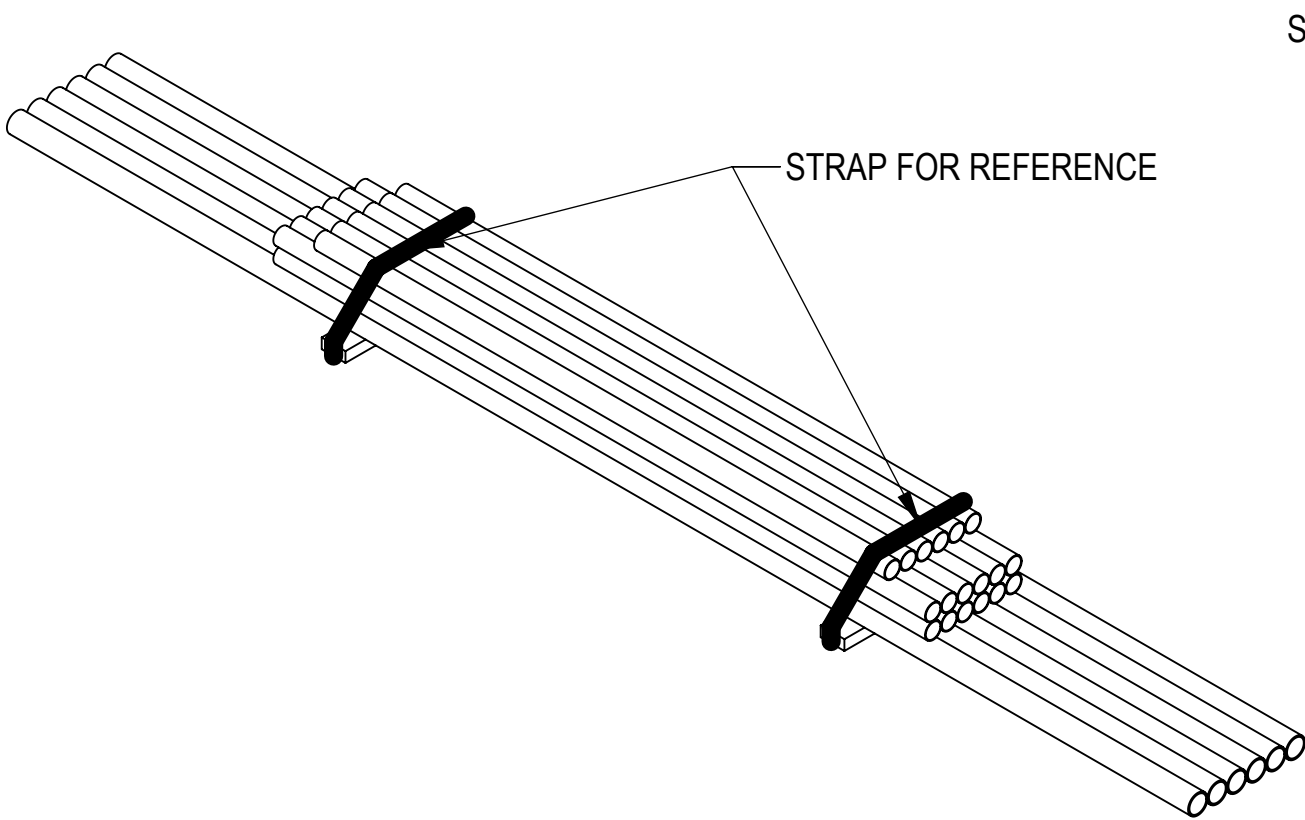
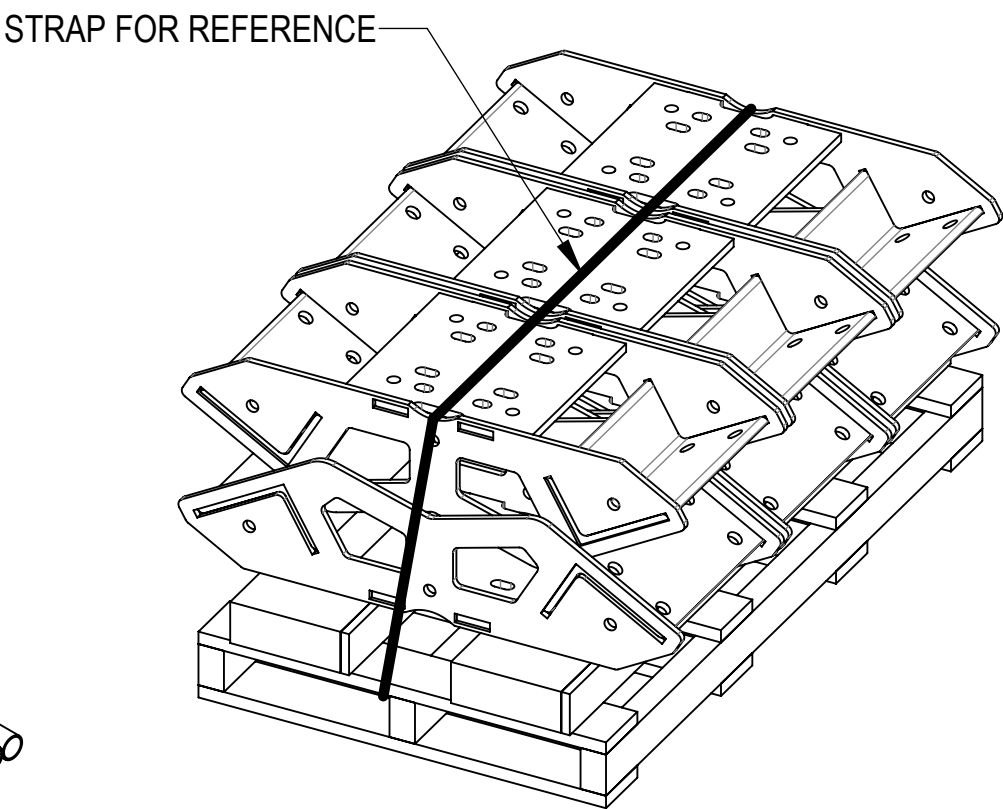


- 1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X. X]
- 1.2 FOR PATENT INFO: <https://www.adwpat.com>
- 2.0 DESIGN NOTES
- 2.1 ANY HAZARDS OR OBSTRUCTIONS TO THE CLIMBING FACILITY AND SAFETY CLIMB MUST BE IDENTIFIED PRIOR TO INSTALLING THE APPURTENANCE. ADDITIONAL PRODUCTS MAY BE REQUIRED TO MAINTAIN THE INTEGRITY OF THE SAFETY CLIMB. DURING INSTALLATION, TEMPORARY AND/OR PERMANENT PRECAUTIONARY MEASURES SHOULD BE TAKEN TO PRESERVE THE CLIMBING FACILITY AND/OR SAFETY CLIMB.
- 2.2 FITS MONOPOLES 15" TO 50" OD.
- 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
- 3.1 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD. TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT.
- 4.0 TEST
- 5.0 PACKAGING
- 5.1 PACKAGING SHALL MEET ANDREW REQUIREMENTS PER DOCUMENT IS-PL-3005.
- 5.2 PRINTED DOCUMENT TO BE PLACED INSIDE POLYBAG AND THEN IN SHIPPING CONTAINER.
- 5.3 EXTRA HARDWARE MAY BE SUPPLIED, BAGGED AND SHIPPED.

