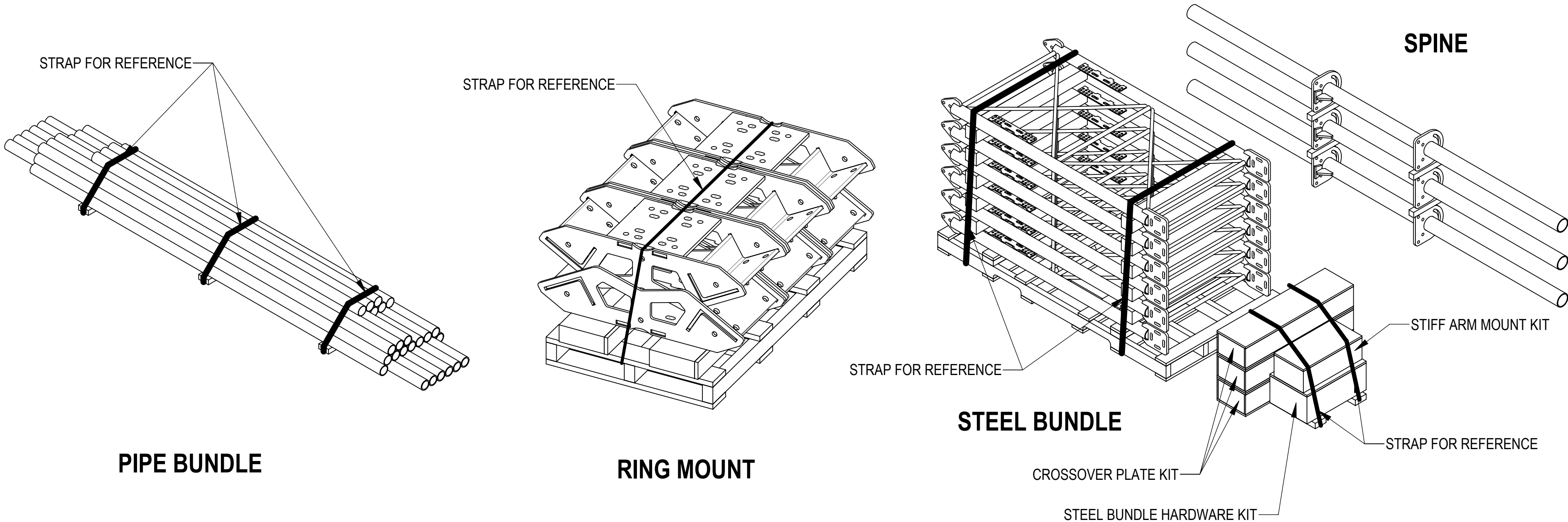


- 1.0 GENERAL NOTES
- 1.1 ALL METRIC DIMENSIONS ARE IN BRACKETS [X. X]
- 1.2 FOR PATENT INFO: <https://www.adwpat.com>
- 2.0 DESIGN NOTES
- 2.1 ANY HAZARDS OR OBSTRUCTIONS TO THE CLIMBING FACILITY AND SAFETY CLIMB MUST BE IDENTIFIED PRIOR TO INSTALLING THE APPURTENANCE. ADDITIONAL PRODUCTS MAY BE REQUIRED 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.
- 2.3 MIN RECOMMENDED POLE THICKNESS 3/16"
- 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
A	INITIAL RELEASE	RY1002 21NOV23	YC1015 40183018CMO
B	ADDED MCG23RHDXL-11MB, MCG23RHDXL-11M996, MCG23RHDXL-11M9126, MCG23RHDXL-13MB, MCG23RHDXL-13M1296, MCG23RHDXL13M12126, MCG23RHDXL-15MB, MCG23RHDXL-15M1596, MCG23RHDXL15M15126,MCG23RHDXL-15M1296 AND MCG23RHDXL15M12126 TO SERIES	RY1002 11DEC23	YC1015 40182550CMO
C	UPDATED EPA DATA	RY1002 18JAN24	YC1015 40187155CMO
D	CHG PALLET FROM QVPALLET TO 74X38PALLET; UPDATED SFG23180-00 TO ADD UNIVERSAL INTERFACE PLATES	RY1002 25JUL24	XK1001 40200655CMO
E	SHEET 4&8: ADDED AZIMUTH ADJUSTMENT RANGE VIEW & NOTE	JL1183 10JAN25	BA1025 40212102CMO



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TOLERANCES						SAP MATERIAL MASTER					
1 PLACE .X[X] ± 0.2[6.3]			3 PLACE .XXX[X] ± 0.060[1.5]			SEE TABLE 1					
2 PLACE .XX[X] ± 0.12[3.0]			ANGLES ± 2°								
FINISH					MATERIAL						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES INTERPRET PER ANSI Y 14.5M-1994		NAME	DATE	MCG23RHDXL SECTOR FRAME SERIES							
	CE	RY1002	06NOV23								
	RW	YC1059	06/18/2025								
											
	AD	YMENG	06/18/2025	SCALE 1:18	DOCUMENT NO. MCG23RHDXL						
	RE	YMENG	06/18/2025								
	ECN 40212102CMO										
SIZE	Auth Group	INSL	MODEL			DRAWING			SHEET		
C			VERSION	STATUS	REVISION	VERSION	STATUS	REVISION	1 OF 10		
			03	RE	D	04	RE	E			

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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	MCG23HDX-HK02	MCG23RHDXL-SB01	MCG23RHDXL-HK01	PB0608B0611P	PB0608B0908K0611P	PB0608B0910K0611P	PB0608B0612P	PB0608B1208K0612P	PB0608B1210K0612P	PB0608B0613P	PB0608B1208K0613P	PB0608B1210K0613P	PB0608B0614P	PB0608B1208K0614P	PB0608B1210K0614P	PB0608B0615P	PB0608B1208K0615P	PB0608B1210K0615P	PB0608B1508K0615P	PB0608B1510K0615P	XP-2525-4	XP-2525-6	XP-2525-8	SFG2204	SFG23100		
MCG23RHDXL-11MB	MONO 3 SCTR FR 11' FACE,NO AP	2284.76	28.25	42.12	-	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3			
MCG23RHDXL-11M996	MONO 3 SCTR FR 11' FACE,(9) 96" ANT	2849.08			9	1	1	1	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	3	
MCG23RHDXL-11M9126	MONO 3 SCTR FR 11' FACE,(9) 126" ANT	2984.85			9	1	1	1	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	3	3	
MCG23RHDXL-12MB	MONO 3 SCTR FR 12' FACE,NO AP	2353.96	29.21	43.39	-	1	1	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3		
MCG23RHDXL-12M1296	MONO 3 SCTR FR 12' FACE,(12) 96" ANT	3106.39			12	1	1	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL12M12126	MONO 3 SCTR FR 12' FACE,(12) 126" ANT	3287.41			12	1	1	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL-13MB	MONO 3 SCTR FR 13' FACE,NO AP	2377.02	29.53	43.82	-	1	1	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3		
MCG23RHDXL-13M1296	MONO 3 SCTR FR 13' FACE,(12) 96" ANT	3129.46			12	1	1	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL13M12126	MONO 3 SCTR FR 13' FACE,(12) 126" ANT	3310.48			12	1	1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL-14MB	MONO 3 SCTR FR 14' FACE,NO AP	2446.22	30.48	45.09	-	1	1	1	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	3	3		
MCG23RHDXL-14M1296	MONO 3 SCTR FR 14' FACE,(12) 96" ANT	3198.65			12	1	1	1	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL14M12126	MONO 3 SCTR FR 14' FACE,(12) 126" ANT	3379.68			12	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	3	3	
MCG23RHDXL-15MB	MONO 3 SCTR FR 15' FACE,NO AP	2469.29	30.80	45.51	-	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	3	3		
MCG23RHDXL-15M1296	MONO 3 SCTR FR 15' FACE,(12) 96" ANT	3221.72			12	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	3	3	3	
MCG23RHDXL15M12126	MONO 3 SCTR FR 15' FACE,(12) 126" ANT	3402.74			12	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	3	3		
MCG23RHDXL-15M1596	MONO 3 SCTR FR 15' FACE,(15) 96" ANT	3409.83			15	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	3	-	3	3
MCG23RHDXL15M15126	MONO 3 SCTR FR 15' FACE,(15) 126" ANT	3636.11			15	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	3	-	3	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 (FT²)	(EPA)A W/ 1/2" ICE THICKNESS (FT²)
2-7/8" X 96"	1.84	2.48
2-7/8" X126"	2.42	3.26

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: MCG23RHDXL-12M1296 HAS A 3-SECTOR EPA OF 29.21 FT² WITH NO ICE PLUS 12 ANTENNA PIPES WITH A 3-SECTOR EPA OF 12X1.84=22.08 FT² WITH NO ICE.
SO, THE TOTAL EPA OF 51.29 FT² FOR THE MCG23RHDXL-12M1296.

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TITLE
MCG23RHDXL SECTOR FRAME SERIES

