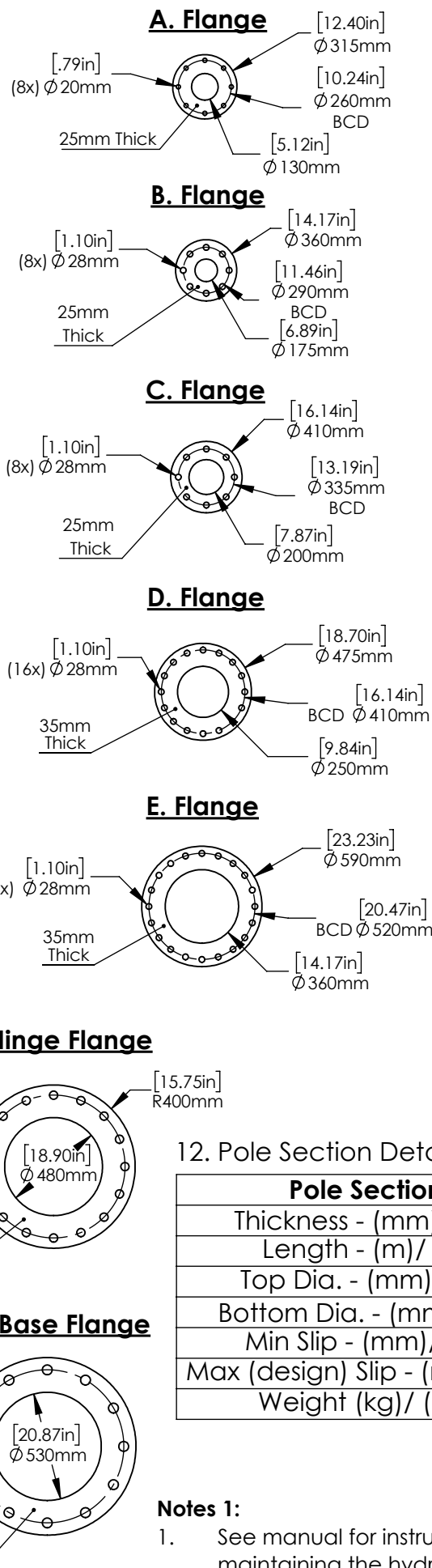


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	initial release	1/20/21	MGC
B	Increased base flange thickness to 25mm	2/1/21	MGC
C			



Pole Section	#1	#2	#3	#4	#5	#6
Thickness - (mm)/ (in)	10/ 0.3937	10/ 0.3937	8/ 0.315	5/ 0.197	5/ 0.197	5/ 0.197
Length - (m)/ (ft)	1.8/ 5.9	6.166/20.23	5.76/ 18.9	5.785/ 18.98	3.1/ 10.17	3.09/ 10.1
Top Dia. - (mm)/ (in)	585/23.03	485.5/ 19.1	393/ 15.47	300/ 11.8	251/ 9.88	202/ 7.95
Bottom Dia. - (mm)/ (in)	612/ 24.1	583/ 22.95	484.5/19.1	392/ 15.43	300/ 11.8	251/ 9.88
Min Slip - (mm)/ (in)		NA	NA	NA	NA	NA
Max (design) Slip - (mm)/ (in)		NA	NA	NA	NA	NA
Weight (kg)/ (lbs)	581/ 1278	1099/ 2418	608/ 1338	329/ 724	141/ 310	122.5/ 270


