

ITEM QTY PART NO.							
1 2 X-VFAW SUPPORT ARM 71.41 142.81 2 2 X-HDPMW HEAVY DUTY PIPE MOUNT WELDMENT 18.61 37.21 3 2 X-HDPMBP HEAVY DUTY PIPE MOUNT BACKING PLATE 12 in 13.44 26.89 4 2 X-VFAPL3 VFA-HD PIVOT PLATE 24 in 9.69 19.38 5 1 X-LPB LOWER PIVOT BRACKET 8.84 8.84 6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 18 18 in 2.42 19.36 13				PARTS LIST			
2 2 X-HDPMW HEAVY DUTY PIPE MOUNT WELDMENT 18.61 37.21 3 2 X-HDPMBP HEAVY DUTY PIPE MOUNT BACKING PLATE 12 in 13.44 26.89 4 2 X-VFAPL3 VFA-HD PIVOT PLATE 24 in 9.69 19.38 5 1 X-LPB LOWER PIVOT BRACKET 8.84 8.84 8.84 6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 51/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X-126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG HCAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 1.05 4.18 10 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 8 SCH. 40 SCH	ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
3 2 X-HDPMBP HEAVY DUTY PIPE MOUNT BACKING PLATE 12 in 13.44 26.89 4 2 X-VFAPL3 VFA-HD PIVOT PLATE 24 in 9.69 19.38 5 1 X-LPB LOWER PIVOT BRACKET 8.84 8.84 6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 2.02 9 8 SCX2 CROSSOOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 19.36 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 2 1/16 in 3.59 14.37 14.37 14.46 in 3.59 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37 14.37	1	2	X-VFAW	SUPPORT ARM		71.41	142.81
4 2 X-VFAPL3 VFA-HD PIVOT PLATE 24 in 9.69 19.38 5 1 X-LPB LOWER PIVOT BRACKET 8.84 8.84 6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5.1/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-9/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 188.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48<	2	2	X-HDPMW	HEAVY DUTY PIPE MOUNT WELDMENT		18.61	37.21
5 1 X-LPB LOWER PIVOT BRACKET 8.84 8.84 6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG HEAVY 2H HEX NUT 0.21 1.	3	2	X-HDPMBP	HEAVY DUTY PIPE MOUNT BACKING PLATE	12 in	13.44	26.89
6 1 X-UPB UPPER PIVOT BRACKET 8.84 8.84 7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 51/2 in 5.87 23.49 8 4 X-TECA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 21/2 in 0.48 2.87 15 6 G34NUT 3/4" HDG HCAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 1.05 4.18 21 8 K-UB5300 5/8" x 3" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.10 8.00 23 8 A582114 5/8" x 2-1/4" HDG HEX BOLT (HDG.) 1.00 8.00 23 8 G58R-W 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 23 8 G58R-W 5/8" x 2-1/4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2-1/4" HDG HEX BOLT GR5 0.44 3.55 25 20 G58FW 5/8" x 2-1/4" HDG HEX BOLT GR5 0.27 1.08 26 66 G58LW 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 27 70 G58NUT 5/8" HDG HEX BOLT GR5 0.27 1.08 28 32 X-UB1300 1/2" x 3" x 5" x 2" GALV HEX NUT 0.13 9.09 29 16 X-UB1212 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.73 1.72 27 70 G58NUT 5/8" HDG HEX BOLT GR5 0.27 1.08 30 64 G12FW 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.74 23.64 31 64 G12LW 1/2" HDG USS FLATWASHER 1/8 in 0.01 0.09 3.12	4	2	X-VFAPL3	VFA-HD PIVOT PLATE	24 in	9.69	19.38
7 4 X-SPTB SLIDING PIPE TIE BACK PLATE 5 1/2 in 5.87 23.49 8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" x 2-1/2" UNC HEX BOLT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREA	5	1	X-LPB	LOWER PIVOT BRACKET		8.84	8.84
8 4 X-TBCA TIE BACK CLIP ANGLE 2.01 8.02 9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 16 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG HCAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 0.26 16 6 G34NUT 3/4" HDG HCAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 1" THREADED ROD (HDG.) 18 in<	6	1	X-UPB	UPPER PIVOT BRACKET		8.84	8.84
9 8 SCX2 CROSSOVER PLATE 7 in 4.80 38.37 10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 24 4 G5802 5/8" x 2-1/4" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEX Y 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT (HDG.) 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.03 0.13 31 64 G12FW 1/2" HDG HEX Y 2H HEX NUT 0.13 9.09 32 64 G12NUT 1/2" HDG HEX Y 2H HEX NUT 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	7	4	X-SPTB	SLIDING PIPE TIE BACK PLATE	5 1/2 in	5.87	23.49
10 4 MCP CLAMP HALF 1/2" THICK, 11-5/8" LONG 12 1/16 in 3.59 14.37 11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG LOCKWASHER 0.04 0.21 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 18" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" x 3" X 5-1/4" x 2-1/2" U-BOLT (HDG.)	8	4	X-TBCA	TIE BACK CLIP ANGLE		2.01	8.02
11 8 DCP 1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF 8 1/8 in 2.42 19.36 13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG LOCKWASHER 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 18" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" x 3" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.15 4.60	9	8	SCX2	CROSSOVER PLATE	7 in	4.80	38.37
