned through inside nut until bolt makes snug contact with pole.
- Outside nut shall be snugged against clip then tightened 1/4 to 1/2 turn to achieve proper step bolt preload.



CLIP-STEP BOLT SPACING



CLIP



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

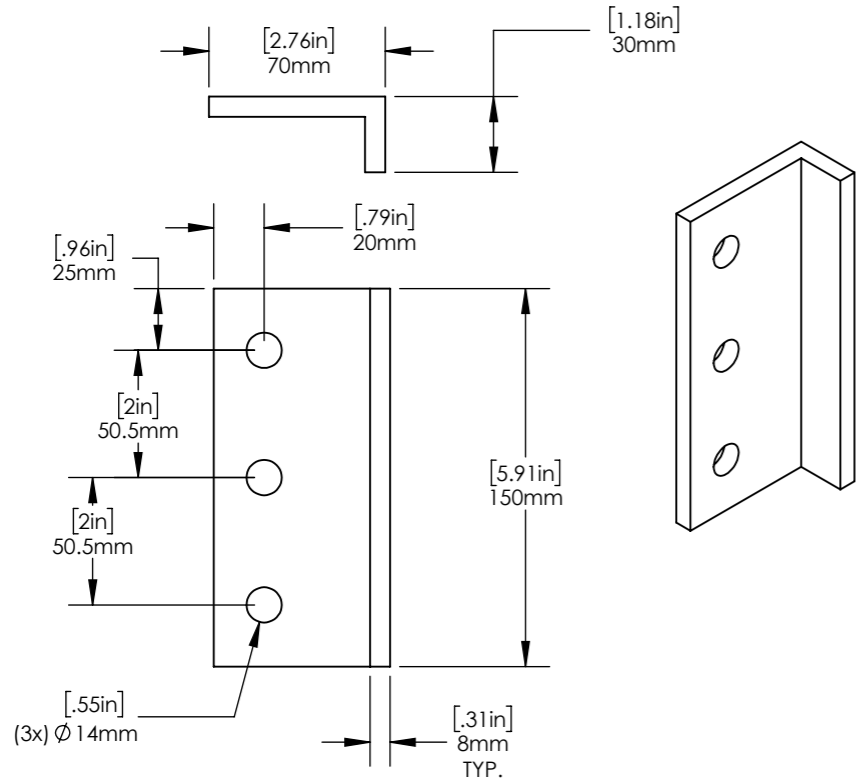
Step Bolt/ Clip