SIZE C	SCALE 1:30	DOCUMENT NO. MCG23RHDXL			SHEET 2
		DRAWING			
		VERSION	STATUS	REVISION	
		04	RE	E	

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C

B

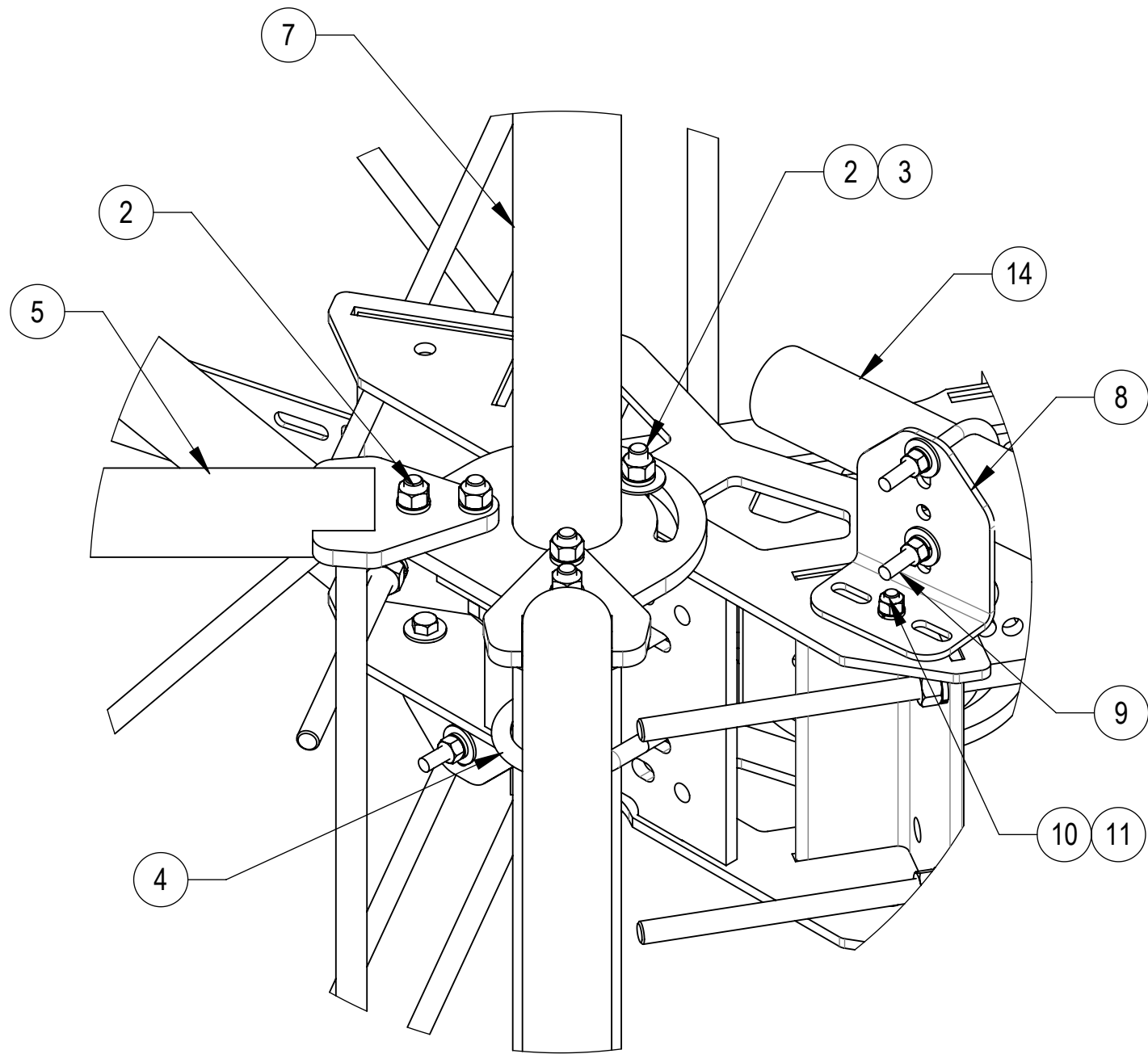
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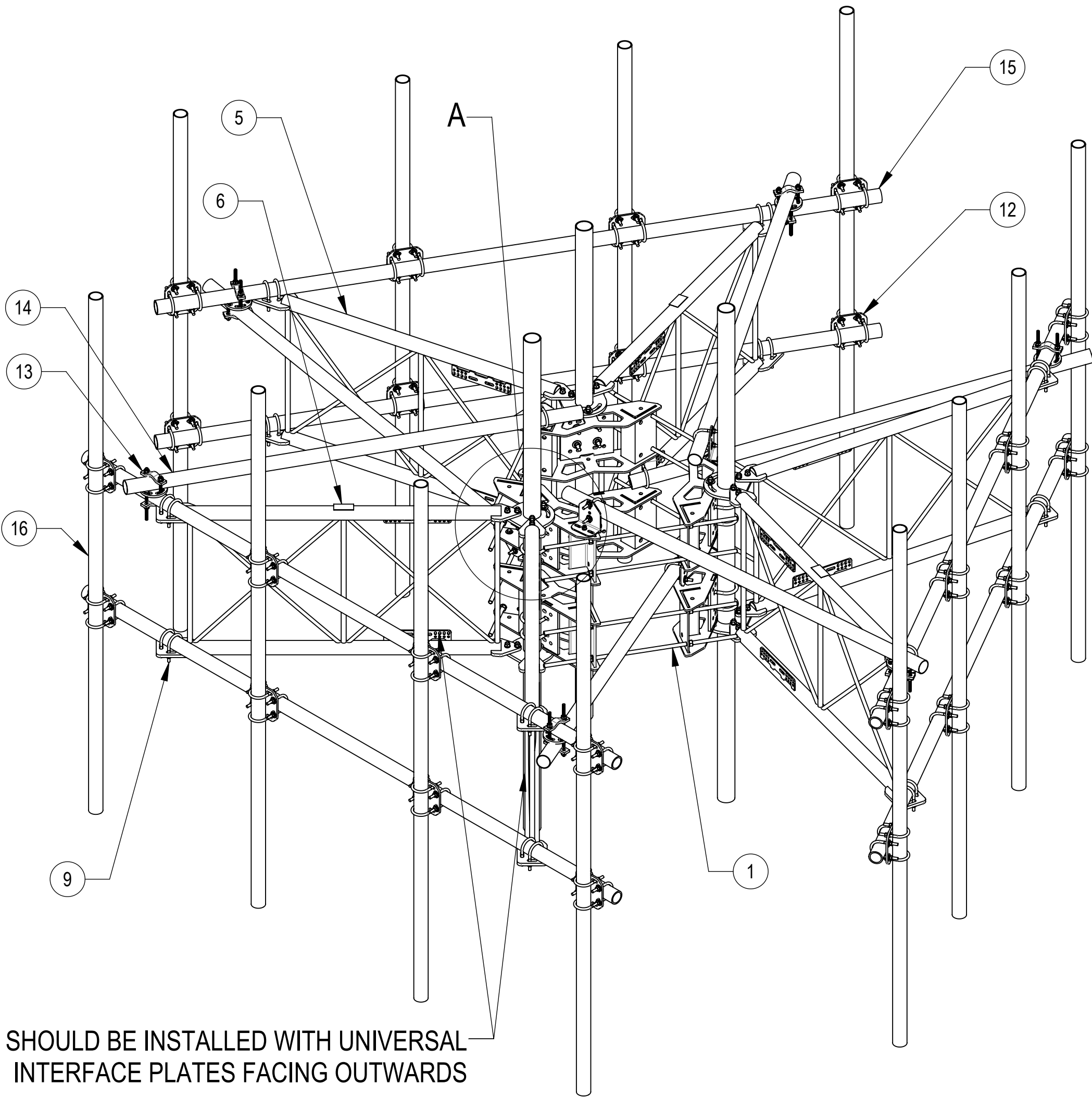
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A



DETAIL A
SCALE 1 : 5

MCG23RHDXL12M12126 SHOWN FOR REFERENCE
(NOT ALL CONFIGURATIONS INCLUDE ALL ITEMS SEE NOTES IN TABLE)



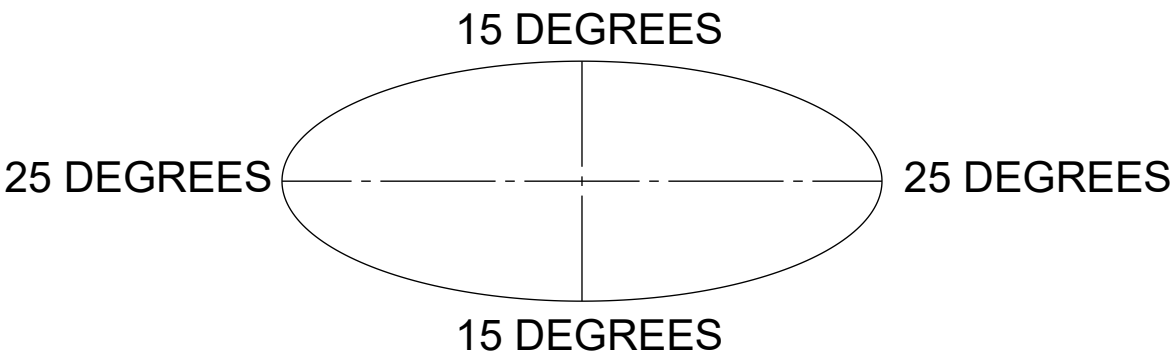
SHOULD BE INSTALLED WITH UNIVERSAL
INTERFACE PLATES FACING OUTWARDS

TOP
↓
BOTTOM

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 NO.
1	MC-RM1550-3	15" - 50" OD RINGMOUNT	2	229.90 LBS	
2	GB-05225	5/8" X 2-1/4" GALV BOLT KIT	30	0.28 LBS	
3	GW-F-05	5/8" GALV FLAT WASHER, 1.7OD	6	0.06 LBS	
4	GUB-53560	5/8" X 3-5/8" X 6" GALV U-BOLT	12	1.30 LBS	
5	SFG23180-00	ARM, STANDOFF, SFG23	6	123.29 LBS	
6	SFG23100	LABEL, SFG23RHDXL	3	0.03 LBS	
7	SFG2204	WELDMENT, BACK VERTICAL ARM MOUNT	3	97.29 LBS	
8	XAU01	ANGLE, CROSSOVER, 1.9-3.5" X 1.9-3.5" OD	6	2.98 LBS	
9	GUB-4352	1/2" X 3" X 5-1/4" GALV U-BOLT	30	0.71 LBS	
10	GB-04145	1/2" X 1-1/2" GALV BOLT KIT	6	0.13 LBS	
11	GW-F-04	1/2" GALV FLAT WASHER	6	0.04 LBS	
12	XP-2525	CROSSOVER PLATE KIT, 2-7/8 OD X 2-7/8 OD	24	8.37 LBS	QTY SEE INDIVIDUAL DRAWING
13	XP-R	CROSSOVER PLATE, ROUND, UP TO 3.5" OD	6	6.20 LBS	
14	MT54696120	PIPE, 2.875"OD X 96"	6	28.35 LBS	
15	MT546150276	PIPE, 2.875"OD X 150"	6	96.11 LBS	PART NO. SEE INDIVIDUAL DRAWING
16	MT-546-126	PIPE, 2.875"OD X 126"	12	61.05 LBS	PART NO. AND QTY SEE INDIVIDUAL DRAWING

ALLOWABLE TIEBACK ANGLE
± 15 DEGREES VERTICAL
± 25 DEGREES HORIZONTAL

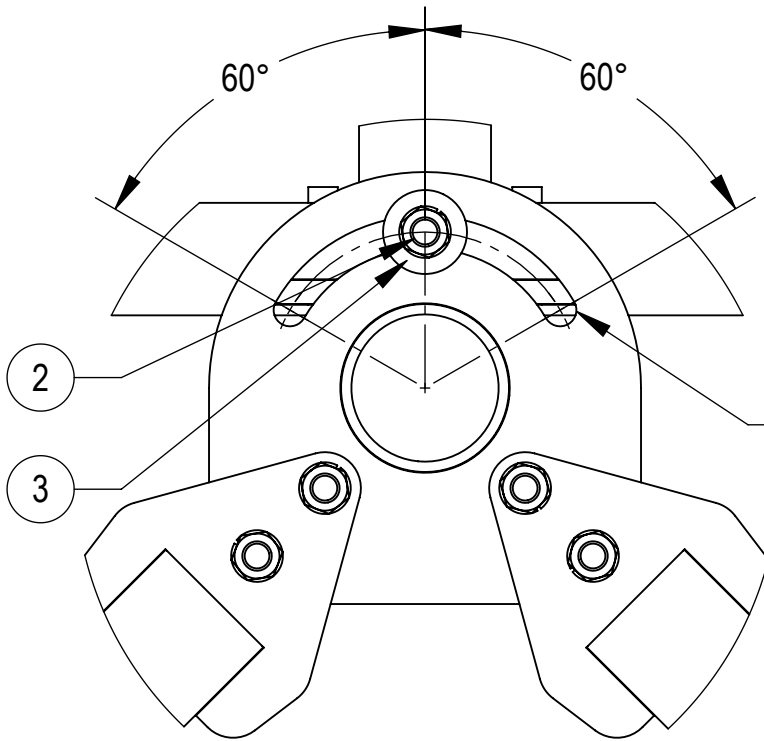
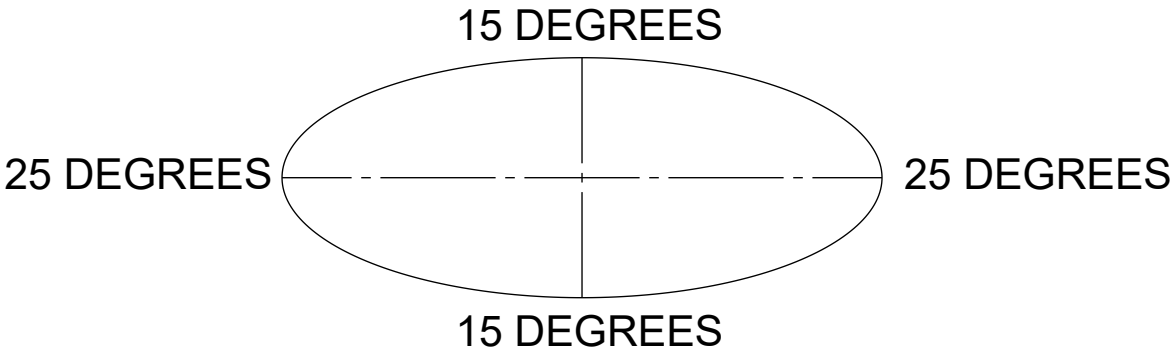