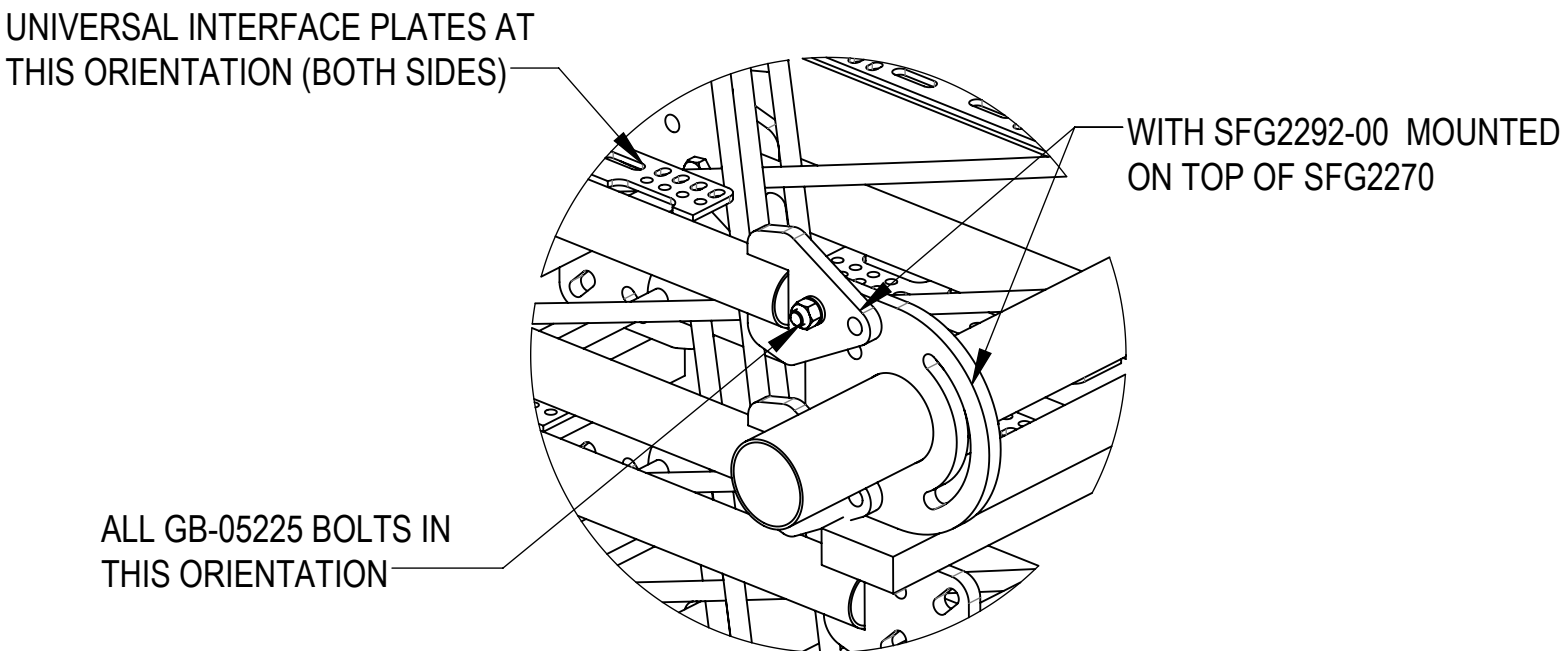
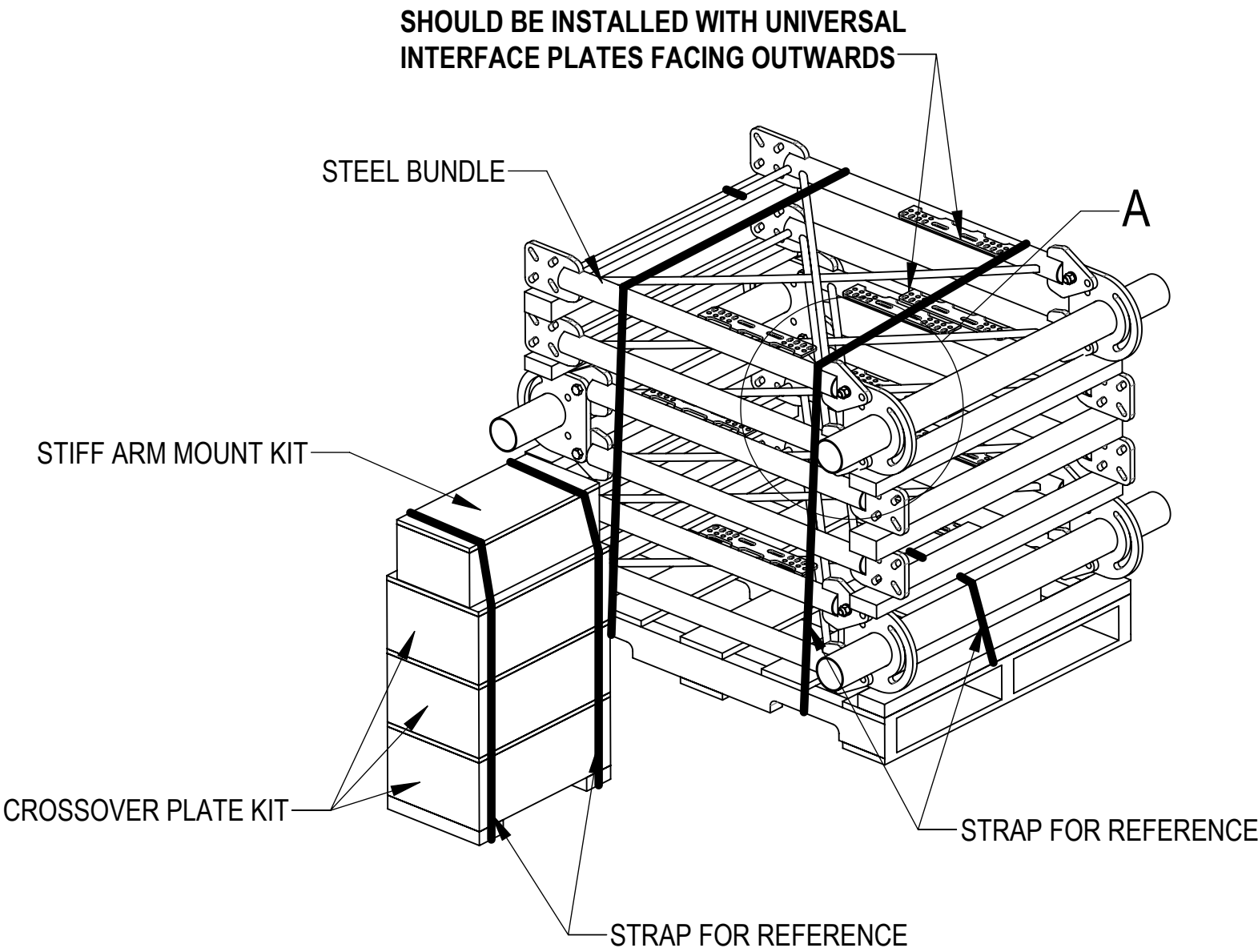
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	BOM STANDARDIZATION	JL1183 19APR22	BCROSS 40146706CMO
C	REMOVED SFG2250, UPDATED NOTES	YMENG 17APR23	BA1025 40146772CMO
D	ADDED SHEET 2; ADDED SFG2254 TO THE TOP OF V-ARM	RY1002 02JAN24	YW1045 40185559CMO
E	SFG2292-00(ITEM2) WAS SFG2278	YX1027 01NOV24	BA1025 40208036CMO
F	SHEET 4&7: ADDED AZIMUTH ADJUSTMENT RANGE VIEW & NOTE	JL1183 10JAN25	BA1025 40212102CMO
G	SHEET 2: ADDED MCG22HD-10M-9-120 MID IN THE TABLE 1	YC1059 10APR25	XK1001 50102271AMO
H	SHEET 2: ADDED MCG22HD-12-4-120 MID IN THE TABLE 1; CHANGED COMMSCOPE LOGO TO ANDREW	JL1183 05JUN25	YC1015 50103228AMO



PIPE BUNDEL



RING MOUNT



DETAIL A
SCALE 1 : 7

 ANDREW[®] an Amphenol company									
TOLERANCES					SAP MATERIAL MASTER				
1 PLACE .X[X] ± .25[6.3]		3 PLACE .XXX[X] ± .060[1.5]			SEE TABLE 1				
2 PLACE .XX[X] ± .12[3.0]		ANGLES ± 2°							
FINISH				MATERIAL					
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994		NAME	DATE	TITLE MCG22HD STANDARD SECTOR FRAME SERIES					
	CE	JL1183	04/19/2022						
	RW	JL1183	06/05/2025						
									
	AD	YC1015	06/08/2025	SCALE 1:16	DOCUMENT NO. MCG22HD-STD				
	RE	JL1183	06/08/2025						
	ECN 50103228AMO								
SIZE	Auth Group	INSL	MODEL			DRAWING			SHEET 1 OF 9
C			VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	
			03	RE	D	09	RE	H	

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PART NUMBERS, WEIGHTS, & EPA

TABLE 1: CONFIGURATIONS

PART NUMBER	DESCRIPTION	WEIGHT (LBS)	(EPA)A (FT²)*	(EPA)A 1/2" ICE THICKNESS (FT³)*	ANTENNA PIPES	INCLUDED PARTS																	
						MC-RM1550-3D	MCG22HD-HK01	MCG22HD-SB01	PB0910A0607A0610K	PB09TEA0607A0610K	PB0908A0607A0610K	PB0607A0610K	PB1210A0607A0612K	PB12TEA0607A0612K	PB1208A0607A0612K	PB0607A0612K	PB1210A0607A0614K	PB1208A0607A0614K	PB0607A0614K	XP-2025-6	XP-2025-8	SFG2254	
MCG22HD-10M-9-126	MONO 3 SCTR FR 10' FACE,(9) 126" ANT	1879.73	16.64	24.81	9	1	1	1	1	-	-	-	-	-	-	-	-	-	3	-	3		
MCG22HD-10M-9-120	MONO 3 SCTR FR 10' FACE,(9) 120" ANT	1866.41			9	1	1	1	-	1	-	-	-	-	-	-	-	-	-	3	-	3	
MCG22HD-10M-9-96	MONO 3 SCTR FR 10' FACE,(9) 96" ANT	1814.93			9	1	1	1	-	-	1	-	-	-	-	-	-	-	-	3	-	3	
MCG22HD-10M-B	MONO 3 SCTR FR 10' FACE, BASE KIT	1460.40			-	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	3	
MCG22HD-12M-12-126	MONO 3 SCTR FR 12' FACE,(12) 126" ANT	2089.28	17.92	26.51	12	1	1	1	-	-	-	-	1	-	-	-	-	-	-	3	3		
MCG22HD-12M-12-120	MP,SF,12'FP,(12)120"AP	2407.46			12	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	3	3	
MCG22HD-12M-12-96	MONO 3 SCTR FR 12' FACE,(12) 96" ANT	2002.88			12	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	3	3	
MCG22HD-12M-B	MONO 3 SCTR FR 12' FACE, BASE KIT	1530.17			-	1	1	1	-	-	-	-	-	-	-	1	-	-	-	-	-	3	
MCG22HD-14M-12-126	MONO 3 SCTR FR 14' FACE,(12) 126" ANT	2159.05	19.20	28.21	12	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	3	3	
MCG22HD-14M-12-96	MONO 3 SCTR FR 14' FACE,(12) 96" ANT	2072.65			12	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	3	3
MCG22HD-14M-B	MONO 3 SCTR FR 14' FACE, BASE KIT	1599.93			-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3

* (EPA)A DOES NOT INCLUDE ANTENNA PIPES AND MOUNTING HARDWARE. IF DESIRED, ADD ANTENNA PIPE PER TABLE 2

TABLE 2: EPA OF EACH ANTENNA PIPE

ANTENNA PIPE	(EPA)A (FT ²)	(EPA)A W/ 1/2" ICE THICKNESS (FT ²)
2-3/8" X 96"	1.52	2.16
2-3/8" X 120"	1.90	2.70
2-3/8" X126"	2.00	2.84

NOTE:

1. ANTENNA PIPES ARE CONSIDERED SEPARATELY.
2. KA FACTOR OF 3-SECTOR EPA INCLUDED.
3. COMBINE THE ASSOCIATED EPA VALUES IN THE TABLES ABOVE TO DETERMINE THE EPA OF A MOUNT MODEL WITH A LISTED MOUNT PIPE CONFIGURATION.
FOR EXAMPLE, MCG22HD-10M-9-126 HAS A 3-SECTOR EPA OF 16.64 FT² WITH NO ICE PLUS 9 ANTENNA PIPES WITH A 3-SECTOR EPA OF 9X2.00=18.00 FT² WITH NO ICE.
SO, THE TOTAL EPA OF 34.64 FT² FOR THE MCG22HD-10M-9-126.



