

WISCONSIN BOX TRUSS SUBMITTAL		
PROJECT# 1166-09-76 MARATHON COUNTY		
USH-51		
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21	CANTILEVER COMPLETE BOM	122713

STRUCTURE MATERIAL SPECIFICATIONS:
-STEEL PLATE: ASTM A709 GRADE 36 / ASTM A36
-STEEL PIPE: API 5L X 42 OR ASTM A500 GRADE B
-ANCHOR BOLTS: ASTM F1554 GRADE 55 (GALVANIZED TO ASTM A153, CLASS C)
-ANCHOR BOLT NUTS: ASTM A563, GRADE DH OR DH3.
-STEEL BOLTS: ASTM A325
-STEEL BOLTS UNDER 1/2": SAE J429 GRADE 5
-STEEL NUTS: ASTM A563 GRADE DH OR ASTM A 194 GRADE 2H
-STEEL WASHERS: ASTM F436
ALL STEEL HARDWARE TO BE HOT DIP GALVANIZED PER ASTM A153
-ALL ALUMINUM EXTRUSIONS: ASTM B221, ALLOY 6061-T6
STAINLESS STEEL U-BOLTS: ASTM A193, CLASS 1, GRADE B8.
STAINLESS STEEL PLAIN NUTS: ASTM A194, GRADE 8F, TYPE 303.
STAINLESS STEEL FLAT WASHERS: FABRICATED FROM PLATE CONFORMING TO ASTM A240, TYPE 302. DIMENSIONAL TOLERANCES IN ACCORDANCE WITH ANSI B18.22.1 TYPE A NARROW.

ALL BOLTS ARE TO BE TIGHTENED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS & STATE SPECIFICATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASSEMBLE ALL BOLTED CONNECTIONS.

THIS SUBMITTAL WAS PREPARED BASED OFF OF THE STATE PLANS WITH NO REVISIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ANY REVISIONS TO THE ORIGINAL PLANS THAT MAY AFFECT THIS SUBMITTAL.

ELEVATIONS & ANCHOR BOLT ORIENTATION MUST BE CONFIRMED BEFORE ANY FABRICATION CAN BEGIN.

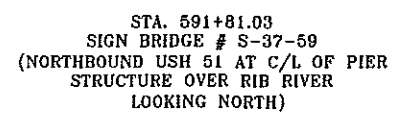
WELDING OF STEEL SHALL CONFORM TO AWS D1.1. NDT SHALL BE PERFORMED USING THE ENHANCED MAGNETIC PARTICAL METHOD ON 10% OF PRIMARY MEMBERS. THE ACCEPTANCE CRITERIA IS STATED IN TABLE 6.1 OF ANSI/AWS D1.1. DYE PENETRANT TESTING TO BE PERFORMED AS CALLED OUT THROUGHTOUT THE PLANS.

ALL FINISHED STEEL MEMBERS ARE TO BE HOT DIP GALVANIZED PER ASTM A123.

REV	DESCRIPTION OF REVISIONS	RD	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.	DESCRIPTION WISCONSIN BOX TRUSS SUBMITTAL PROJECT# 1166-09-76 MARATHON COUNTY			 1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR	
					TOLERANCE NOTE: TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE (PLUS OR MINUS) FRACTIONAL INCHES AND STRUCTURAL 0.060" BENDS ARE +/- 0.01" UNLESS OTHERWISE NOTED.	DR BY BTD 05/02/2007	CPD NO. 4080	DRAWING USAGE SUBMITTAL	PART NO.	1
					ENG APPROVAL		CHECKED BY	DWG NO. 210600	1	

NO HANDHOLE REQUIRED ON THIS STRUCTURE.

NO WALKWAY OR LUMITRAK SYSTEM IS REQUIRED FOR THIS STRUCTURE.



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(PLUS OR MINUS) MACHINING 0.030" AND STRUCTURAL 0.060"
BENDS ARE $\pm$ OF $\pm 1/2$ DEGREE

WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

ENCLOSURE

0-650-27

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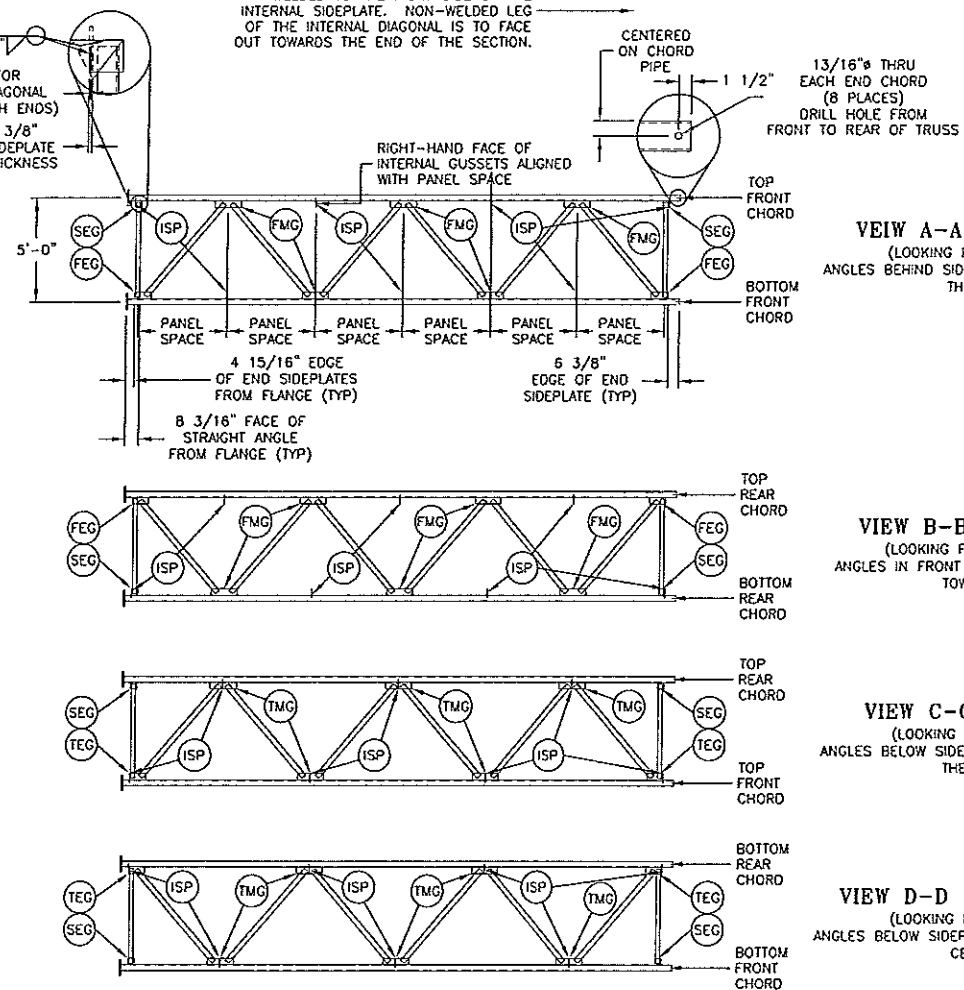
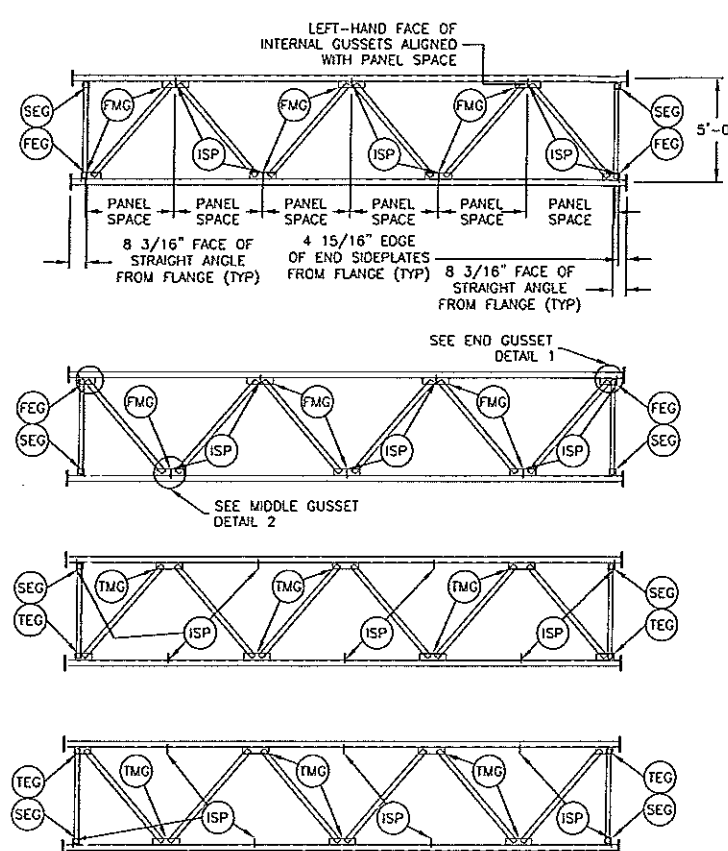
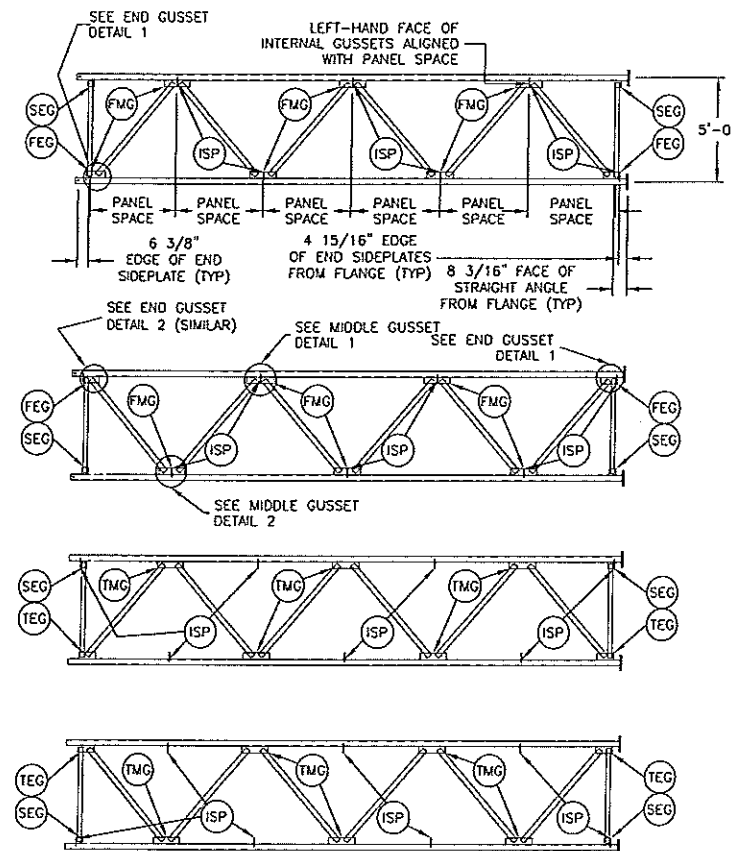
75/ 2509-04 OF 25-10-2018 100 20 1

18 PANEL TRUSS ASSEMBLY VIEWS

ALL INTERNAL DIAGONALS ARE TO BE WELDED TO THE LEFT SIDE OF THE INTERNAL SIDEPLATE. NON-WELDED LEG OF THE INTERNAL DIAGONAL IS TO FACE OUT TOWARDS THE END OF THE SECTION.

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ALL INTERNAL DIAGONALS ARE TO BE WELDED TO THE RIGHT SIDE OF THE INTERNAL SIDEPLATE. NON-WELDED LEG OF THE INTERNAL DIAGONAL IS TO FACE OUT TOWARDS THE END OF THE SECTION.



VIEW A-A FRONT FACE OF TRUSS
(LOOKING FROM THE FRONT OF THE TRUSS)
ANGLES BEHIND SIDEPLATES, ANGLE LEGS FACING IN TOWARDS
THE CENTER OF THE TRUSS

VIEW B-B REAR FACE OF TRUSS
(LOOKING FROM THE FRONT OF THE TRUSS)
ANGLES IN FRONT OF SIDEPLATES, ANGLE LEGS FACING IN
TOWARDS CENTER OF TRUSS

VIEW C-C TOP FACE OF TRUSS
(LOOKING FROM THE TOP OF THE TRUSS)
ANGLES BELOW SIDEPLATES, ANGLE LEGS FACING IN TOWARDS
THE CENTER OF THE TRUSS

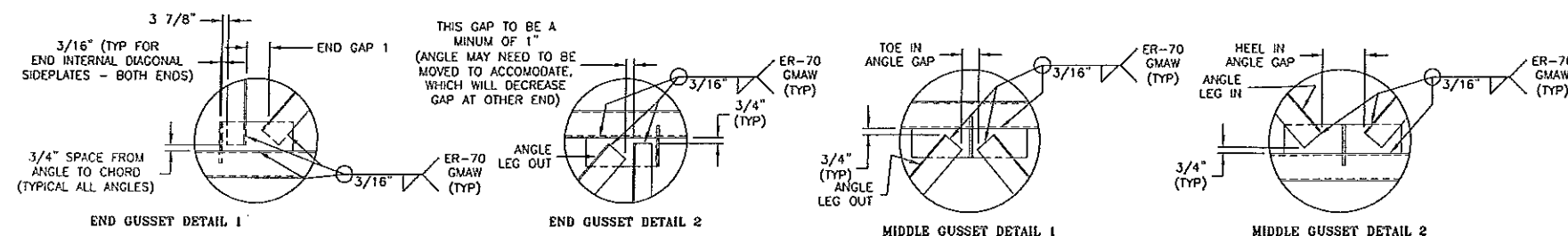
VIEW D-D BOTTOM FACE OF TRUSS
(LOOKING FROM THE TOP OF THE TRUSS)
ANGLES BELOW SIDEPLATES, ANGLE LEGS OUT AWAY FROM THE
CENTER OF THE SECTION

*ALL SIDEPLATE TO CHORD, SIDEPLATE TO SIDEPLATE AND ANGLE TO SIDEPLATE WELDS ARE TO BE 3/16" FILLET WELDS. ALL PARTS ARE TO BE WELDED COMPLETELY AROUND. DOUBLE CHECK REQUIRED WELD LENGTH FOR PARTICULAR ANGLE SIZE BEFORE FINAL WELDING.

