

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VXDW45	XTREME DUTY 45" VERTICAL SUPPORT ARM		100.07	200.13
2	1	BCAM-HD	HEAVY DUTY BOLT CALIBRATED ANGLE MAINSTAY		147.01	147.01
3	2	SPTB	SLIDING TIE-BACK ASSEMBLY KIT		93.55	187.10
4	2	P30180	2-7/8" O.D. x 180" SCH. 40 PIPE	180 in	87.10	174.20
5	1	VFAPL4-K	HD FRAME PIVOT PLATE KIT		39.25	39.25
6	8	SCX2-K	CROSSOVER PLATE KIT		8.84	70.73
7	1	VFAHD-FACEHW	HARDWARE KIT FOR VFA SECTOR FRAME		17.93	17.93
TOTAL WT. #					836.36	

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF

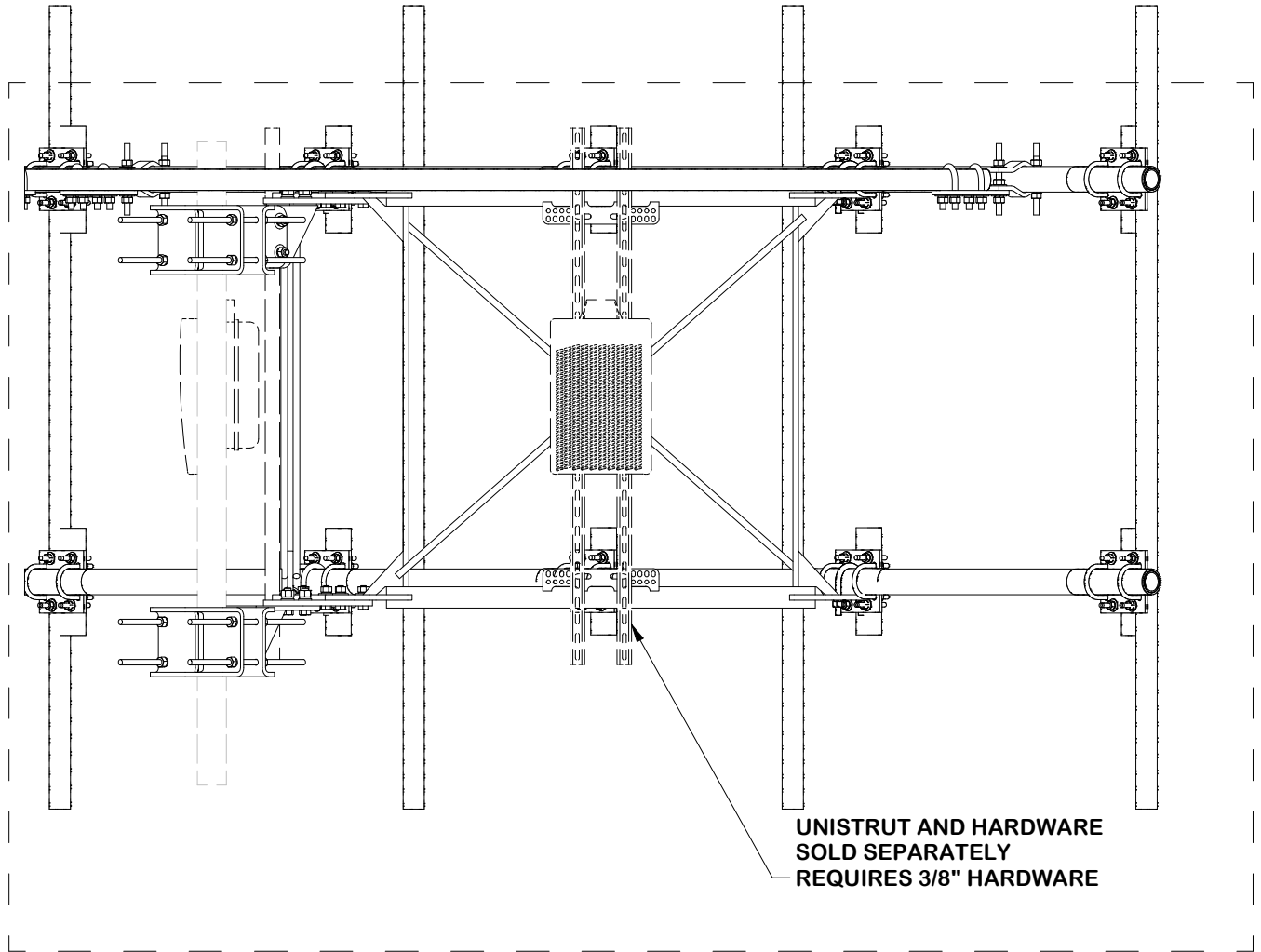
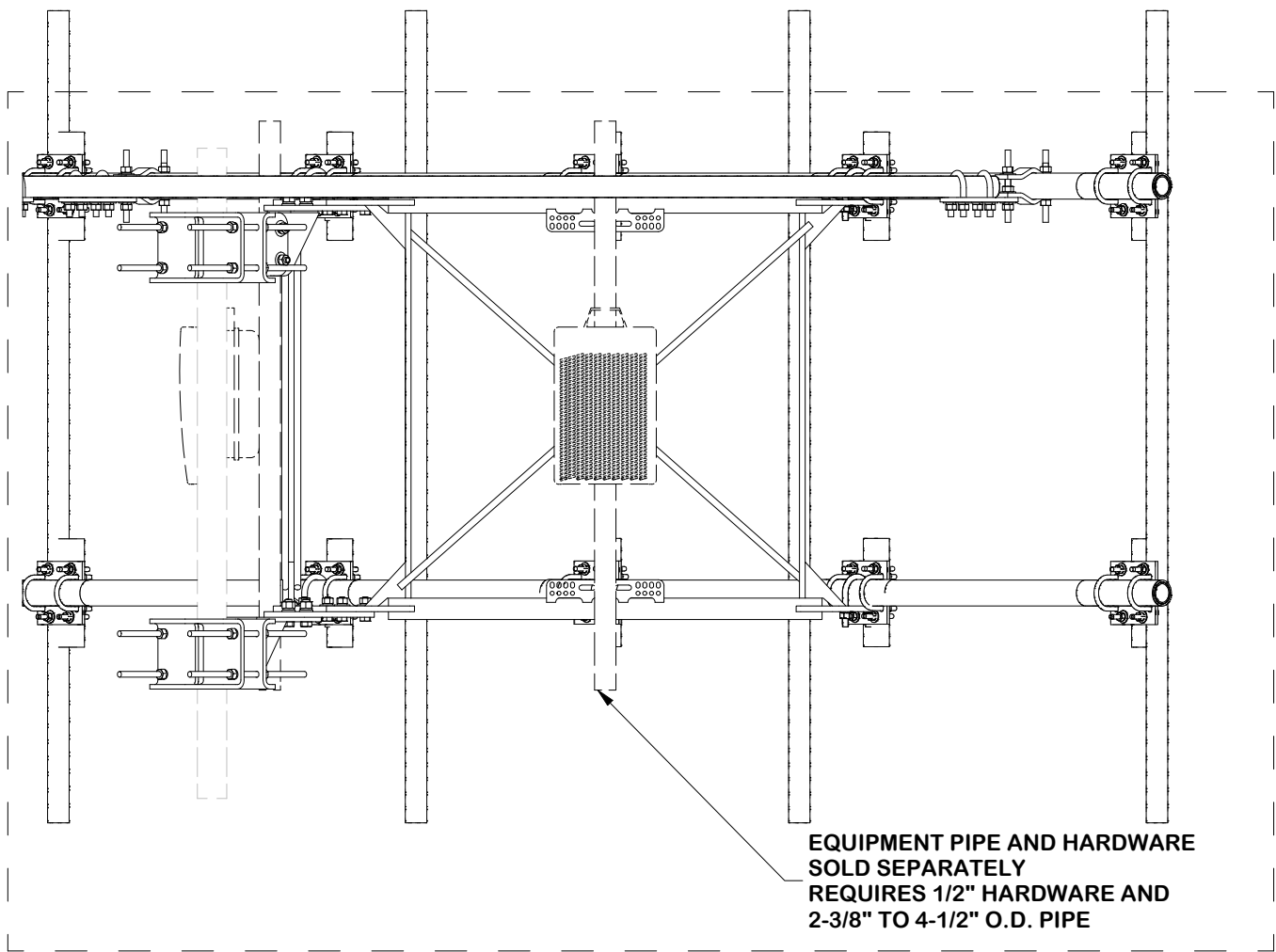
CPD NO.		DRAWN BY		ENG. APPROVAL	
SP1		KS 10/3/2024		2/17/2025	
CLASS	SUB	DRAWING USAGE		CHECKED BY	
87	02	CUSTOMER		JET 2/17/2025	



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PART NO.	VFA14-XD
DWG. NO.	VFA14-XD



V-BOOM ARM RRU MOUNTING
UNISTRUT OR PIPE

TOLERANCE NOTES

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CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 2/17/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET	2/17/2025

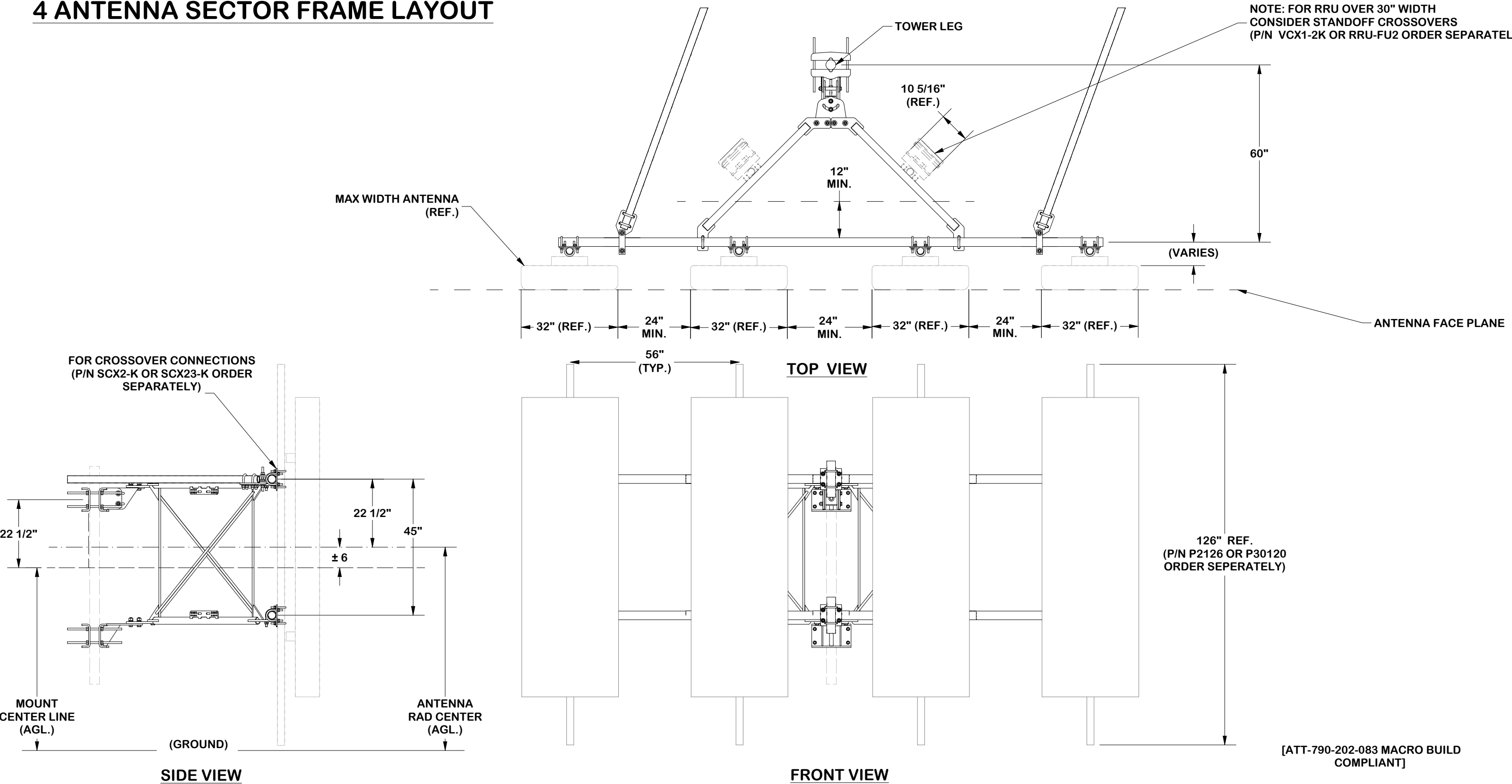


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PART NO.	VFA14-XD
DWG. NO.	VFA14-XD

4 ANTENNA SECTOR FRAME LAYOUT



TOLERANCE NOTES

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CPD NO.