1. See manual for instruction on operating and maintaining the hydraulic raising/ lowering system.

1. Survival Wind Speed: Per Local Code
 - Structure Class - Per Local Code
 - Topographic - Per Local Code
 - Exposure - Per Local Code
2. Design and Welding Codes:
 - TIA-222-G (DS1)
 - AWS D1.1
3. Material (or Equivalent)
 - Pole: ASTM A572 GR60 (Q420)
 - Baseplate: ASTM A572 GR50 (Q355)
 - Top/ Hinge Flange: ASTM A572 GR50 (Q355)
5. Pole has 12 sides
6. Finish: Hot dip Galvanizing per ASTM A123
7. Flange (B) Bolts: (16x) 1-8 x 4in - A325 (full thread)
 - Optional (M24x3) 100mm GR 8.8
 - Galv. per ASTM F2329
 - (1x) Nut, (2x) Washer (ea.)
8. Flange (D & C) Bolts: (36x) 1-8 x 4.5in - A325 (full thread)
 - Optional (M24x3 x 115mm GR 8.8)
 - Galv. per ASTM F2329
 - (1x) Nut, (2x) Washer (ea.)
9. Hinge Flange (E) Bolts: (28x) 1.5-6 x 6in - A325 (full thread)
 - Optional (M36x3.5 x 150mm GR 8.8)
 - Galv. per ASTM F2329
 - (1x) Nut, (2x) Washer (ea.)
10. Rod End Bracket Bolts: (6x) 1-8 x 3in - A325 (full thread)
 - Optional (M24x3 x 75mm GR 8.8)
 - Galv. per ASTM F2329
 - (1x) Nut, (2x) Washer (ea.)
11. Anchor Bolts: (16X) 1.75-6 x 12in - ASTM F1554 GR55
 - Optional (M42x4.5 x 300mm GR 8.8)
 - Galv. per ASTM F2329

China Patent # ZL201490000869.X

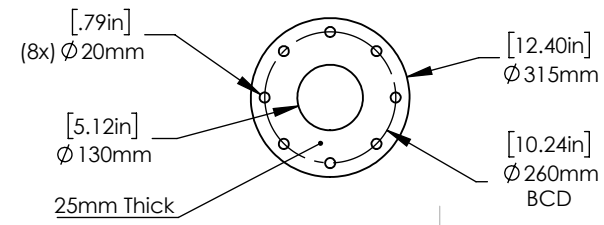
APPROVALS		DATE
DRAWN	MGC	1/20/21
CHECKED		
RESP ENG		
MFG ENG		
QUAL ENG		

27.45m 6SF Hyd Pole
AFS1300

CAD file :					
Details and dimensions not shown on this drawing can be found in CAD file.					
scale NA	rev. B	size NA	sheet 1	of 6	



F

1000

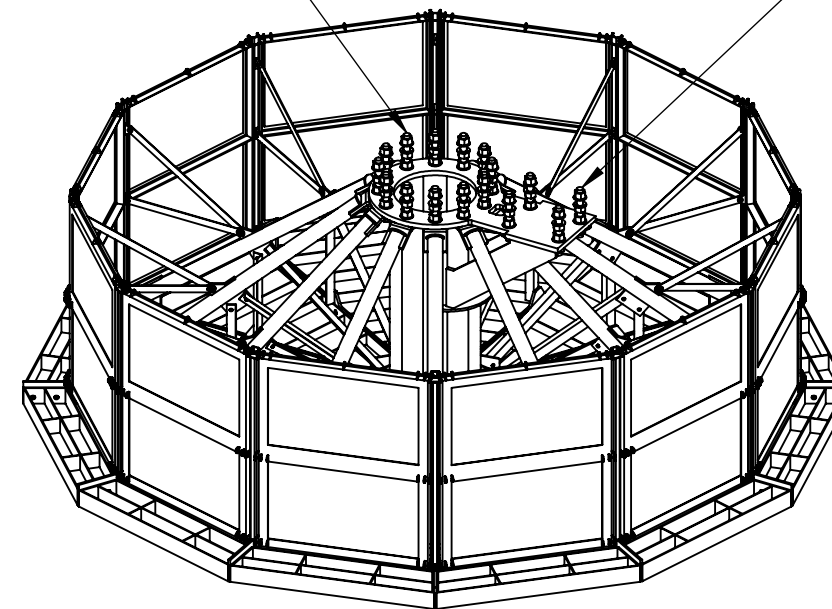





- ## 7. Pole Section Details

Pole Section	#7
Thickness - (mm)/ (in)	5/ 0.197
Length - (m)/ (ft)	3.07/ 10
Top Dia. - (mm)/ (in)	153/ 5.98
Bottom Dia. - (mm)/ (in)	202/ 7.95
Min Slip - (mm)/ (in)	NA
Max (design) Slip - (mm)/ (in)	NA
Weight (kg)/ (lbs)	83.1/ 183