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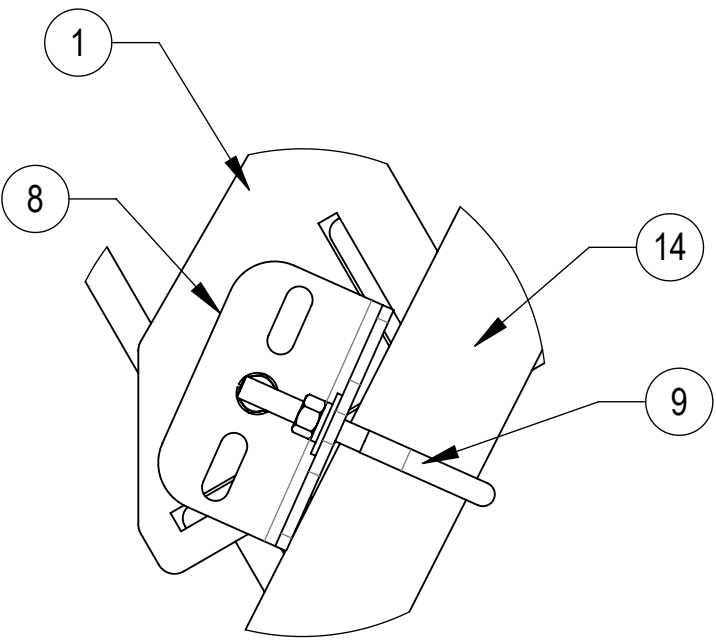
					
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SIZE C	SCALE 1:20	DOCUMENT NO. MCG23RHDXL			
 		DRAWING			SHEET 3 OF 10
		VERSION 04	STATUS RE	REVISION E	

ALLOWABLE TIEBACK ANGLE

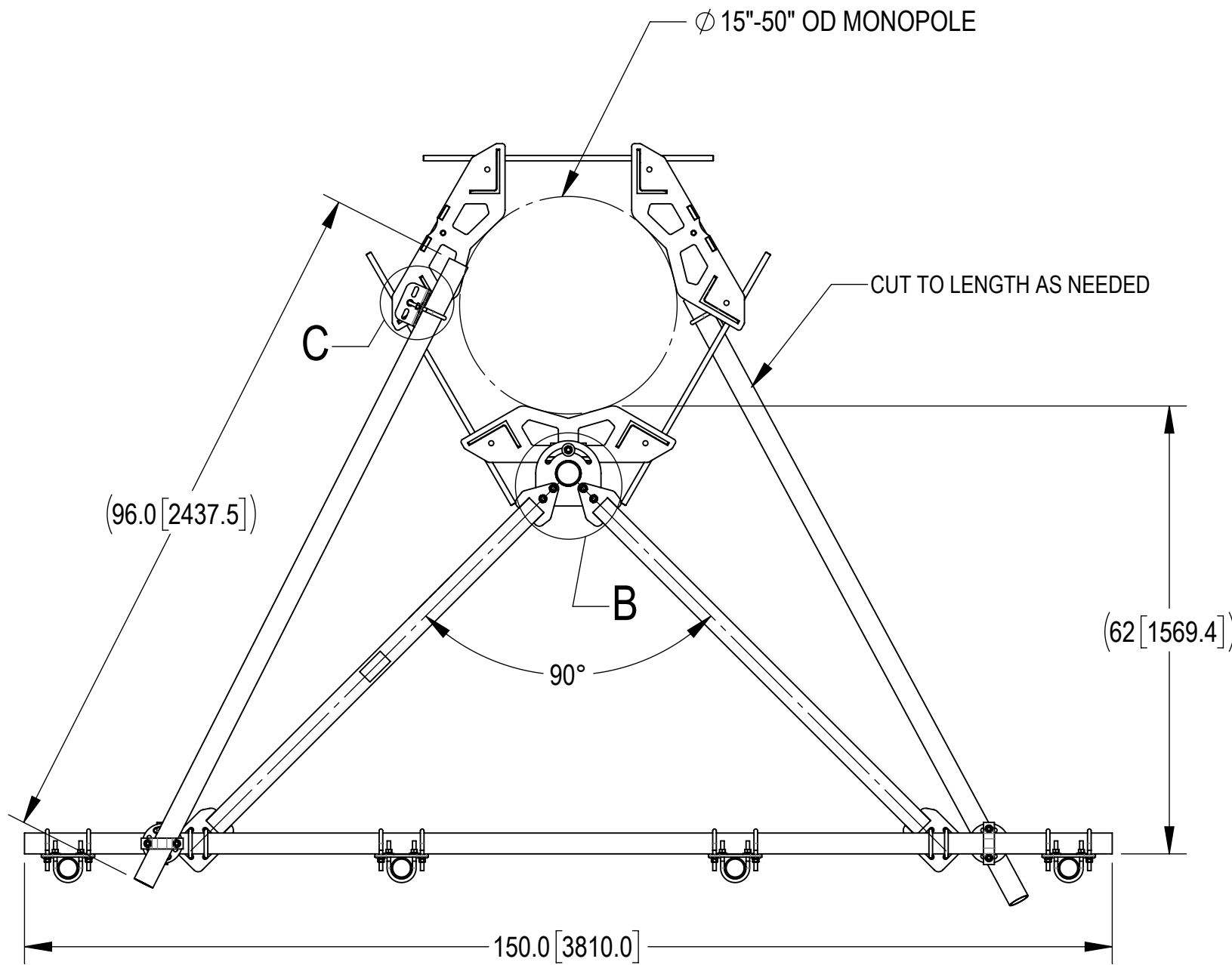
± 15 DEGREES VERTICAL
± 25 DEGREES HORIZONTAL



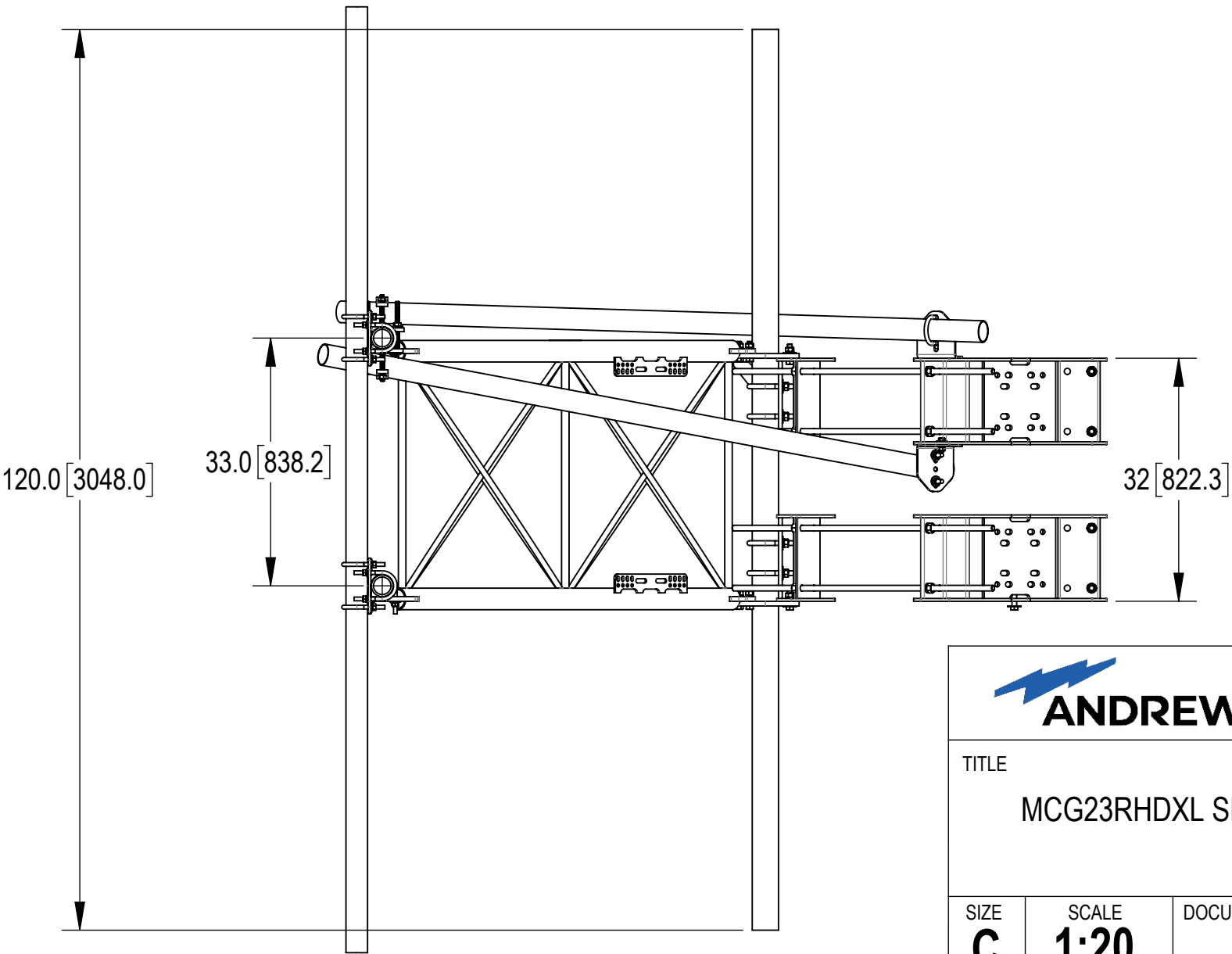
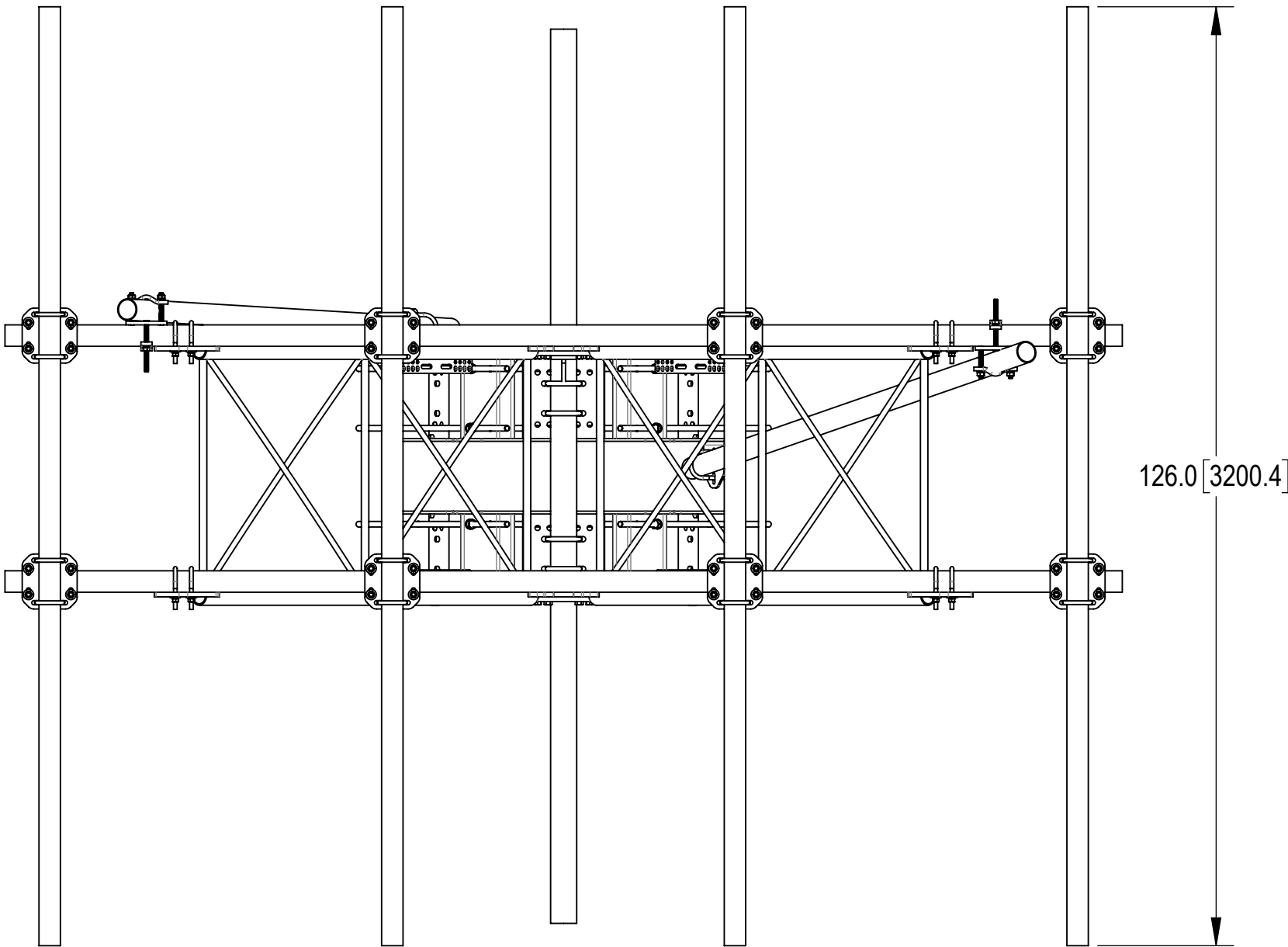
DETAIL B
SCALE 1 : 4