SP1

DRAWN BY

KS 10/3/2024

ENG. APPROVAL

2/17/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

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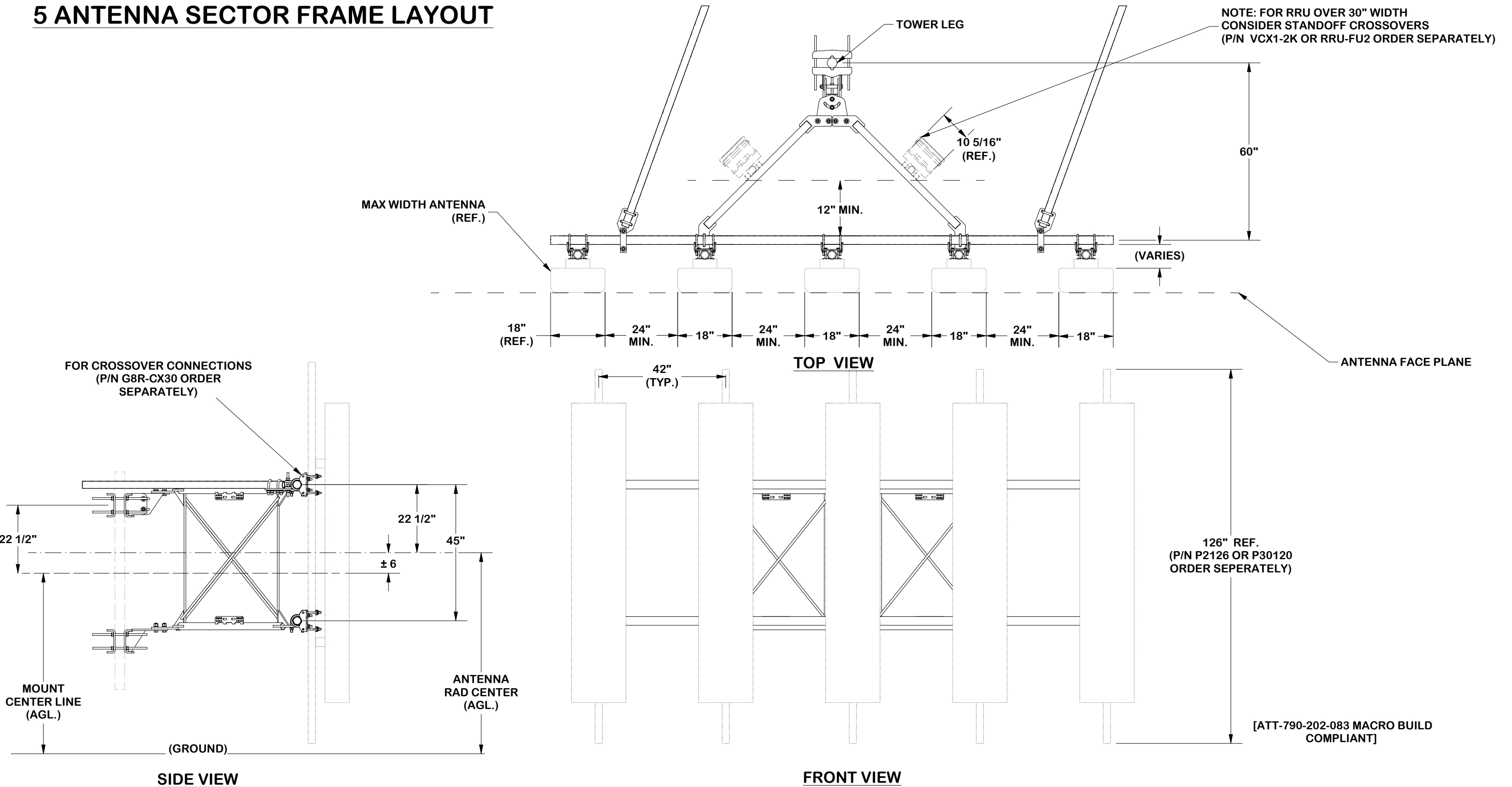
PART NO.

VFA14-XD

DWG. NO.

VFA14-XD

5 ANTENNA SECTOR FRAME LAYOUT



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CLASS

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SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

JET 2/17/2025



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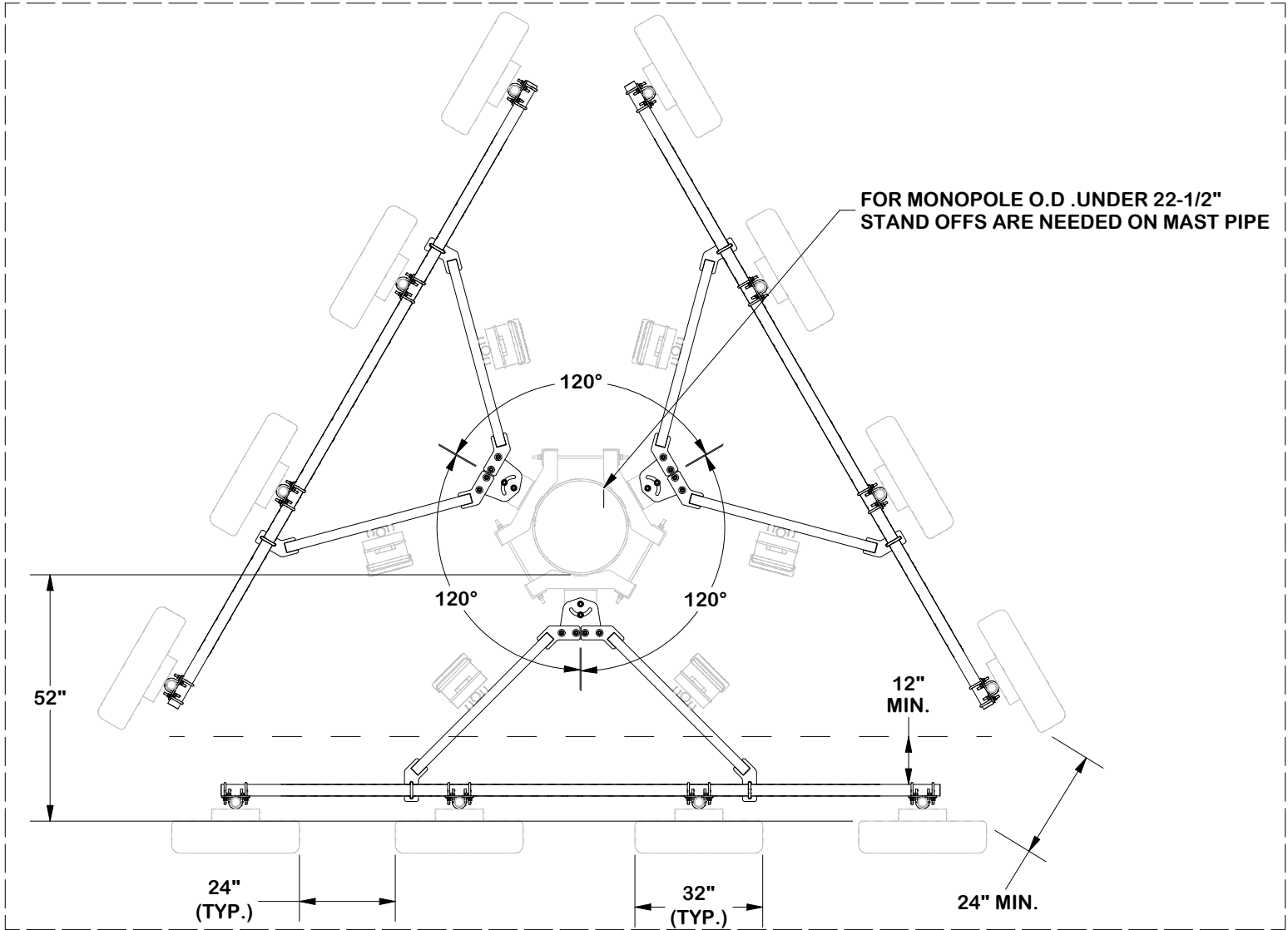
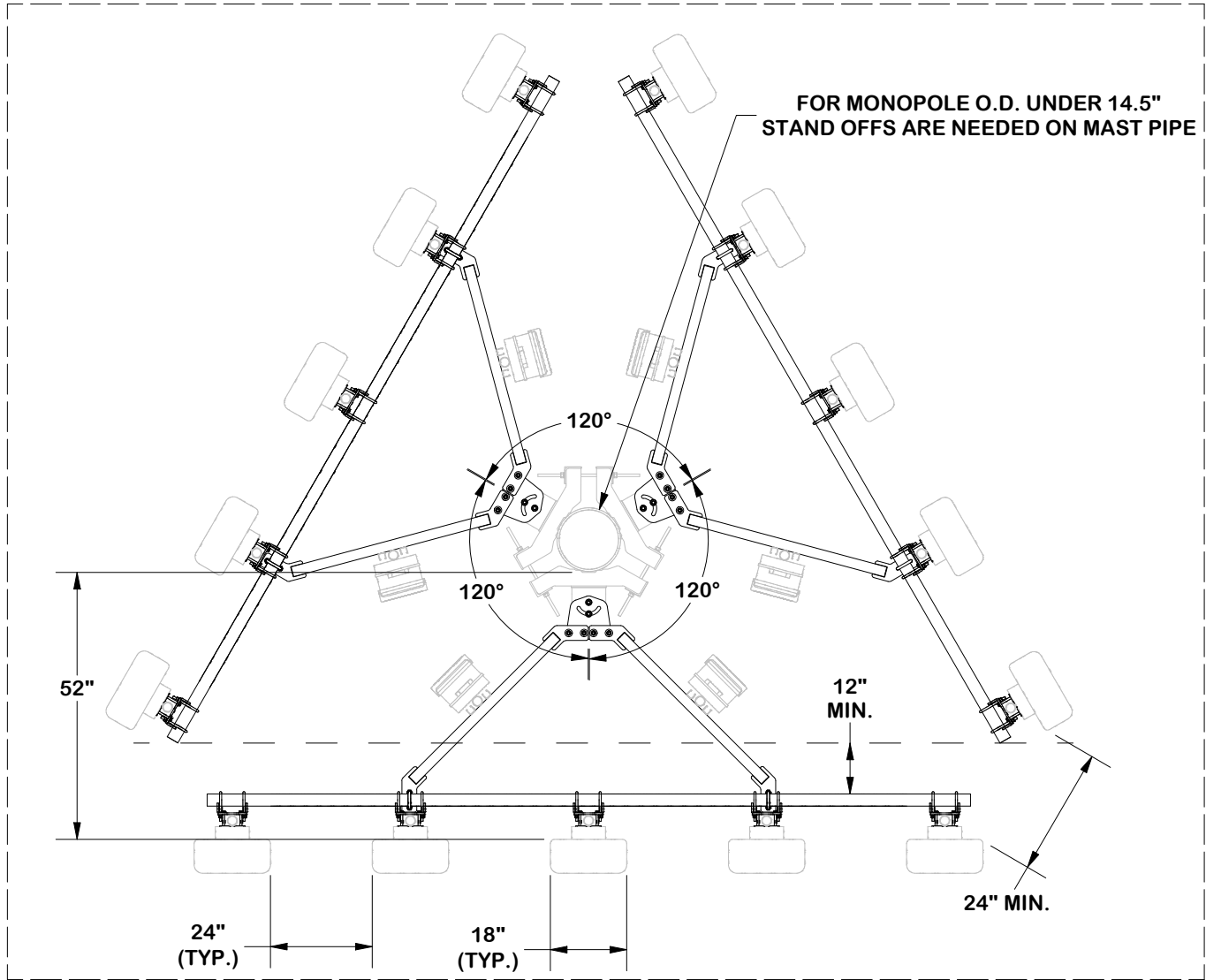
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PART NO.