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TITLE
MCG22HD STANDARD SECTOR FRAME SERIES

SIZE C	SCALE 1:30	DOCUMENT NO. MCG22HD-STD		
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DRAWING			SHEET 2 OF 9
VERSION 09	STATUS RE	REVISION H	

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D

C

B

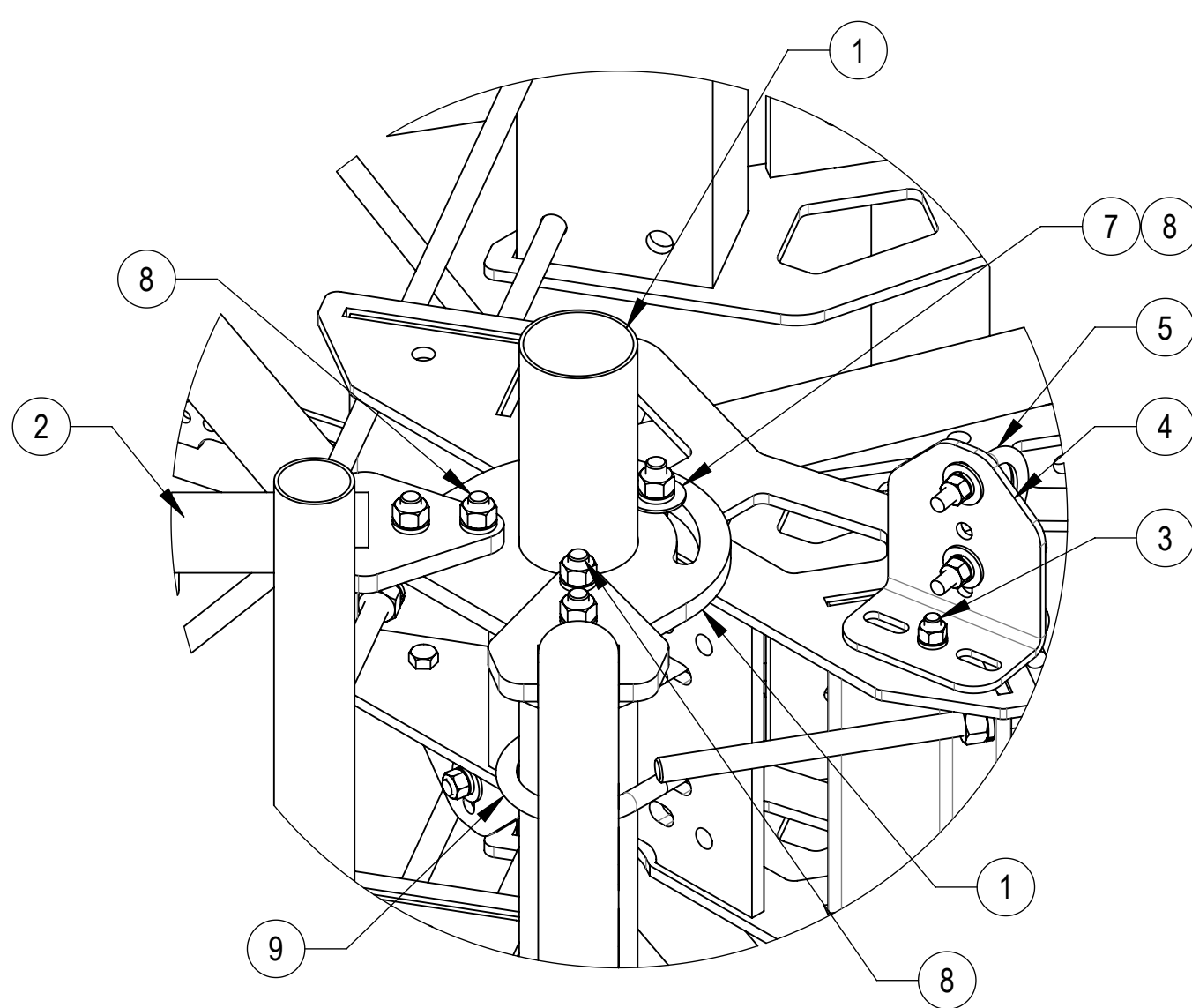
A

D

C

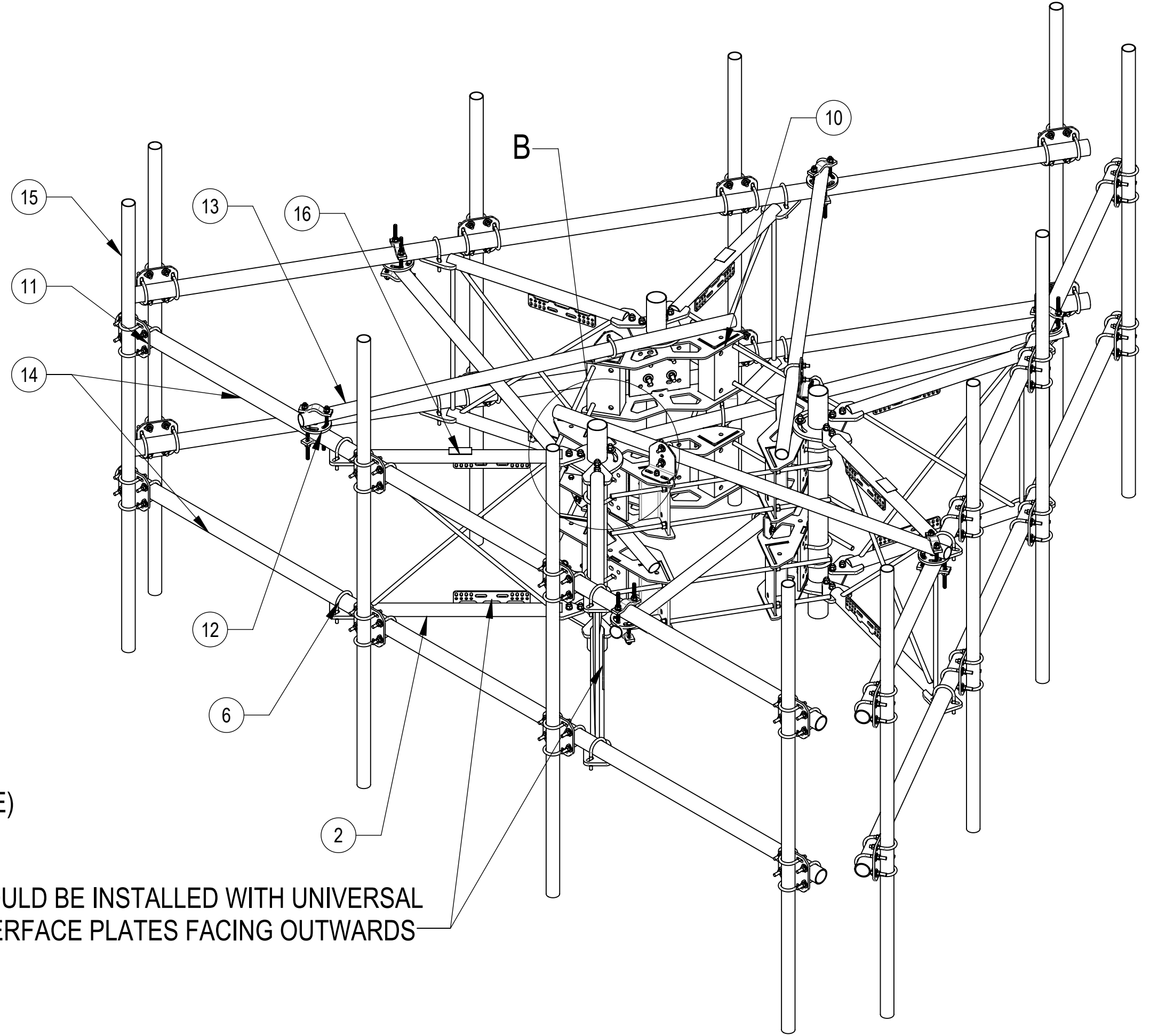
B

A



DETAIL B
SCALE 1 : 5

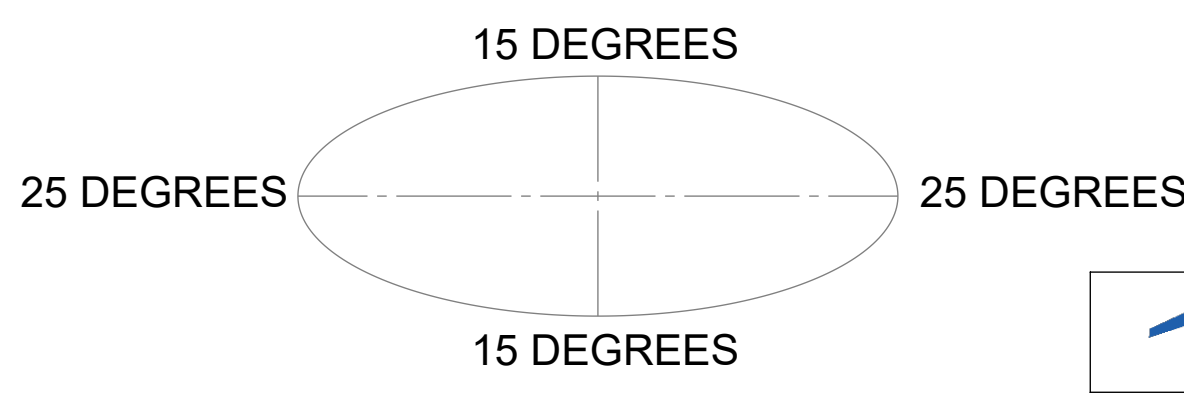
MCG22HD-14M-12-96 SHOWN FOR REFERENCE
(NOT ALL CONFIGURATIONS INCLUDE ALL ITEMS SEE NOTES IN TABLE)



TOP
BOTTOM

SHOULD BE INSTALLED WITH UNIVERSAL
INTERFACE PLATES FACING OUTWARDS

ALLOWABLE TIEBACK ANGLE
±15 DEGREES VERTICAL
±25 DEGREES HORIZONTAL



COMPONENT PART NUMBERS PROVIDED FOR ASSEMBLY PURPOSES; INDIVIDUAL COMPONENTS MAY BE SHIPPED AS PARTS WITHIN AN INCLUDED KIT.					
ITEM	PART NO.	DESCRIPTION	QTY.	WEIGHT	NOTE
1	SFG2270	BACK VERTICAL ARM MOUNT	3	36.96 LBS	
2	SFG2292-00	WELDMENT, V-ARM, SECTOR FRAME 22	6	49.69 LBS	
3	GB-04145	1/2" X 1-1/2" GALV BOLT KIT	6	0.13 LBS	
4	XAU01	ANGLE, CROSSOVER, 1.9-3.5" X 1.9-3.5" OD	6	2.98 LBS	
5	GUB-4240	1/2" X 2-1/2" X 4" GALV U-BOLT	6	0.56 LBS	
6	GUB-4352	1/2" X 3" X 5-1/4" GALV U-BOLT	12	0.71 LBS	
7	GWF-05	5/8" GALV FLAT WASHER, 1.7OD	6	0.06 LBS	
8	GB-05225	5/8" X 2-1/4" GALV BOLT KIT	30	0.28 LBS	
9	GUB-53560	5/8" X 3-5/8" X 6" GALV U-BOLT	12	1.30 LBS	
10	MC-RM1550-3	15" - 50" OD RINGMOUNT	2	229.90 LBS	
11	XP-2025	CROSSOVER PLATE KIT, 2-3/8 OD X 2-7/8 OD	24	12.61 LBS	QTY SEE INDIVIDUAL DRAWING
12	XP-R	CROSSOVER PLATE, ROUND, UP TO 3.5" OD	6	6.20 LBS	
13	MT-651-84	2.375" OD X 84" PIPE	6	20.35 LBS	
14	MT-546-174	PIPE, 2.875"OD X 174"	6	84.30 LBS	PART NO. SEE INDIVIDUAL DRAWING
15	MT-651-96	2.375" OD X 96" PIPE	12	23.05 LBS	PART NO. AND QTY SEE INDIVIDUAL DRAWING
16	SFG2254	LABEL, SFG22HD	3	0.04 LBS	



