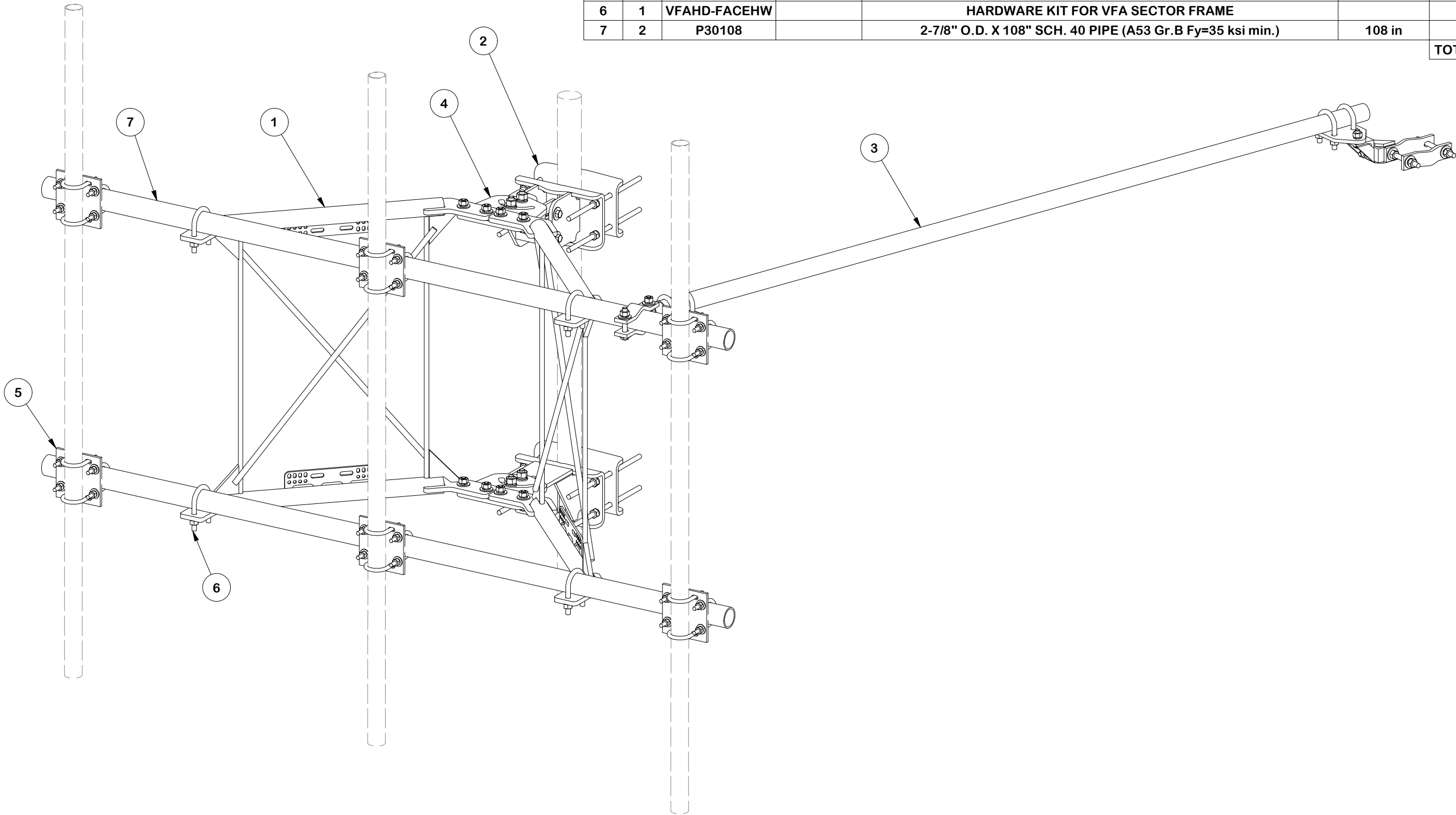
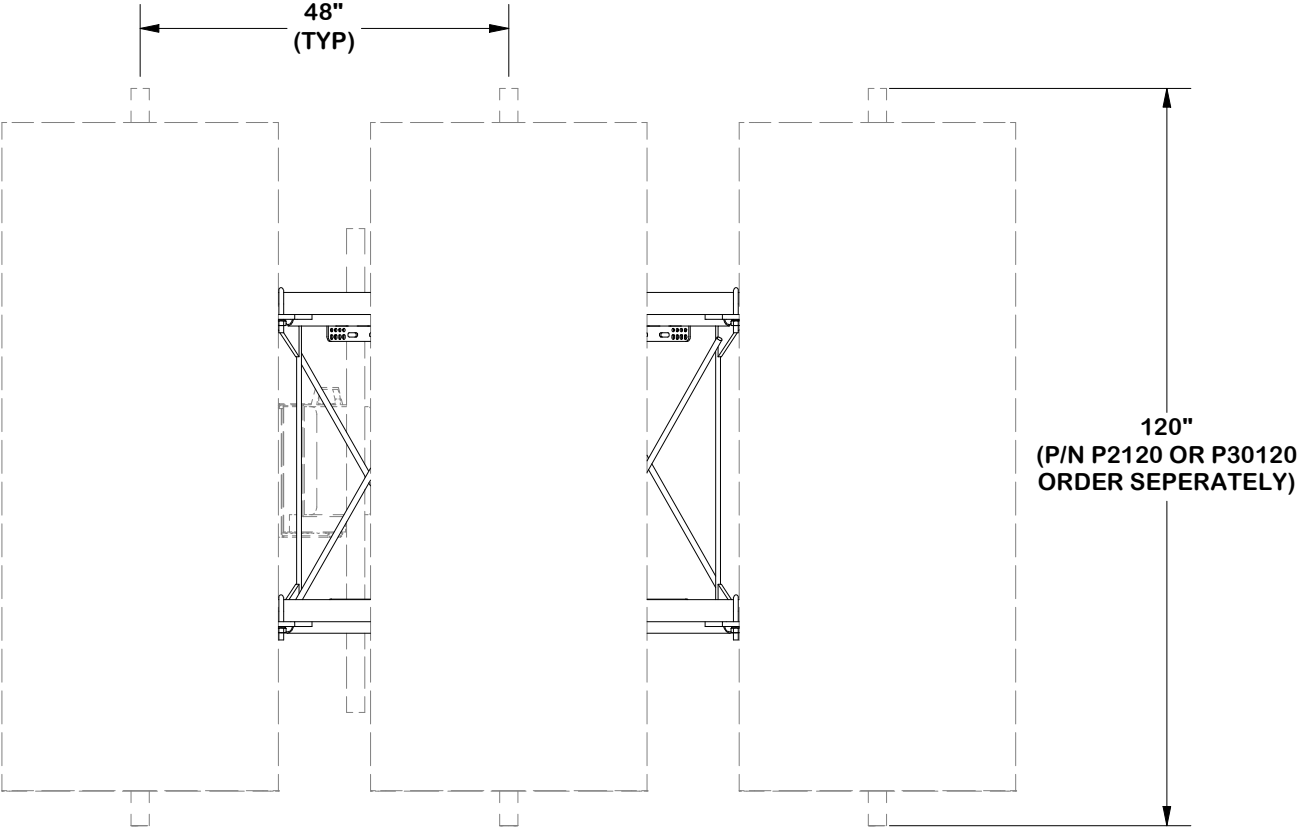
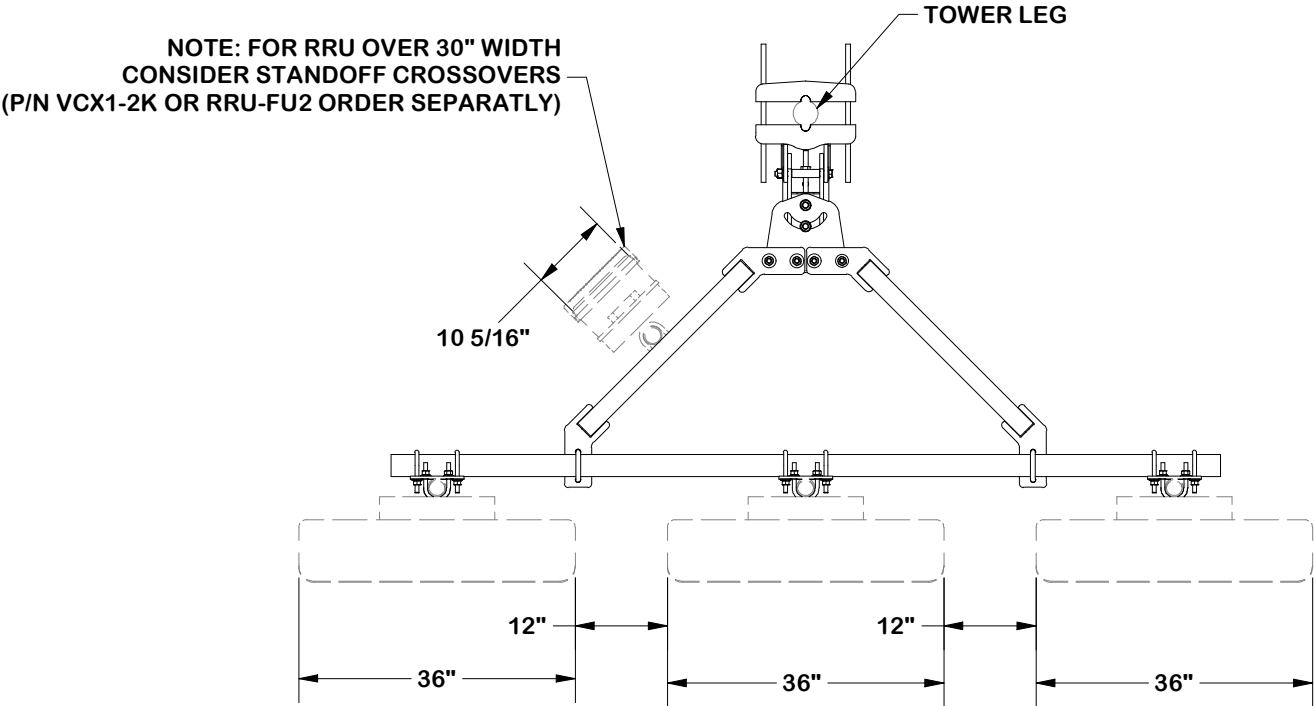
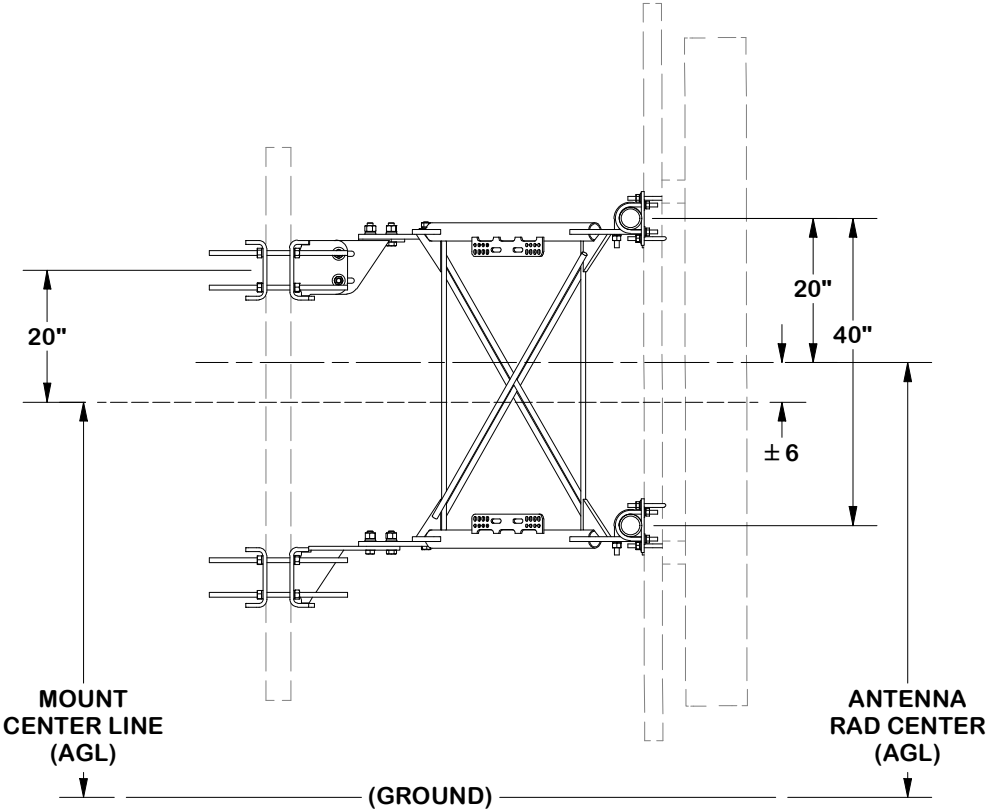