VFA14-XD

DWG. NO.

VFA14-XD



NOTE: TIE-BACKS OMITTED FOR CLARITY

[ATT-790-202-083 MACRO BUILD COMPLIANT]

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SP1

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2/17/2025

CLASS

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SUB

02

DRAWING USAGE

CUSTOMER

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2/17/2025



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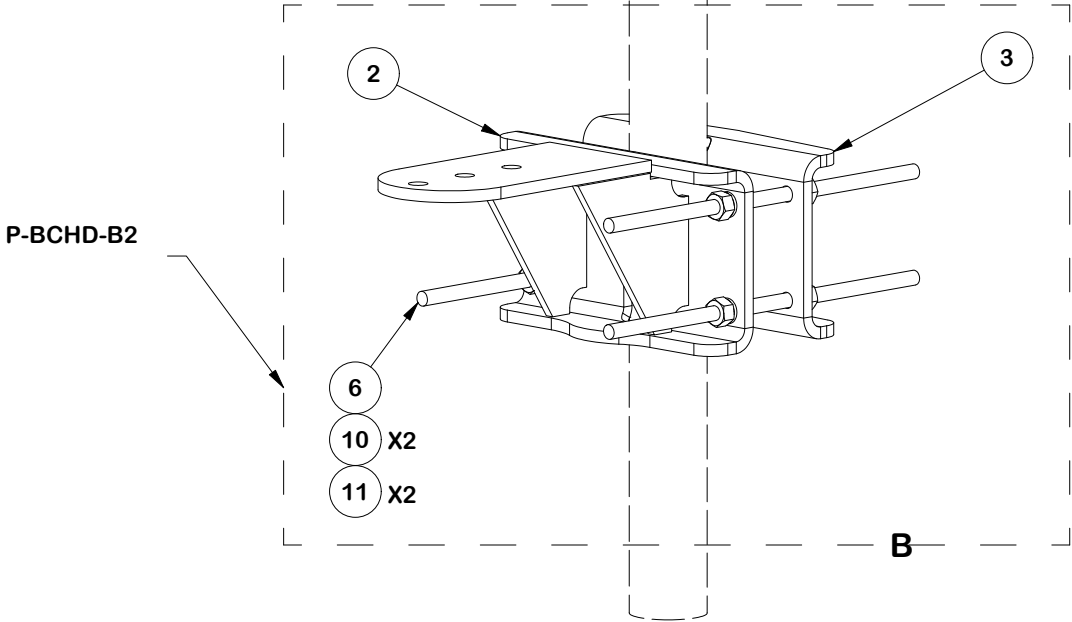
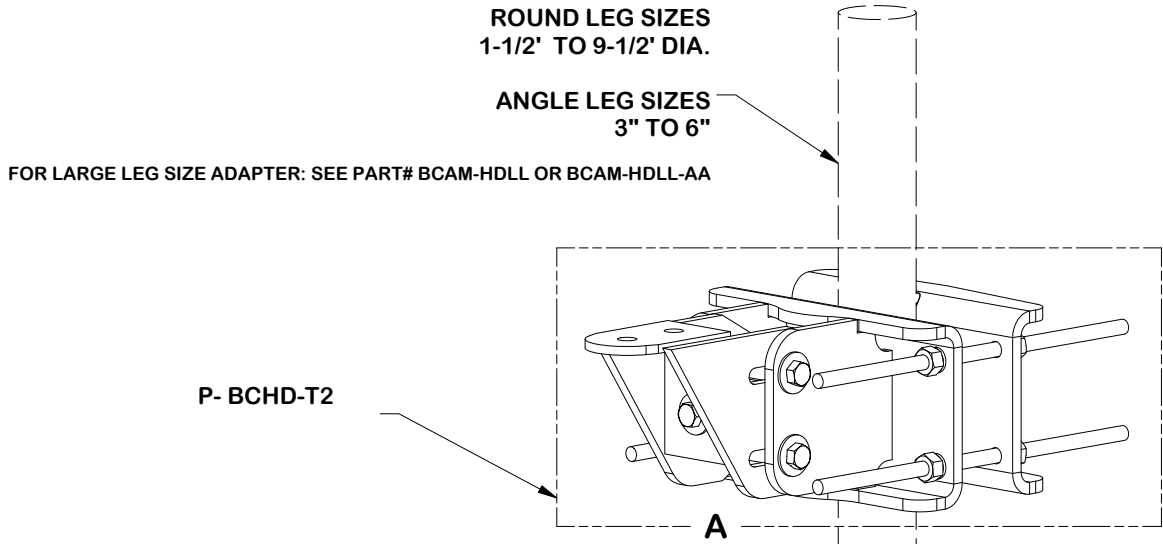
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PART NO.

CORNER LAYOUT


DWG. NO.

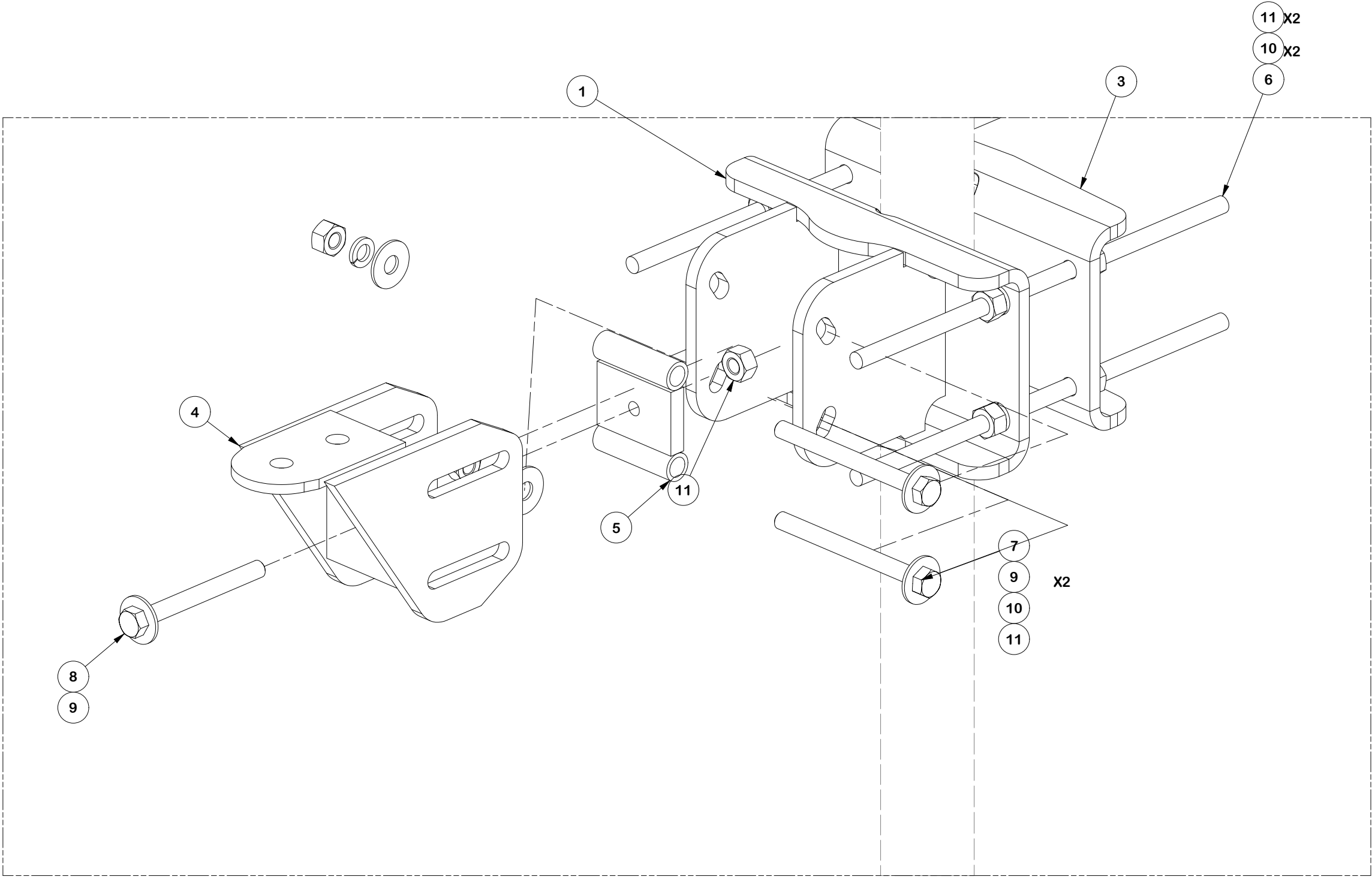
VFA14-XD



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-HDCAMTBW	CLAMP WELDMENT FOR BCAM-HD		33.86	33.86
2	1	X-MHTPHD	MULTI-HOLE TAPER PLATE WELDMENT		36.24	36.24
3	2	X-LCBP4	BENT BACKING PLATE	13 in	20.04	40.09
4	1	X-HDCAMSS	ANGLE ADJUSTMENT WELDMENT FOR BCAM-HD		16.39	16.39
5	1	X-HDCAMSP	POSITIONING PLATE WELDMENT FOR BCAM-HD		2.58	2.58
6	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)		1.57	12.54
7	2	G5807	5/8" x 7" HDG HEX BOLT GR5 FULL THREAD	7 in	0.70	1.41
8	1	G5806	5/8" x 6" HDG HEX BOLT GR5 FULL THREAD	6 in	0.62	0.62
9	5	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.35
10	18	G58LW	5/8" HDG LOCKWASHER		0.03	0.47
11	19	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	2.47
					TOTAL WT. #	147.02