Total Weight		CAD-generated drawing do not manually update		 1041 Grand Ave., #213 St. Paul, MN 55105 (651) 330-1263 www.aretelcom.com
Does not include fasteners		APPROVALS	DATE	
		DRAWN MGC	1/20/21	Optional 3.07m - 10ft Pole Section AFS1300
		CHECKED		
MATERIAL	See Notes	RESP ENG		CAD file :
FINISH	See Notes	MFG ENG		Details and dimensions not shown on this drawing can be found in CAD file.
DO NOT SCALE DRAWING		QUAL ENG		scale NA rev. B size NA sheet 2 of 6 

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



CAD-generated drawing do not manually update		 ARE <small>ILLUSTRATION & PHOTOGRAPHY</small>		1041 Grand Ave., #213 St. Paul, MN 55105 (651) 330-1263 www.aretelecom.com	
Total Weight 10890 lbs (4950 kg) Does not include fasteners		APPROVALS DRAWN MGC CHECKED RESP ENG		DATE 1/20/21	
MATERIAL See Notes FINISH See Notes		MFG ENG		AFS1300	
DO NOT SCALE DRAWING		QUAL ENG		CAD file : Details and dimensions not shown on this drawing can be found in CAD file.	
				 	
				scale NA rev. A size NA sheet 3 of 6	

1. All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
2. Tube shall be 102mm x 4mm GR. Q345 (4.5" x 0.25" ASTM A500 Gr B)
3. All right angles shall be Q345 (ASTM A572 Gr 50) or equivalent
4. All welding shall conform to the minimum requirements of AWS D1.1
5. All welding shall be done by welders qualified under AWS specifications, using E80XX, low hydrogen electrodes
6. All components shall Hot Dip Galvanized in accordance with ASTM A123
7. Debur all sharp edges

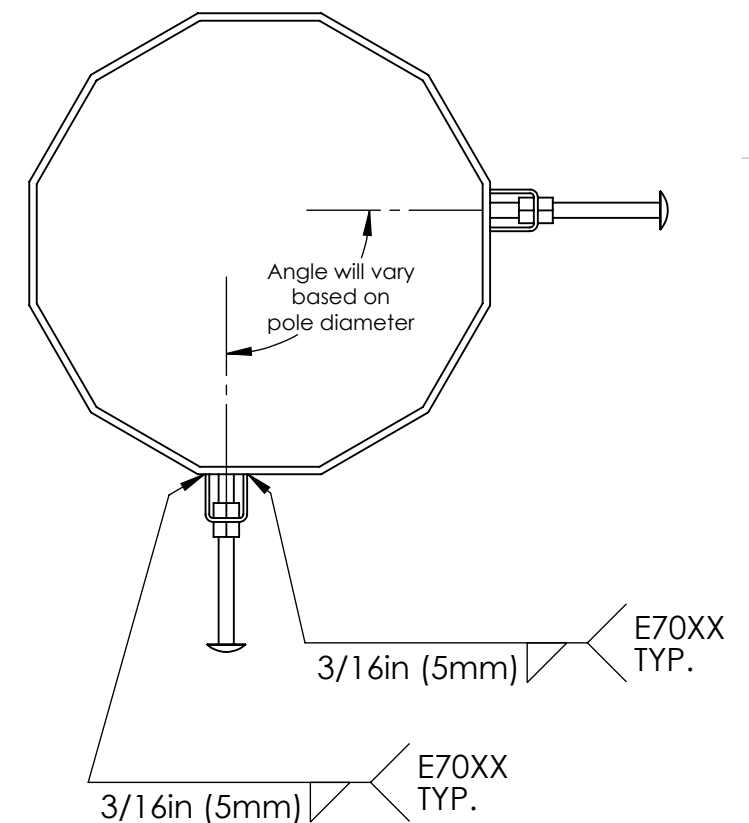
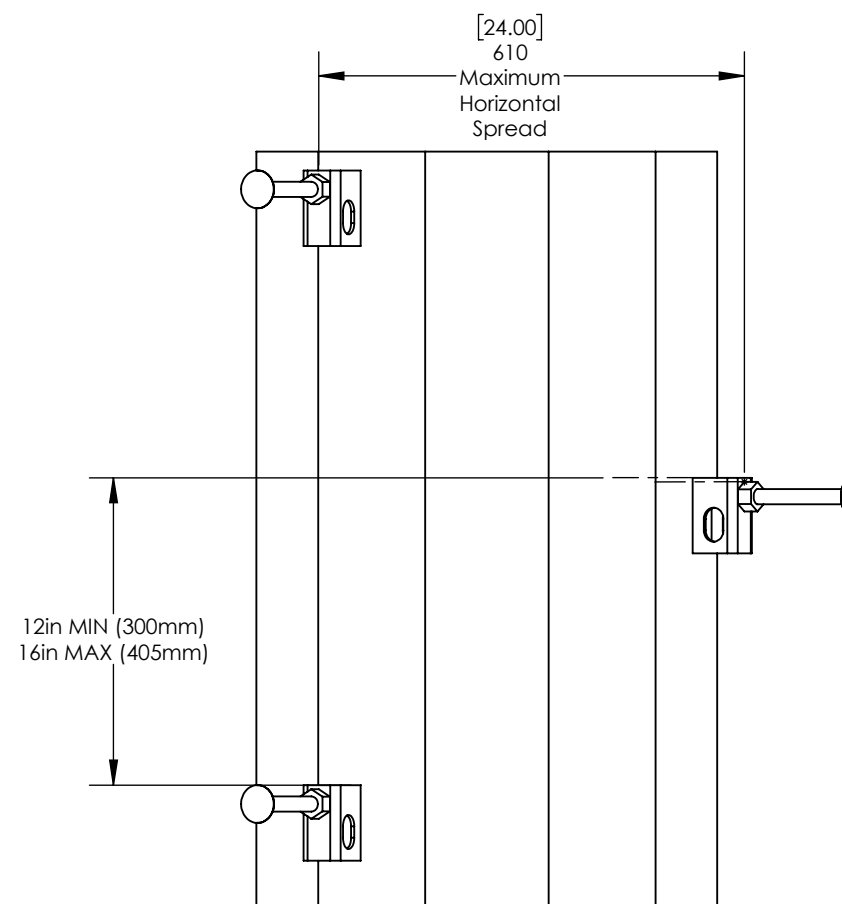
F