PARTS LIST								
ITEM	QTY	PART NO.	BOX NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.	
1	2	X-VFAW		SUPPORT ARM		71.41	142.81	
2	1	BCAM-HD		HEAVY DUTY BOLT CALIBRATED ANGLE MAINSTAY		147.01	147.01	
3	1	SPTB		SLIDING TIE-BACK ASSEMBLY KIT		91.18	91.18	
4	1	VFAPL4-K	P-VFAPL4-K	HD FRAME PIVOT PLATE KIT		39.25	39.25	
5	6	SCX2-K	P-SCX2-K	CROSSOVER PLATE KIT		8.84	53.05	
6	1	VFAHD-FACEHW		HARDWARE KIT FOR VFA SECTOR FRAME		17.93	17.93	
7	2	P30108		2-7/8" O.D. X 108" SCH. 40 PIPE (A53 Gr.B Fy=35 ksi min.)	108 in	52.32	104.63	
							TOTAL WT. #	595.88



					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 ($\pm 0.060''$)			DESCRIPTION 8' HEAVY DUTY V-FRAME ASSEMBLY WITH ONE STIFF ARM			SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY							
D	MADE SUPER ASSEMBLY	SP1	ADB	6/2/2025	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1		DRAWN BY KS 3/26/2025		ENG. APPROVAL 6/9/2025		PART NO. VFA8-HD-S		1 OF 16 PAGE		
C	UPDATED BCAM VERSION 1 TO BCAM VERSION 2	SP1	CEK	6/29/2018				CLASS 87		SUB 02		DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/9/2025			DWG. NO. VFA8-HD-S	
B	UPDATED PIN LEG CONNECTION TO BCAM CONNECTION	SP1	CEK	12/13/2017														
A	CHANGED TIE-BACK BACK CONNECTION	SP1	CEK	7/27/2017	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.													
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE														
REVISION HISTORY																		

3 ANTENNA SECTOR FRAME LAYOUT



TOLERANCE NOTES

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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
8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

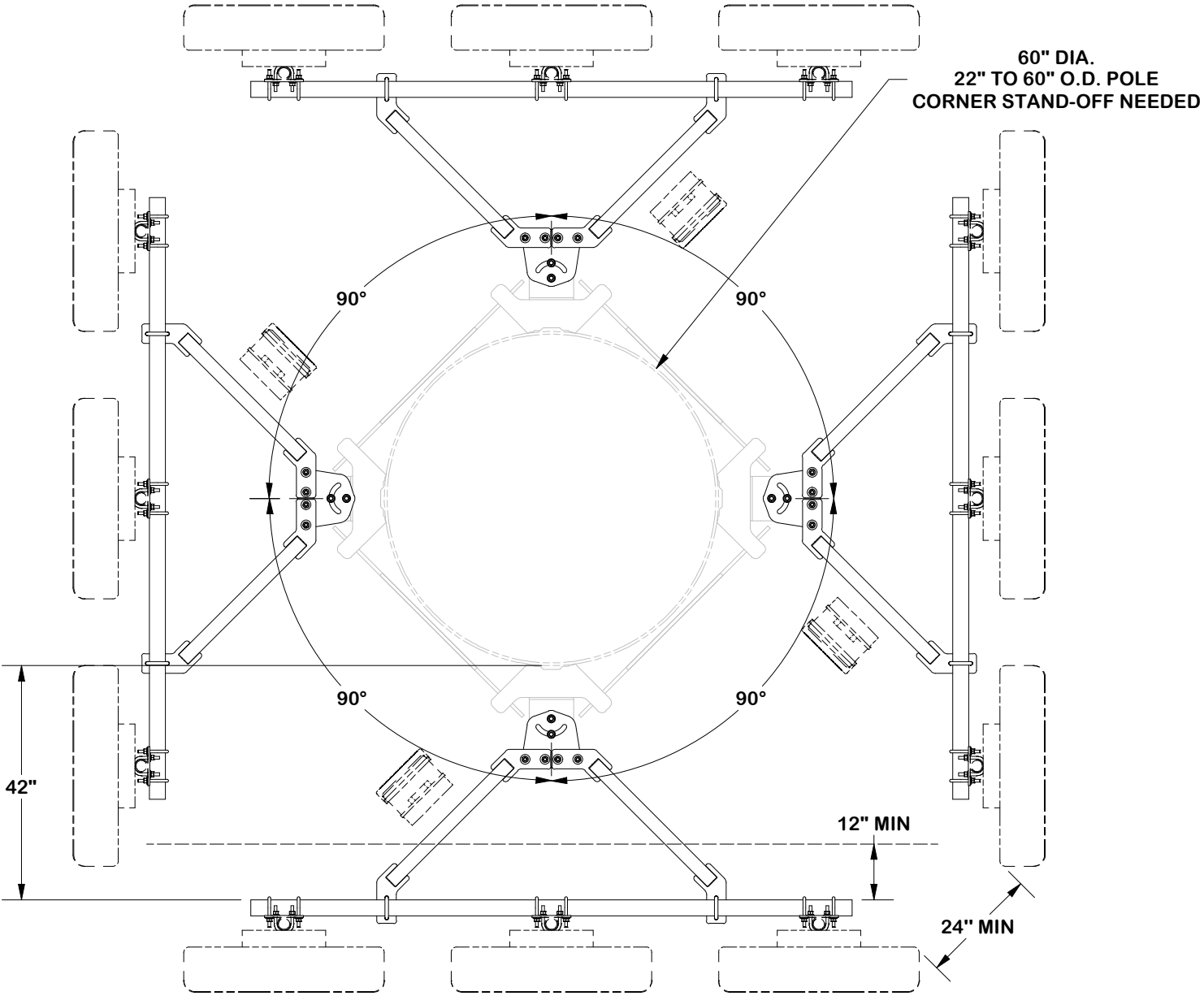
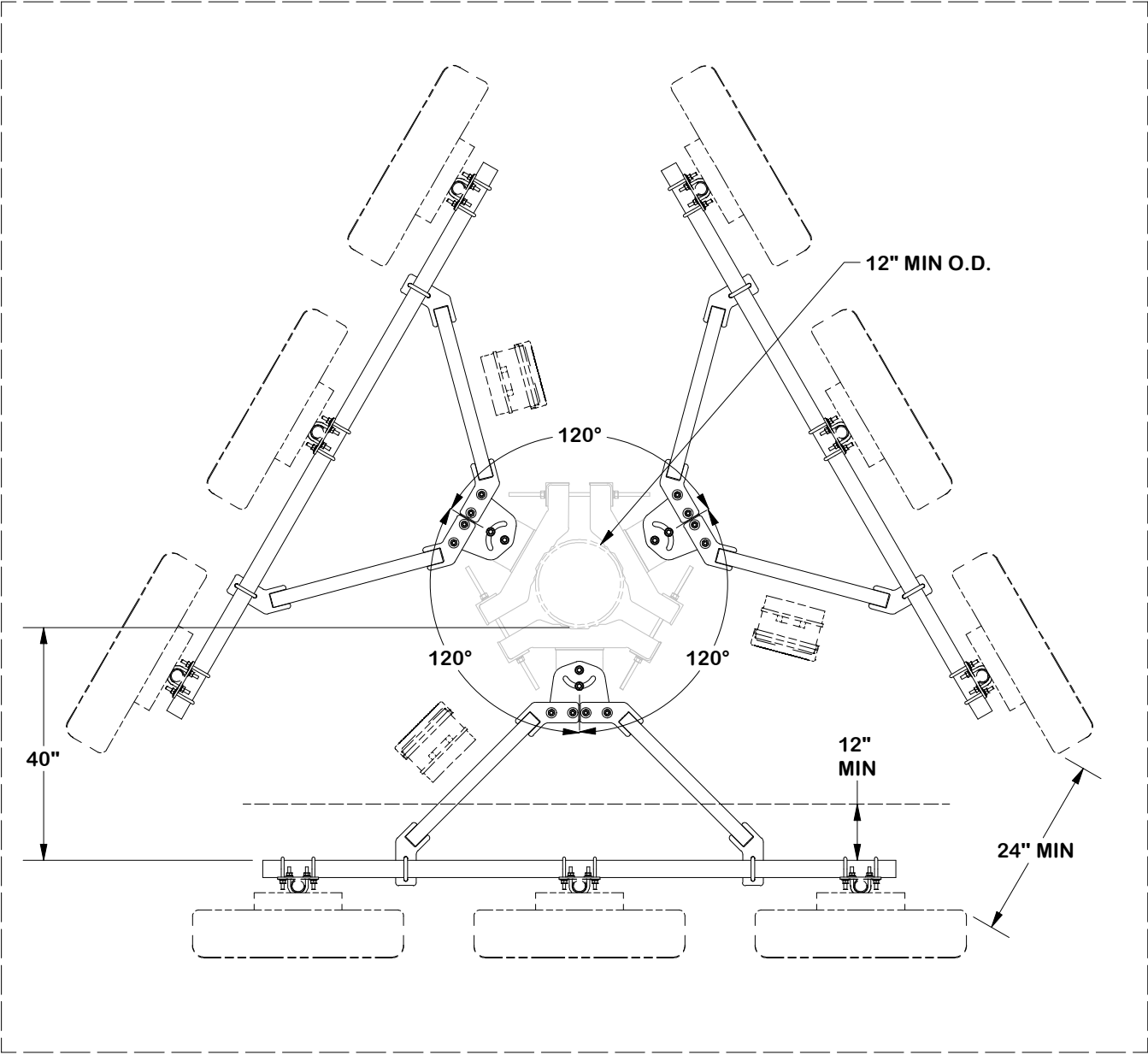
CPD NO. SP1		DRAWN BY KS 3/26/2025		ENG. APPROVAL 6/9/2025	
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL	6/9/2025