PANEL SPACE IS BASED ON THE INTERSECTION OF THE CENTROIDS OF ALL THE ANGLES AT THE CENTERLINE OF THE CHORD PIPES(EXCLUDING INTERIOR DIAGONALS) IN THE TRUSS.

ALL ANGLE TO BE POSITIONED SO THAT THEY DO NOT "DRINK" WATER.

ANGLE SIZE	REQUIRED WELD LENGTH
3/16" X 3/4" X 3"	10"
1/4" X 2 1/2" X 2 1/2"	11"
1/4" X 3" X 3"	13"
1/4" X 4" X 4"	18"
5/16" X 3" X 3"	16 1/2"
5/16" X 4" X 4"	22"
3/8" X 3" X 3"	19 1/2"
3/8" X 4" X 4"	26"
1/2" X 4" X 4"	36"



CALCULATED GAPS FOR DIAGONALS							
A#	STRUCTURE	FRONT		FRONT MIDDLE		TOP MIDDLE	
		END GAP 1	END GAP 2	TOE IN ANGLE GAP	TOE OUT ANGLE GAP	TOE IN ANGLE GAP	TOE OUT ANGLE GAP
122714	S-37-59	2 7/16"	2 7/16"	2 9/16"	6 5/16"	2 9/16"	6 5/16"

PROPRIETARY NOTE:
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TOLERANCE NOTE:
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE
(PLUS OR MINUS, MACHINING 0.030" AND STRUCTURAL 0.060"
BENDS ARE 1° OR 1/2° ANGLES)

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WISCONSIN BOX TRUSS SUBMITTAL
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MARATHON COUNTY

valmont 

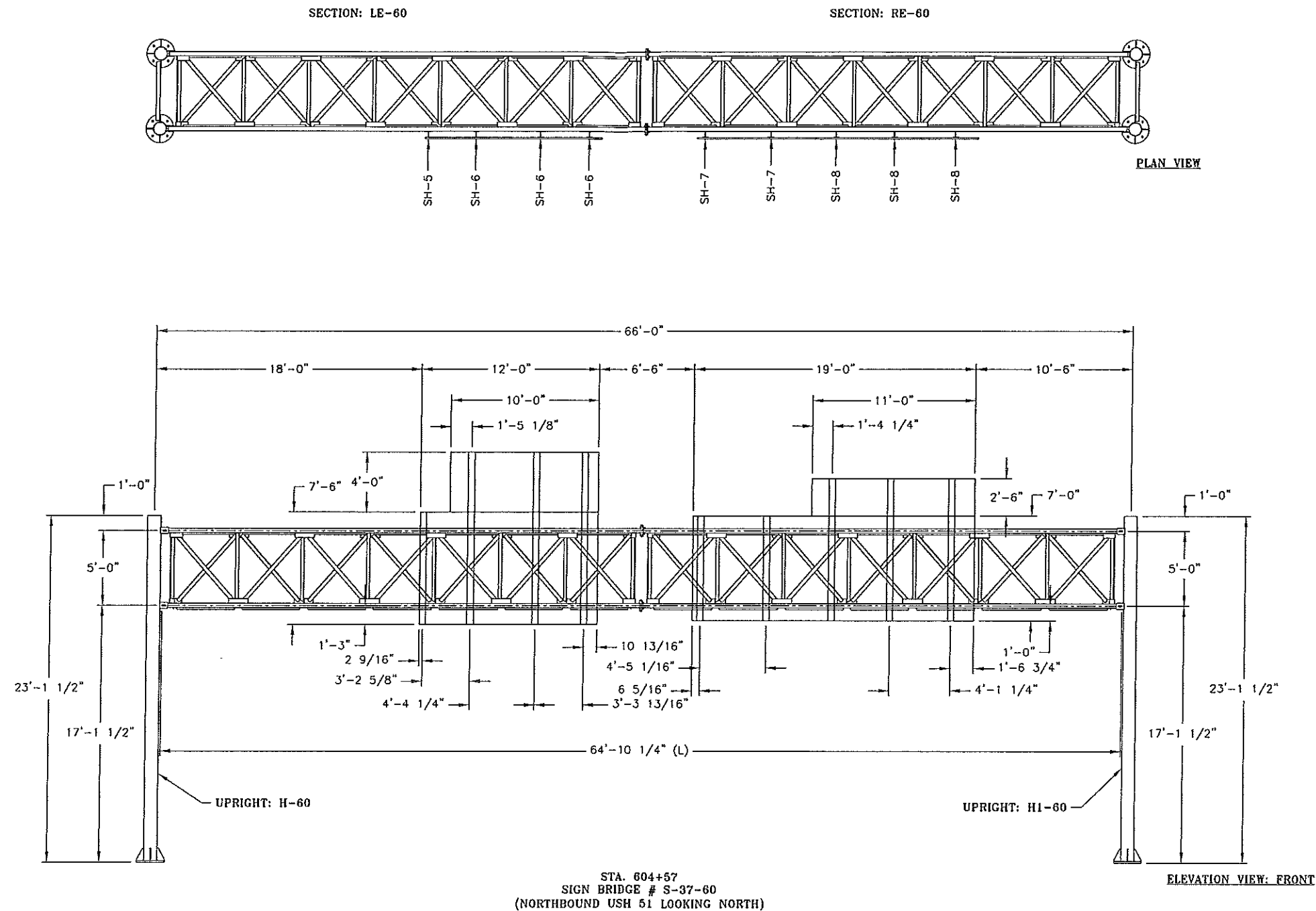
-877-467-4763 Plymouth, IN
-888-880-9191 Salem, OR

STRUCTURES

DR BY	CPD NO.	DRAWING USAGE
BTJ 05/01/2007	4080	SUBMITTAL
ENG. APPROVAL	CHECKED BY	

PART NO.	A# : 22714	4	0	1	1
DWG NO.	210899				

NOTES:
NO HANDHOLE REQUIRED ON THIS STRUCTURE.
NO WALKWAYS OR LUMITRACK SYSTEM IS REQUIRED FOR THIS STRUCTURE.