DETAIL C
SCALE 1 : 4



MCG23RHDXL12M12126 SHOWN FOR REFERENCE
(NOT ALL CONFIGURATIONS INCLUDE ALL ITEMS SEE NOTES IN TABLE ON SHEET 3)



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TITLE
MCG23RHDXL SECTOR FRAME SERIES

SIZE	SCALE	DOCUMENT NO.			
C	1:20	MCG23RHDXL			
 	DRAWING			SHEET 4 OF 10	
	VERSION	STATUS	REVISION		
	04	RE	E		

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4

3

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1

D

D

C

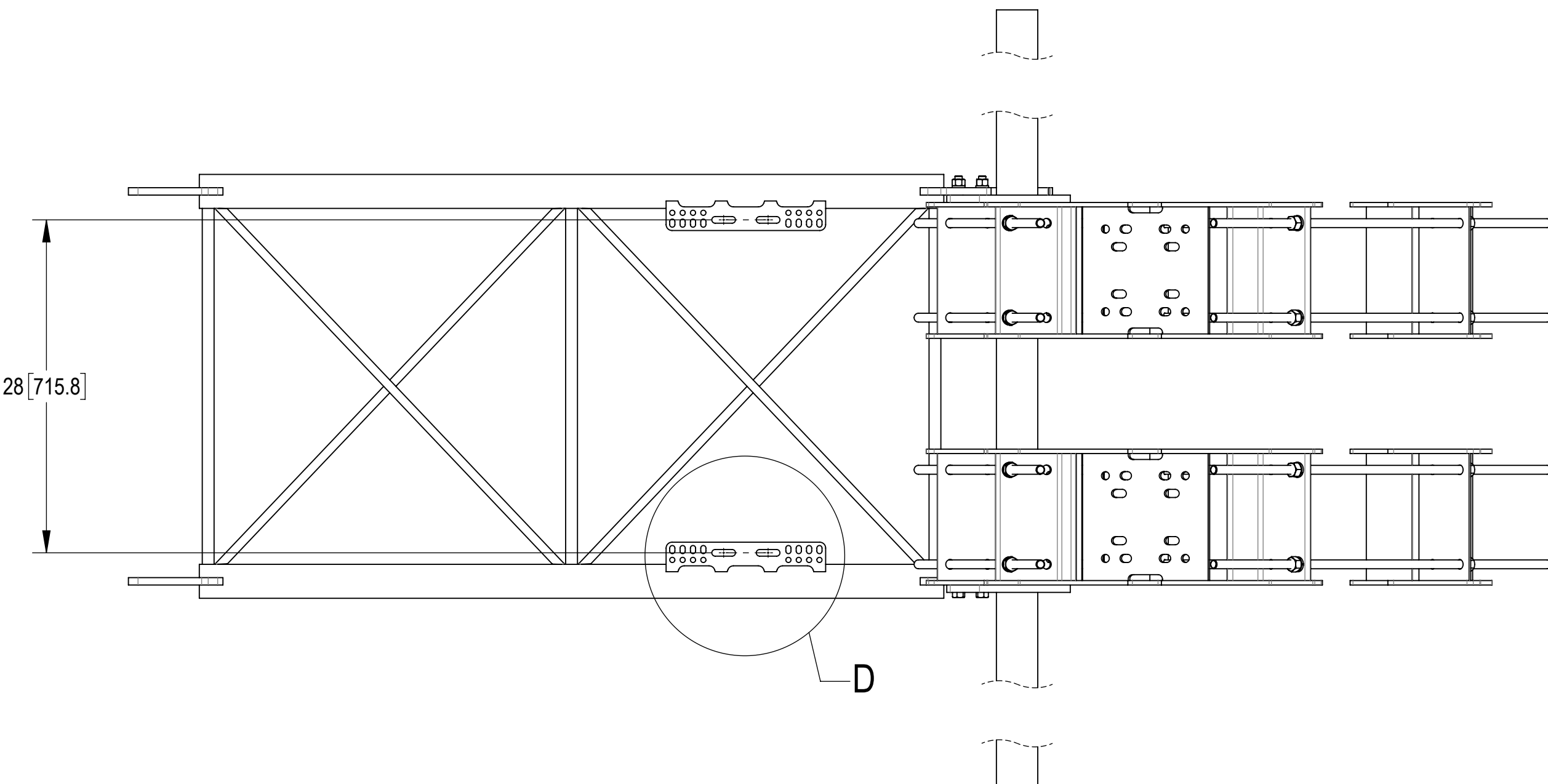
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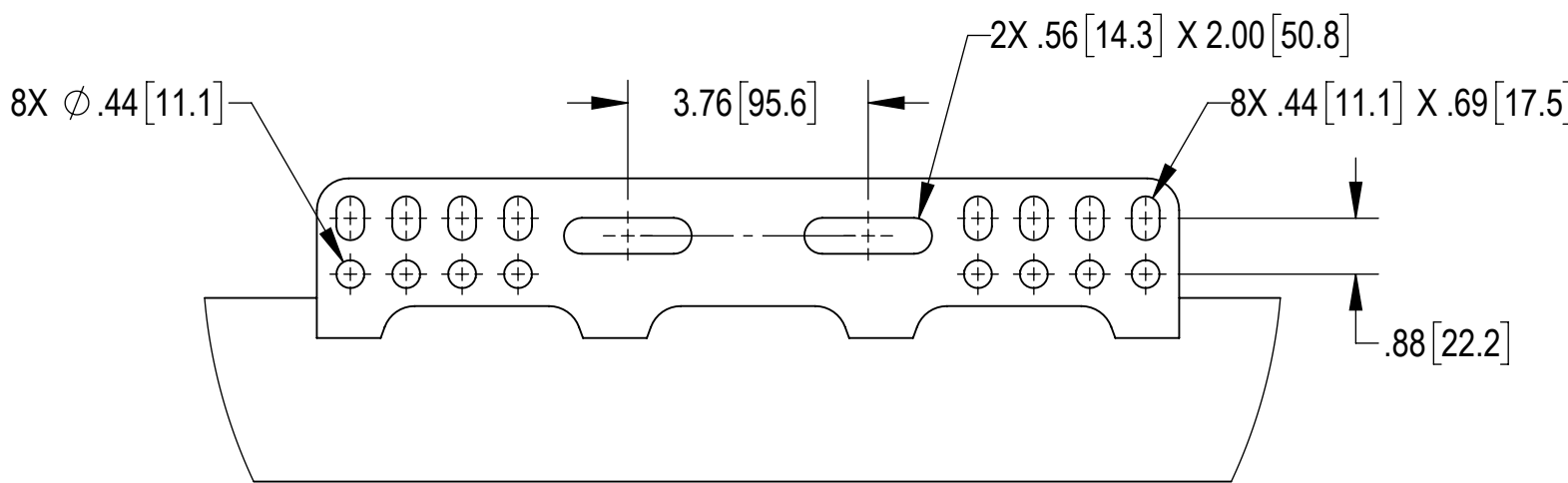
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A