** FOR DETAIL SEE PAGE 2**

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					CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 2/17/2025		PART NO. BCAM-HD			6 OF 17 PAGE					
					CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 2/17/2025		DWG. NO. VFA14-XD								
REVISION HISTORY					PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.														
A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT				SP1	KS	4/24/2018												
REV	DESCRIPTION OF REVISIONS				CPD	BY	DATE												



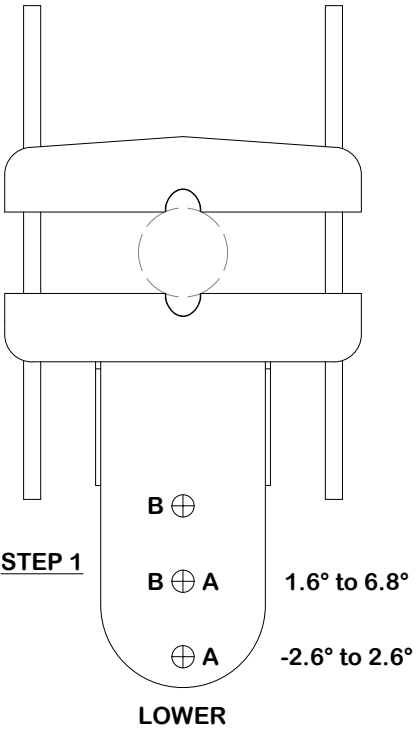
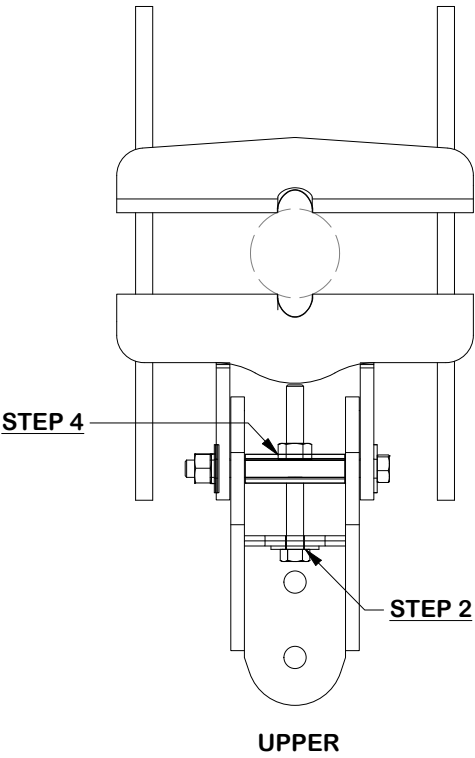
VIEW A

						TOLERANCE NOTES					<div>DESCRIPTION</div> <div>14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF</div>				<div><div><div>SITE PRO1</div><div>Engineering Support Team: 1-888-753-7446</div><div>A valmont COMPANY</div></div><div>Locations: New York, NY Atlanta, GA Los Angeles, CA Plymouth, IN Salem, OR Dallas, TX</div></div>							
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A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT				SP1	KS	4/24/2018		CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 2/17/2025		DWG. NO. VFA14-XD							
REV	DESCRIPTION OF REVISIONS				CPD	BY	DATE															
REVISION HISTORY																						

ANGLE CALIBRATING PROCEDURE:

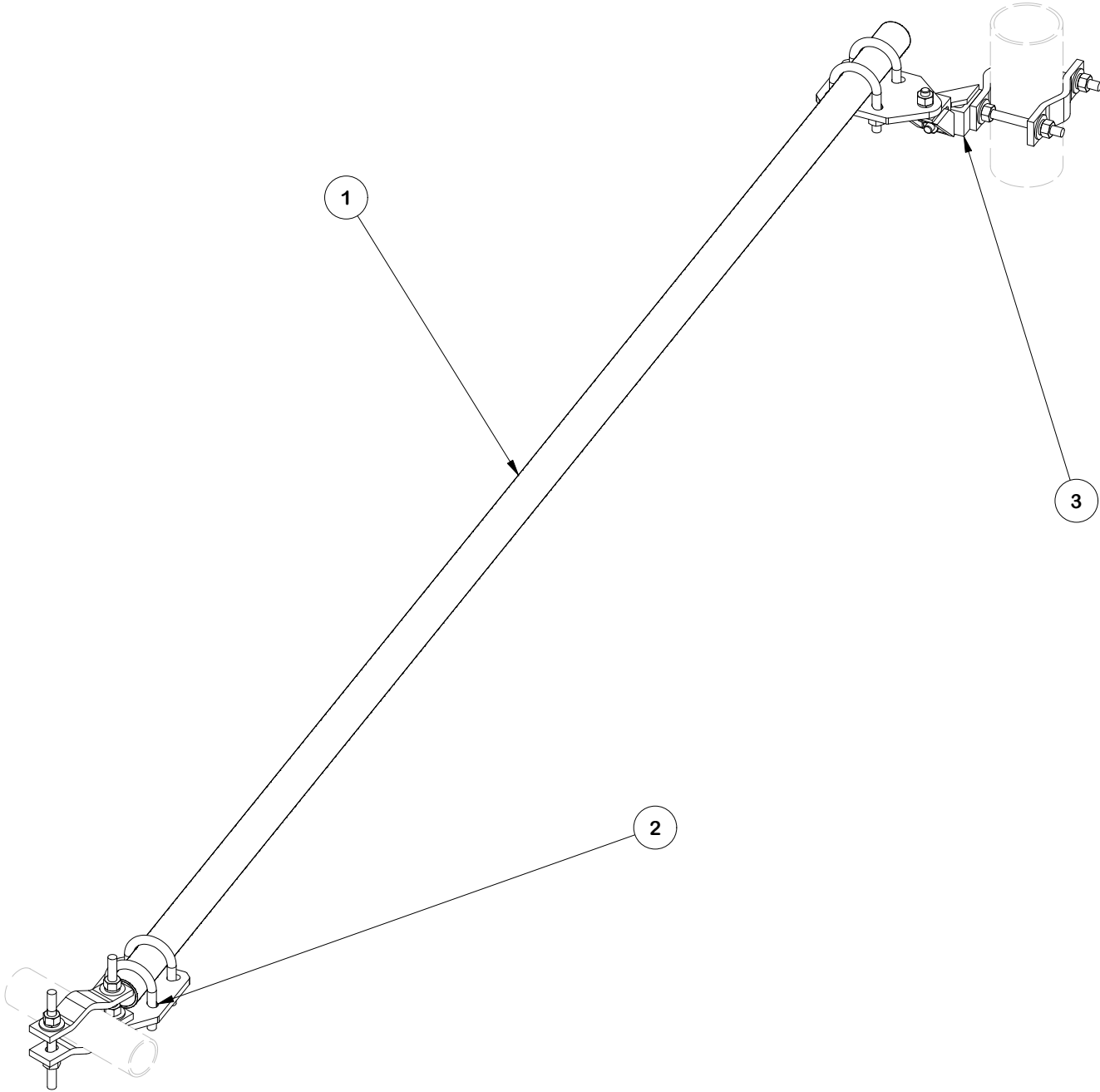
1. MEASURE TOWER TAPER
AND PICK LOWER BRACKET
HOLE:
- HOLE A = -2.6° TO 2.6°

▪ HOLE B = 1.6° TO 6.8°
2. USE CALIBRATING BOLT
TO ADJUST FRAME TO
DESIRED TAPER
3. TORQUE LOCKING BOLTS
TO 100 ft.-lbs.
4. ADVANCE LOCKING NUT
TO POSITIONING PLATE,
THEN TIGHTEN.



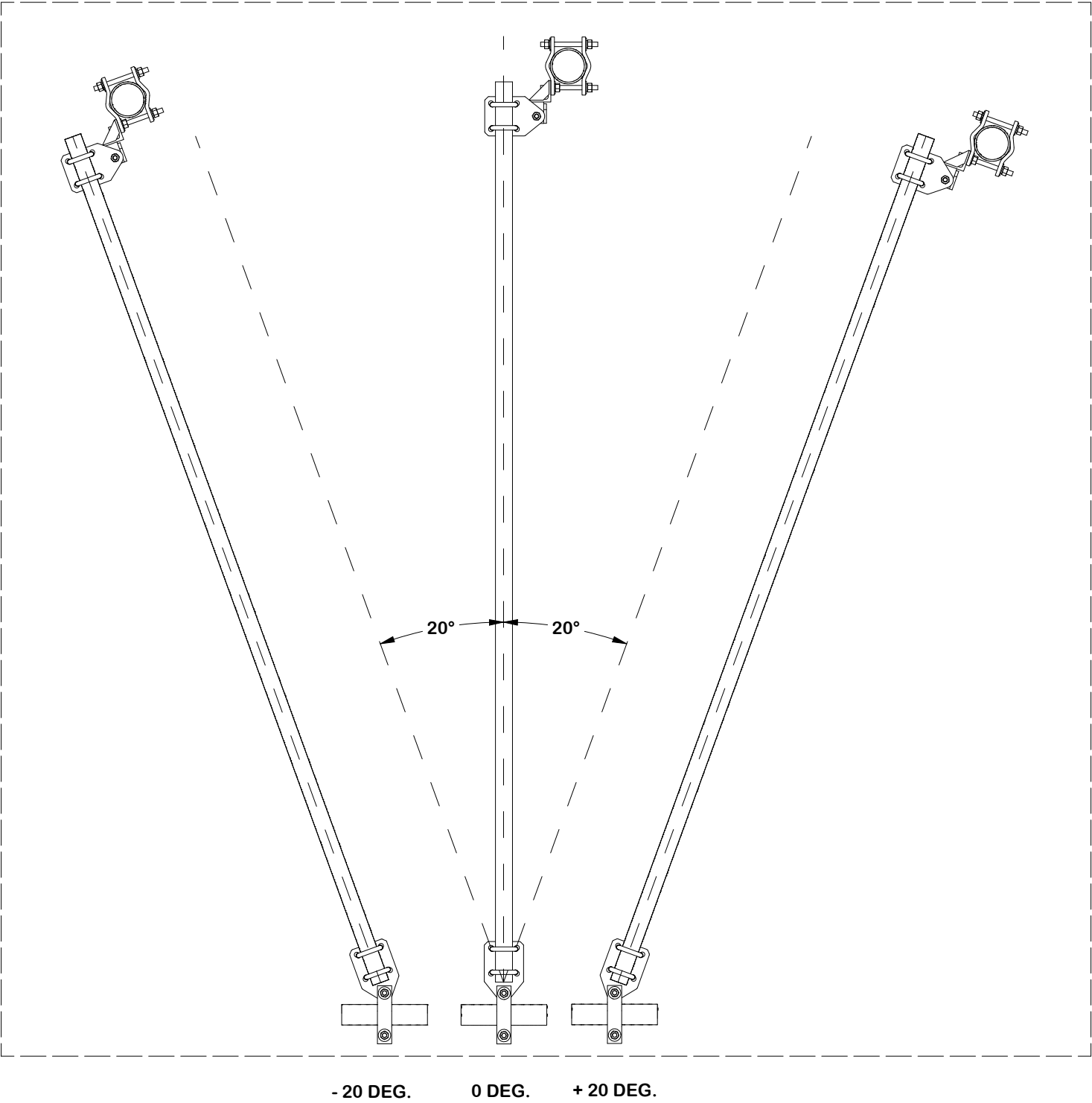
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					CLASS 87		SUB 02		DRAWING USAGE CUSTOMER		CHECKED BY JET 2/17/2025			DWG. NO. VFA14-XD	
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A REV					REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT		SP1 CPD		KS BY		4/24/2018 DATE				