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TOLERANCE NOTE:
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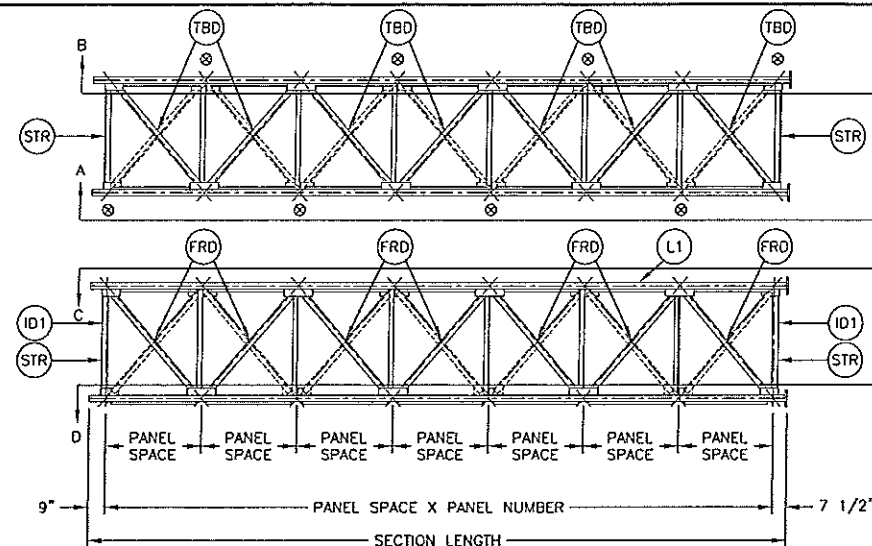
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PROJECT# 1166-09-76
MARATHON COUNTY

DR BY
BT: 05/01/2007
CPD NO.
4080
DRAWING USAGE
SUBMITTAL
ENG. APPROVAL
CHECKED BY

valmont 
1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR
STRUCTURES

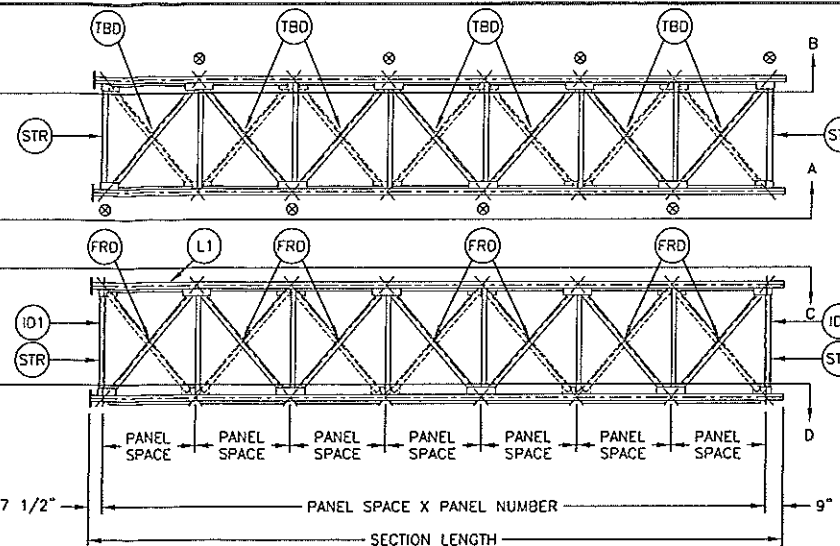
PART NO.
A# 122715
DWG NO.
210800
5
10
21

REV. DESCRIPTION OF REVISIONS DFC BY DATE



SECTION	QTY	LENGTH	PANEL SPACING
LE-60	1	32'-5 1/8"	7 @ 53 1/4" = 31'-3/4"

VALMONT SECTION PART# 211287



SECTION	QTY	LENGTH	PANEL SPACING
RE-60	1	32'-5 1/8"	7 @ 53 1/4" = 31'-3/4"

VALMONT SECTION PART# 211288

PANEL SPACE IS BASED ON THE INTERSECTION OF THE CENTROIDS OF ALL THE ANGLES AT THE CENTERLINE OF THE CHORD PIPES (EXCLUDING INTERIOR DIAGONALS) IN THE TRUSS.

ALL ANGLE TO BE POSITIONED SO THAT THEY DO NOT "DRINK" WATER.

ANGLE LEGS IN TOP & BOTTOM FACE DOWNWARD

ANGLE LEGS IN FRONT & REAR FACE INWARD

ANGLE LEGS IN TOP & BOTTOM FACE DOWNWARD

ANGLE LEGS IN FRONT & REAR FACE INWARD

ANGLE LEGS IN TOP & BOTTOM FACE DOWNWARD

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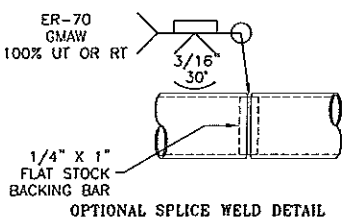
PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	B	WEIGHT
351305	SEG	16	3/8"	3 3/4"	3 3/4"	1.50#
351305	FEG	8	3/8"	3 3/4"	9 5/8"	3.84#
351305	FMG	24	3/8"	3 3/4"	15 5/8"	6.24#
351305	TEG	8	3/8"	3 3/4"	9 5/8"	3.84#
351305	TMG	24	3/8"	3 3/4"	15 5/8"	6.24#

A#	STRUCTURE	PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	RADIUS	WEIGHT
122715	S-37-60	351305	ISP	32	3/8"	5 5/16"	1 13/16"	2.58#

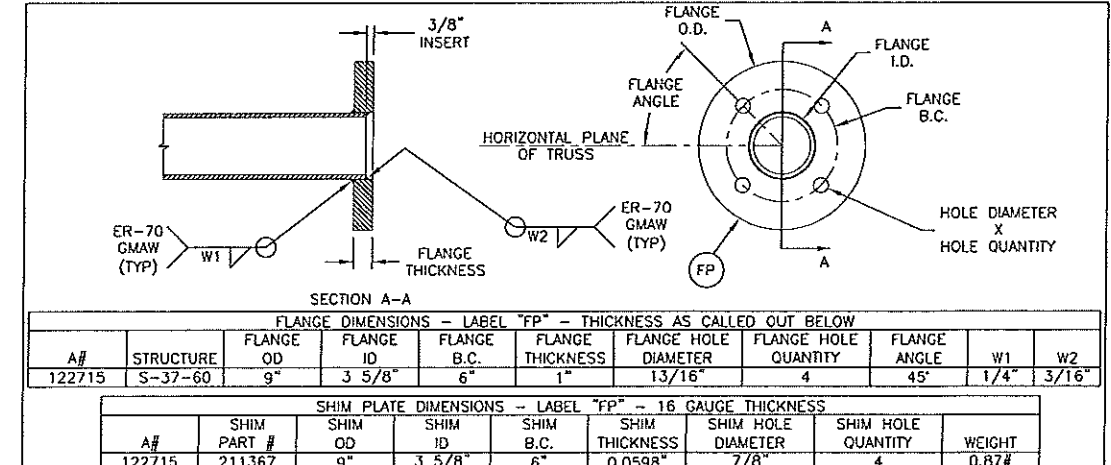
**SEE THE FOLLOWING PAGE FOR SIDEPLATE LAYOUT & WELD DETAILS.