Engineering
Support Team:
sp1engineering@valmont.com

PART NO. VFA8-HD-S	PAGE 3 OF 16
DWG. NO. VFA8-HD-S	

MONOPOLE CORNER LAYOUT



NOTE: TIEBACKS OMITTED FOR CLARITY

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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PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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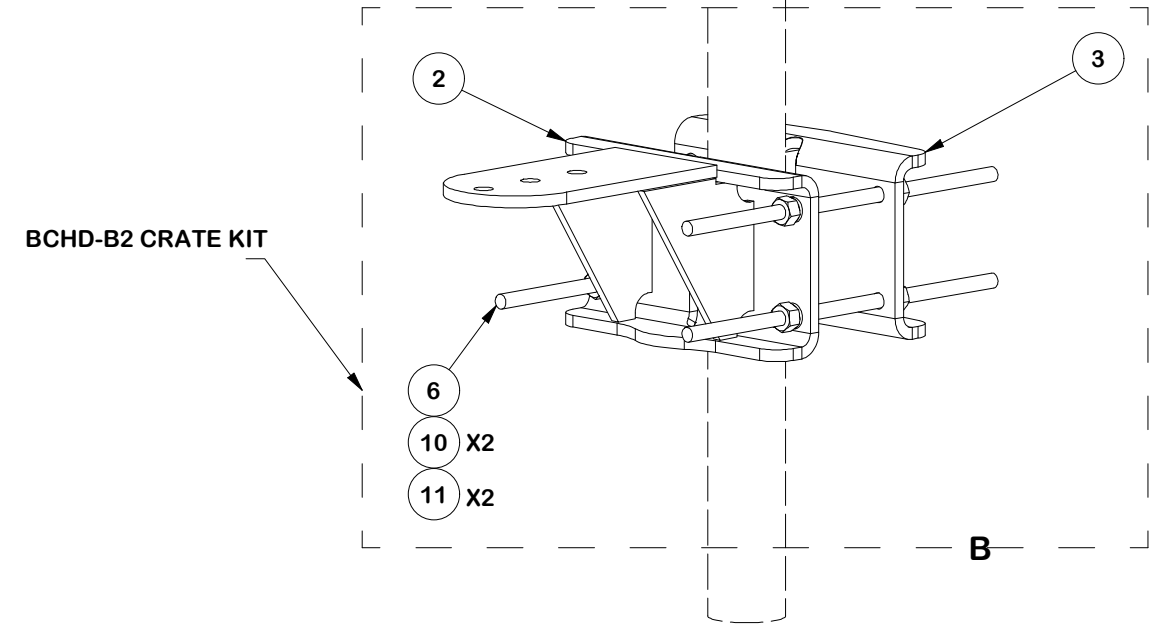
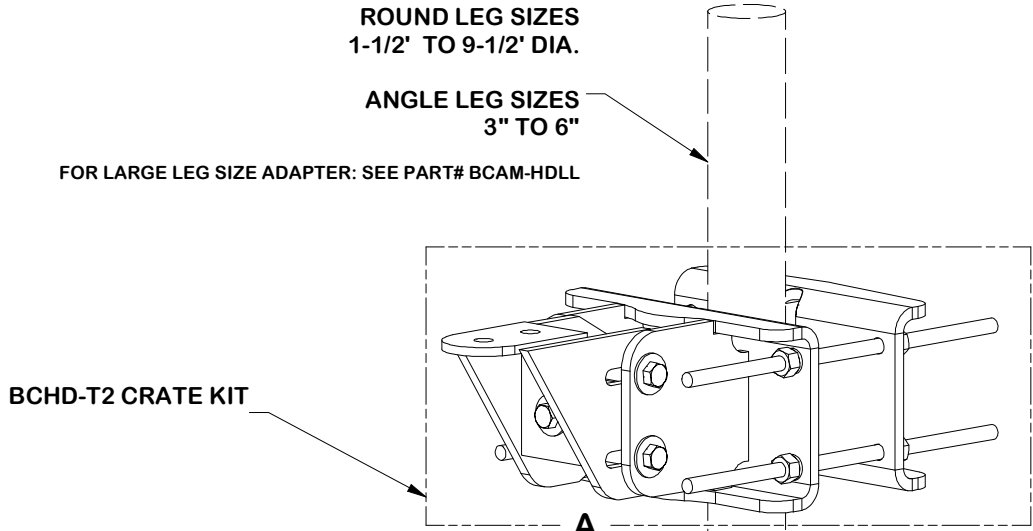
DESCRIPTION
8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO. SP1		DRAWN BY KS 3/26/2025	ENG. APPROVAL 6/9/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/9/2025



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Support Team:
sp1engineering@valmont.com

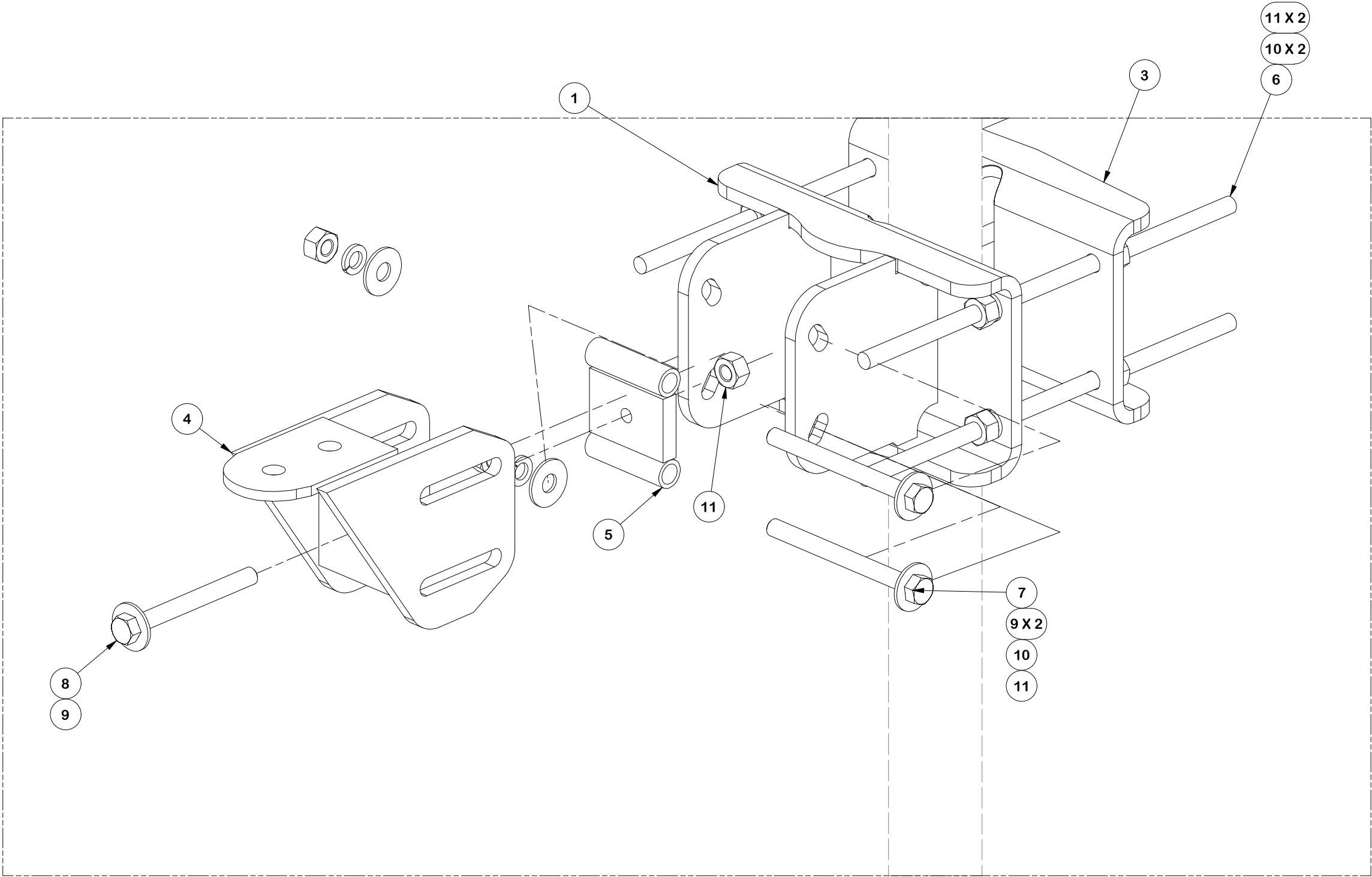
PART NO. CORNER LAYOUT	DWG. NO. VFA8-HD-S
---------------------------	-----------------------



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**

					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 ($\pm 0.060''$)					DESCRIPTION 8' HEAVY DUTY V-FRAME ASSEMBLY WITH ONE STIFF ARM					SITE PRO 1 Engineering Support Team: sp1engineering@valmont.com A valmont  COMPANY								
A	REPLACED C CHANNEL BRKT WITH FORMED PLATE BRKT				SP1	KS	4/24/2018		PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS					CPD NO. SP1		DRAWN BY KS 3/26/2025		ENG. APPROVAL 6/9/2025		PART NO. BCAM-HD			5 OF 16 PAGE
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 87	SUB 02	DRAWING USAGE CUSTOMER		CHECKED BY CSL 6/9/2025		DWG. NO. VFA8-HD-S			
REVISION HISTORY																							



VIEW A

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
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DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
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ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

**8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM**

CPD NO.
SP1

DRAWN BY
KS 3/26/2025

ENG. APPROVAL
6/9/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
CSL 6/9/2025



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Support Team:
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PART NO.