13 2 P2126 2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE 126 in 40.75 81.50 12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5300 5/8" X 2-4/12" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG HEX BOLT GR5 0.44 3.55	10	4	MCP	CLAMP HALF 1/2" THICK, 11-5/8" LONG	12 1/16 in	3.59	14.37
12 2 P30174 2-7/8" O.D. x 174" SCH. 40 PIPE 174 in 84.20 168.39 14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 2" J4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5300 5/8" X 2" J4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 23 8 A582114 5/8" x 4" HDG HEX BOLT GR5 0.27 1.08 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25	11	8	DCP	1/2" THICK, 5-3/4" CNTER TO CENTER CLAMP HALF	8 1/8 in	2.42	19.36
14 6 A34212 3/4" x 2-1/2" UNC HEX BOLT (A325) 2 1/2 in 0.48 2.87 15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 12" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 2" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" x 3" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5300 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20	13	2	P2126	2-3/8" X 126" (2" SCH. 40) GALVANIZED PIPE	126 in	40.75	81.50
15 6 G34LW 3/4" HDG LOCKWASHER 0.04 0.26 16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" x 3" x 5-1/4" x 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" x 2-5/8" x 4-1/2" x 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG LOCKWASHER 1/8 in 0.07 1.41 26 66 G58LW	12	2	P30174	2-7/8" O.D. x 174" SCH. 40 PIPE	174 in	84.20	168.39
16 6 G34NUT 3/4" HDG HEAVY 2H HEX NUT 0.21 1.27 19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" X 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32	14	6	A34212	3/4" x 2-1/2" UNC HEX BOLT (A325)	2 1/2 in	0.48	2.87
19 8 G58R-18 5/8" x 18" THREADED ROD (HDG.) 18 in 0.40 3.19 20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 <td< td=""><td>15</td><td>6</td><td>G34LW</td><td>3/4" HDG LOCKWASHER</td><td></td><td>0.04</td><td>0.26</td></td<>	15	6	G34LW	3/4" HDG LOCKWASHER		0.04	0.26
20 4 G58R-12 5/8" x 12" THREADED ROD (HDG.) 1.05 4.18 21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW	16	6	G34NUT	3/4" HDG HEAVY 2H HEX NUT		0.21	1.27
21 8 G58R-8 5/8" x 8" THREADED ROD (HDG.) 0.70 5.58 17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" X 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW	19	8	G58R-18	5/8" x 18" THREADED ROD (HDG.)	18 in	0.40	3.19
17 4 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 4.60 18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31	20	4	G58R-12	5/8" x 12" THREADED ROD (HDG.)		1.05	4.18
18 8 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 8.00 23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 2" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 <td>21</td> <td>8</td> <td>G58R-8</td> <td>5/8" x 8" THREADED ROD (HDG.)</td> <td></td> <td>0.70</td> <td>5.58</td>	21	8	G58R-8	5/8" x 8" THREADED ROD (HDG.)		0.70	5.58
23 8 A582114 5/8" x 2-1/4" HDG A325 HEX BOLT 2 1/4 in 0.31 2.50 22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	17	4	X-UB5300	5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.)		1.15	4.60
22 8 G5804 5/8" x 4" HDG HEX BOLT GR5 0.44 3.55 24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	18	8	X-UB5258	5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.)		1.00	8.00
24 4 G5802 5/8" x 2" HDG HEX BOLT GR5 0.27 1.08 25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" S " X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	23	8	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	2.50
25 20 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 1.41 26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 2-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	22	8	G5804	5/8" x 4" HDG HEX BOLT GR5		0.44	3.55
26 66 G58LW 5/8" HDG LOCKWASHER 0.03 1.72 27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	24	4	G5802	5/8" x 2" HDG HEX BOLT GR5		0.27	1.08
27 70 G58NUT 5/8" HDG HEAVY 2H HEX NUT 0.13 9.09 28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	25	20	G58FW	5/8" HDG USS FLATWASHER	1/8 in	0.07	1.41
28 32 X-UB1300 1/2" X 3" X 5" X 2" GALV U-BOLT 0.74 23.64 29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	26	66	G58LW	5/8" HDG LOCKWASHER		0.03	1.72
29 16 X-UB1212 1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.) 0.63 10.00 30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	27	70	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	9.09
30 64 G12FW 1/2" HDG USS FLATWASHER 3/32 in 0.03 2.18 31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	28	32	X-UB1300	1/2" X 3" X 5" X 2" GALV U-BOLT		0.74	23.64
31 64 G12LW 1/2" HDG LOCKWASHER 1/8 in 0.01 0.89 32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	29	16	X-UB1212	1/2" X 2-1/2" X 4-1/2" X 2" U-BOLT (HDG.)		0.63	10.00
32 64 G12NUT 1/2" HDG HEAVY 2H HEX NUT 0.07 4.58	30	64	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	2.18
	31	64	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.89
TOTAL WT. # 700.78	32	64	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	4.58
				<u> </u>		TOTAL WT. #	700.78