CAMBER IS TO BE ACHIEVED BY ADDING SHIMS AT THE TOP CHORD CONNECTIONS. SEE COMPLETE BILLS OF MATERIAL PAGE FOR QUANTITY OF SHIMS REQUIRED TO ACHIEVE THE PROPER CAMBER DISTANCE.

IF USED, SPLICE MUST BE LOCATED IN THE CENTER OF A PANEL.



PART NUMBER	ANGLE LABEL	QTY NEEDED	ANGLE SIZE	LENGTH	WEIGHT
170579	STR	16	2 1/2" X 2 1/2" X 1/4"	55"	18.8#
170573	FRD	28	3" X 3" X 3/16"	70 13/16"	21.9#
170573	TBD	28	3" X 3" X 3/16"	70 13/16"	21.9#
170579	ID1	16	2 1/2" X 2 1/2" X 1/4"	79 5/16"	27.1#



A#	STRUCTURE	FLANGE OD	FLANGE ID	FLANGE B.C.	FLANGE THICKNESS	FLANGE HOLE DIAMETER	FLANGE HOLE QUANTITY	FLANGE ANGLE	W1	W2
122715	S-37-60	9"	3 5/8"	6"	1"	13/16"	4	45°	1/4"	3/16"

LABEL	VALMONT P/N	QTY	DESCRIPTION	QTY/PIECE	NOTE
L1	170769	4	3 1/2" O.D. X 0.216" WALL PIPE	32.40' (388 3/4")	W/ 13/16" HOLE
FP	351330	4	FLANGE PLATE (1" THICK)	14.5#	
SEG	351305	8	SMALL END GUSSET (3/8" THICK)	1.50#	
FEG	351305	4	FRONT END GUSSET (3/8" THICK)	3.84#	
FMG	351305	12	FRONT MIDDLE GUSSET (3/8" THICK)	6.24#	
TEG	351305	4	TOP END GUSSET (3/8" THICK)	3.84#	
TMG	351305	12	TOP MIDDLE GUSSET (3/8" THICK)	6.24#	
ISP	351305	16	INTERNAL GUSSET (3/8" THICK)	2.58#	
STR	170579	8	STRAIGHT BRACE ANGLE (2 1/2" X 2 1/2" X 1/4")	4.58' (55")	
FRD	170573	14	FRONT / REAR DIAGONAL ANGLE (3" X 3" X 3/16")	5.90' (70 13/16")	
TBD	170573	14	TOP / BOTTOM DIAGONAL ANGLE (3" X 3" X 3/16")	5.90' (70 13/16")	
ID1	170579	8	INTERNAL DIAGONAL BRACE ANGLE (2 1/2" X 2 1/2" X 1/4")	6.61' (79 5/16")	

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WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-888-880-9191 Solem, OR

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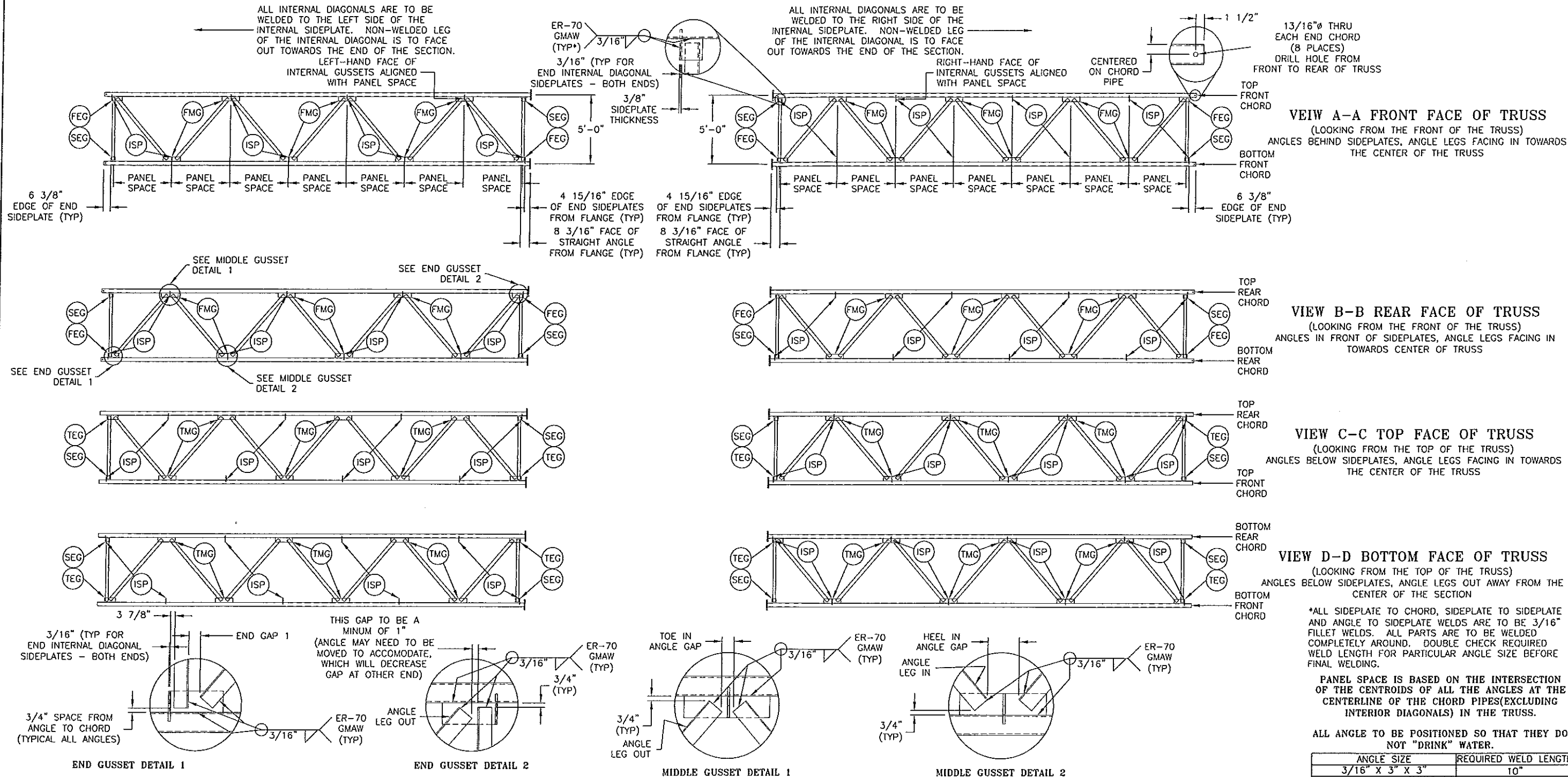
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DR BY
BTJ 05/01/2007
CPD NO.
4080
DRAWING USAGE
SUBMITTAL