BCAM-HD

DWG. NO.

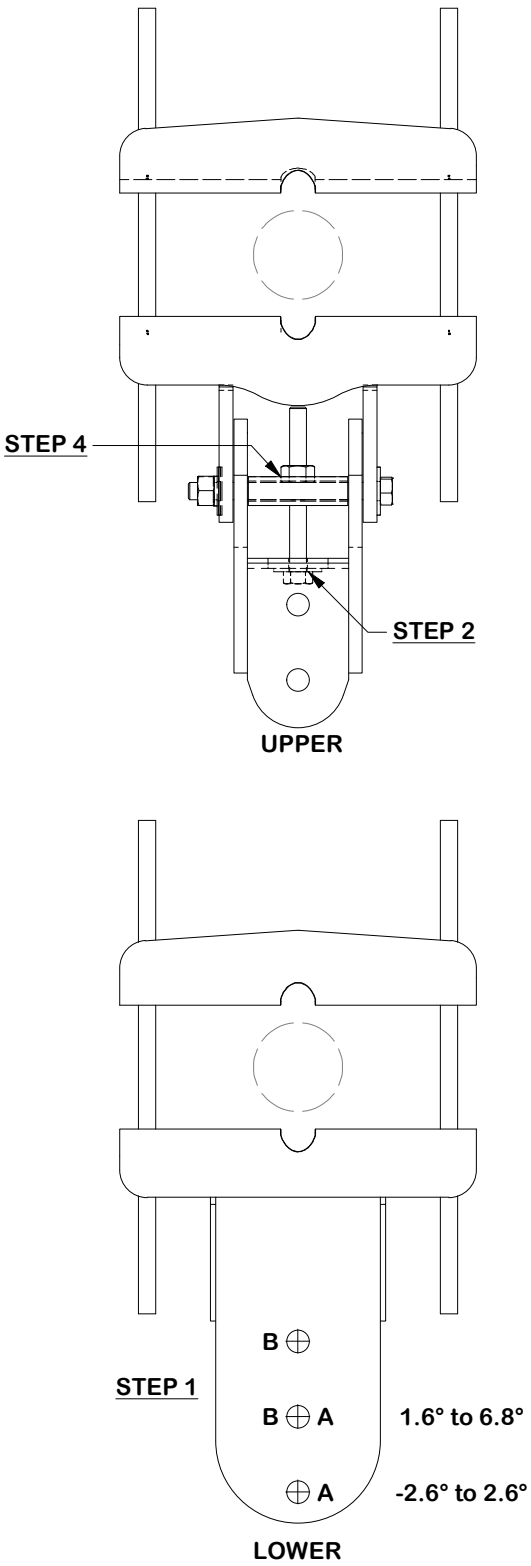
VFA8-HD-S

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.



TOLERANCE NOTES

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SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
DRILLED AND GAS CUT HOLES ($\pm 0.030"$) - NO CONING OF HOLES
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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.
SP1

DRAWN BY
KS 3/26/2025

ENG. APPROVAL
6/9/2025

CLASS
87

SUB
02

DRAWING USAGE
CUSTOMER

CHECKED BY
CSL 6/9/2025

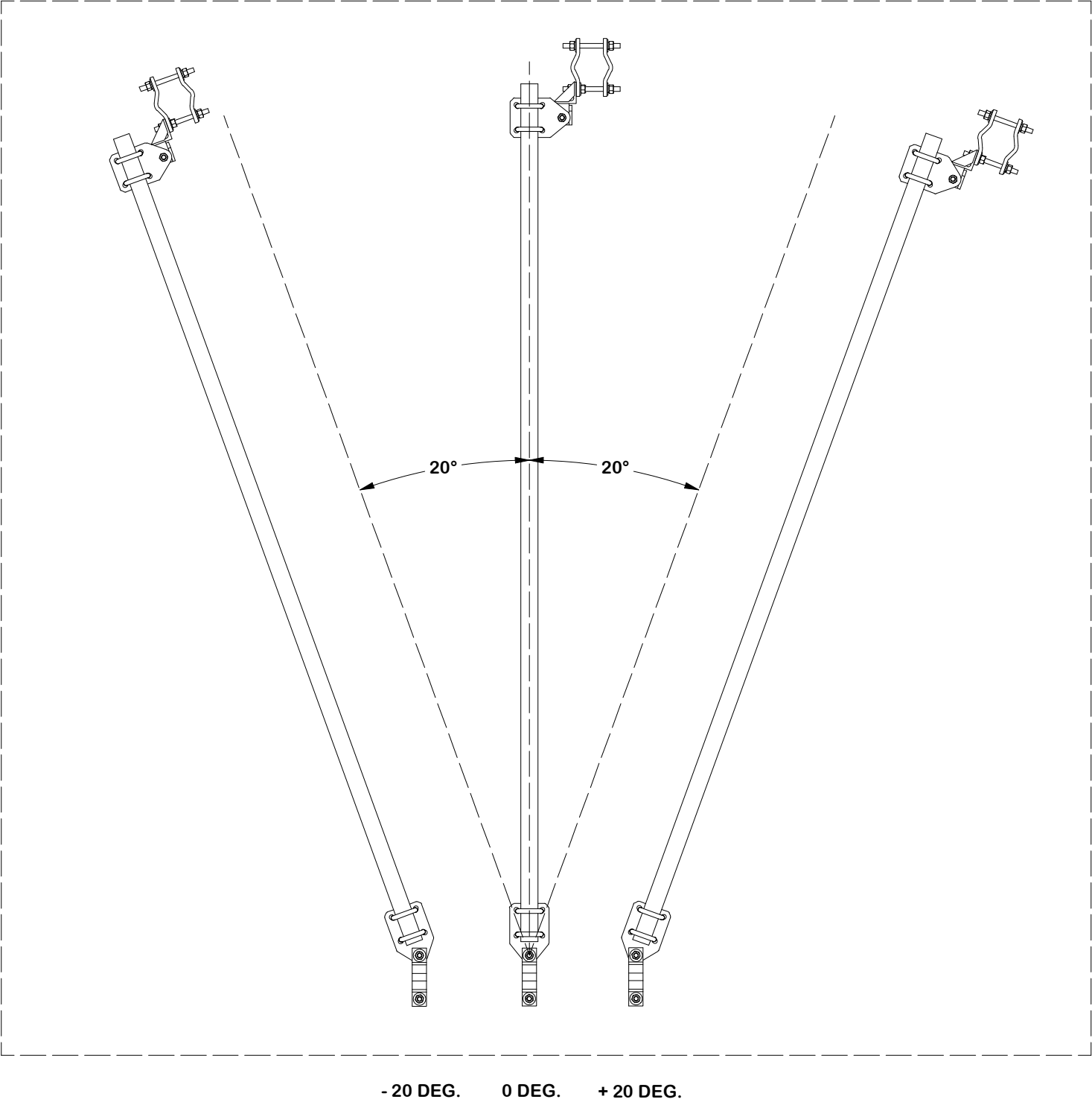


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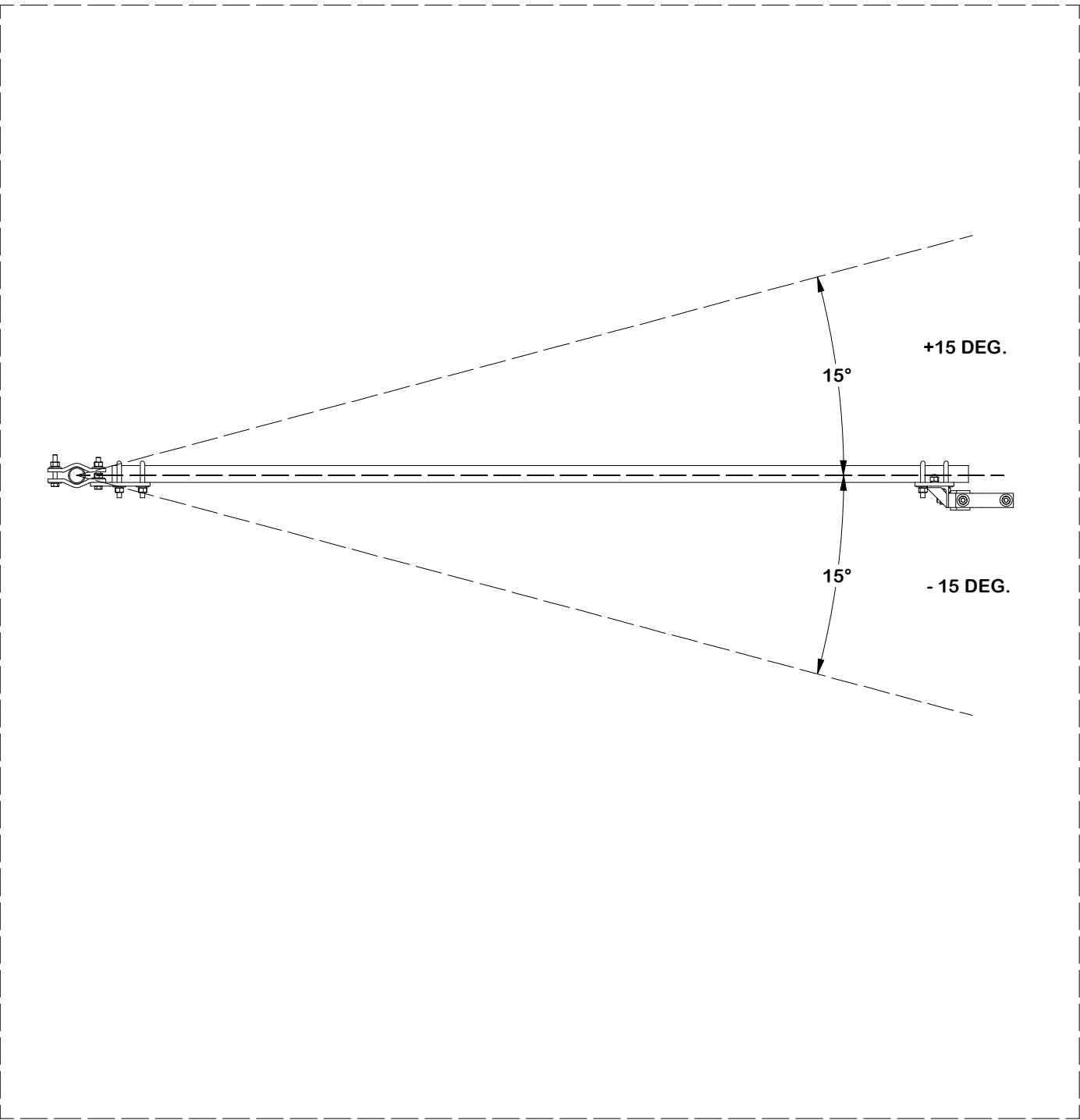
PART NO.
BCAM-HD