A



SIDE VIEW



DETAIL D
SCALE 1 : 3



TITLE
MCG23RHDXL SECTOR FRAME SERIES

SIZE C	SCALE 1:10	DOCUMENT NO. MCG23RHDXL		
		DRAWING		
		VERSION 04	STATUS RE	REVISION E
		SHEET 5 OF 10		

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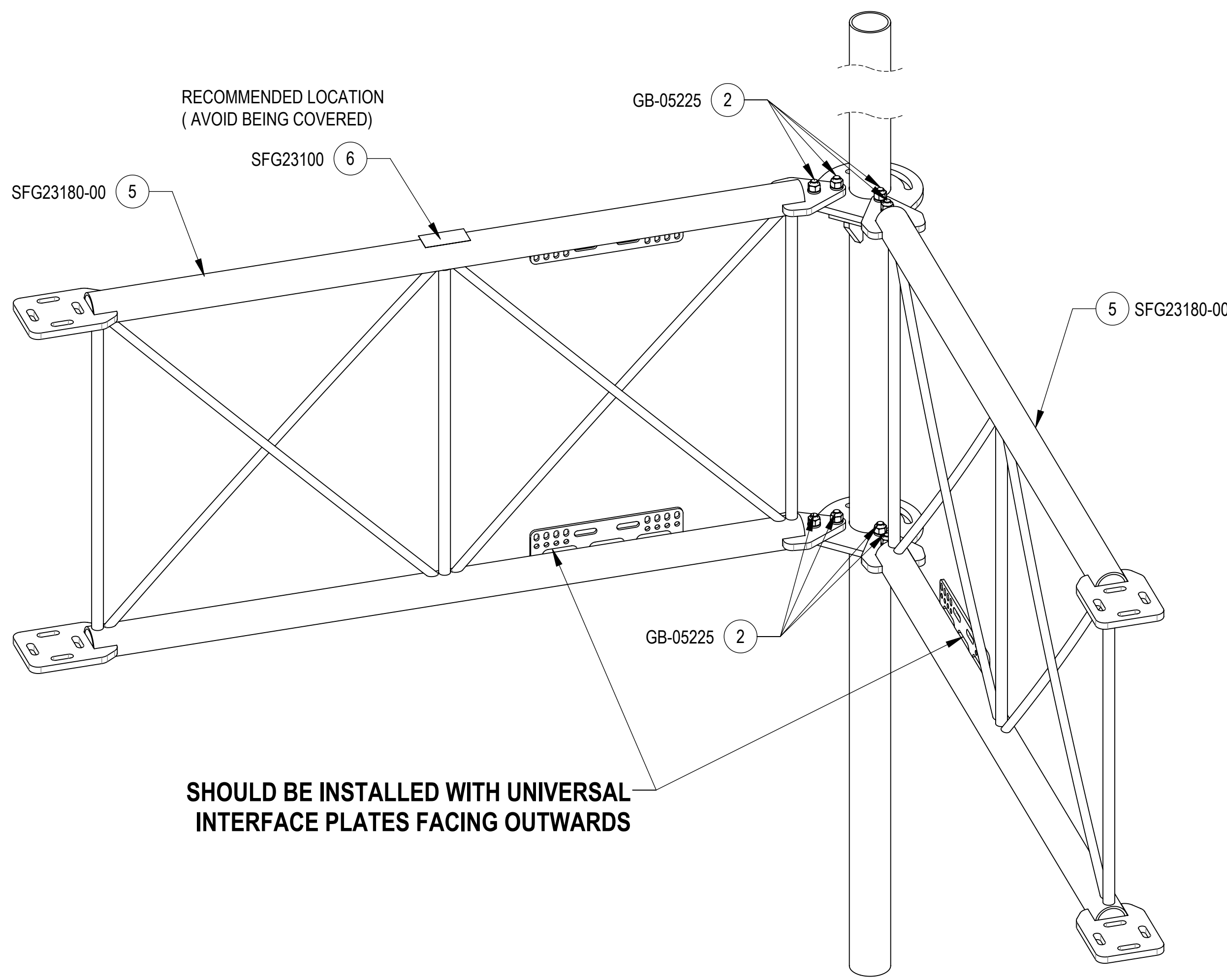
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1

4 3 2 1

INSTALLATION SEQUENCE - REFERENCE ONLY
STEP 1: ATTACH STANDOFF ARMS (SFG23180-00) TO BACK VERTICAL ARM MOUNT (SFG2204) USING (GB-05225) BOLT KITS
ATTACH LABEL (SFG23100) ON TOP OF STANDOFF ARMS(SFG23180-00) . (WIPE GALVANIZED SURFACE WITH ALCOHOL CLEANER BEFORE APPLYING LABEL.)

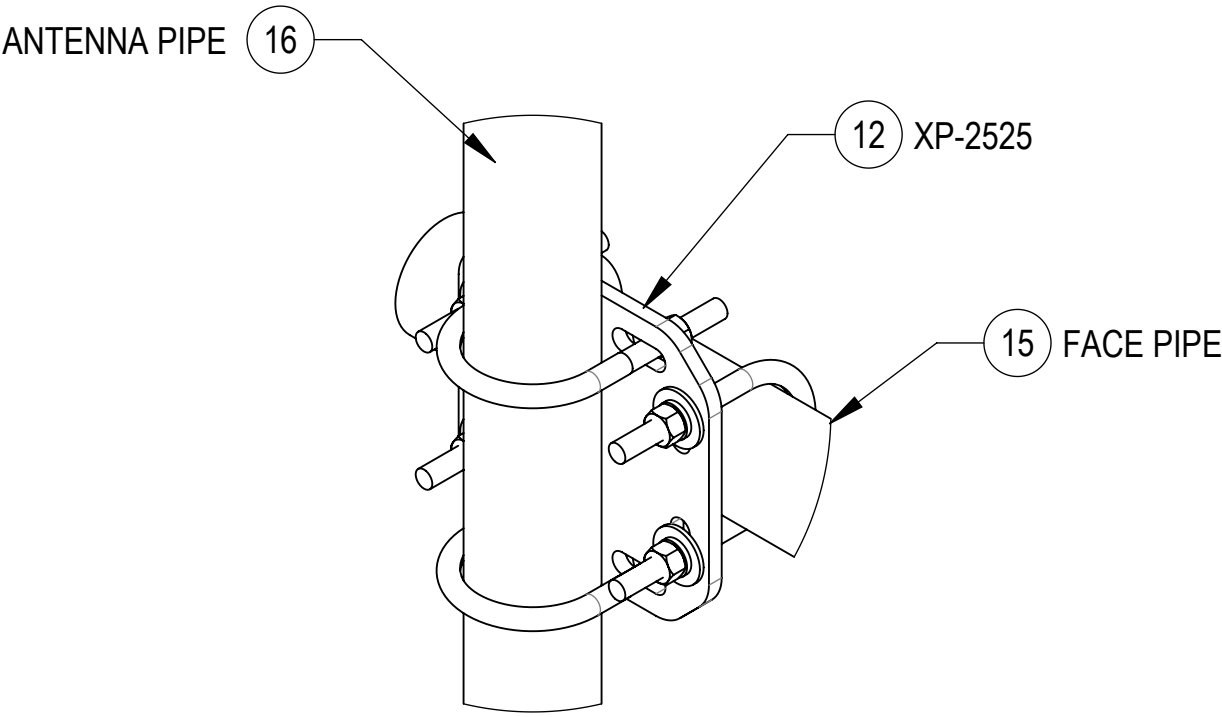
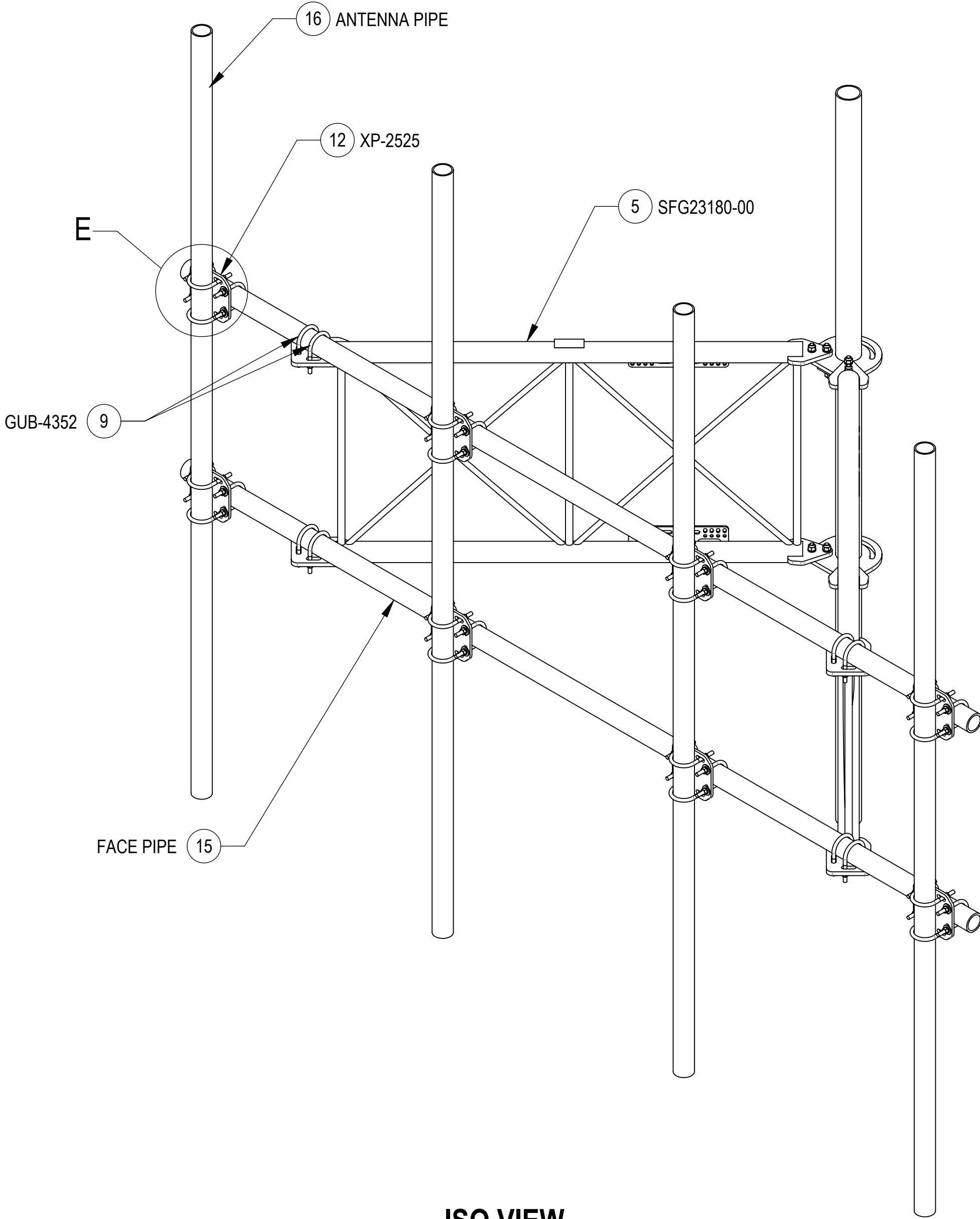


ISO VIEW

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TITLE MCG23RHDXL SECTOR FRAME SERIES				
SIZE C	SCALE 1:10	DOCUMENT NO. MCG23RHDXL		
 		DRAWING		
		VERSION 04	STATUS RE	REVISION E
SHEET 6 OF 10				

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STEP 2: ATTACH FACE PIPES TO STANDOFF ARMS (SFG23180-00) USING U-BOLTS (GUB-4352)
AND THEN ATTACH ANTENNA PIPES TO FACE PIPES USING CROSSOVER PLATE KITS (XP-2525).