PART NO.
122715
REV NO.
210800

REV DESCRIPTION OF REVISIONS

14 PANEL TRUSS ASSEMBLY VIEWS



CALCULATED GAPS FOR DIAGONALS							
A#	STRUCTURE	FRONT END GAP 1	TOP END GAP 1	FRONT MIDDLE TOE IN ANGLE GAP	FRONT MIDDLE TOE OUT ANGLE GAP	TOP MIDDLE TOE IN ANGLE GAP	TOP MIDDLE TOE OUT ANGLE GAP
122715	S-37-60	2 1/8"	2 1/8"	2 1/8"	5 3/4"	2 1/8"	5 3/4"

ANGLE SIZE	REQUIRED WELD LENGTH
3/16" X 3" X 3"	10"
1/4" X 2 1/2" X 2 1/2"	11"
1/4" X 3" X 3"	13"
1/4" X 4" X 4"	18"
5/16" X 3" X 3"	16 1/2"
5/16" X 4" X 4"	22"
3/8" X 3" X 3"	19 1/2"
3/8" X 4" X 4"	26"
1/2" X 4" X 4"	34"

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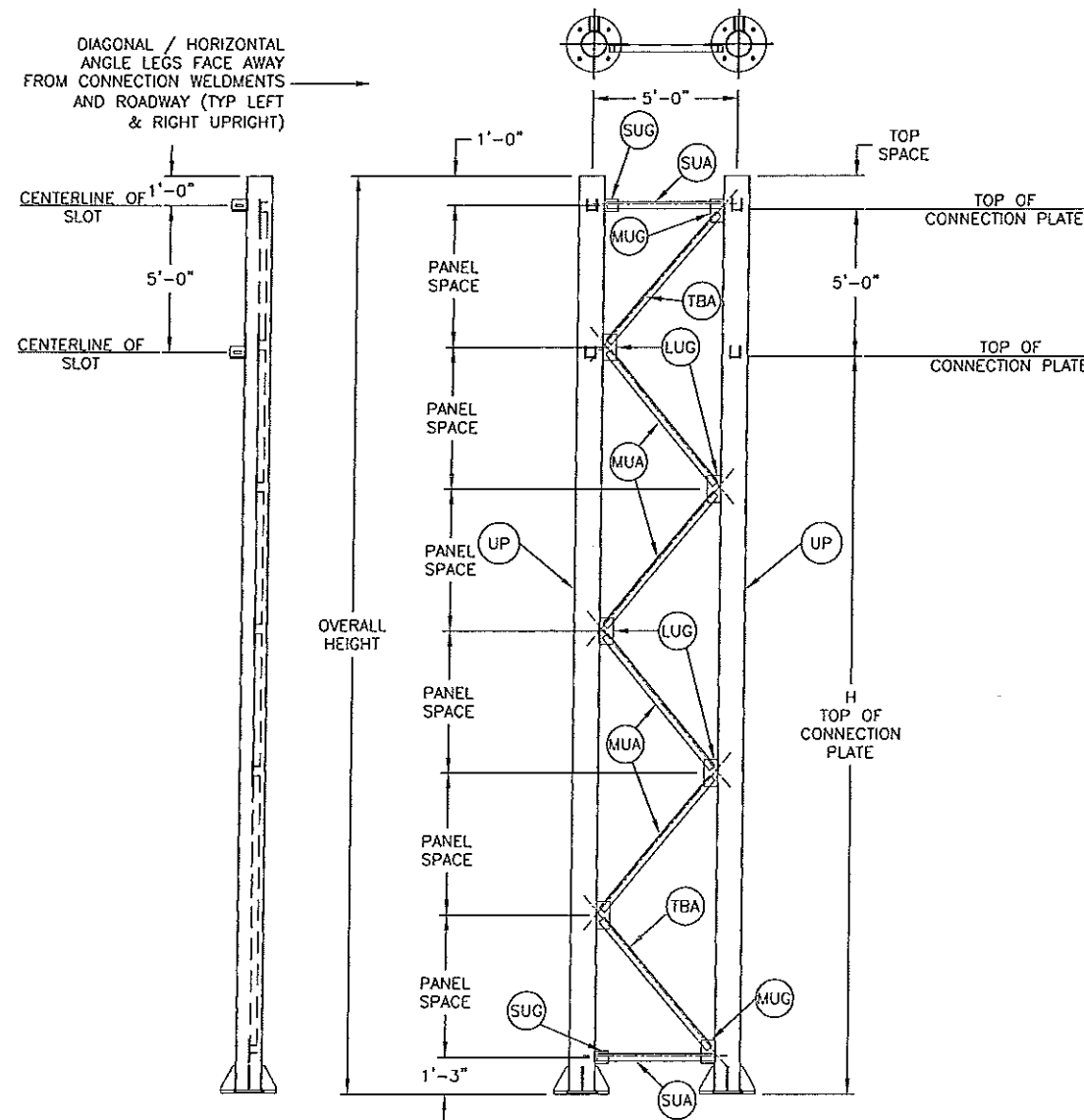
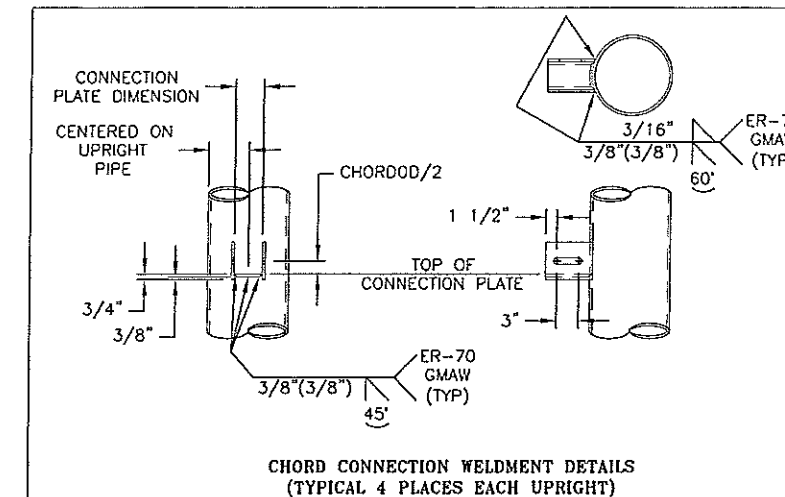
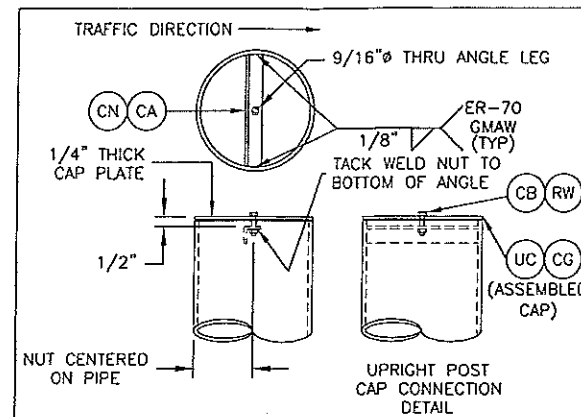
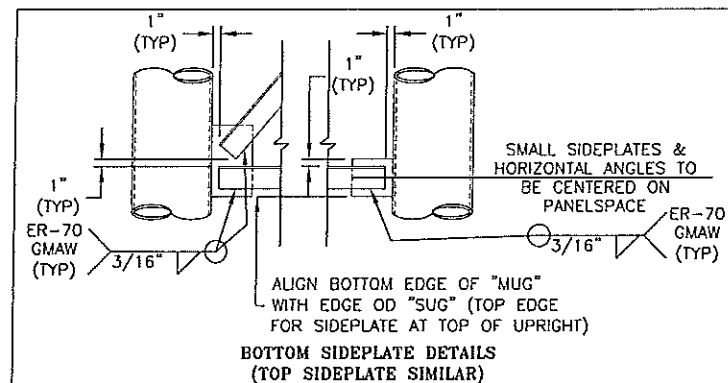
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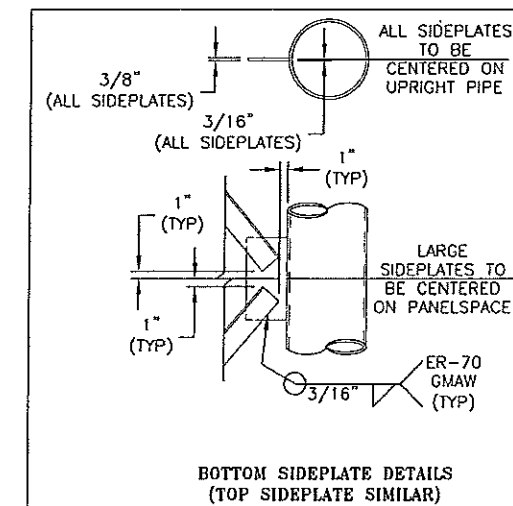