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	40.75
2	1	SPTBU-F	UNIVERSAL SLIDING PIPE TIE BACK ASSEMBLY (FRONT CONNECTION ONLY)		19.26	19.26
3	1	SPTBU-B	UNIVERSAL SLIDING PIPE TIE BACK ASSEMBLY (BACK CONNECTION ONLY)		33.54	33.54
					TOTAL WT. #	93.55

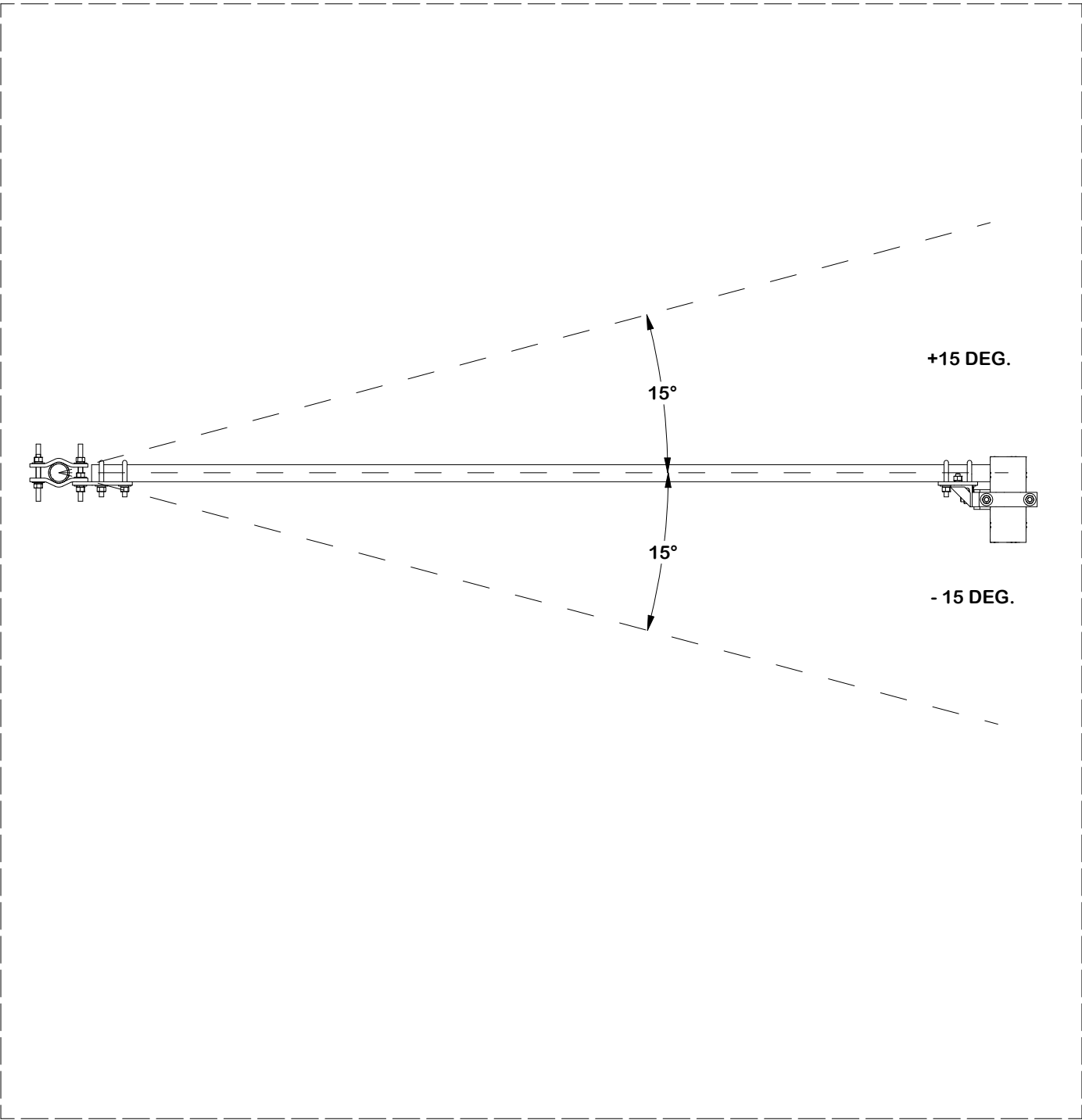


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					CPD NO.		DRAWN BY		ENG. APPROVAL		PART NO.			9 OF 17 PAGE						
A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT	SP1	KS	4/24/2018	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS					SP1	KS	10/3/2024	2/17/2025			SPTB				
REV	DESCRIPTION OF REVISIONS				CPD	BY	DATE	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.					CLASS	SUB	DRAWING USAGE		CHECKED BY		DWG. NO.	
REVISION HISTORY												87	02	CUSTOMER		JET		2/17/2025	VFA14-XD	

RECOMMENDED HORIZONTAL ADJUSTMENT



RECOMMENDED VERTICAL ADJUSTMENT



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CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 2/17/2025
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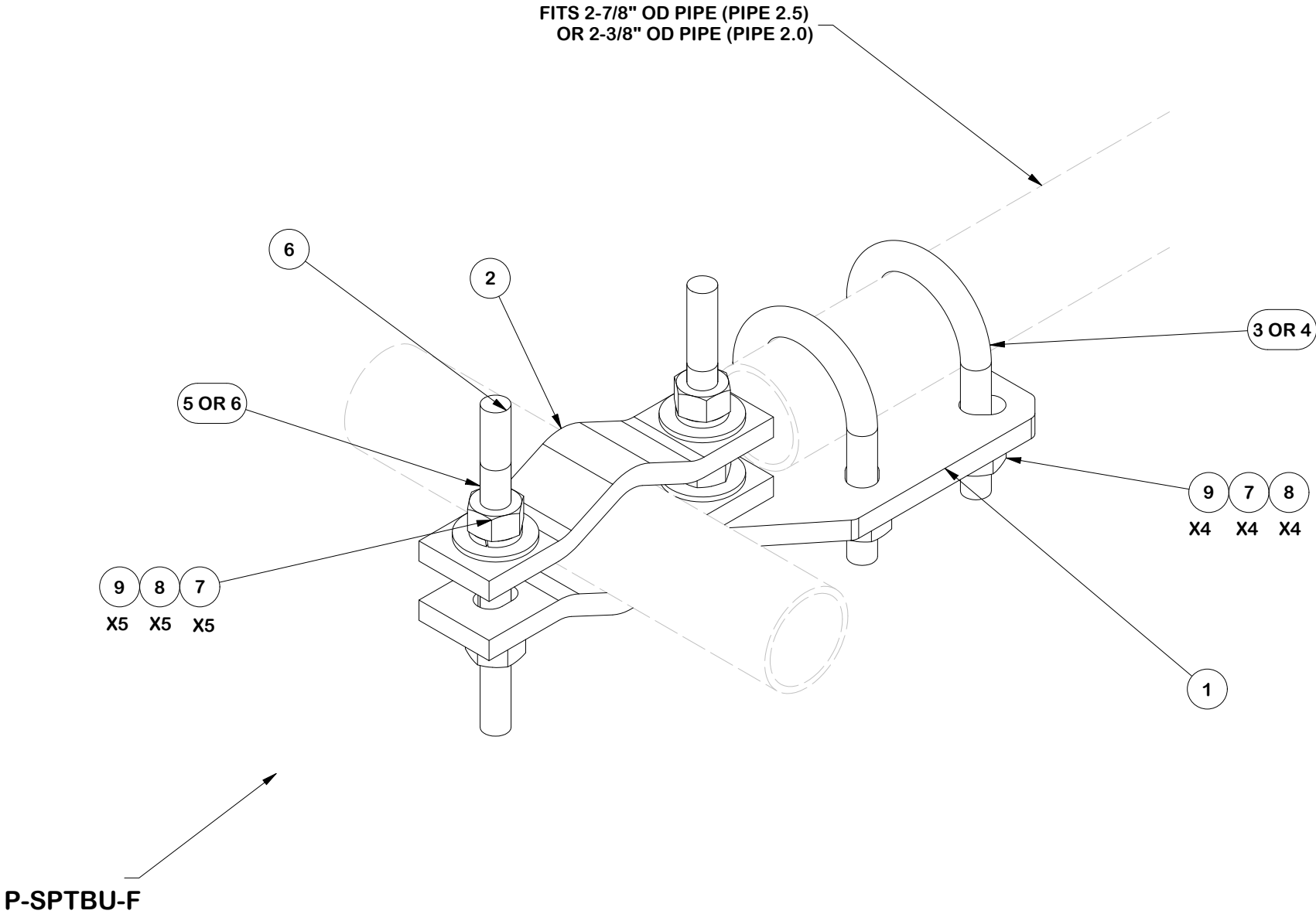


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PART NO. SPTB	10 OF 17 PAGE
DWG. NO. VFA14-XD	

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SPTB-U	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.58	5.58
2	2	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.36	4.72
3	2	X-UB5258	5/8 X 2-5/8" X 4-1/2" X 2" U-BOLT	4 1/2 in	1.06	2.12
4	2	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	2.43
5	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
6	2	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.74	1.48
7	9	G58LW	5/8" HDG LOCKWASHER		0.03	0.23
8	9	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.63
9	9	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.17
					TOTAL WT. #	19.26



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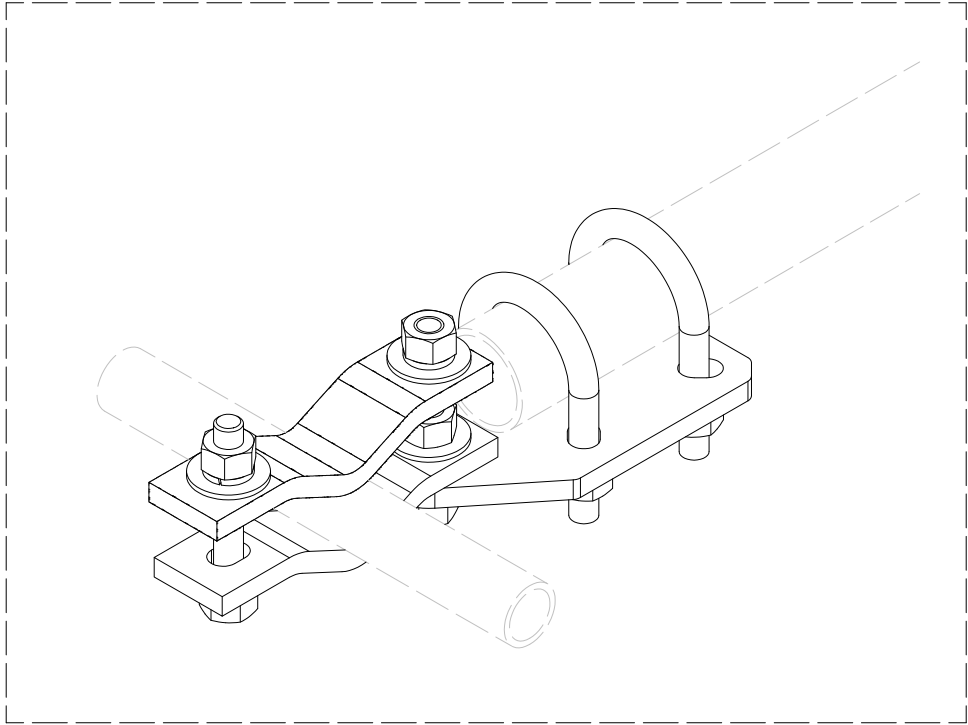
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CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY JET 2/17/2025