DETAIL E
SCALE 1 : 4

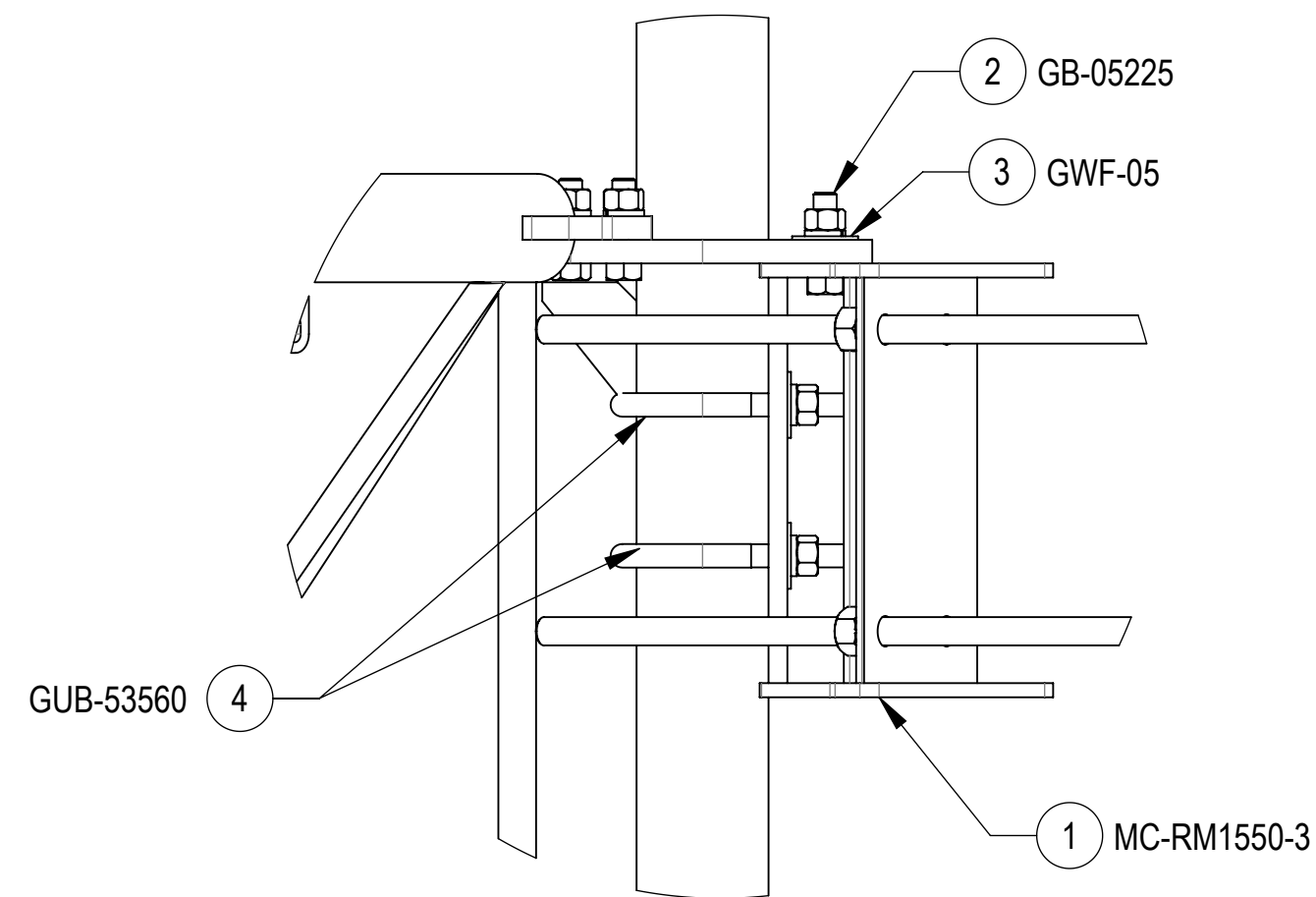
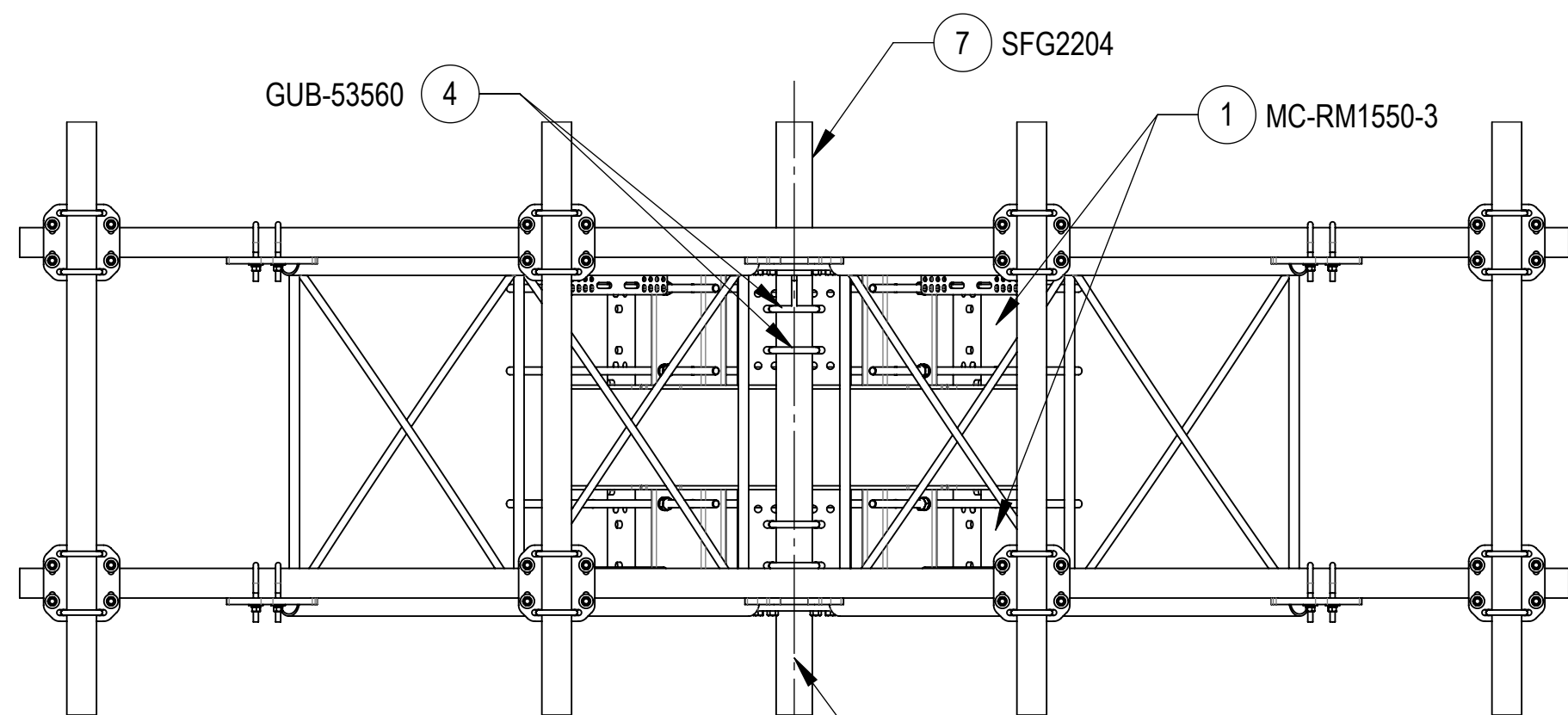
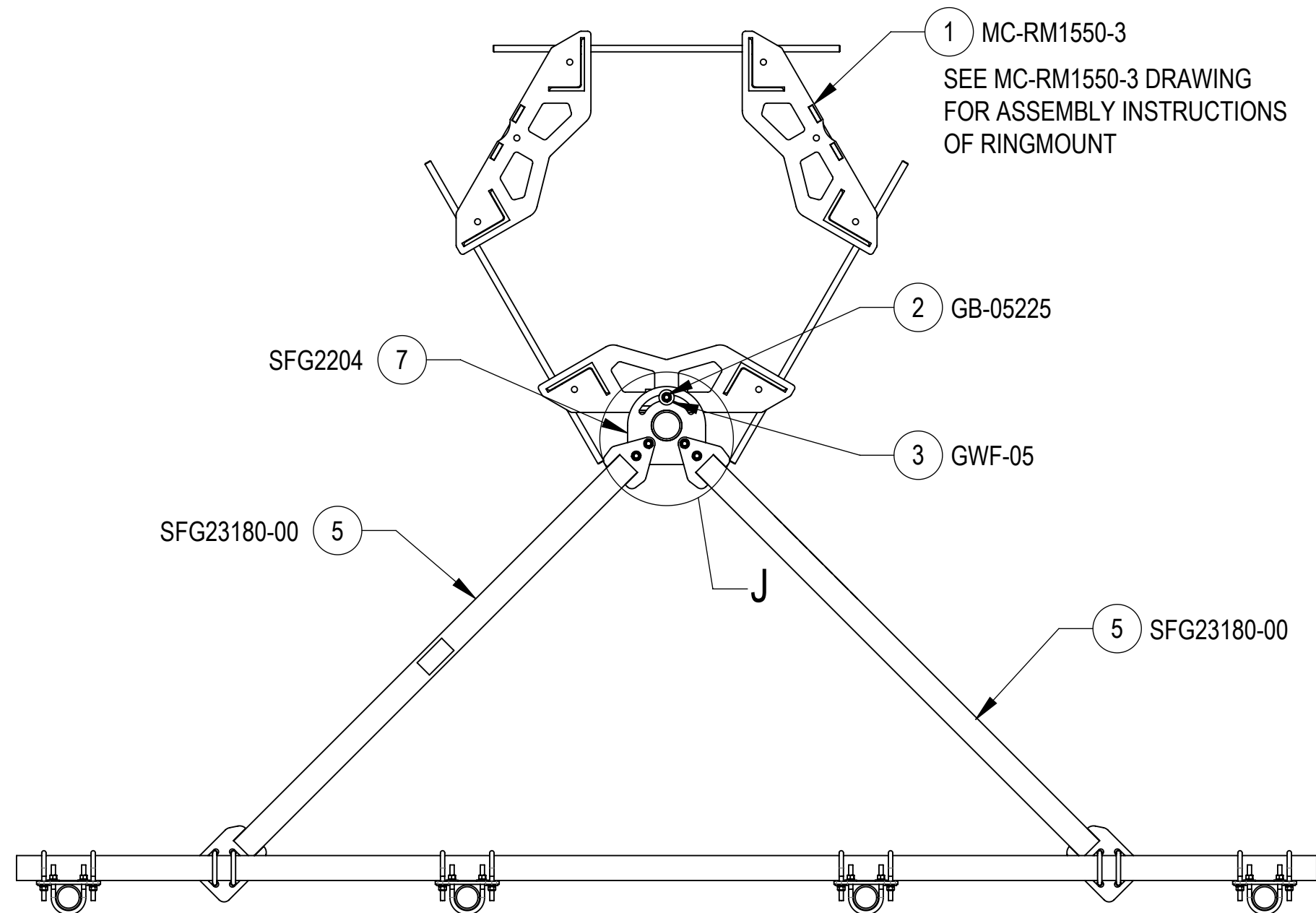
TOP
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BOTTOM