A#	UPRIGHT LABEL	VALMONT PART#	# OF PANELS	H	OVERALL HEIGHT	PANEL SPACE	CONNECTION PLATE DIM	REQUIRED ANGLE WELD LENGTH
122714	H-59 (LEFT)	211272	6	297 1/8"	369 1/8"	57"	3 11/16"	13"
122714	H1-59 (RIGHT)	211273	6	300 1/2"	372 1/2"	57 9/16"	3 11/16"	13"

*ALL SIDEPLATE TO CHORD, SIDEPLATE TO SIDEPLATE AND ANGLE TO SIDEPLATE WELDS ARE TO BE 3/16" FILLET WELDS. ALL PARTS ARE TO BE WELDED COMPLETELY AROUND. DOUBLE CHECK REQUIRED WELD LENGTH FOR PARTICULAR ANGLE SIZE BEFORE FINAL WELDING.

ALL ANGLE TO BE POSITIONED SO THAT THEY DO NOT "DRINK" WATER.

ANGLE SIZE	REQUIRED WELD LENGTH
3/16" X 3" X 3"	10"
1/4" X 2 1/2" X 2 1/2"	11"
1/4" X 3" X 3"	13"
1/4" X 4" X 4"	18"
5/16" X 3" X 3"	16 1/2"
5/16" X 4" X 4"	22"
3/8" X 3" X 3"	19 1/2"
3/8" X 4" X 4"	26"
1/2" X 4" X 4"	34"



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BE 05/01/2007

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SUBMITTAL

ENG APPROVAL

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PART NO.

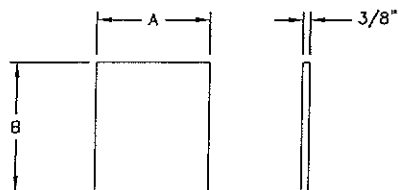
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210800

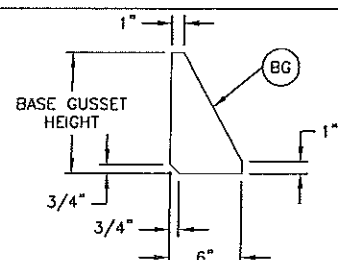


SIDEPLATE DIMENSIONS FOR LEFT UPRIGHT H-59 A# 122714						
PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	B	WEIGHT
351305	SUG	2	3/8"	5 1/2"	5"	2.93#
351305	MUG	2	3/8"	5 1/2"	9 1/2"	5.56#
351305	LUG	5	3/8"	5 1/2"	11"	6.44#

SIDEPLATE DIMENSIONS FOR RIGHT UPRIGHT H1-59 A# 122714						
PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	B	WEIGHT
351305	SUG	2	3/8"	5 1/2"	5"	2.93#
351305	MUG	2	3/8"	5 1/2"	9 1/2"	5.56#
351305	LUG	5	3/8"	5 1/2"	11"	6.44#

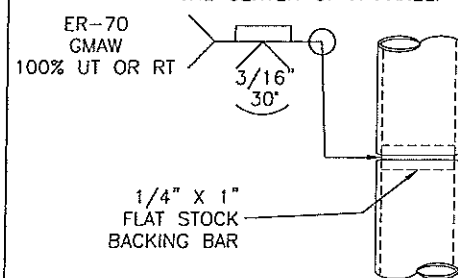
SIDEPLATE DIMENSIONS FOR LEFT UPRIGHT H-60 A# 122715						
PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	B	WEIGHT
351305	SUG	2	3/8"	5 1/2"	5"	2.93#
351305	MUG	2	3/8"	5 1/2"	9 1/2"	5.56#
351305	LUG	4	3/8"	5 1/2"	11"	6.44#

SIDEPLATE DIMENSIONS FOR RIGHT UPRIGHT H1-60 A# 122715						
PART NUMBER	SIDEPLATE LABEL	QTY NEEDED	THICKNESS	A	B	WEIGHT
351305	SUG	2	3/8"	5 1/2"	5"	2.93#
351305	MUG	2	3/8"	5 1/2"	9 1/2"	5.56#
351305	LUG	4	3/8"	5 1/2"	11"	6.44#