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

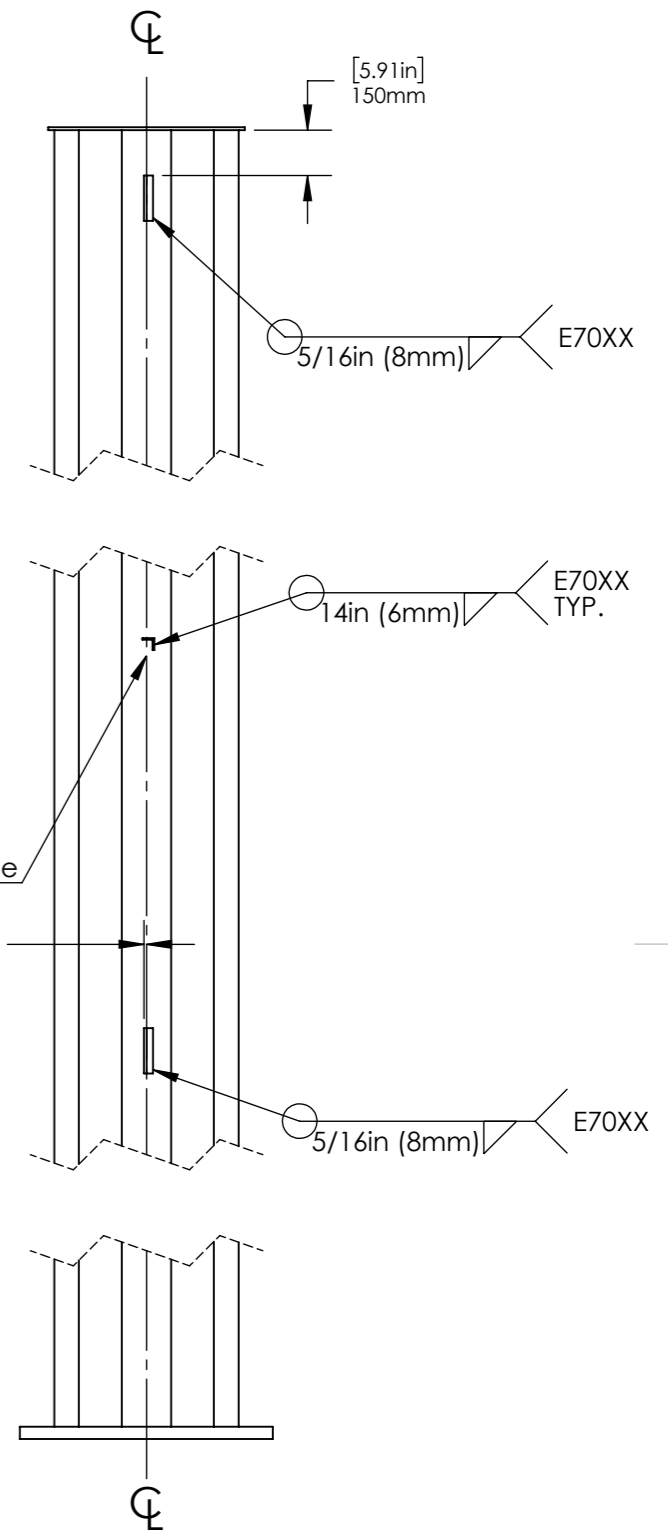
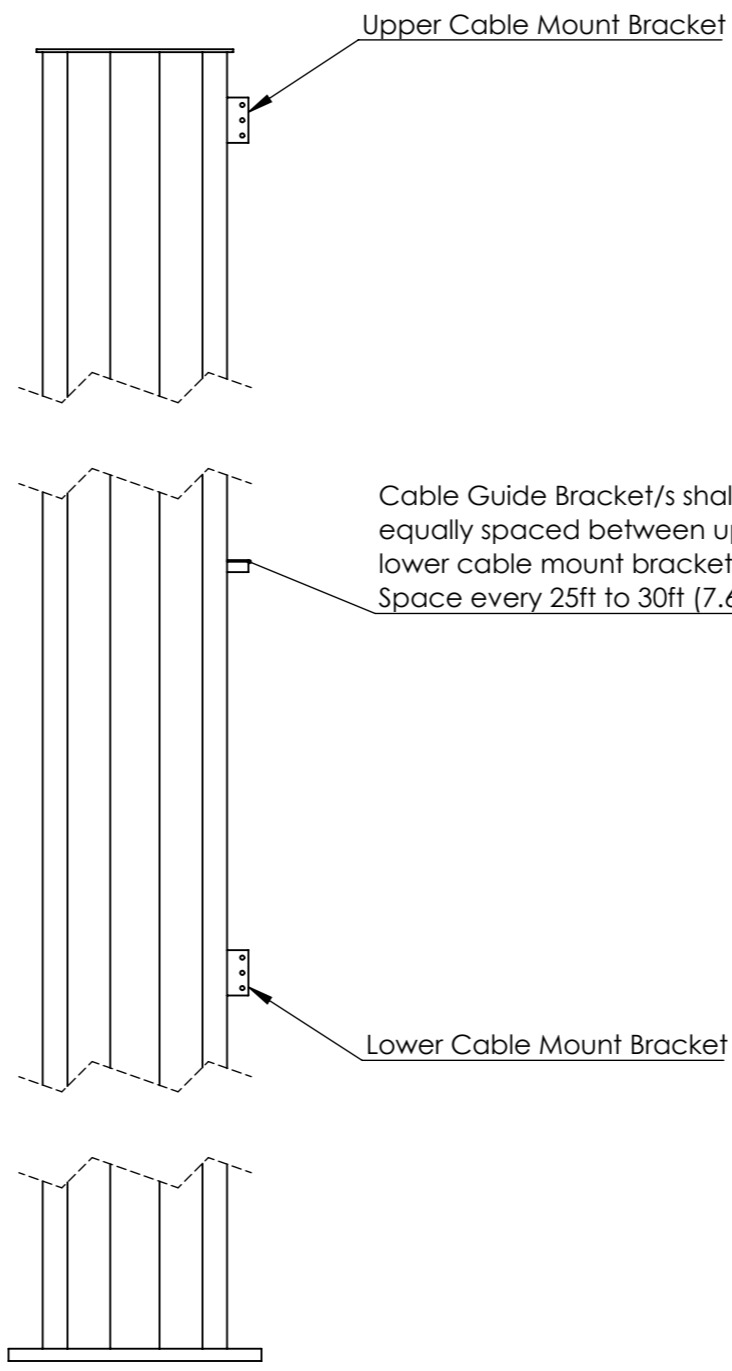
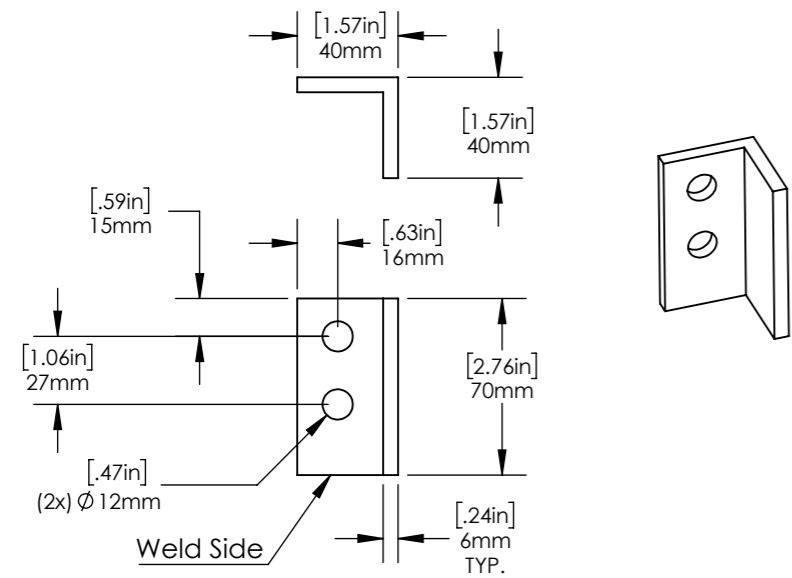
scale NA rev. B size NA sheet 5 of 6

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Cable Mount Bracket



Cable Guide Bracket



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 6 of 6