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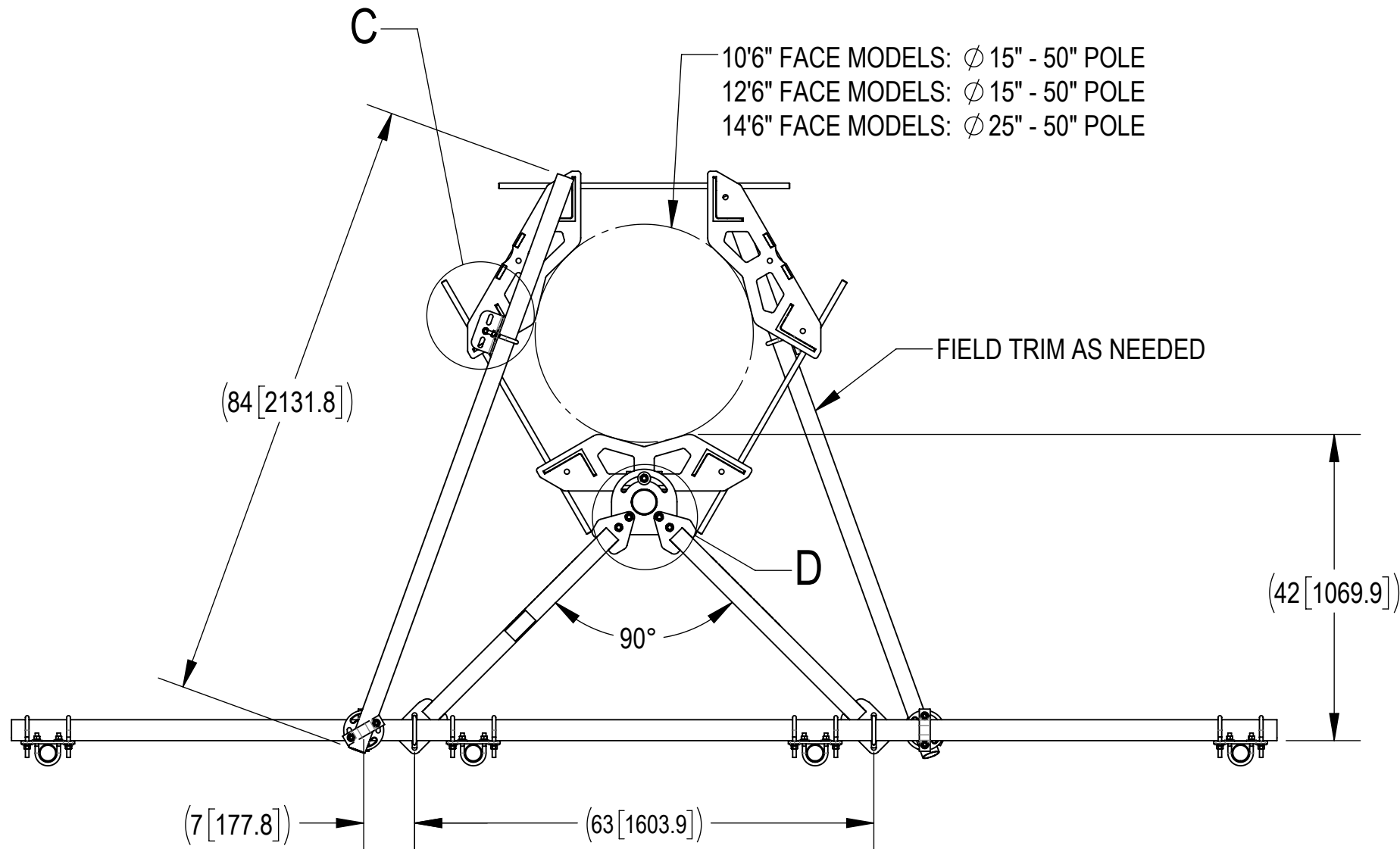
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MCG22HD STANDARD SECTOR FRAME SERIES

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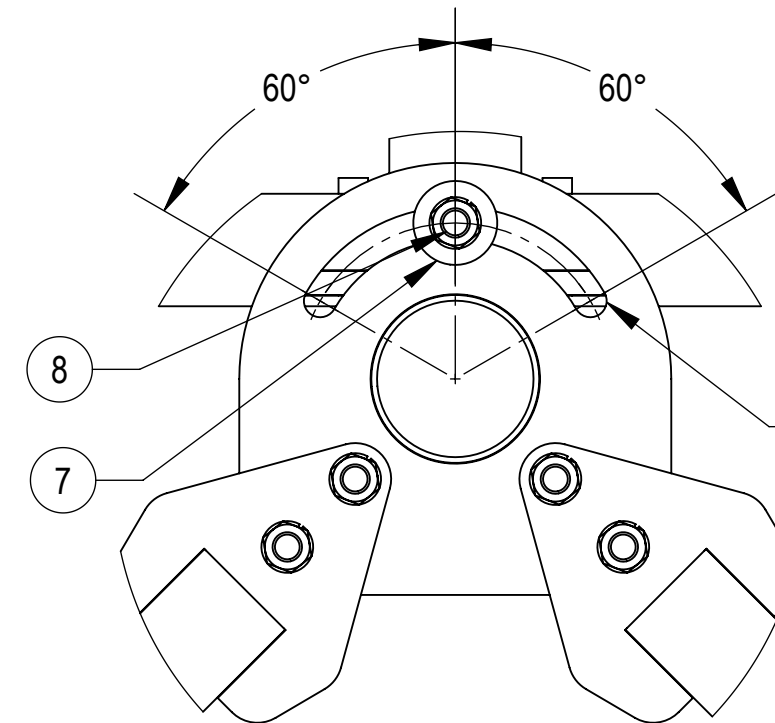
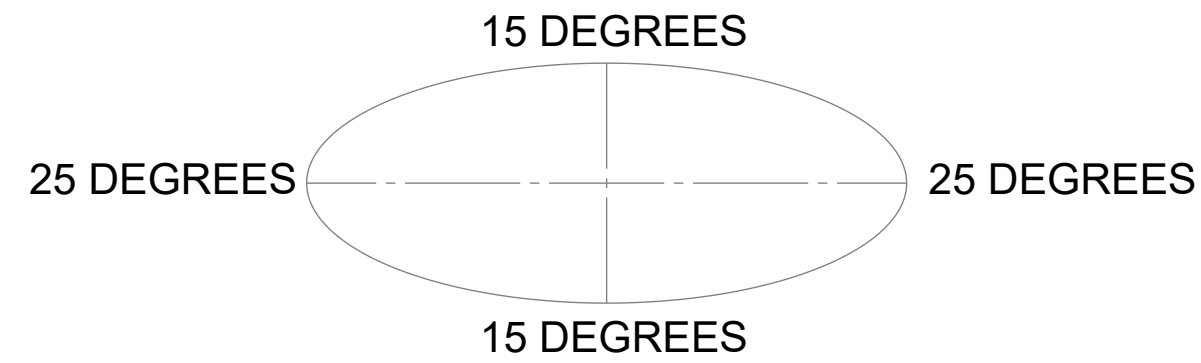
DRAWING			SHEET 3 OF 9
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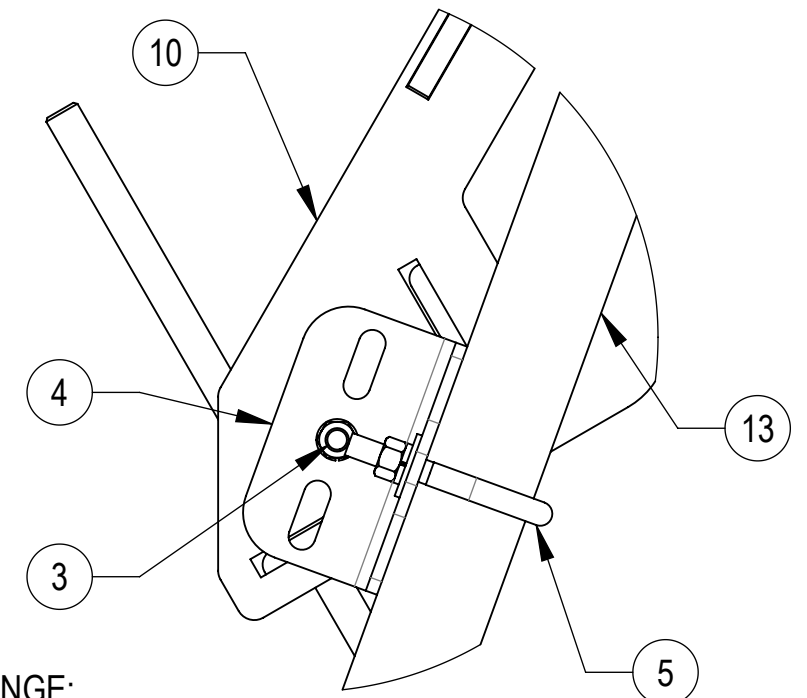
ALLOWABLE TIEBACK ANGLE