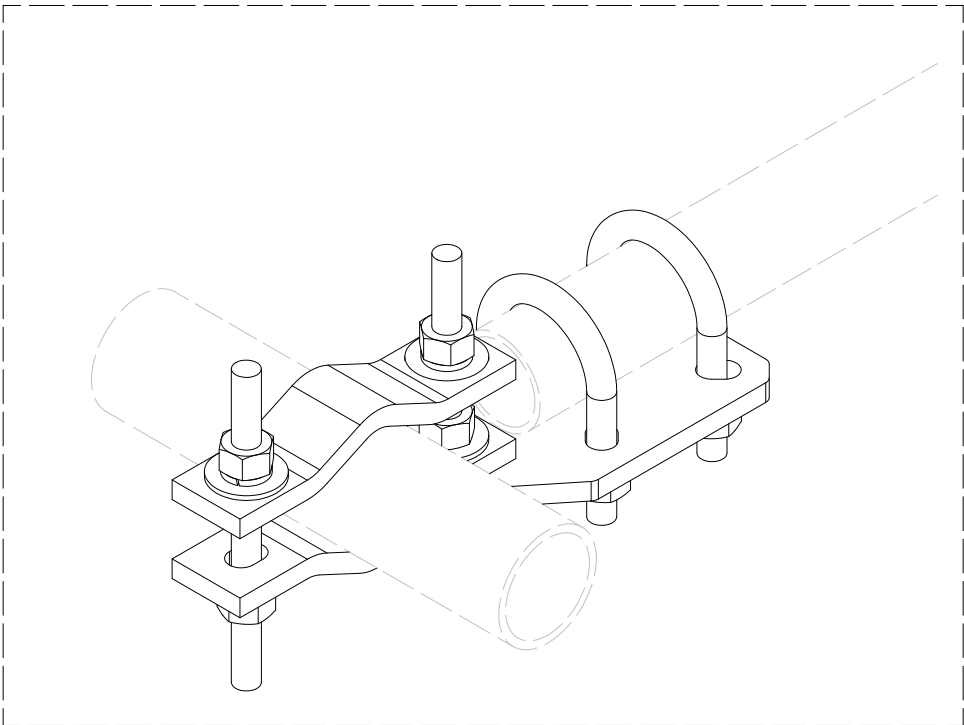
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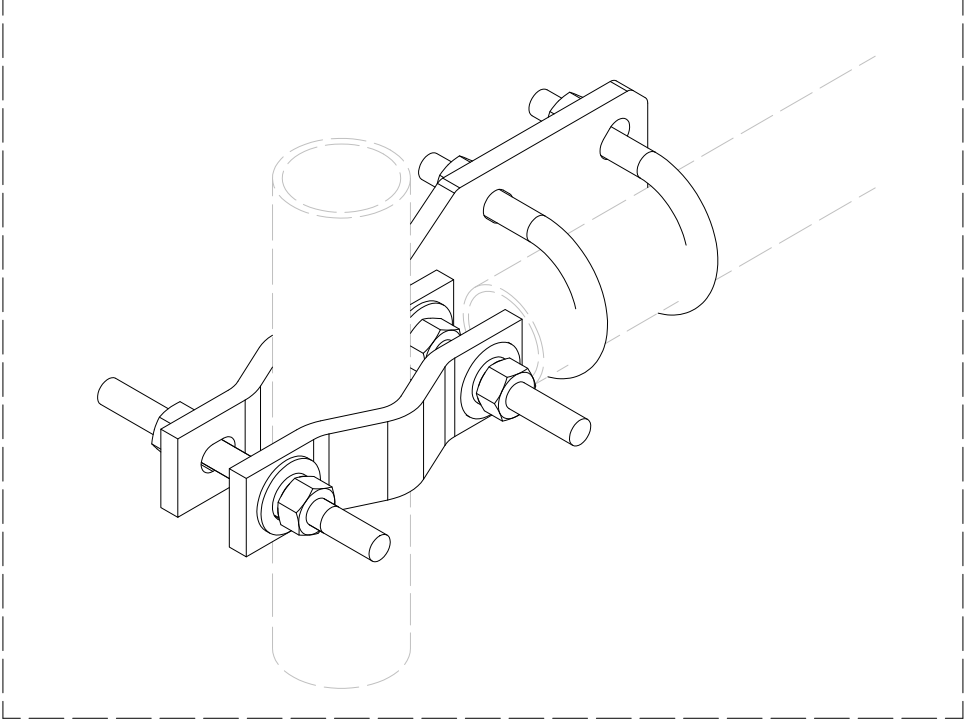
PART NO. SPTBU-F	PAGE 11 OF 17
DWG. NO. VFA14-XD	



SMALL ATTACHMENT 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP




ATTACHMENT 2-3/8" TO 5"
HORIZONTAL ORIENTATION

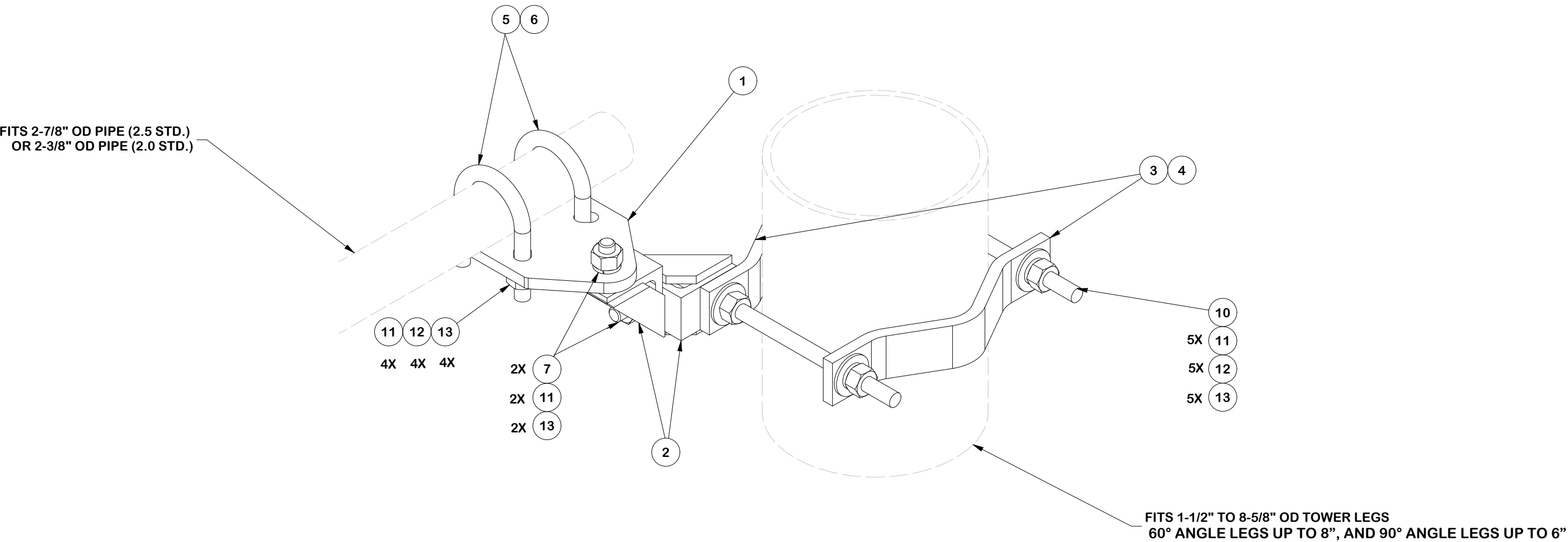


ATTACHMENT 2-3/8" TO 5"
VERTICAL ORIENTATION

FRONT FACE CONFIGURATIONS

	<div>TOLERANCE NOTES</div> <div>TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030''$) DRILLED AND GAS CUT HOLES ($\pm 0.030''$) - NO CONING OF HOLES LASER CUT EDGES AND HOLES ($\pm 0.010''$) - NO CONING OF HOLES BENDS AND ANGLES ARE $\pm 1/2$ DEGREE ALL OTHER MACHINING ($\pm 0.030''$) ALL OTHER ASSEMBLY ($\pm 0.060''$)</div>			<div>DESCRIPTION</div> <div>14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF</div>			<div><div><div>SITE PRO</div><div>1</div></div><div>Engineering Support Team: sp1engineering@valmont.com</div></div> <div>A valmont  COMPANY</div>			PAGE 12 OF 17
	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1	DRAWN BY KS 10/3/2024	ENG. APPROVAL 2/17/2025	PART NO. SPTBU-F			
	PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.			CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY JET 2/17/2025	DWG. NO. VFA14-XD		

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	X-SPTB-U	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.58	5.58
2	2	X-TBCA	TIE BACK CLIP ANGLE		2.01	4.01
3	2	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	7.19
4	2	DCP	1/2" THICK, 5-3/4" CENTER TO CENTER CLAMP HALF	8 1/8 in	2.36	4.72
5	2	X-UB5258	5/8 X 2-5/8" X 4-1/2" X 2" U-BOLT	4 1/2 in	1.06	2.12
6	2	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	2.43
7	2	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	0.54
8	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
9	2	G58R-8	5/8" X 8" THREADED ROD (HDG.)		0.74	1.48
10	2	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
11	11	G58LW	5/8" HDG LOCKWASHER		0.03	0.29
12	11	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.78
13	11	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.43
					TOTAL WT. #	33.54



P-SPTBU-B

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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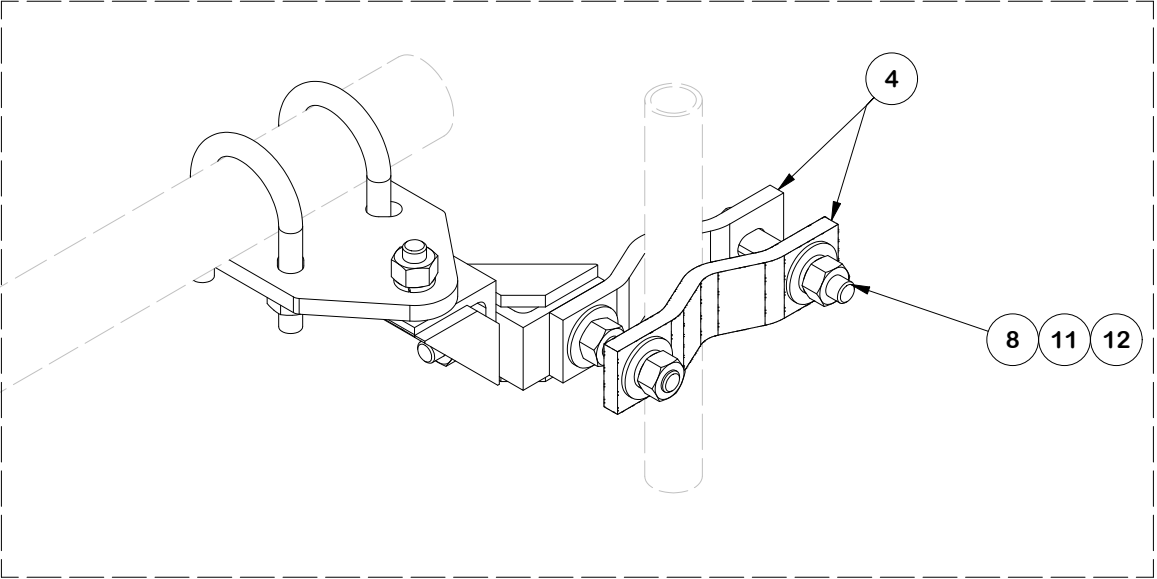
DESCRIPTION
14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 2/17/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 2/17/2025	