DWG. NO.
VFA8-HD-S

RECOMMENDED HORIZONTAL ADJUSTMENT



RECOMMENDED VERTICAL ADJUSTMENT



TOLERANCE NOTES

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PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION
8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

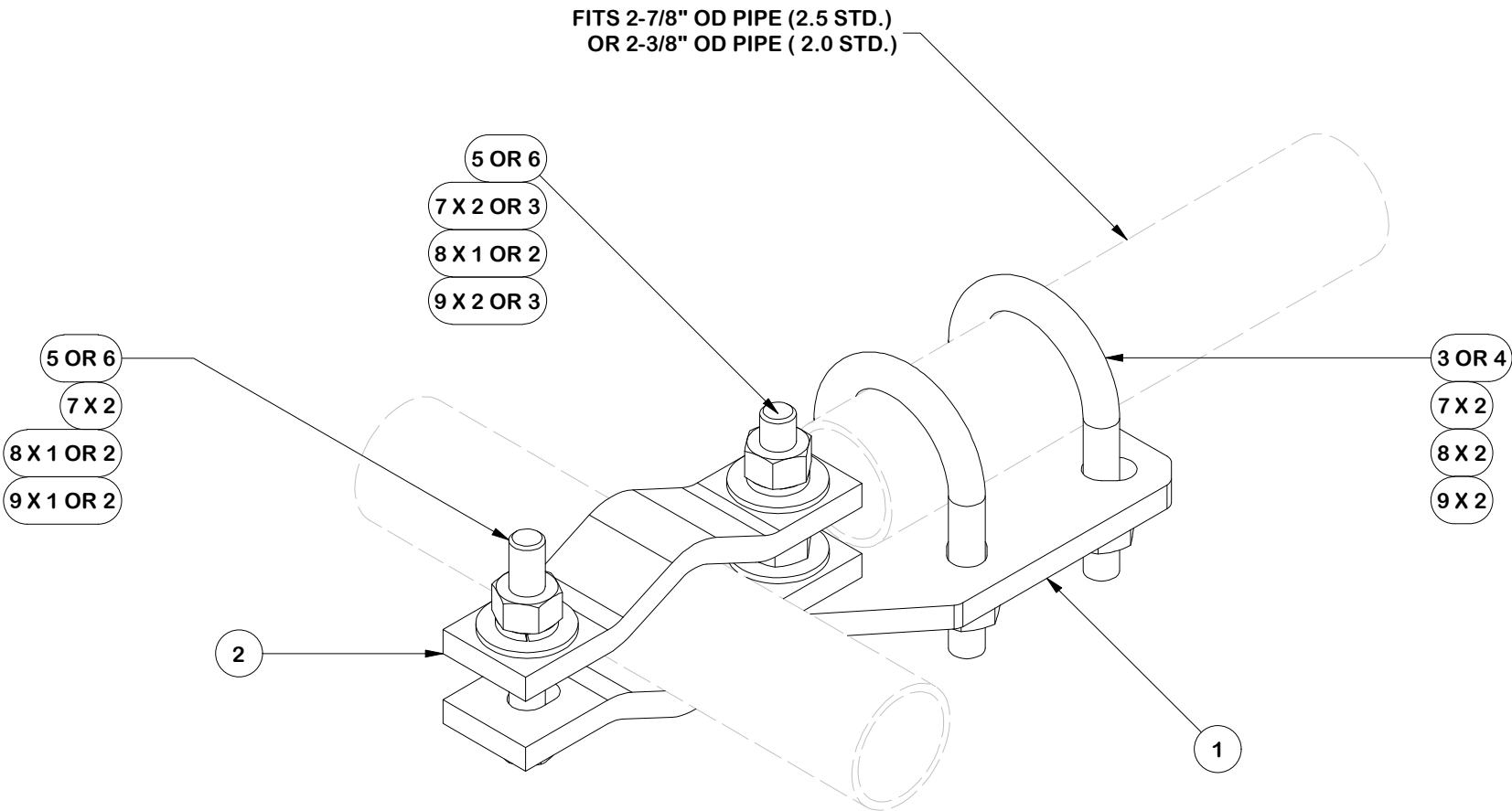
CPD NO. SP1		DRAWN BY KS 3/26/2025	ENG. APPROVAL 6/9/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/9/2025



Engineering
Support Team:
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PART NO. SPTB	9 OF 16 PAGE
DWG. NO. VFA8-HD-S	

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	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
6	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
7	9	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.63
8	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
9	9	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.17
					TOTAL WT. #	19.15



TOLERANCE NOTES

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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

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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.		DRAWN BY		ENG. APPROVAL	
SP1		KS 3/26/2025		6/9/2025	
CLASS	SUB	DRAWING USAGE		CHECKED BY	
87	02	CUSTOMER		CSL 6/9/2025	

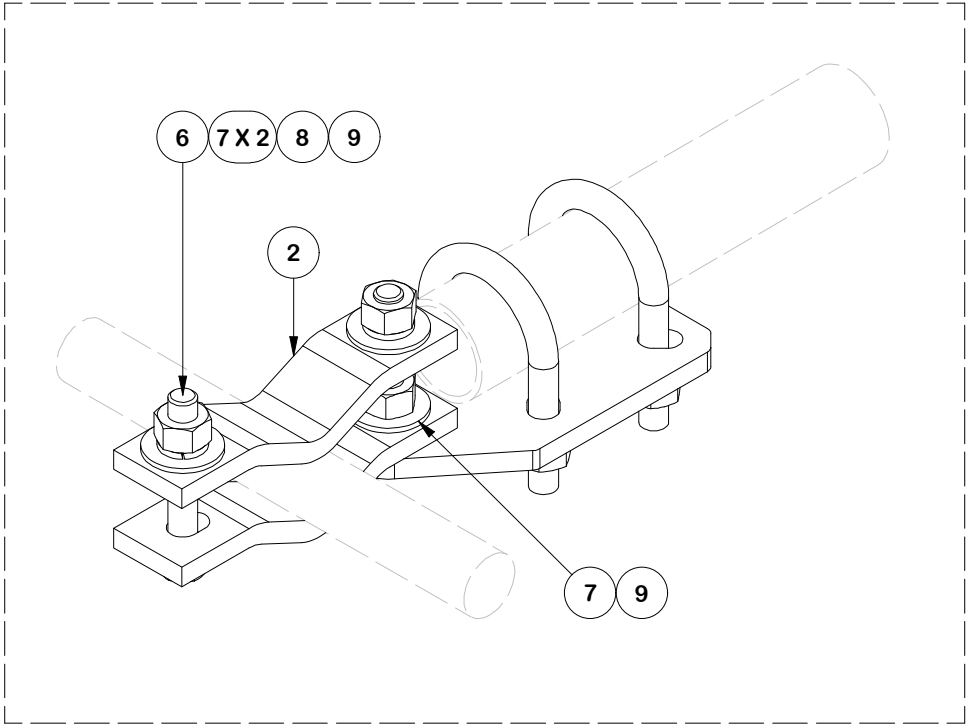


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Support Team:
sp1engineering@valmont.com