± 15 DEGREES VERTICAL
 ± 25 DEGREES HORIZONTAL



AZIMUTH ADJUSTMENT RANGE:
 60° IN EACH DIRECTION FROM
 THE NOMINAL CENTER LINE

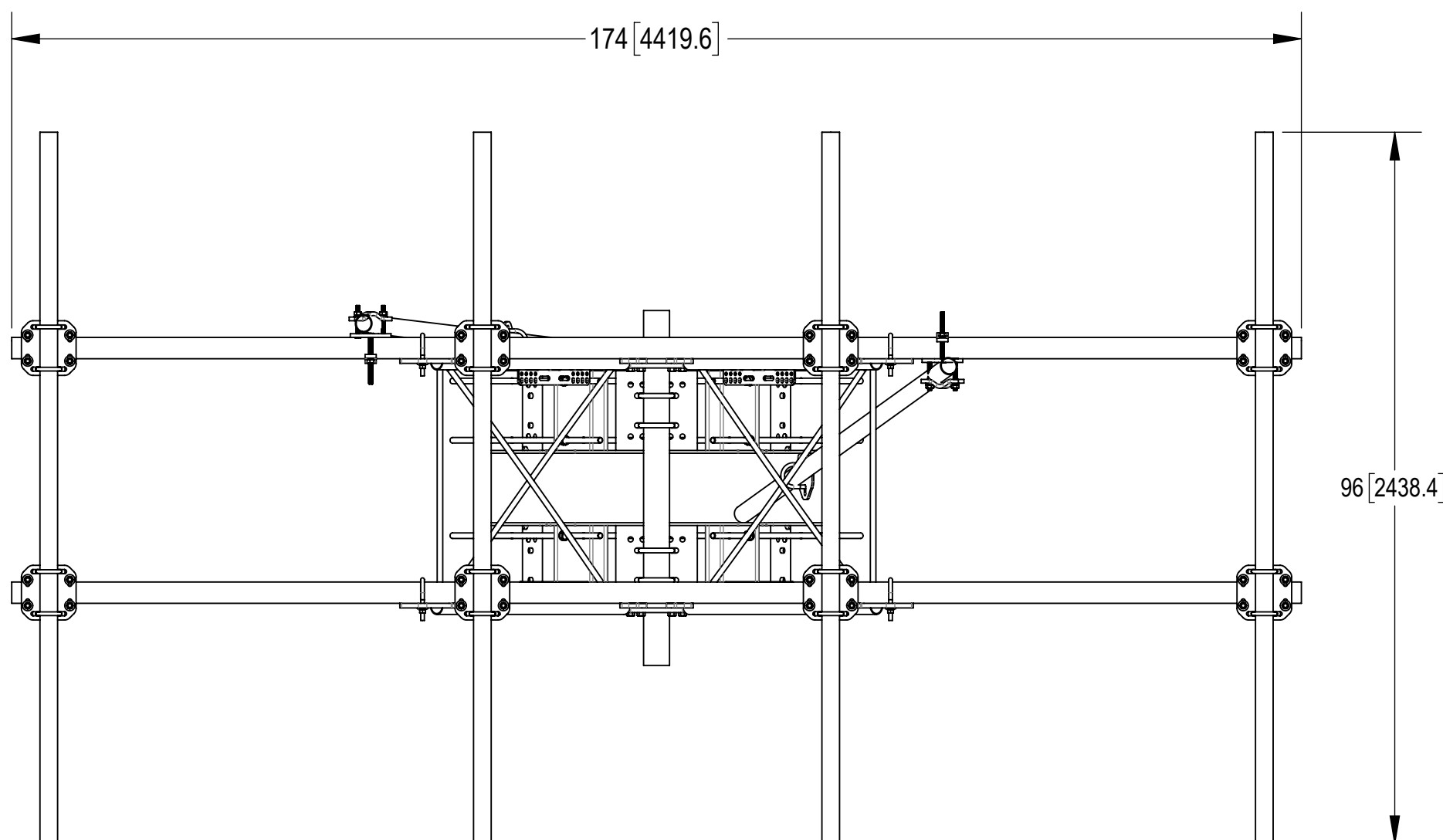
DETAIL D
 SCALE 1 : 4



DETAIL C
 SCALE 1 : 4

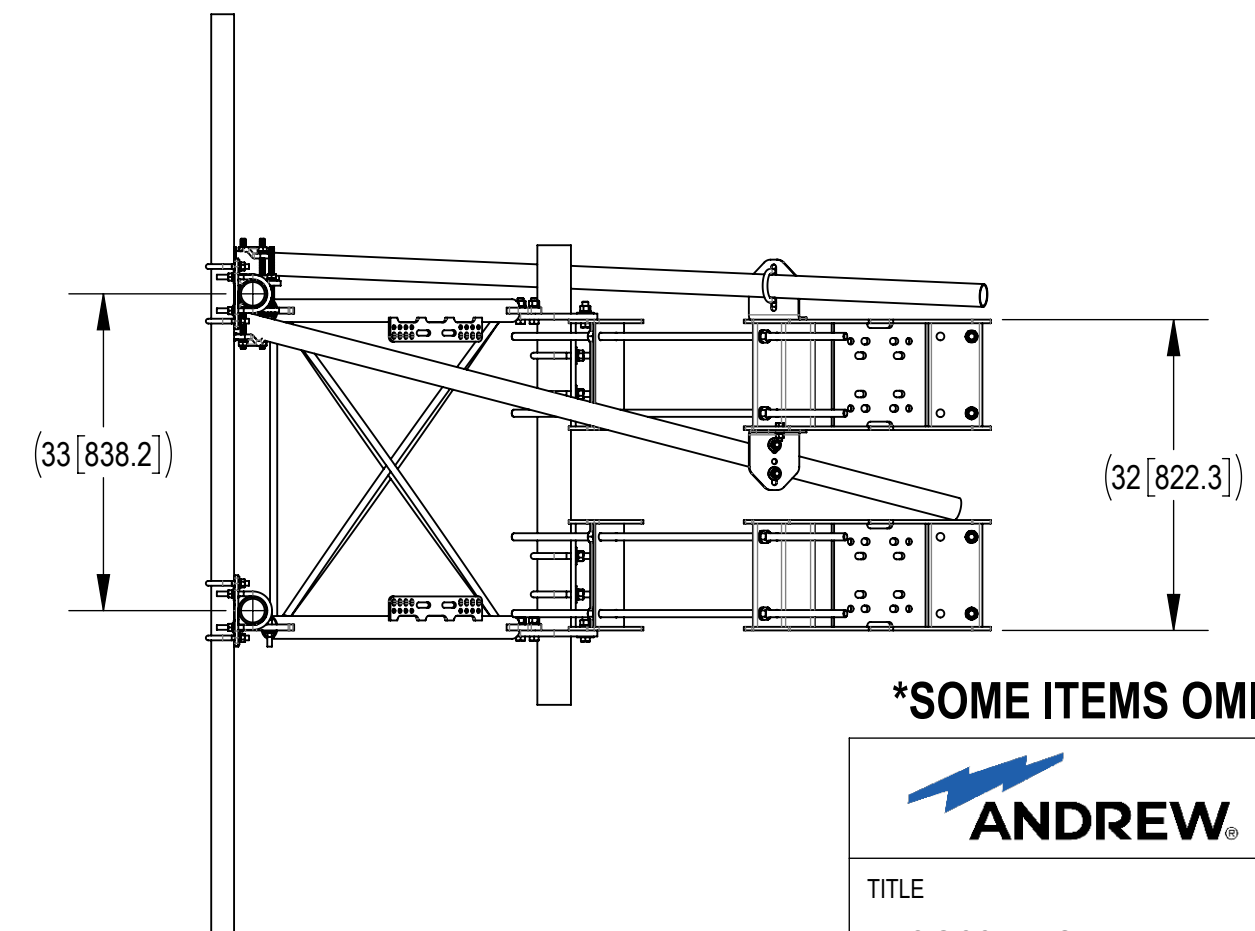
MCG22HD-14M-12-96 SHOWN FOR REFERENCE

(NOT ALL CONFIGURATIONS INCLUDE ALL ITEMS
 SEE NOTES IN TABLE ON PAGE 3)



TOP

BOTTOM



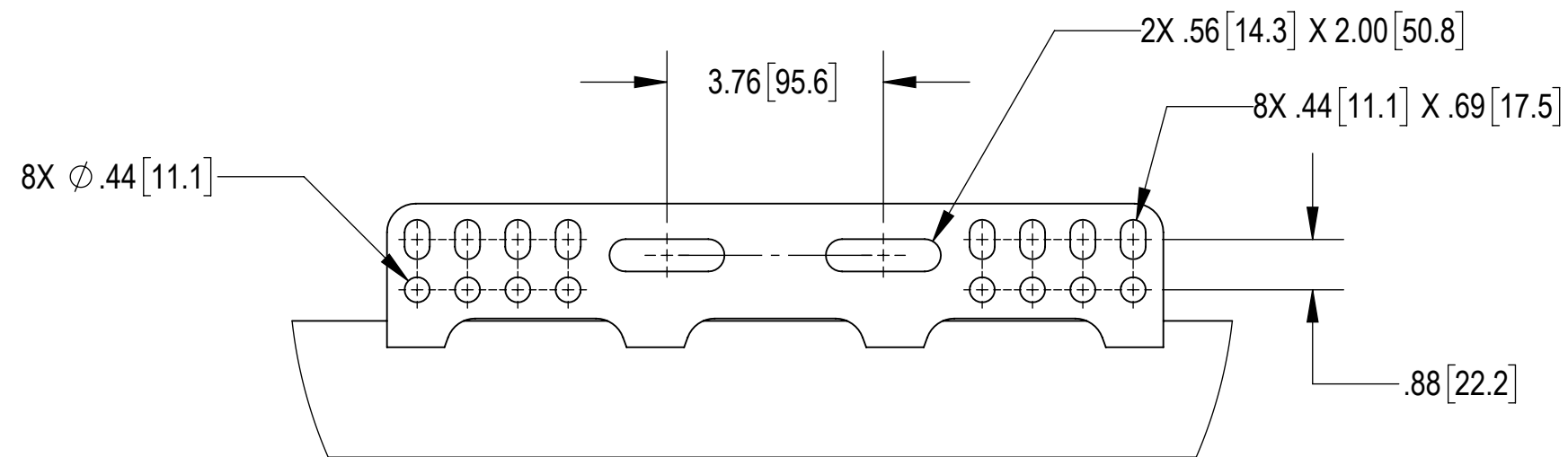
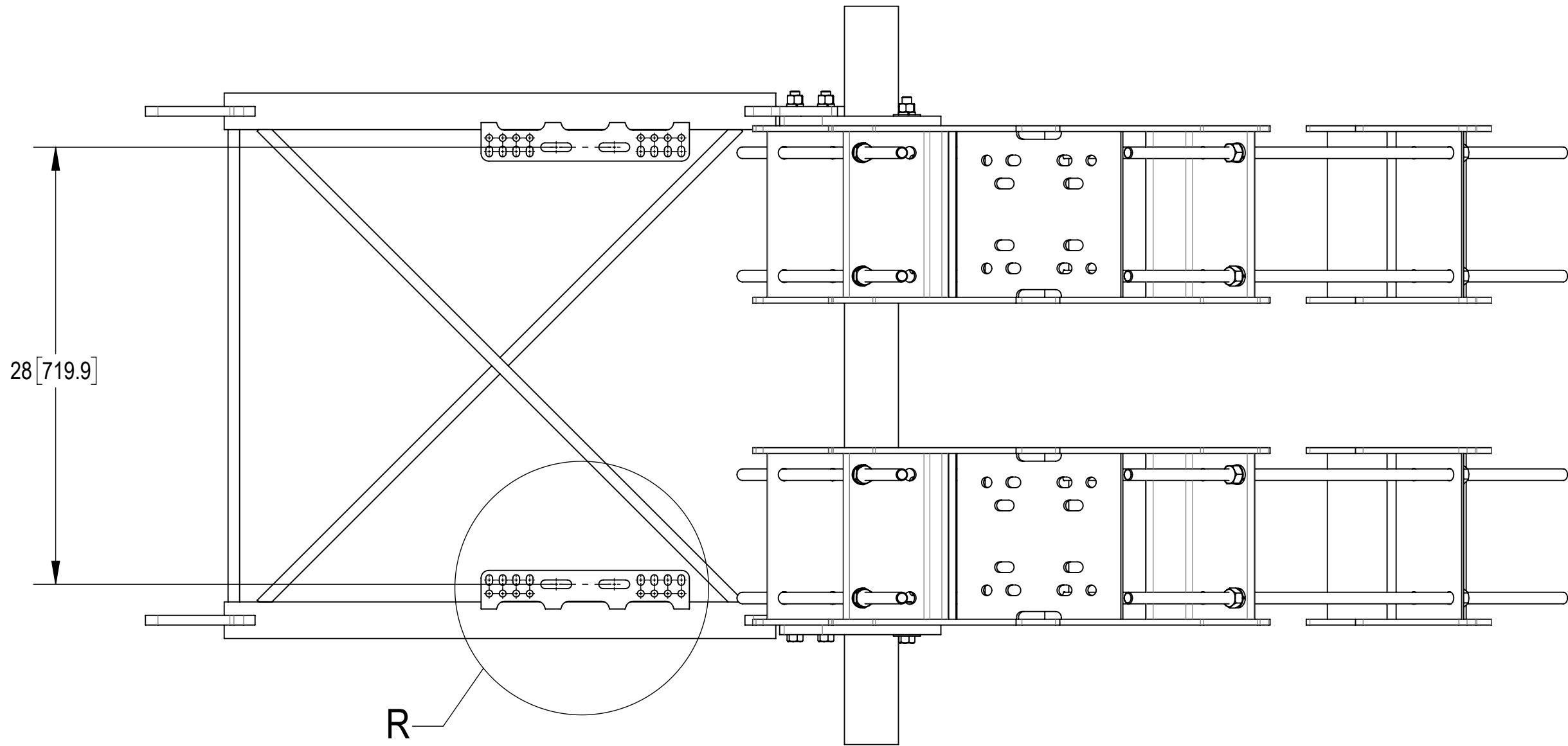
SOME ITEMS OMITTED FOR CLARITY