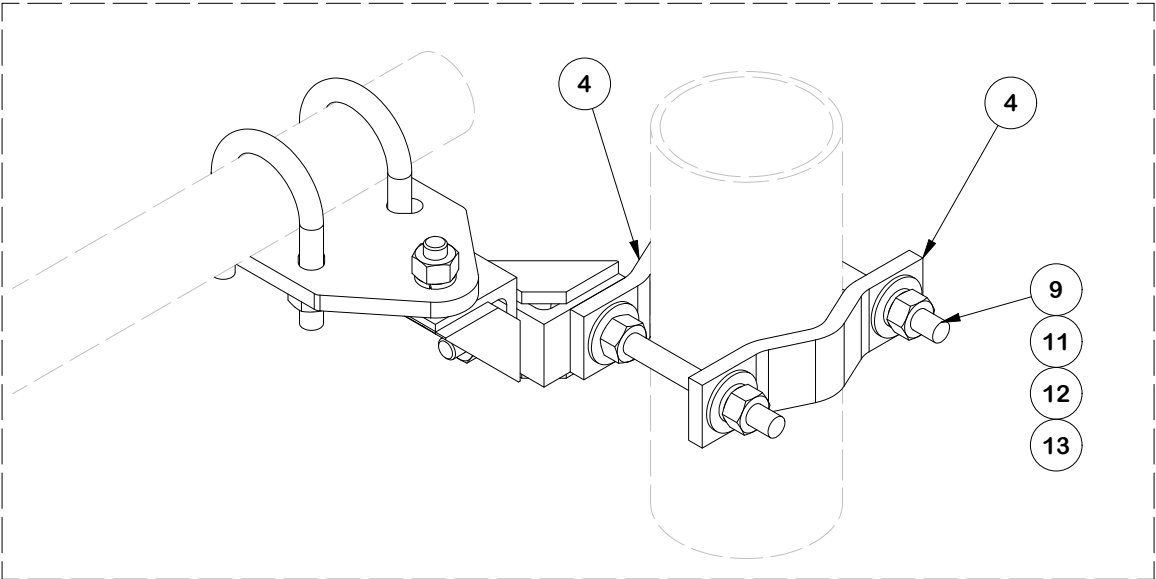


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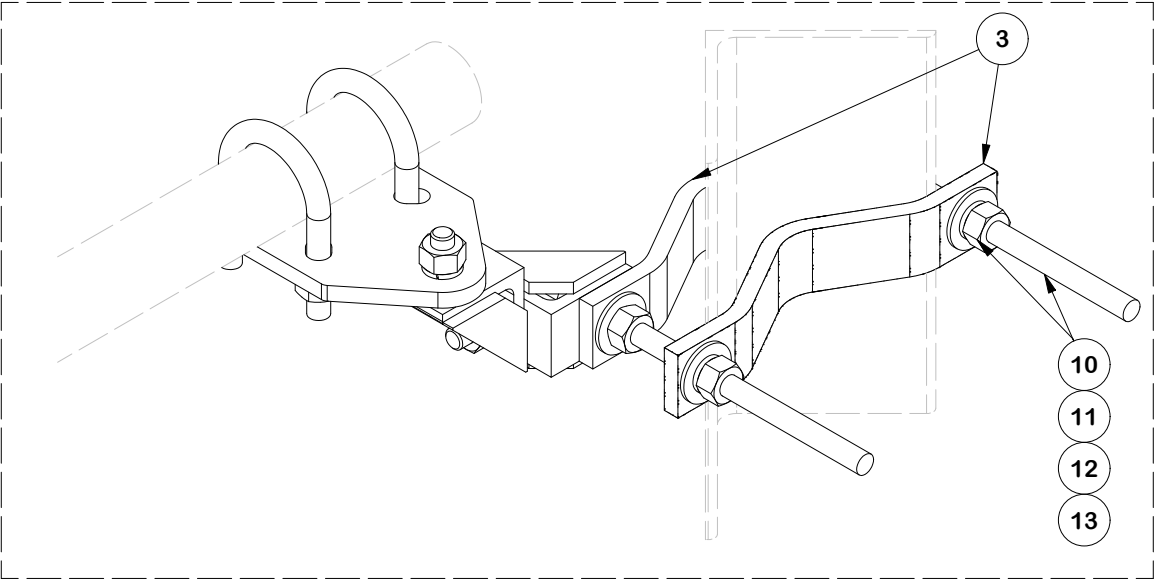
PART NO. SPTBU-B	13 OF 17 PAGE
DWG. NO. VFA14-XD	



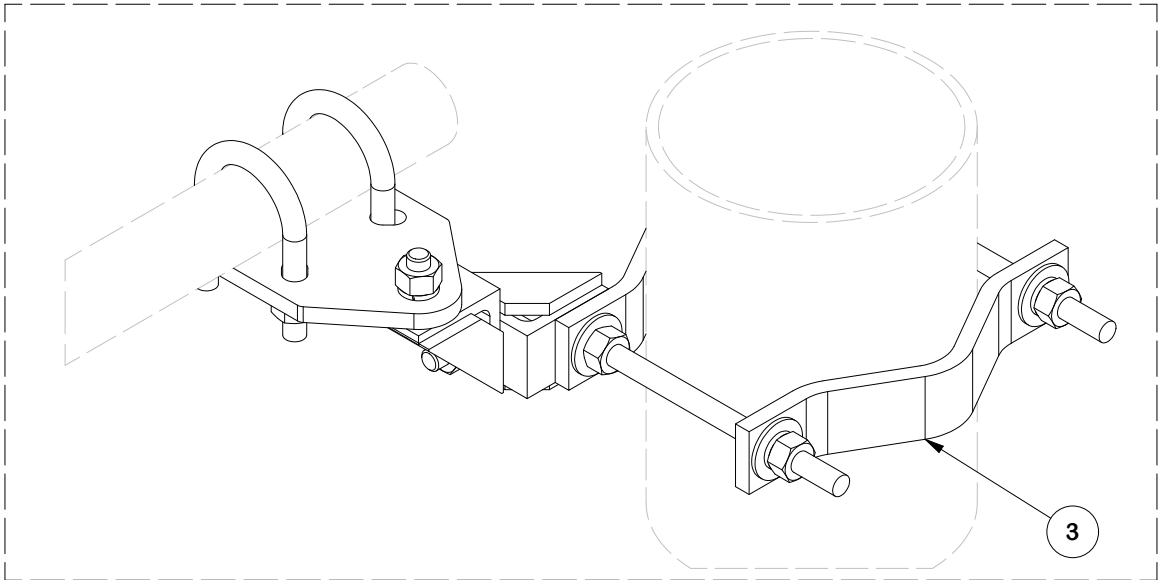
SMALL LEGS 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



MEDIUM LEGS 2-7/8" TO 5"
NOTE: FLIP HALF BACK CLAMP FOR ANGLE



LARGE LEGS UP TO 6" 90 DEG. 8" 60 DEG
NOTE: FLIP HALF BACK CLAMP



LARGE LEGS 5" TO 8-5/8" OD

TOWER LEG CONFIGURATIONS

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES (± 0.030")
DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS AND ANGLES ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

PROPRIETARY NOTE:
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DESCRIPTION
14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF

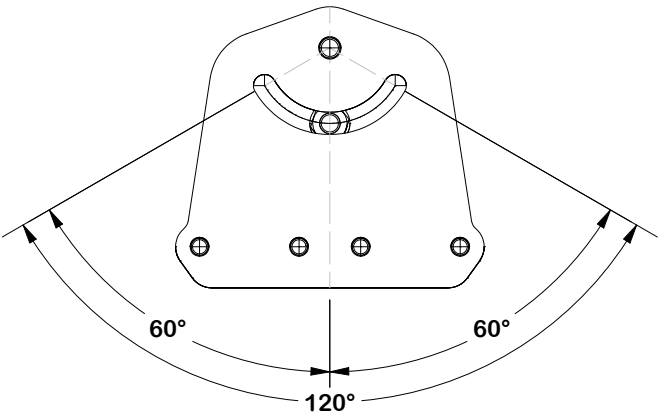
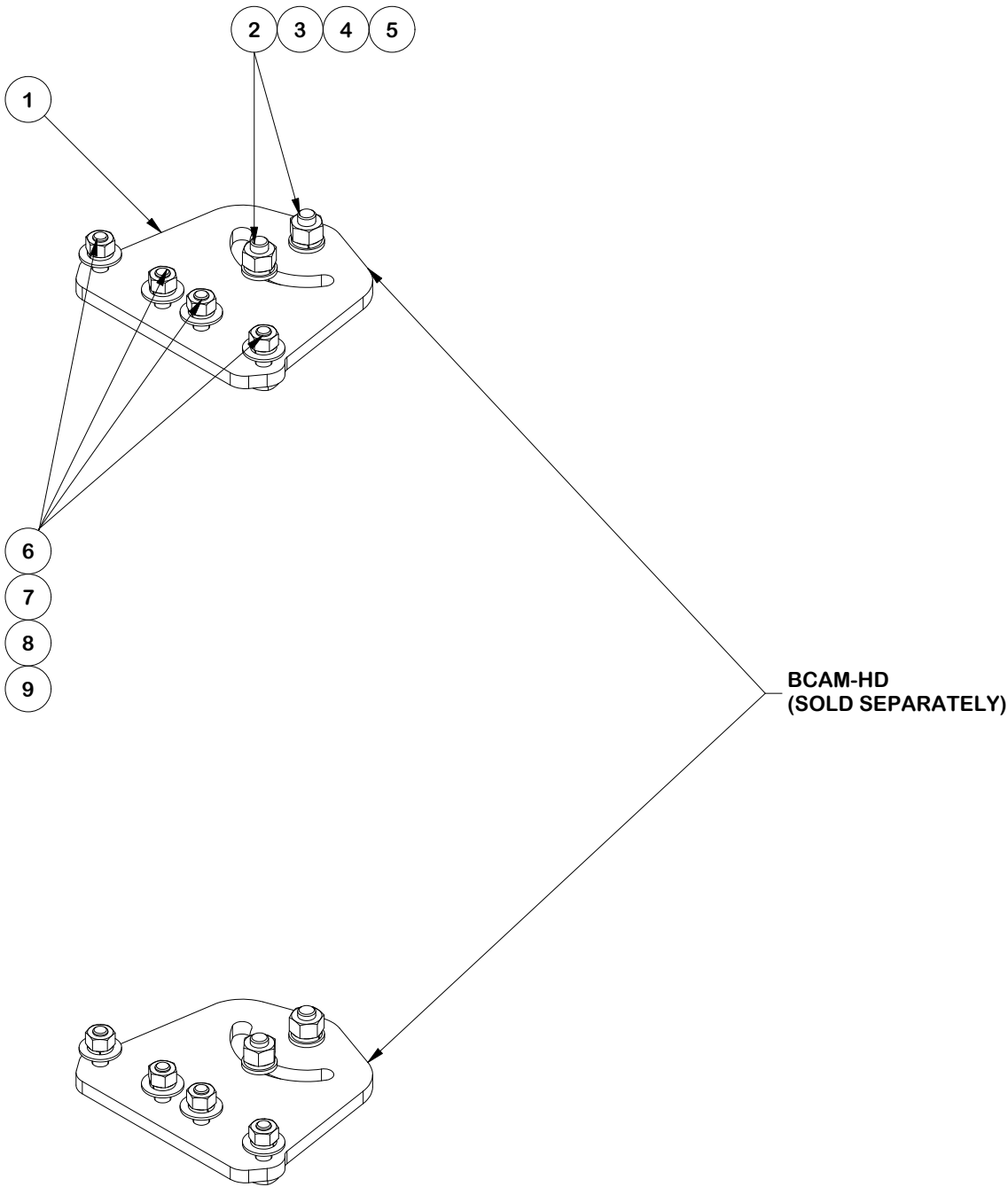
CPD NO. SP1		DRAWN BY KS 10/3/2024		ENG. APPROVAL 2/17/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY JET 2/17/2025	