ISO VIEW

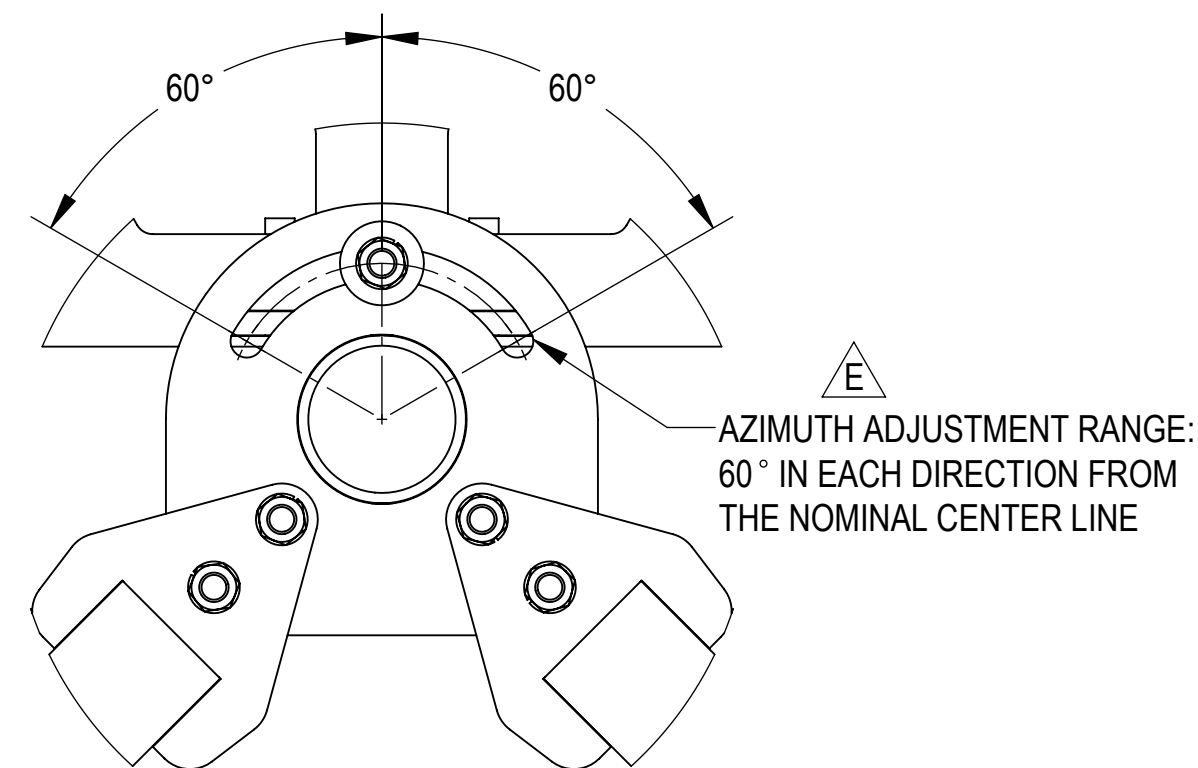
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SIZE C	SCALE 1:13	DOCUMENT NO. MCG23RHDXL		
		DRAWING		
		VERSION 04	STATUS RE	REVISION E
				SHEET 7 OF 10

STEP 3: ATTACH BACK VERTICAL ARM MOUNT (SFG2204) TO RINGMOUNT (MC-RM1550-3) USING BOLT KITS (GB-05225), FLAT WASHERS (GWF-05) AND U-BOLTS (GUB-53560)



SIDE CROP VIEW



DETAIL J
SCALE 1 : 4

TOP

BOTTOM

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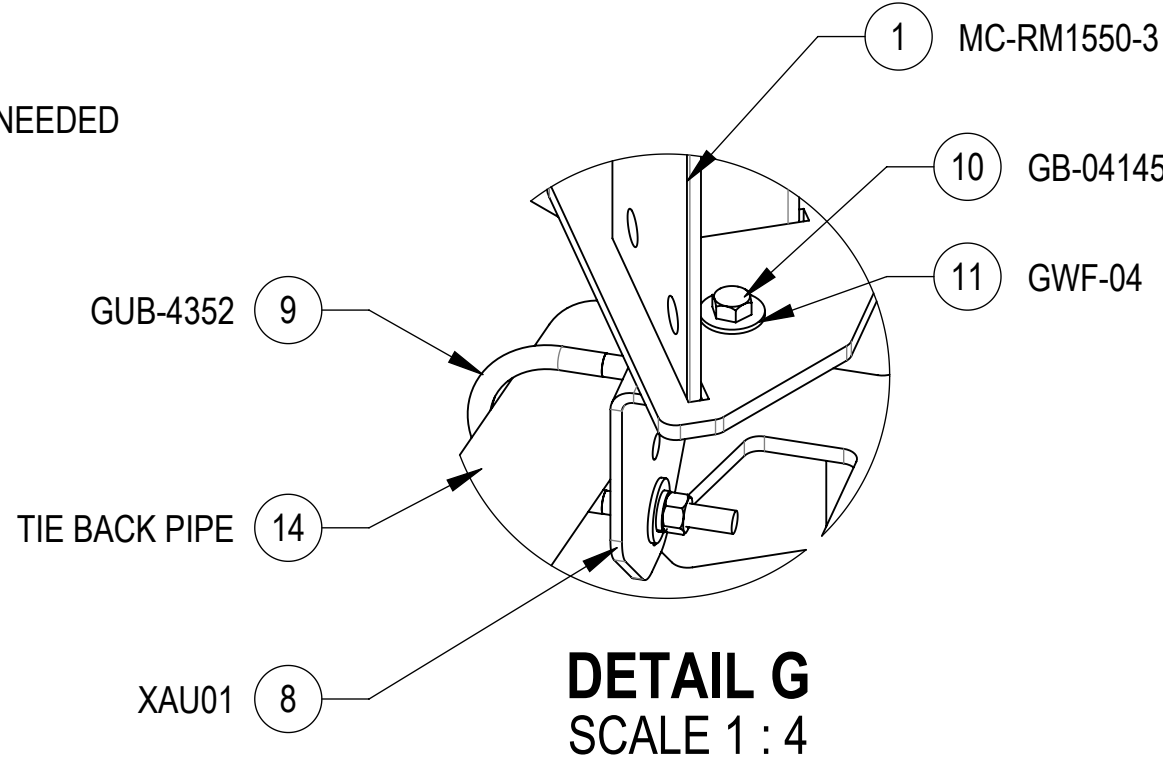
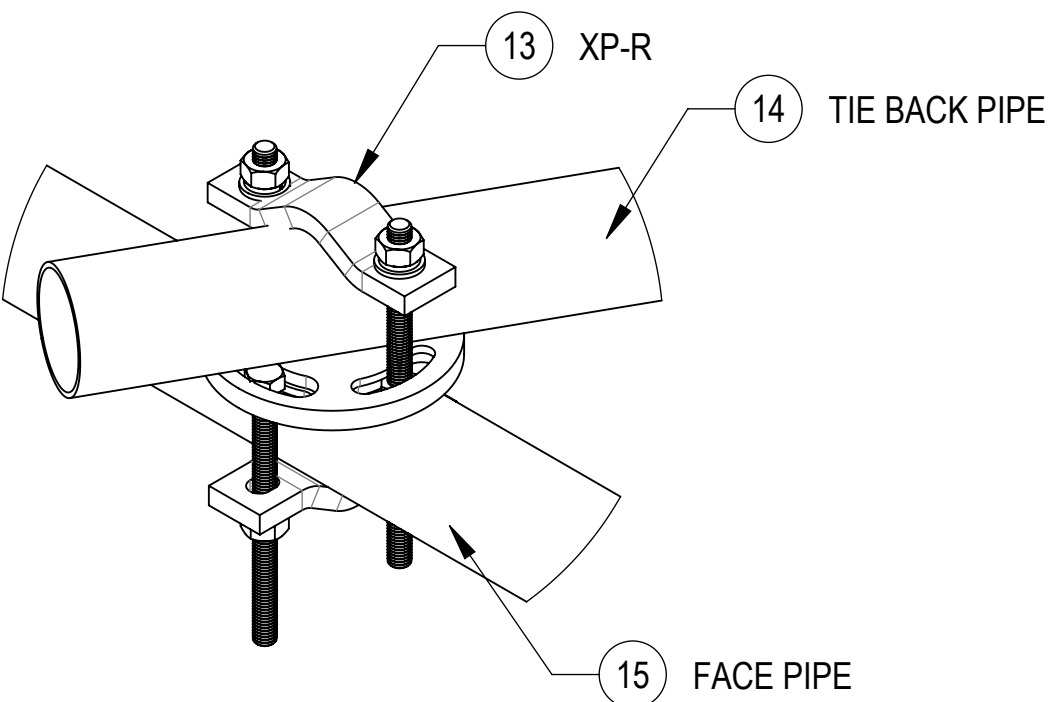
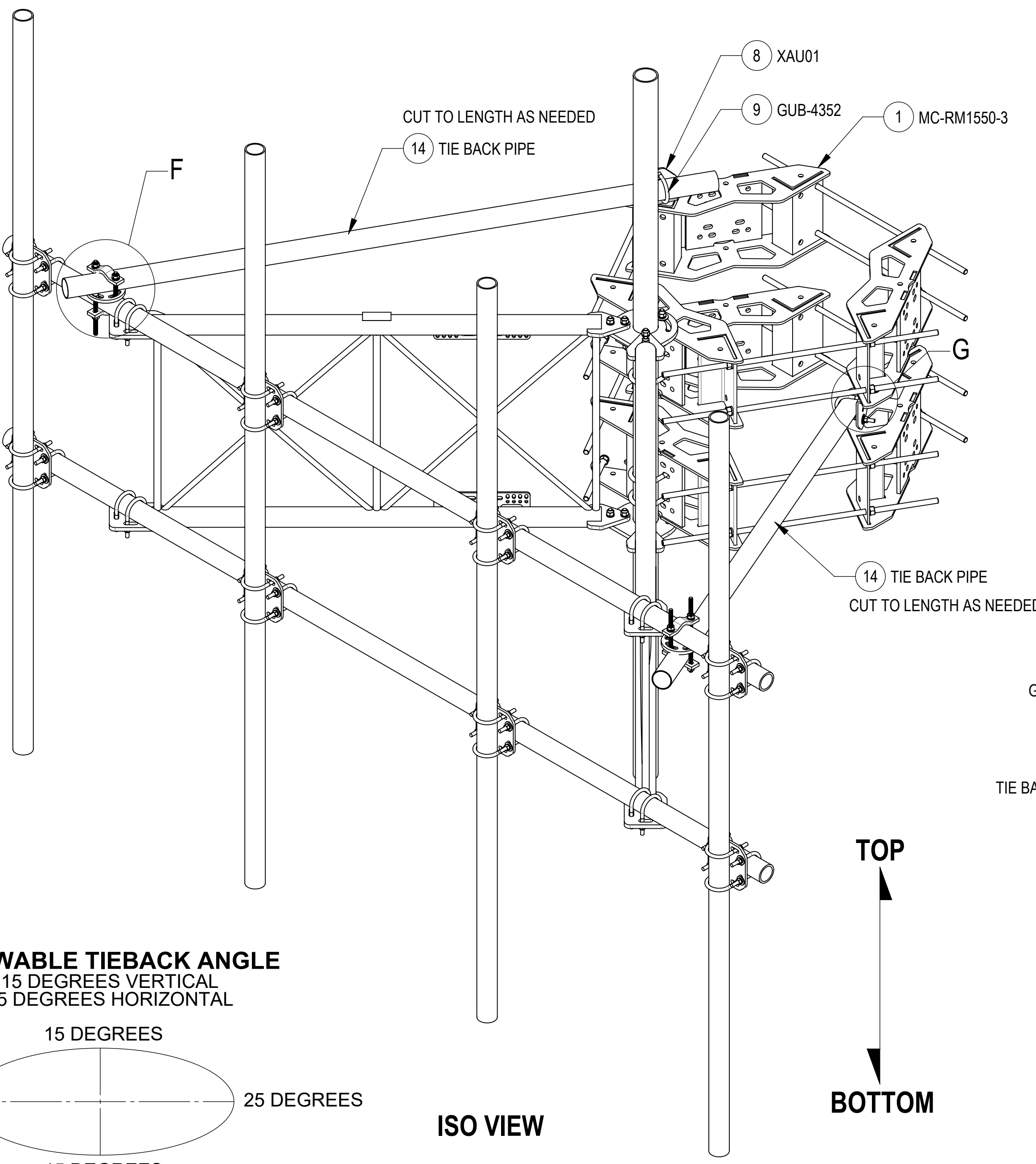
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TITLE
MCG23RHDXL SECTOR FRAME SERIES