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TITLE
 MCG22HD STANDARD SECTOR FRAME SERIES

SIZE	SCALE	DOCUMENT NO.		DRAWING			SHEET
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DETAIL R
SCALE 1 : 3



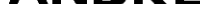
TITLE
MCG22HD STANDARD SECTOR FRAME SERIES

SIZE C	SCALE 1:32	DOCUMENT NO. MCG22HD-STD		
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		DRAWING			SHEET 5 OF 9
		VERSION 09	STATUS RE	REVISION H	

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ISO VIEW



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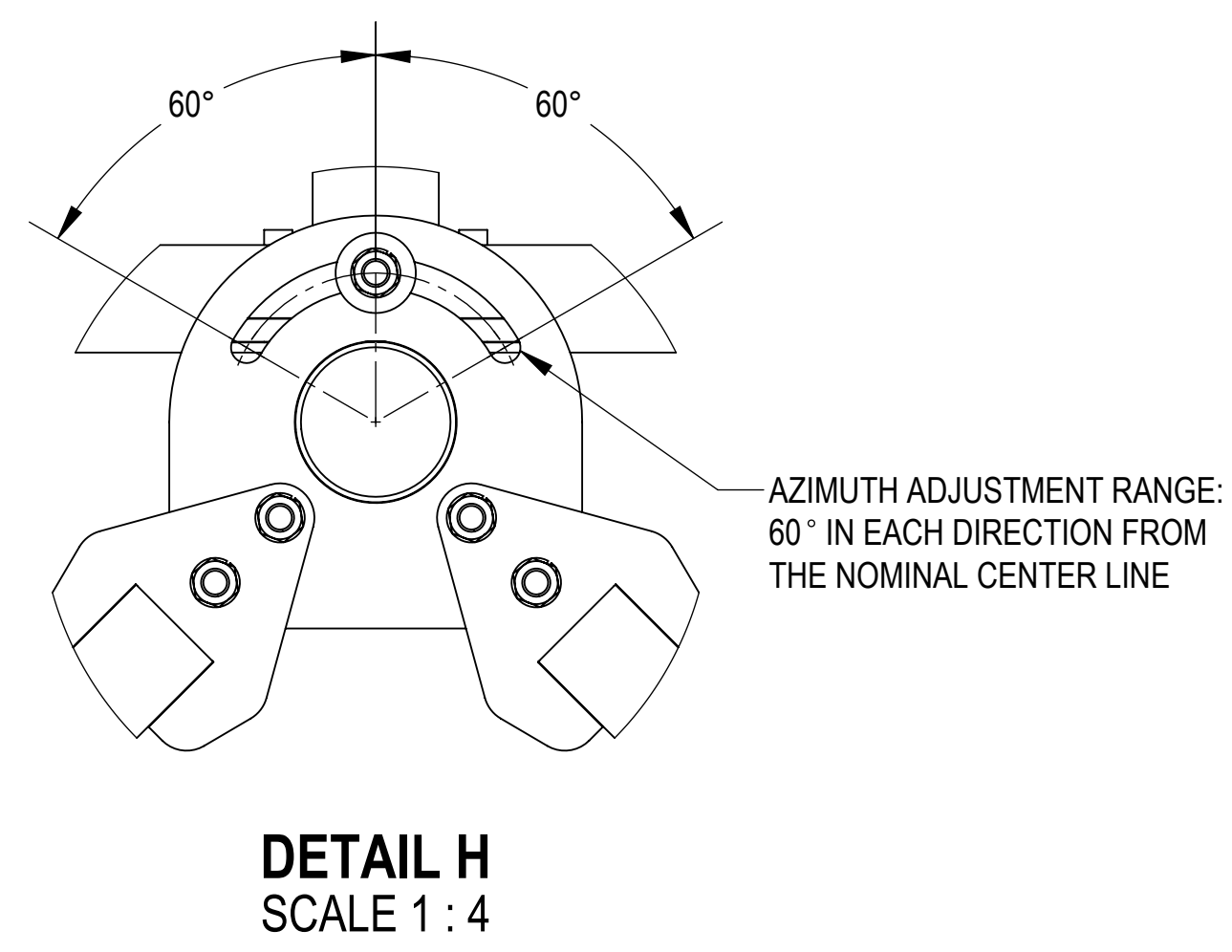
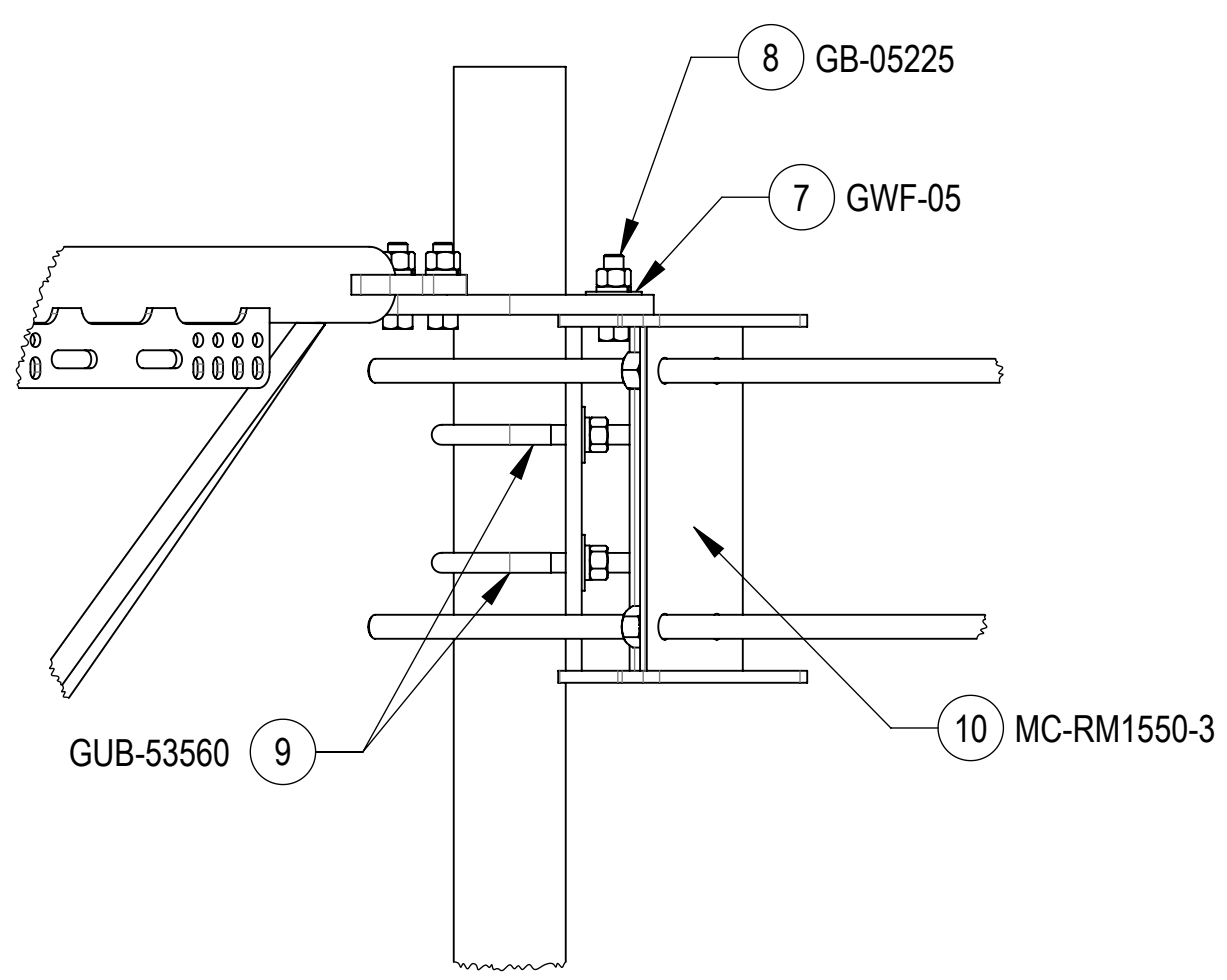
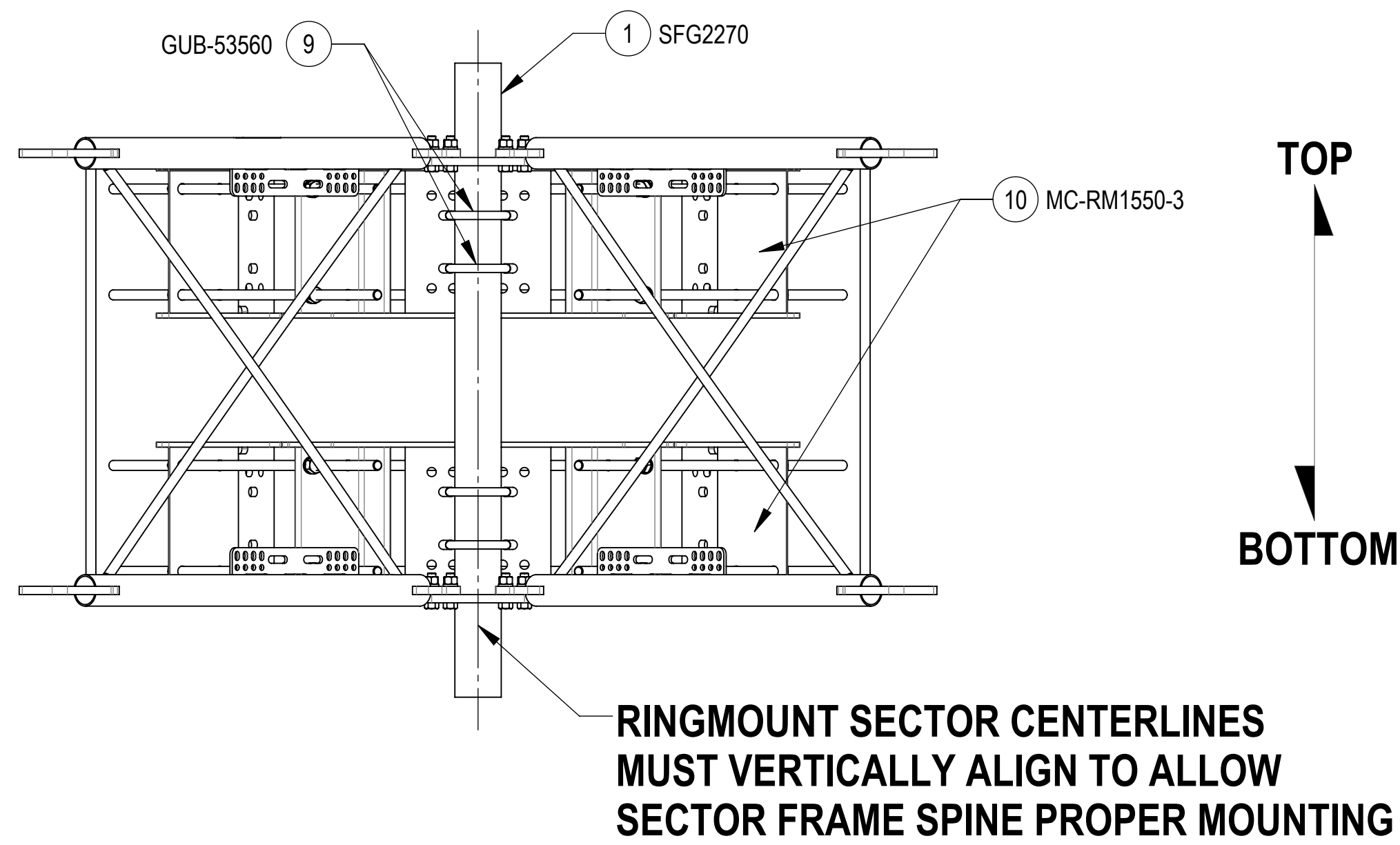
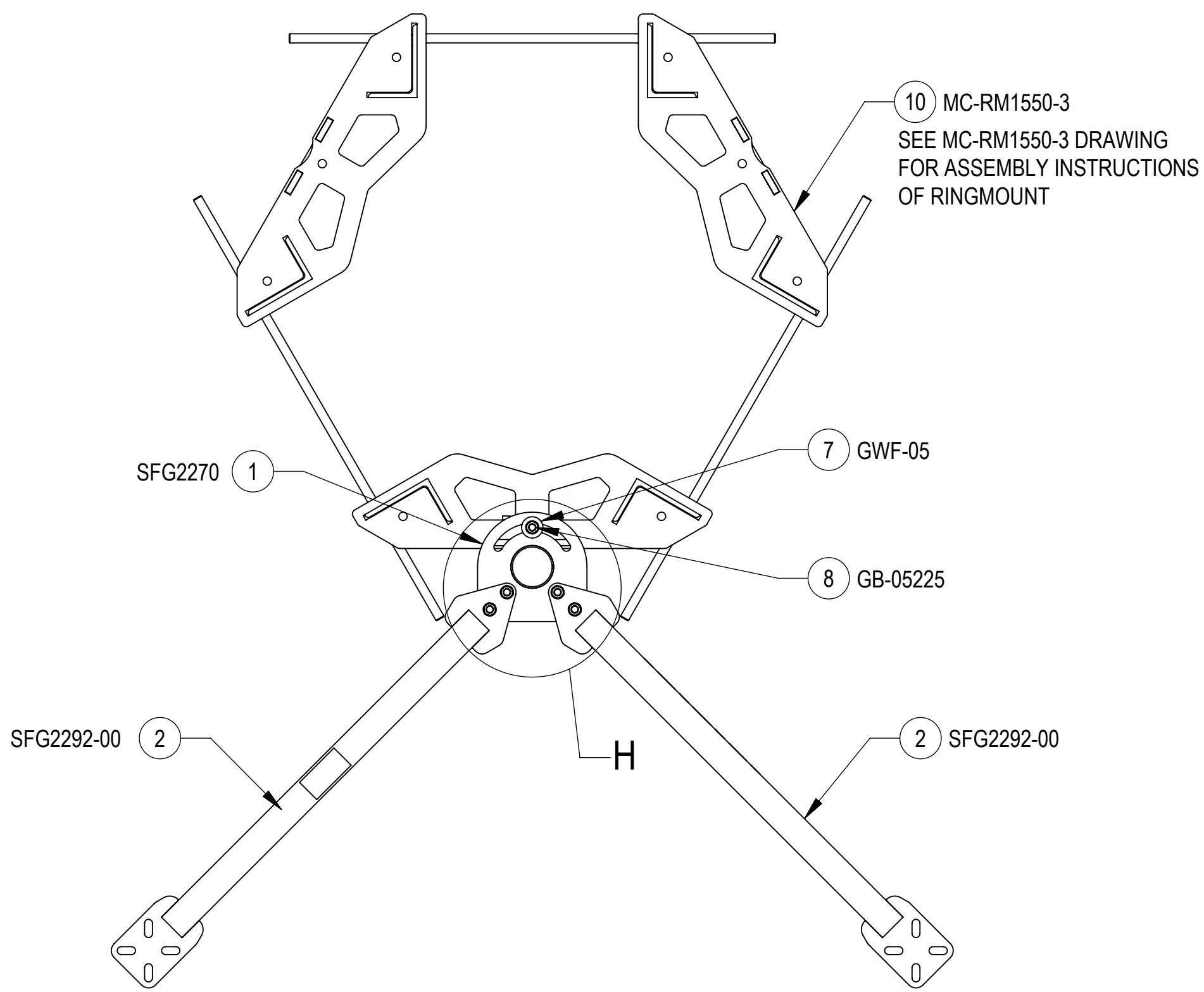
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MCG22HD STANDARD SECTOR FRAME SERIES