B CHANGED TIE-BACK BACK CONNECTION CEK 7/31/2017 A CHANGED TIE-BACK FRONT CONNECTION CEK 2/2/2017 REV DESCRIPTION OF REVISIONS CPD BY DATE REVISION HISTORY

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (\$ 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (\$ 0.030") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION

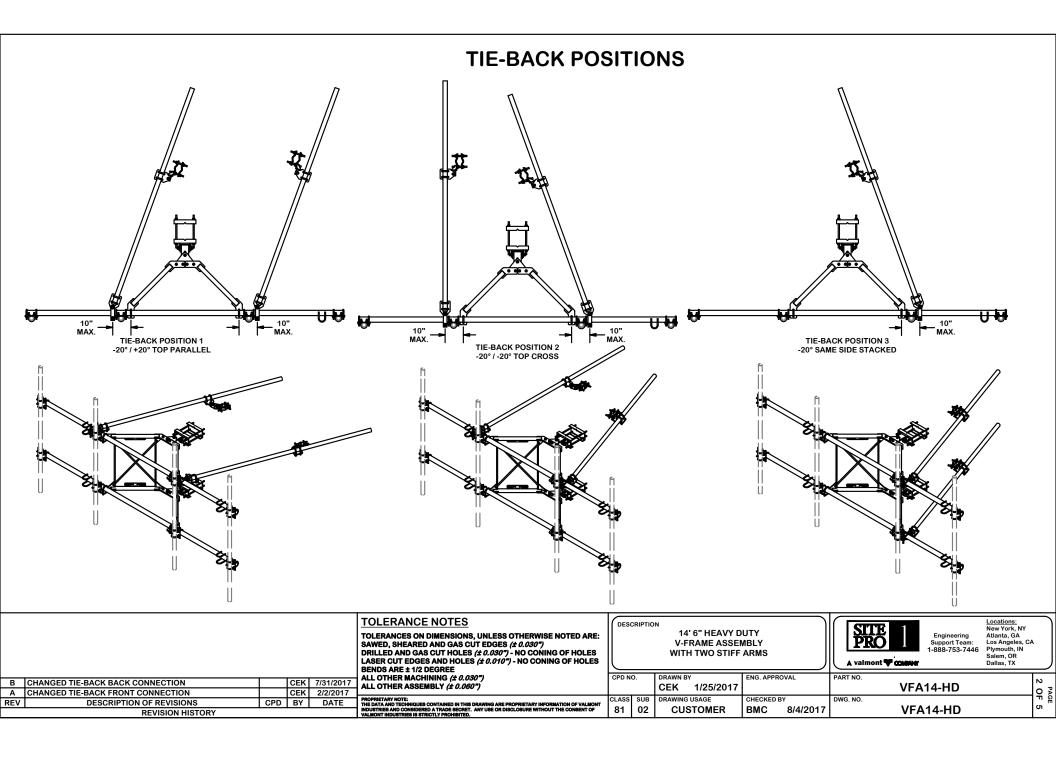
14' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS