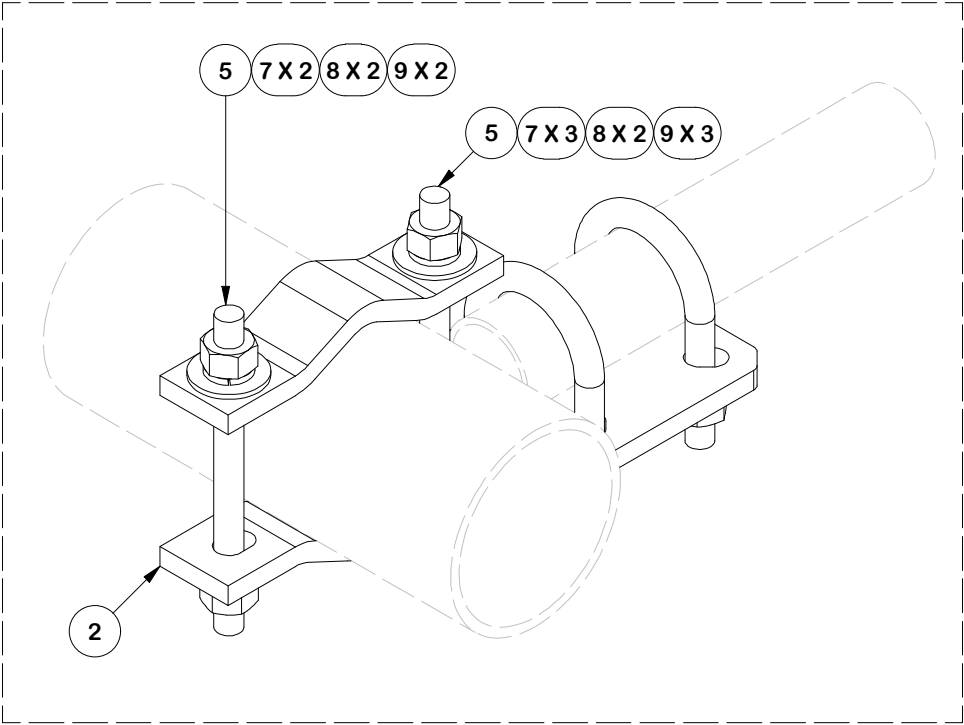
A valmont COMPANY

PART NO.	SPTB-U-F
DWG. NO.	VFA8-HD-S

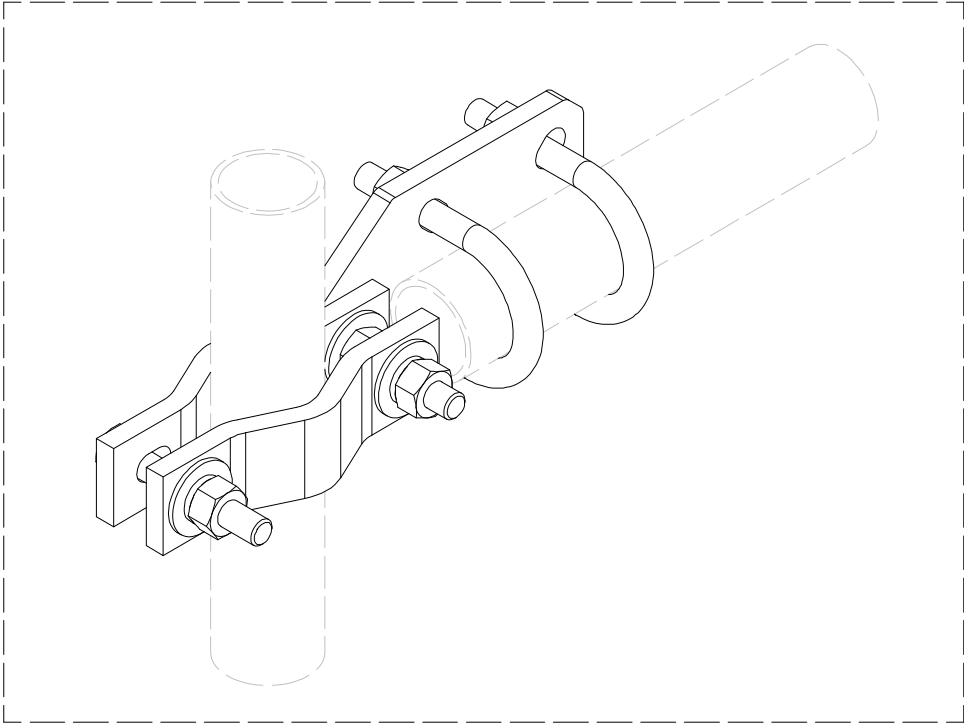
FRONT FACE CONFIGURATIONS



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

TOLERANCE NOTES

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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.

SP1

DRAWN BY

KS 3/26/2025

ENG. APPROVAL

6/9/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

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PART NO.

SPTB-U-F

DWG. NO.

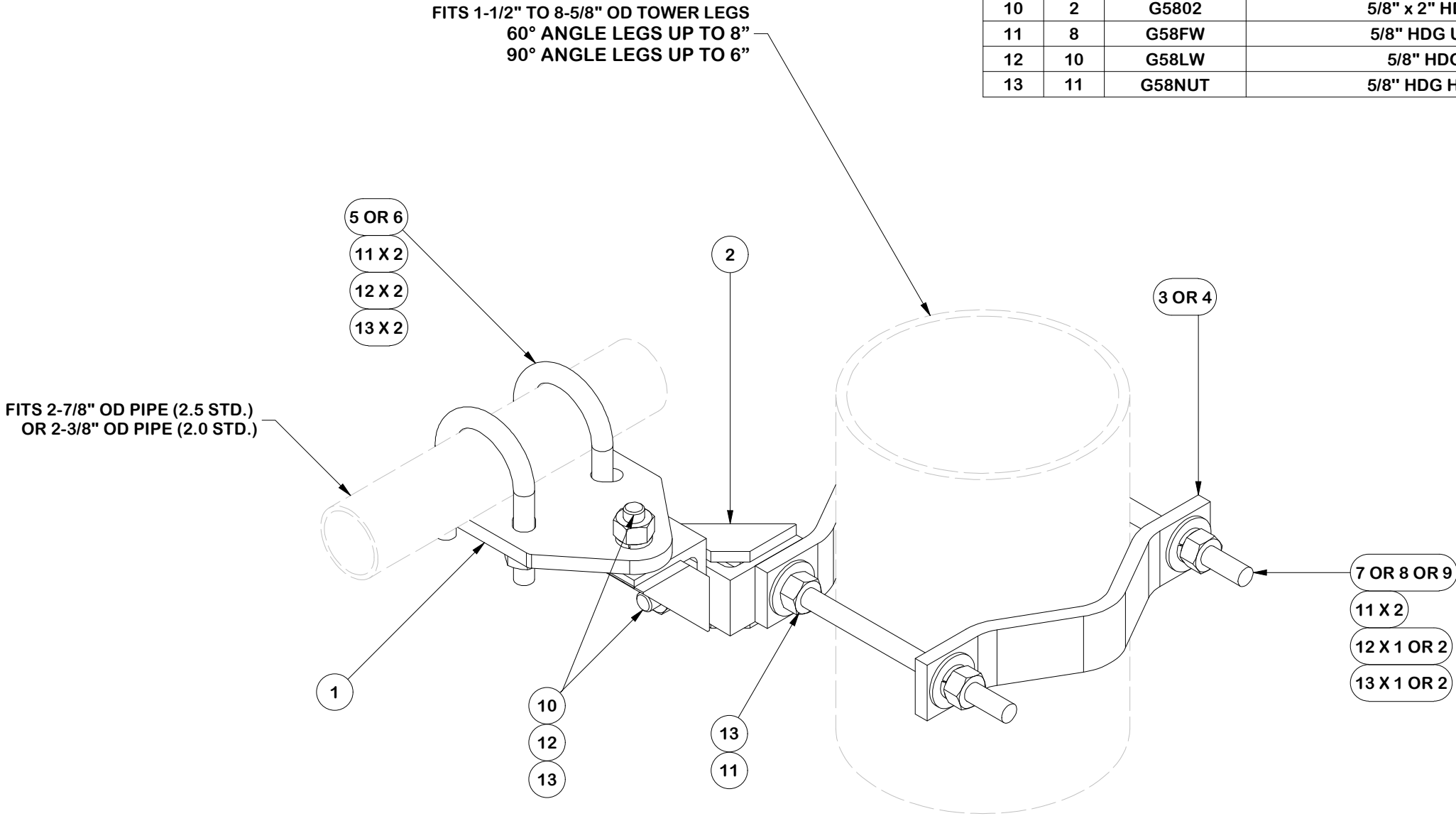
VFA8-HD-S



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Support Team:
sp1engineering@valmont.com

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" CNTER 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	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	2.09
8	2	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	1.39
9	2	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	0.89
10	2	G5802	5/8" x 2" HDG HEX BOLT GR5	2 in	0.27	0.54
11	8	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	0.56
12	10	G58LW	5/8" HDG LOCKWASHER		0.03	0.26
13	11	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.43
					TOTAL WT. #	33.22



TOLERANCE NOTES

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ALL OTHER ASSEMBLY ($\pm 0.060"$)

PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS

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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.

SP1

DRAWN BY

KS 3/26/2025

ENG. APPROVAL

6/9/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL

6/9/2025



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Engineering
Support Team:
sp1engineering@valmont.com

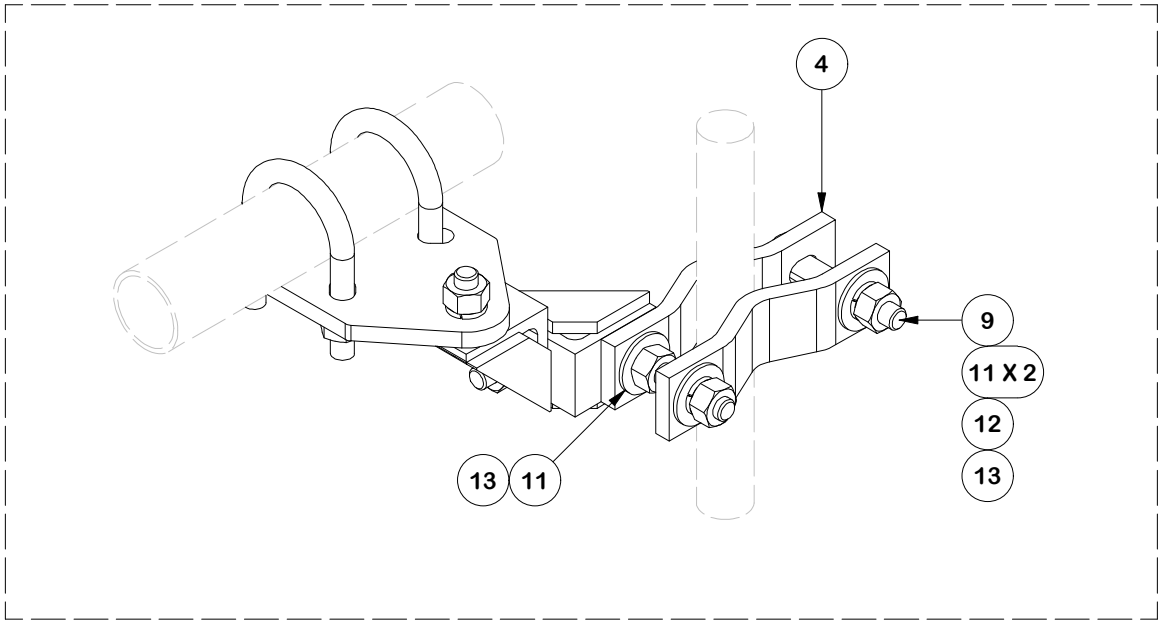
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SPTB-U-B

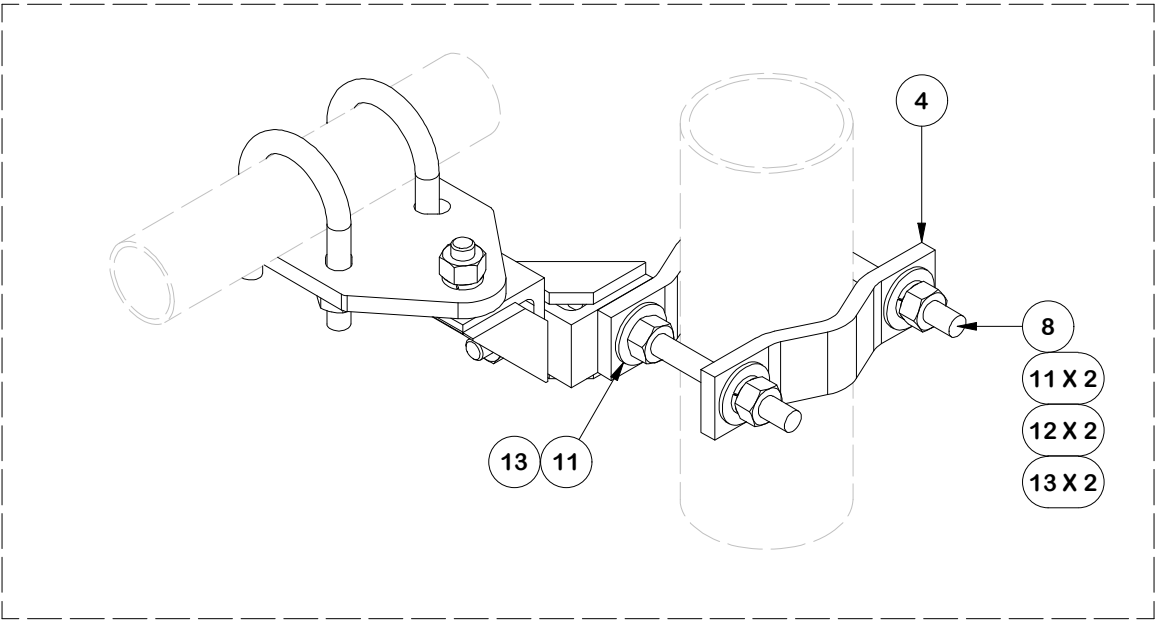
DWG. NO.