SIZE C	SCALE 1:18	DOCUMENT NO. MCG22HD-STD
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	DRAWING			SHEET 6 OF 9
	VERSION	STATUS	REVISION	
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STEP 2: ATTACH RINGMOUNT (MC-RM1550-3) TO BACK VERTICAL ARM MOUNT (SFG2270) USING BOLT KITS (GB-05225), FLAT WASHERS (GWF-05) AND U-BOLTS (GUB-53560).





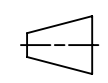
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TITLE

MCG22HD STANDARD SECTOR FRAME SERIES

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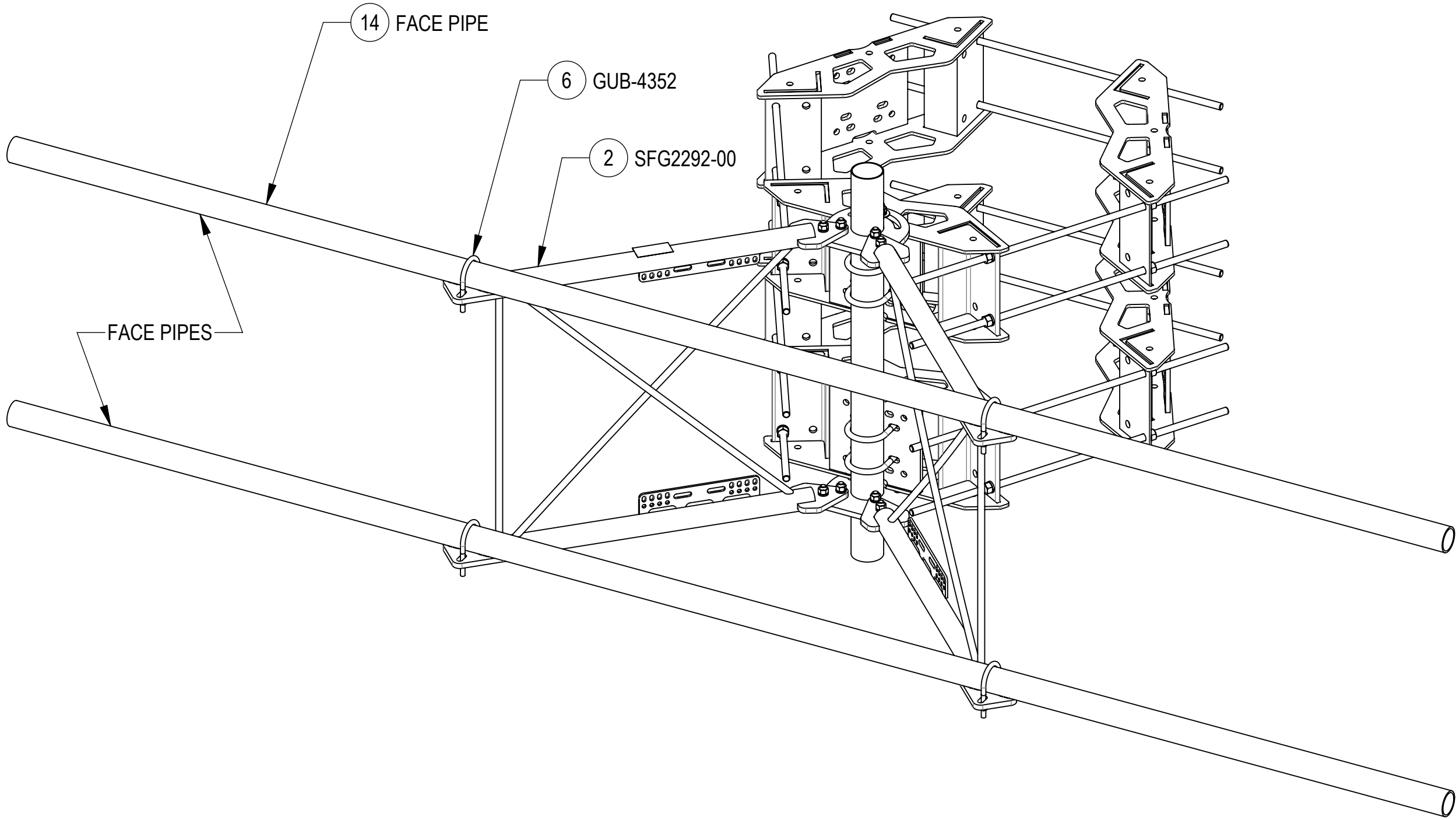
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SHEET

7 OF 9

STEP 3: ATTACH FACE PIPES TO STANDOFF ARMS (SFG2292-00) USING U-BOLTS (GUB-4352).