A diagram of a simple microscope. It shows a large eye on the right, looking through a convex lens (labeled 2). To the left of the lens is a small rectangular object (labeled 3). Further to the left is a larger rectangular block (labeled 1) containing a circular opening. Dashed lines indicate the optical path from the object through the lens into the eye.

Technical drawing of a U-shaped bracket. The front view shows a U-shaped profile with the following dimensions:

- Overall width: $[2.17\text{in}]$ 55mm
- Overall height: $[2.48\text{in}]$ 63mm
- Inner width: $[.20\text{in}]$ 5mm
- Inner radius: $[.20\text{in}]$ R5mm typ.


A perspective view of the bracket is shown to the right, highlighting its three-dimensional structure and the circular cutouts on the vertical legs.



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

1. *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).
2. All plate material shall have a minimum yield strength of 345 MPa (50 ksi)
3. All welding shall conform to the minimum requirements of AWS D1.1
4. All welding shall be done by welders qualified under AWS specifications, using E70XX, low hydrogen electrodes
5. Hot Dip Galvanized in accordance with ASTM A123
6. Debur all sharp edges

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

<p>CAD-generated drawing do not manually update</p>				<p>1041 Grand Ave., #213 St. Paul, MN 55105 (651) 330-1263 www.aretelecom.com</p>	
		<p>RELEASED & UNCLASSIFIED</p>			
<p>Total Weight 3.1 lbs (1.41 kg)</p>		<p>APPROVALS</p>		<p>DATE</p>	
		<p>DRAWN MGC</p>		<p>10/12/20</p>	
<p>MATERIAL See Notes</p>		<p>CHECKED</p>		<p>Step Bolt/ Clip</p>	
		<p>RESP ENG</p>			
<p>FINISH See Notes</p>		<p>MFG ENG</p>		<p>CAD file :</p>	
<p>DO NOT SCALE DRAWING</p>		<p>QUAL ENG</p>		<p>Details and dimensions not shown on this drawing can be found in CAD file.</p>	
				<p>scale NA rev. B size NA sheet 5 of 6</p>	

scale NA	rev. B	size NA	sheet 6 of 6
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