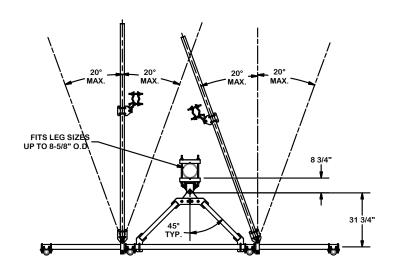


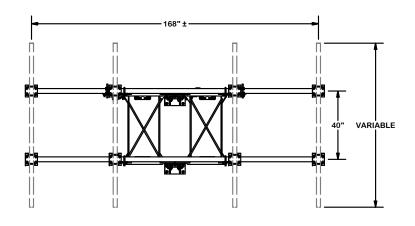
Engineering Atlanta, GA
Support Team: Locations:
New York, NY
Atlanta, GA
1-888-753-7446
Plymouth, IN
Salem, OR
Dallas, TX

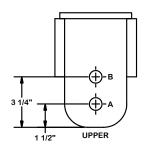
A valmont Town

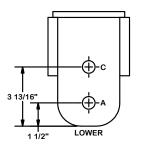
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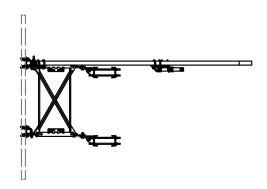






- NOTES:

 1. USE HOLE "A' IN UPPER AND LOWER BRACKETS FOR STRAIGHT LEGS.
- 2. USE HOLE "A" IN UPPER BRACKET AND HOLE "C" IN LOWER BRACKET FOR 2" IN 20' TAPER LEGS (3.309°)
- 3. USE HOLE "B" IN UPPER BRACKET AND HOLE "C" IN LOWER BRACKET FOR 6" IN 20' TAPER LEGS. (0.827°)



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (\$ 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (\$ 0.030") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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DESCRIPTION