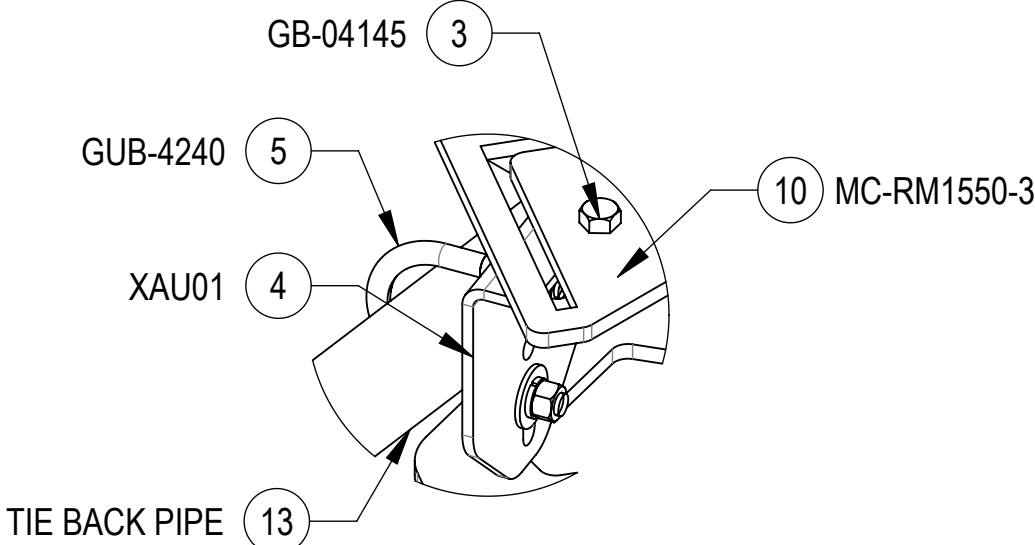
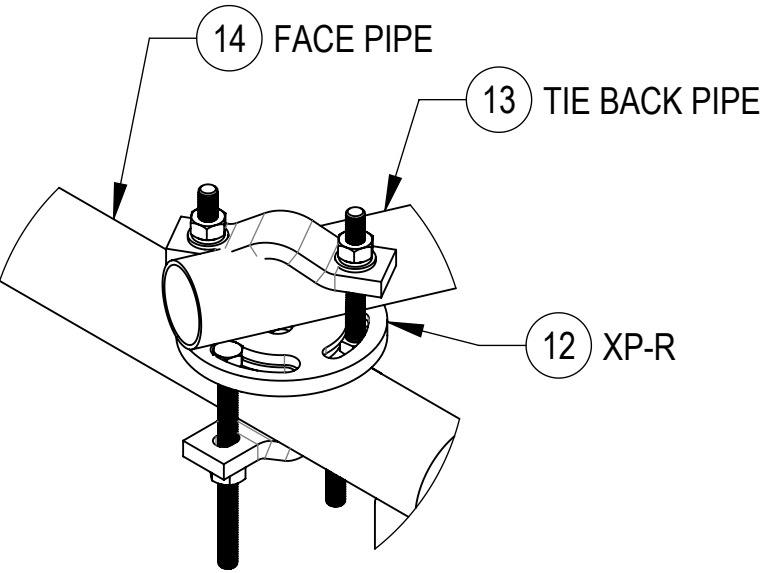
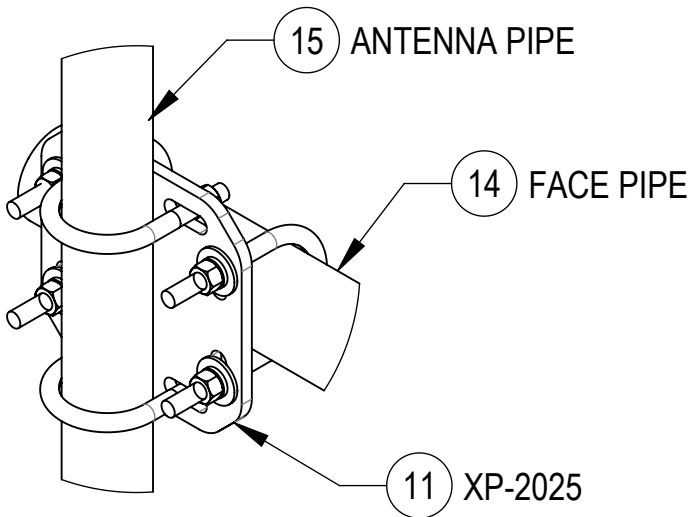
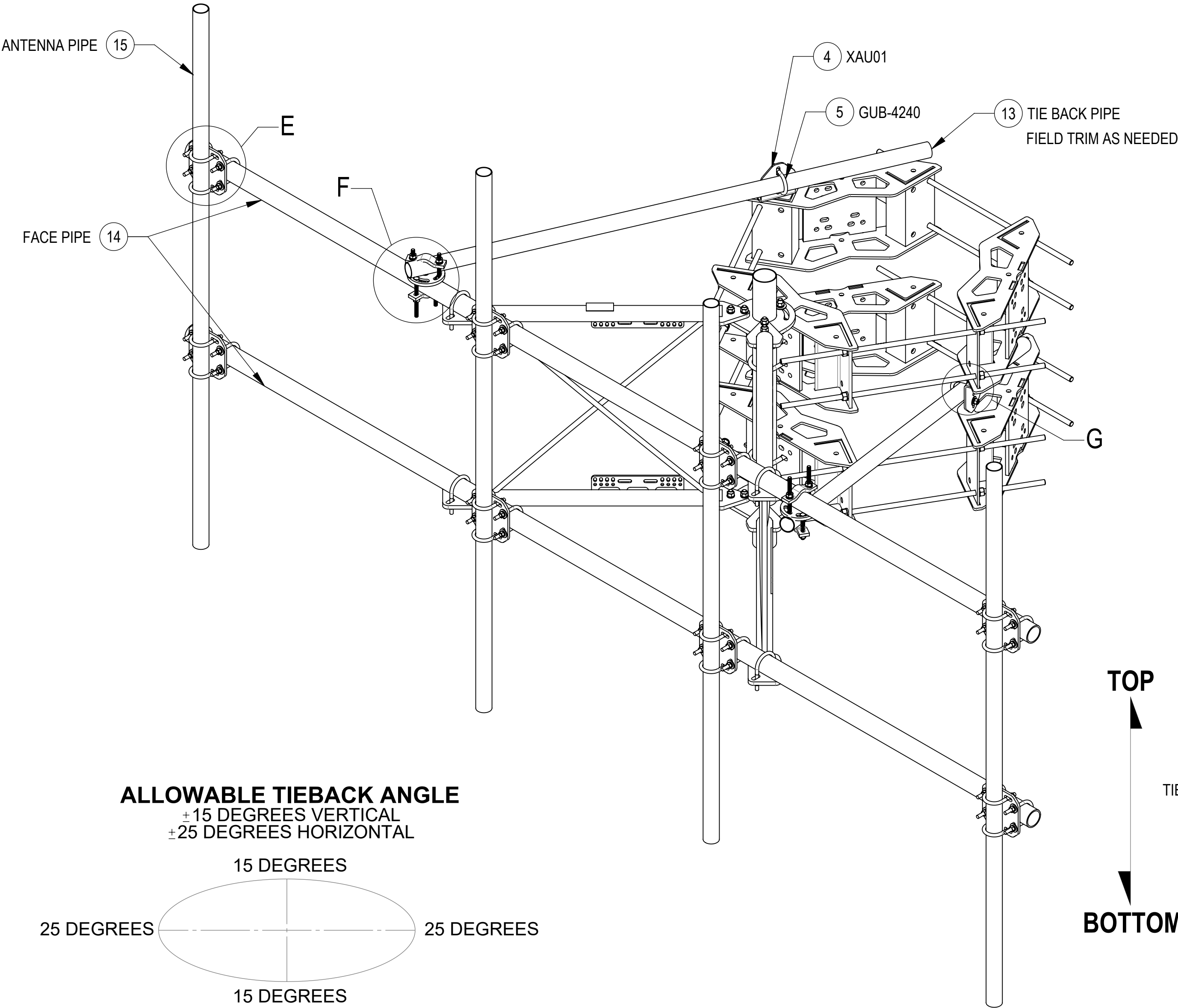


TOP
BOTTOM

				
TITLE MCG22HD STANDARD SECTOR FRAME SERIES				
SIZE C	SCALE 1:18	DOCUMENT NO. MCG22HD-STD		
 		DRAWING		SHEET 8 OF 9
		VERSION 09	STATUS RE	REVISION H

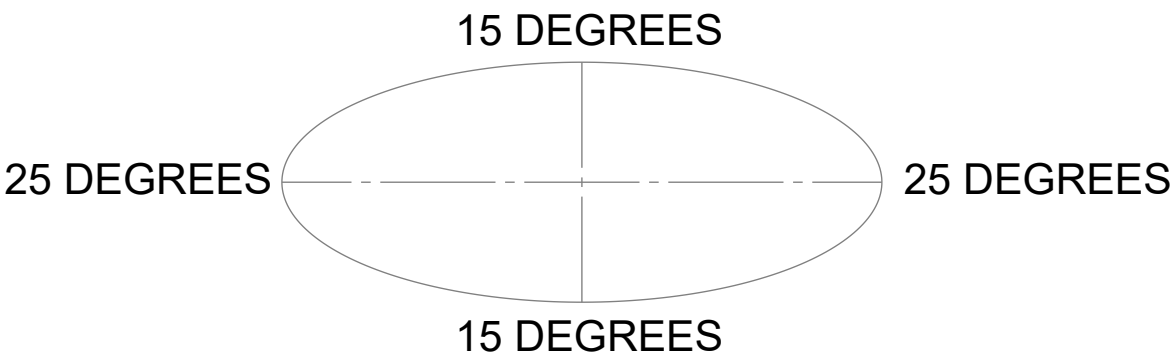
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STEP 4: ATTACH ANTENNA PIPES TO FACE PIPES USING CROSSOVER PLATE KITS (XP-2025).
ATTACH TIE BACK PIPES TO FACE PIPES USING ROUND CROSSOVER PLATE KITS (XP-R).
ATTACH TIE BACK PIPES TO RINGMOUNT USING CROSSOVER ANGLES (XAU01), BOLT KITS (GB-04145) AND U-BOLTS (GUB-4240).



ALLOWABLE TIEBACK ANGLE

±15 DEGREES VERTICAL
±25 DEGREES HORIZONTAL



ISO VIEW

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DOCUMENT NO.

MCG22HD-STD

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