VFA8-HD-S

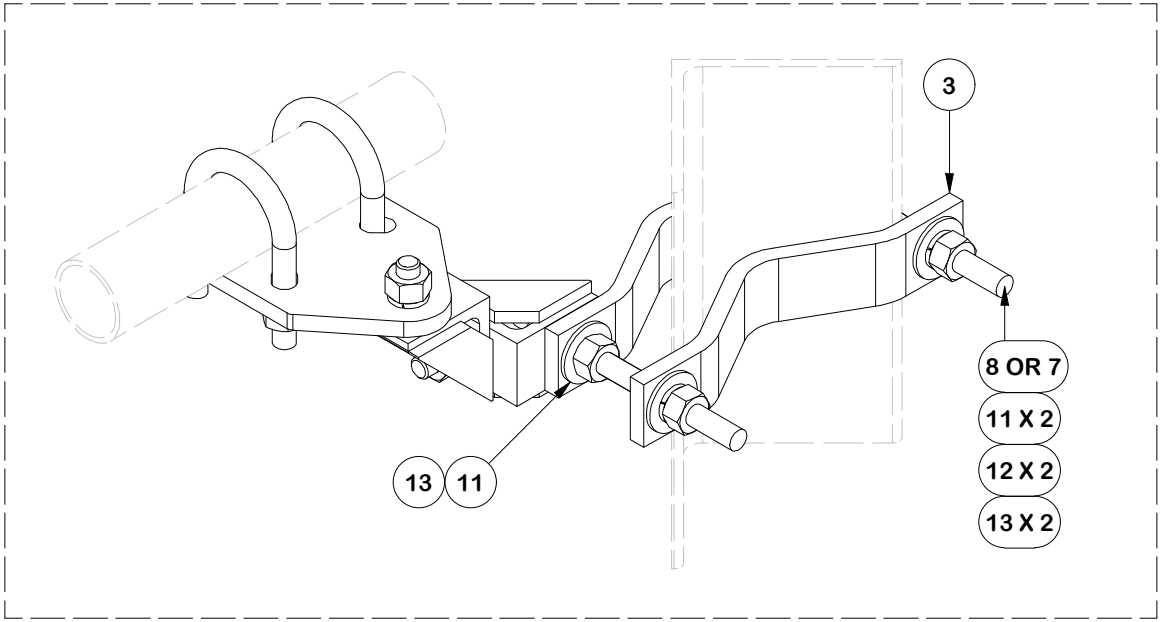
TOWER LEG CONFIGURATIONS



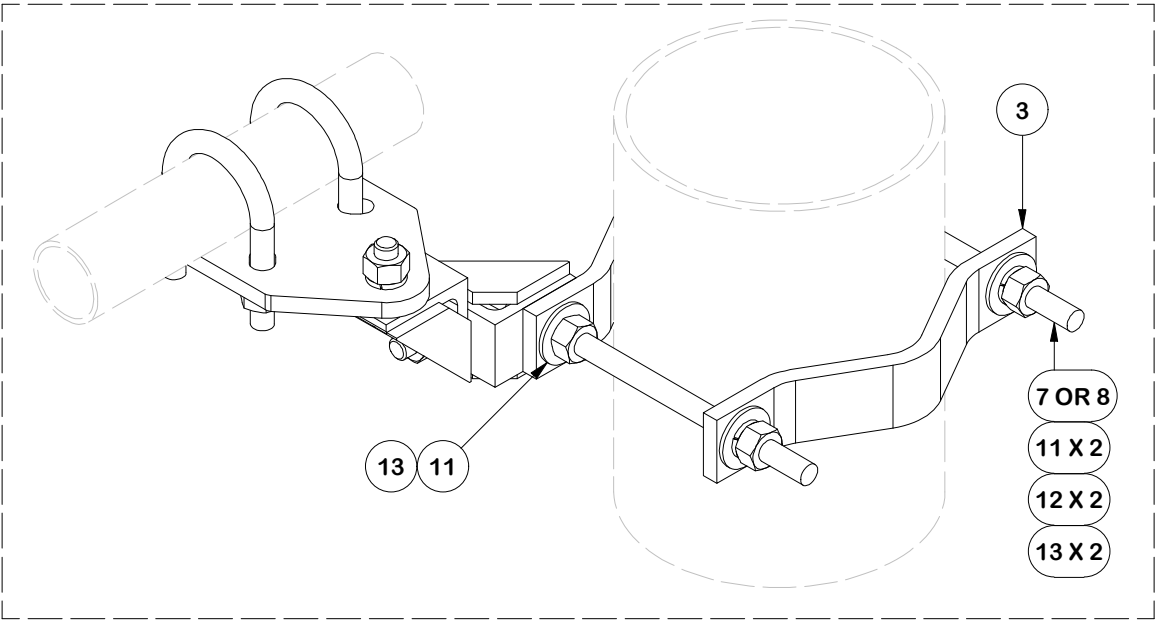
SMALL LEGS 1-1/2" TO 2-3/8"
NOTE: FLIP HALF BACK CLAMP



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

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

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.

SP1

DRAWN BY

KS 3/26/2025

ENG. APPROVAL

6/9/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL 6/9/2025



A valmont COMPANY

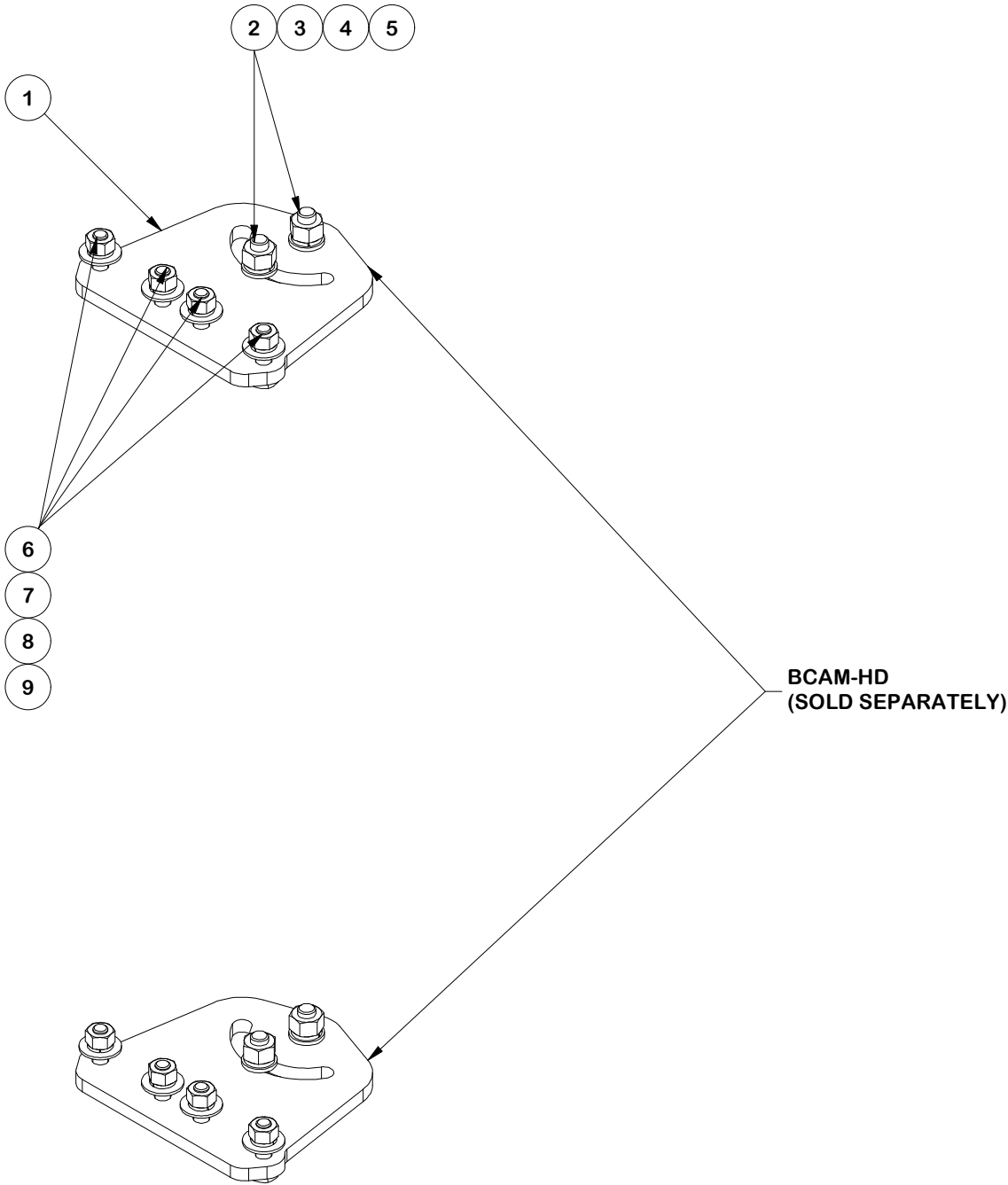
Engineering
Support Team:
sp1engineering@valmont.com

PART NO.