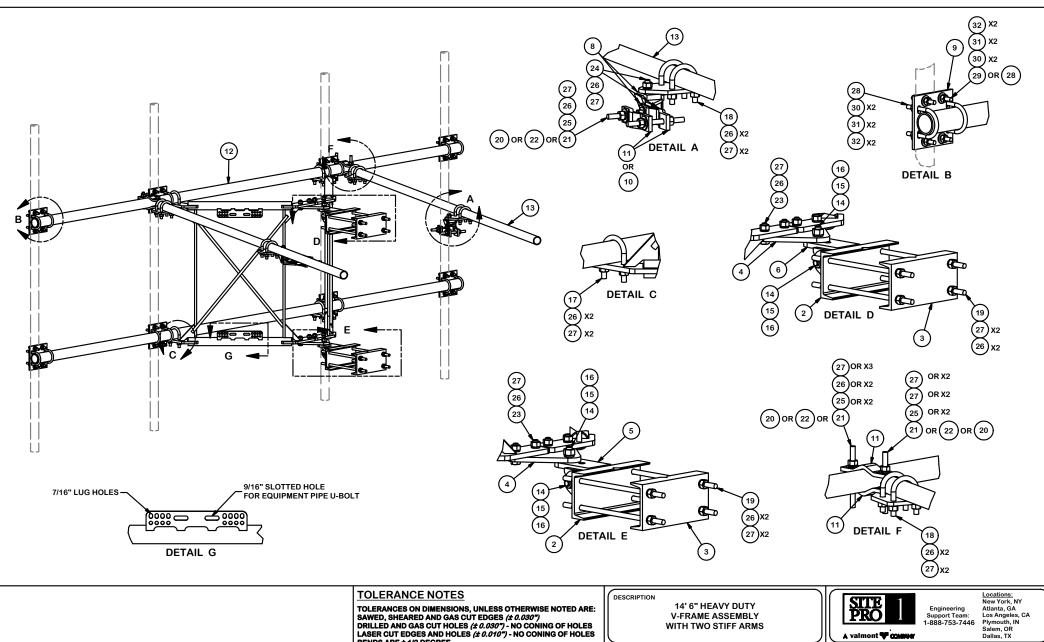
14' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS



Engineering Atlanta, GA
Support Team: Los Angeles, CA
1-888-753-7446
Salem, OR
Dallas, TX

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ONT F	81	02	CUSTOMER	BMC 8/4/2017	VFA14-HD	5

В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017				
Α	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE				
	REVISION HISTORY							



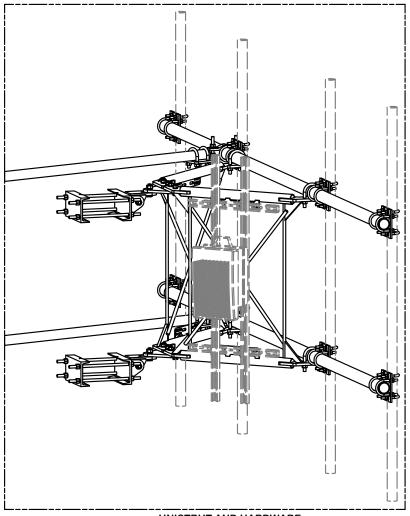
В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017				
Α	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017				
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE				
	REVISION HISTORY							

BENDS ARE ± 1/2 DEGREE

ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

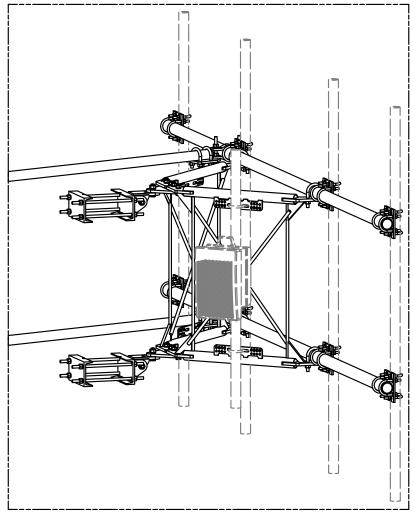
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UNISTRUT AND HARDWARE SOLD SEPARATELY.

REQUIRES 3/8" HARDWARE



EQUIPMENT PIPE AND HARDWARE SOLD SEPARATELY.

REQUIRES 1/2" HARDWARE AND 2-3/8" TO 4-1/2" O.D. PIPE

					E	
В	CHANGED TIE-BACK BACK CONNECTION		CEK	7/31/2017	7	
Α	CHANGED TIE-BACK FRONT CONNECTION		CEK	2/2/2017	Ĺ	
REV	DESCRIPTION OF REVISIONS	CPD	BY	DATE	T	
	REVISION HISTORY					

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

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DESCRIPTION 14' 6" HEAVY DUTY V-FRAME ASSEMBLY WITH TWO STIFF ARMS A valmont Toward

Engineering Support Team: 1-888-753-7446

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

CPD N	0.	DRAWN BY	ENG. APPROVAL	PART NO.	5	
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81	02	CUSTOMER	BMC 8/4/2017	VFA14-HD	5	