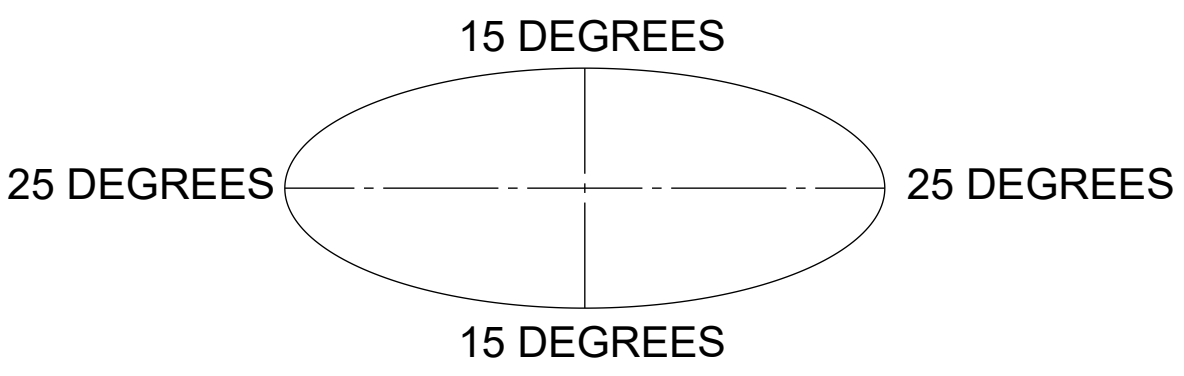
SIZE	SCALE	DOCUMENT NO.			
C	1:10	MCG23RHDXL			
		DRAWING			SHEET 8 OF 10
		VERSION	STATUS	REVISION	
		04	RE	E	

STEP 4: ATTACH TIE BACK PIPES TO FACE PIPES USING XP-R

STEP 5: ATTACH TIE BACK PIPES TO RINGMOUNT (MC-RM1550-3) USING CROSSOVER ANGLES (XAU01), BOLT KITS (GB-04145), FLAT WASHERS (GWF-04) AND U-BOLTS (GUB-4352)

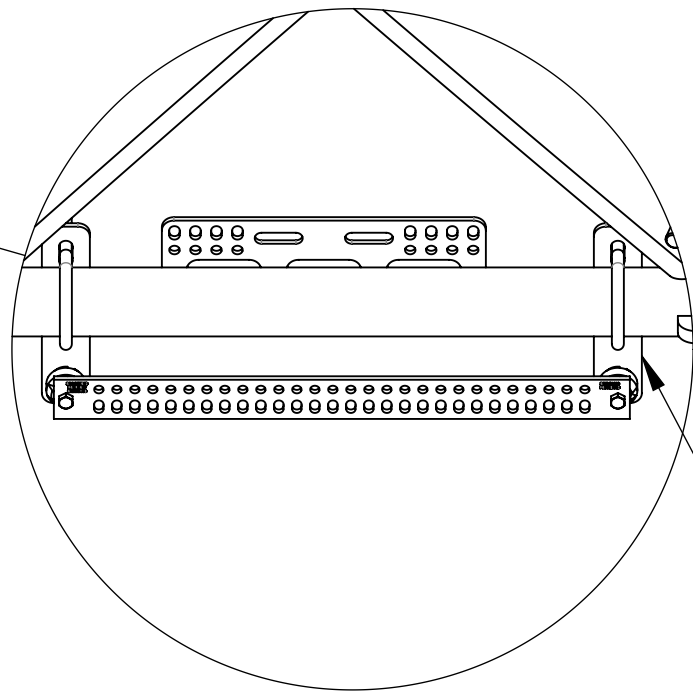
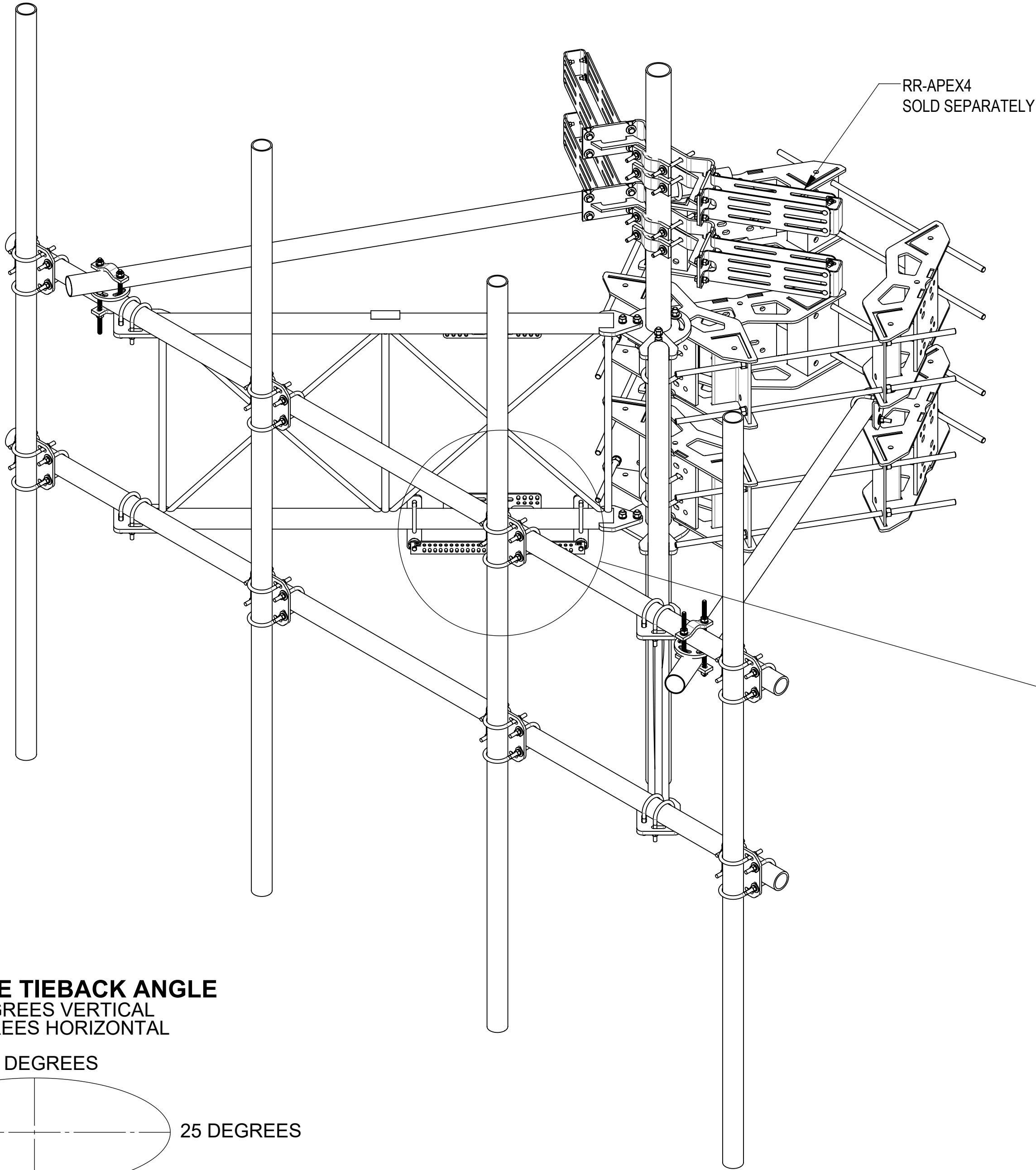


ALLOWABLE TIEBACK ANGLE
±15 DEGREES VERTICAL
±25 DEGREES HORIZONTAL



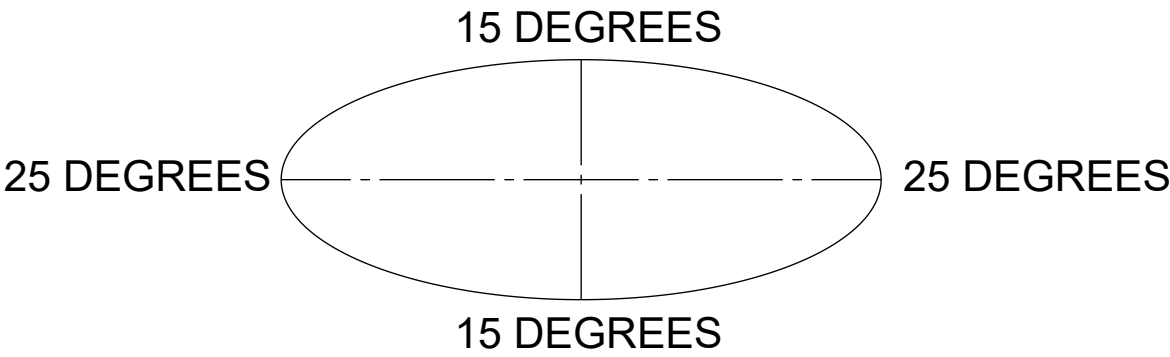
				
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SIZE C	SCALE 1:15	DOCUMENT NO. MCG23RHDXL		
 		DRAWING		
		VERSION 04	STATUS RE	REVISION E
Confidential		SHEET 9 OF 10		

OPTIONAL ACCESSORIES:



DETAIL H
SCALE 1 : 8

ALLOWABLE TIEBACK ANGLE
±15 DEGREES VERTICAL
±25 DEGREES HORIZONTAL



TITLE
MCG23RHDXL SECTOR FRAME SERIES

SIZE C	SCALE 1:12	DOCUMENT NO. MCG23RHDXL			
 		DRAWING			SHEET 10 OF 10
		VERSION	STATUS	REVISION	
		04	RE	E	

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