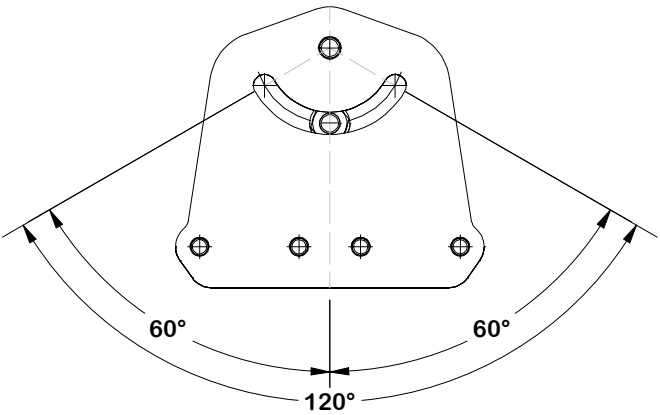
SPTB-U-B

DWG. NO.

VFA8-HD-S



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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BENDS AND ANGLES ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO.

SP1

DRAWN BY

KS

3/26/2025

ENG. APPROVAL

6/9/2025

CLASS

87

SUB

02

DRAWING USAGE

CUSTOMER

CHECKED BY

CSL

6/9/2025



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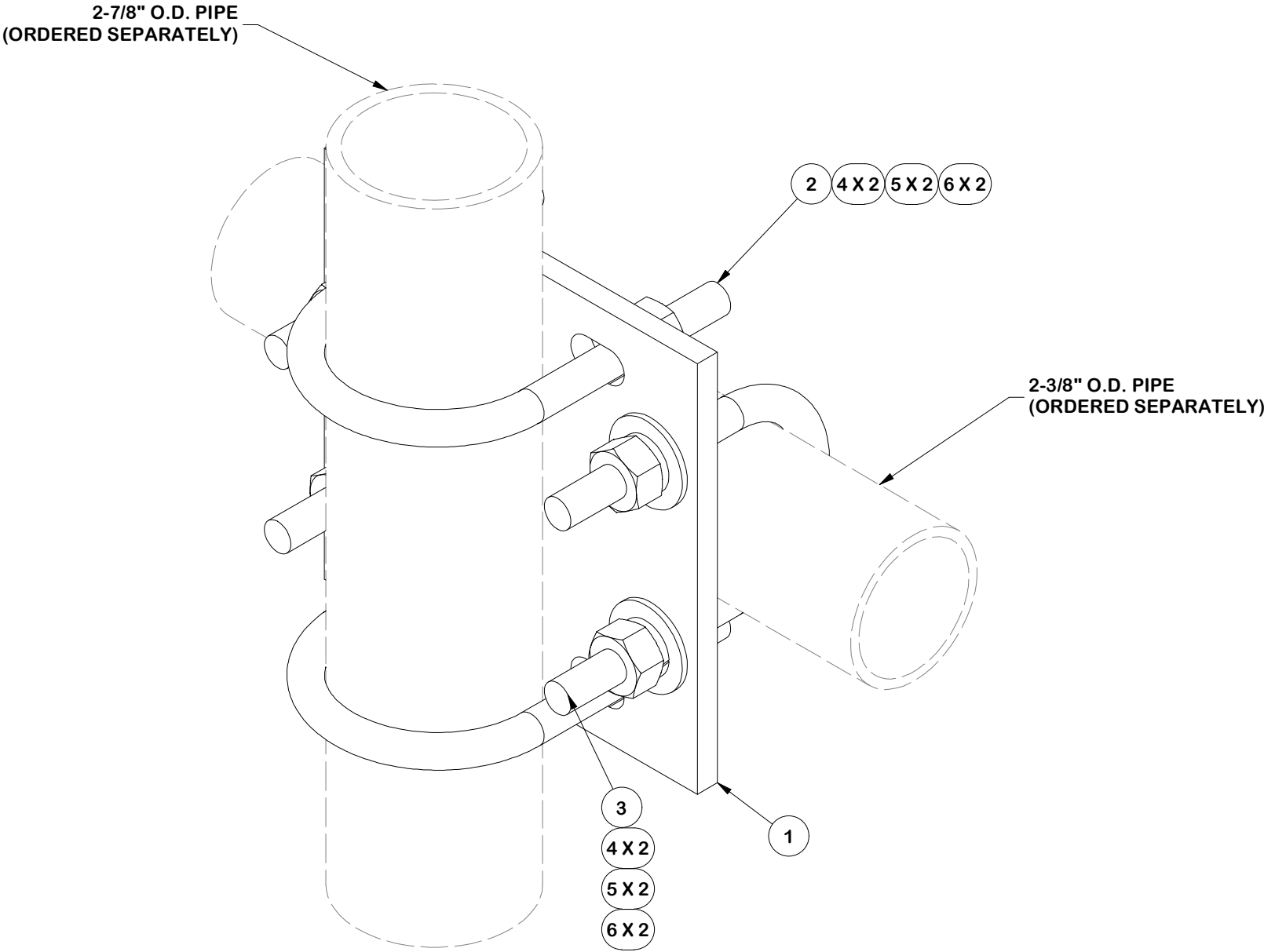
PART NO.

VFAPL4-K

DWG. NO.

VFA8-HD-S

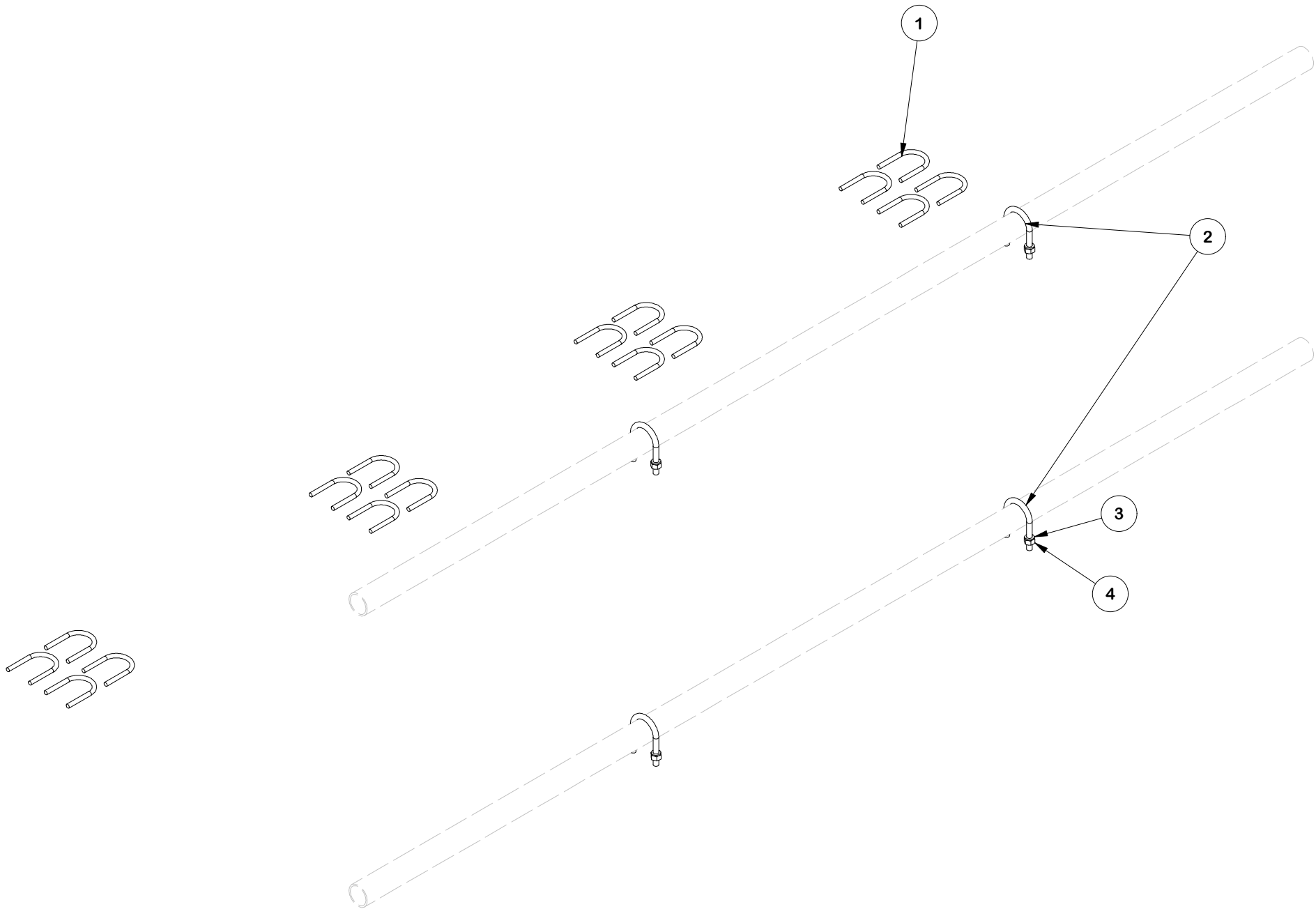
PARTS LIST					
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.
1	1	SCX2	CROSSOVER PLATE	7 in	5.08
2	2	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74
3	2	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT	4 1/2 in	0.66
4	8	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03
5	8	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01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



FINISH:
HOT DIP GALVANIZED.

	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 ($\pm 0.060''$)			DESCRIPTION 8' HEAVY DUTY V-FRAME ASSEMBLY WITH ONE STIFF ARM			SITE PRO 1 A valmont COMPANY Engineering Support Team: sp1engineering@valmont.com		
	PATENT INFORMATION: WWW.SITEPRO1.COM/PATENTS			CPD NO. SP1	DRAWN BY KS 3/26/2025	ENG. APPROVAL 6/9/2025	PART NO. SCX2-K	15 OF 16 PAGE	
	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 CSL 6/9/2025		DWG. NO. VFA8-HD-S

PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	16	X-UB1300	1/2 X 3" X 5" X 2" U-BOLT	5 in	0.74	11.82
2	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT	5 1/4 in	1.22	4.87
3	8	G58LW	5/8" HDG LOCKWASHER		0.03	0.21
4	8	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	1.04
					TOTAL WT. #	17.93



TOLERANCE NOTES

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DESCRIPTION

8' HEAVY DUTY
V-FRAME ASSEMBLY
WITH ONE STIFF ARM

CPD NO. SP1		DRAWN BY KS 3/26/2025	ENG. APPROVAL 6/9/2025
CLASS 87	SUB 02	DRAWING USAGE CUSTOMER	CHECKED BY CSL 6/9/2025



Engineering
Support Team:
sp1engineering@valmont.com

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DWG. NO. VFA8-HD-S	