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PART NO. SPTBU-B
DWG. NO. VFA14-XD

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	2	X-VFAPL4	VFA-HD PIVOT PLATE	12 in	15.88	31.77
2	4	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	1.92
3	4	G34FW	3/4" HDG USS FLATWASHER		0.06	0.24
4	4	G34LW	3/4" HDG LOCKWASHER		0.04	0.17
5	4	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	0.85
6	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
7	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
8	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
9	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
TOTAL WT. #						39.25



PIVOT RANGE

FINISH:
HOT DIP GALVANIZED.

TOLERANCE NOTES

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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO
STIFF ARMS 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 2/17/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY JET 2/17/2025

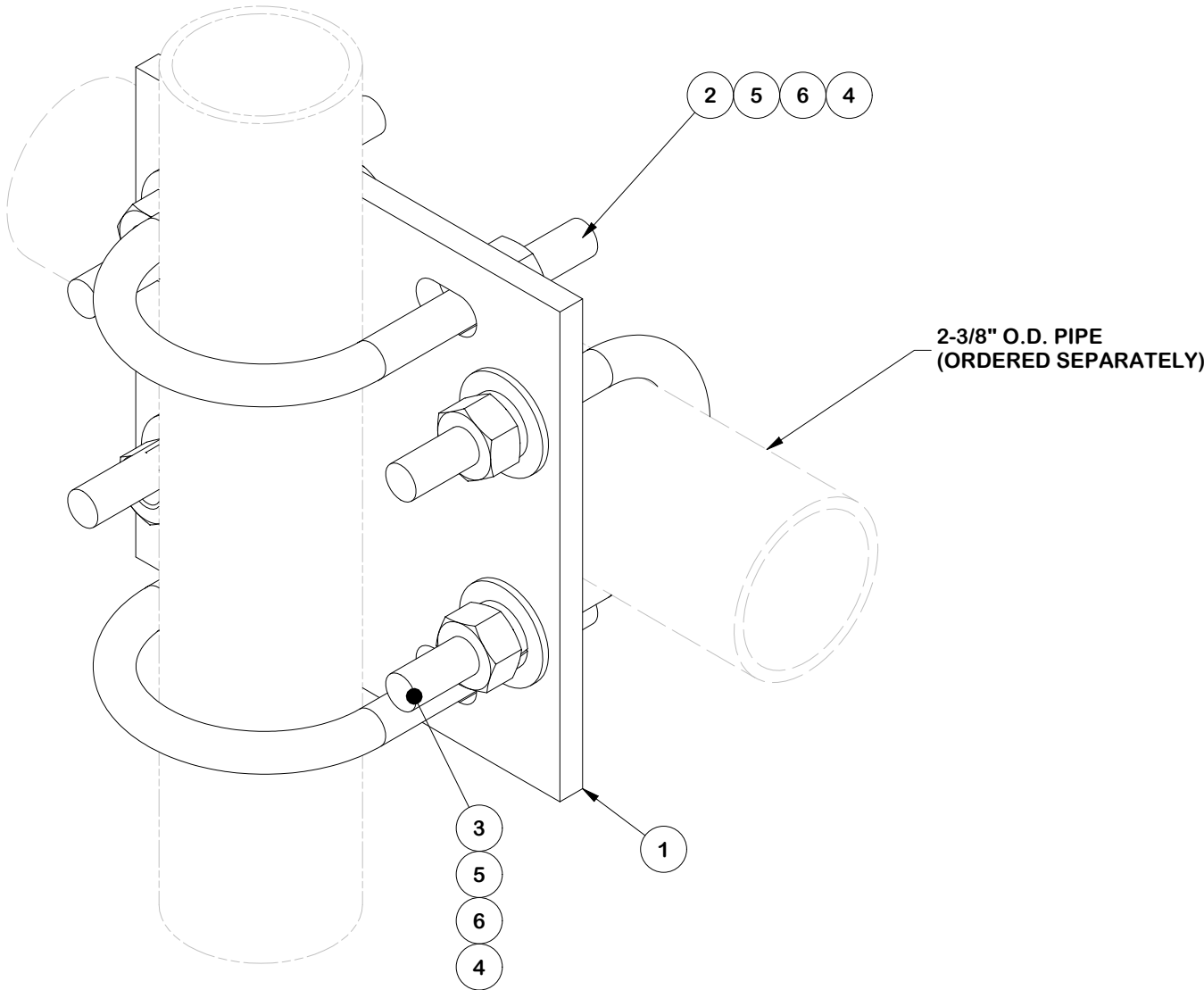


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PART NO. VFAPL4-K	PAGE 15 OF 17
DWG. NO. VFA14-XD	

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	SCX2	CROSSOVER PLATE	7 in	5.08	5.08
2	2	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74	1.48
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT	4 1/2 in	0.66	1.32
4	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT	7/8 in	0.07	0.57
5	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.27
6	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.11
					TOTAL WT. #	8.84



TOLERANCE NOTES

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LASER CUT EDGES AND HOLES ($\pm 0.010''$) - NO CONING OF HOLES
BENDS ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030''$)
ALL OTHER ASSEMBLY ($\pm 0.060''$)

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DESCRIPTION		
14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF		

CPD NO.	DRAWN BY	ENG. APPROVAL
SP1	KS 10/3/2024	2/17/2025
CLASS	DRAWING USAGE	CHECKED BY
87	CUSTOMER	JET 2/17/2025

SITE
PRO

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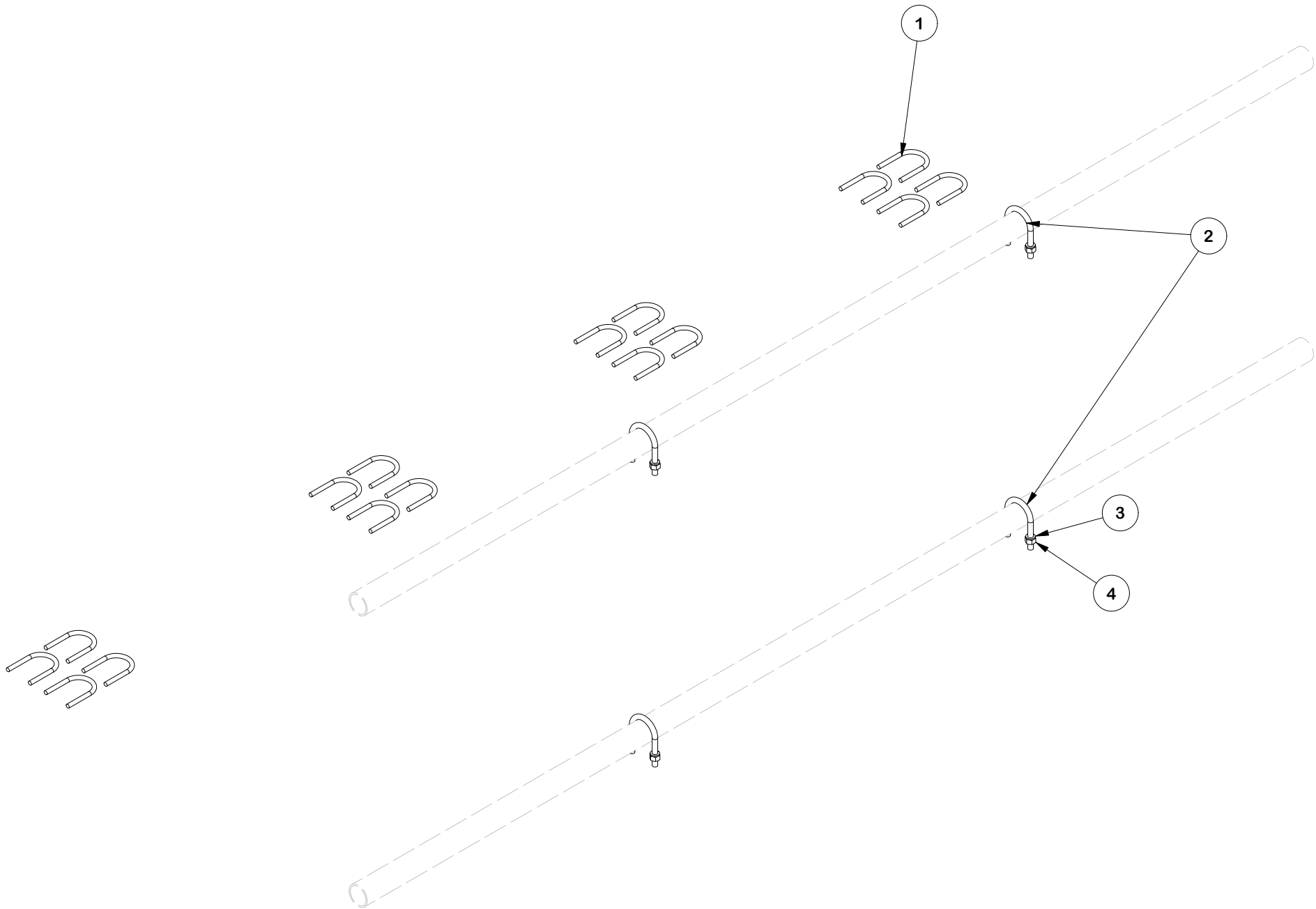
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Locations:
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Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX

Engineering
Support Team:
1-888-753-7446

PART NO.	SCX2-K	16 OF 17 PAGE
DWG. NO.	VFA14-XD	

PARTS LIST					
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.
1	16	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74
2	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22
3	8	G58LW	5/8" HDG LOCKWASHER		0.03
4	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13
TOTAL WT. #					17.93



TOLERANCE NOTES

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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
LASER CUT EDGES AND HOLES ($\pm 0.010"$) - NO CONING OF HOLES
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DESCRIPTION
14' XTREME DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS 5' STAND-OFF

CPD NO. SP1		DRAWN BY KS 10/3/2024	ENG. APPROVAL 2/17/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY JET 2/17/2025



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PART NO. VFAHD-FACEHW	PAGE 17 OF 17
DWG. NO. VFA14-XD	