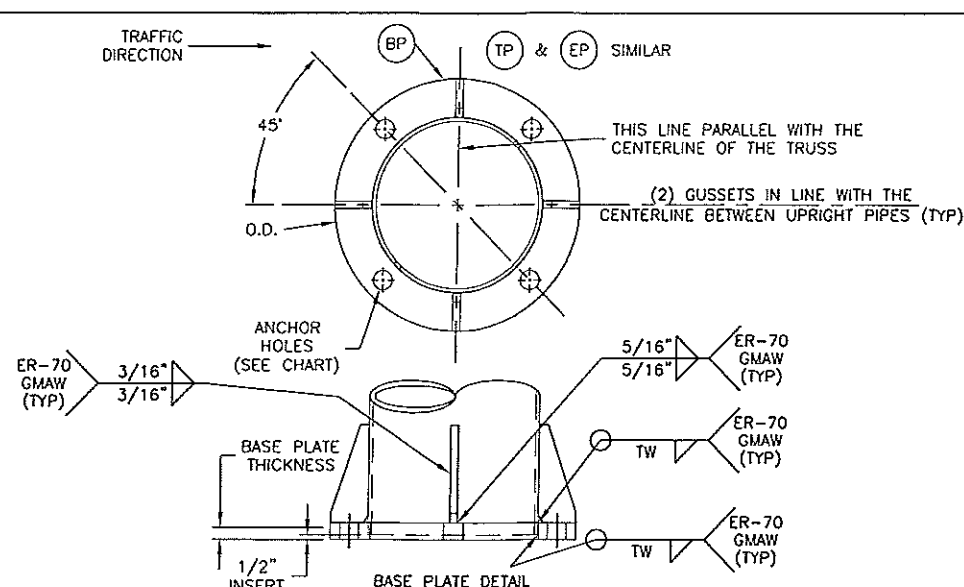


UPRIGHT BASE GUSSET INFORMATION - LABEL = BG						
A#	STRUCTURE	PART NUMBER	QTY NEEDED	THICKNESS	BASE GUSSET HEIGHT	WEIGHT
122714	S-37-59	351313	16	1/2"	10"	5.28#
122715	S-37-60	351313	16	1/2"	10"	5.28#

IF USED, SPLICE MUST BE LOCATED IN THE CENTER OF A PANEL.

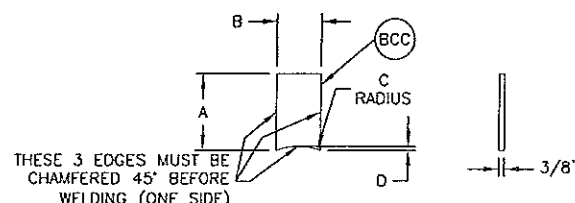


OPTIONAL SPLICE WELD DETAIL

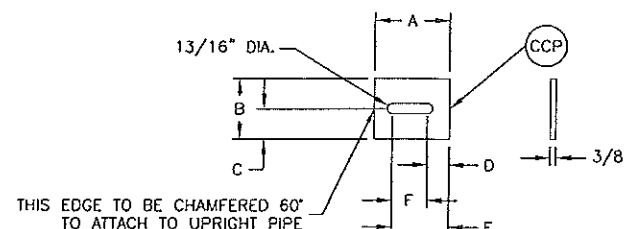


BASE PLATE DIMENSIONS FOR A# 122714 (S-37-59)						
PART NUMBER	LABEL	O.D.	I.D.	HOLES	THICKNESS	BASE WELD TW
351335	BP	26"	14 1/8"	(4) 1 1/2" HOLES ON A 20" B.C.	1 1/4"	1/4"
199741	TP	22 1/2"	17 1/2"	(4) 1 5/16" HOLES ON A 20" B.C.	1/2"	-
199741	EP	22 1/2"	17 1/2"	(4) 1 5/16" HOLES ON A 20" B.C.	1/2"	-

BASE PLATE DIMENSIONS FOR A# 122715 (S-37-60)						
PART NUMBER	LABEL	O.D.	I.D.	HOLES	THICKNESS	BASE WELD TW
351335	BP	22 3/4"	10 7/8"	(4) 1 1/2" HOLES ON A 16 3/4" B.C.	1 1/4"	1/4"
351313	TP	19 1/4"	14 1/4"	(4) 1 5/16" HOLES ON A 16 3/4" B.C.	1/2"	-
351313	EP	19 1/4"	14 1/4"	(4) 1 5/16" HOLES ON A 16 3/4" B.C.	1/2"	-



UPRIGHT BOTTOM CHORD CONNECTION PLATE INFORMATION - LABEL = BCC								
A#	STRUCTURE	PART NUMBER	QTY NEEDED	THICKNESS	A	B	C	WEIGHT
122714	S-37-59	351305	8	3/8"	6 7/32"	3 11/16"	7"	2.39#
122715	S-37-60	351305	8	3/8"	6 5/16"	3 11/16"	5 3/8"	2.40#



UPRIGHT CHORD CONNECTION PLATE INFORMATION - LABEL = CCP								
A#	STRUCTURE	PART NUMBER	QTY NEEDED	THICKNESS	A	B	C	WEIGHT
122714	S-37-59	351305	16	3/8"	6 7/32"	5"	2 1/2"	2.98#
122715	S-37-60	351305	16	3/8"	6 5/16"	5"	2 1/2"	3.02#

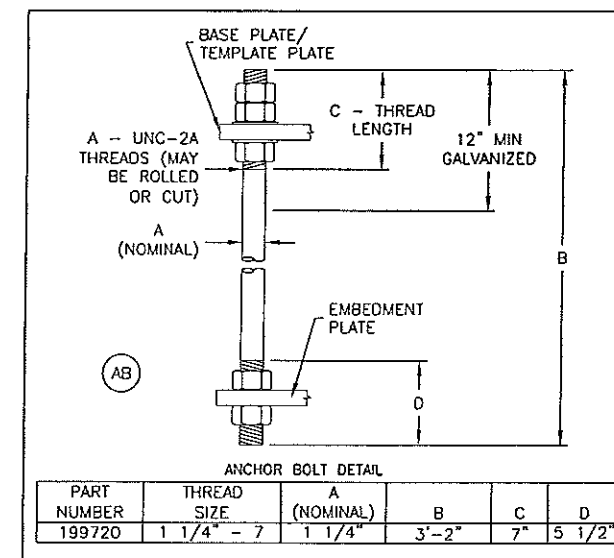
UPRIGHT ANGLE DIMENSIONS FOR LEFT UPRIGHT H-59 A# 122714					
PART NUMBER	ANGLE LABEL	QTY NEEDED	ANGLE SIZE	LENGTH	WEIGHT
170599	SUA	2	3" X 3" X 3/8"	44"	26.40#
170599	TBA	2	3" X 3" X 3/8"	66 5/16"	39.79#
170599	MUA	5	3" X 3" X 3/8"	67 1/2"	40.50#

UPRIGHT ANGLE DIMENSIONS FOR RIGHT UPRIGHT H1-59 A# 122714					
PART NUMBER	ANGLE LABEL	QTY NEEDED	ANGLE SIZE	LENGTH	WEIGHT
170599	SUA	2	3" X 3" X 3/8"	44"	26.40#
170599	TBA	2	3" X 3" X 3/8"	66 11/16"	40.01#
170599	MUA	5	3" X 3" X 3/8"	67 7/8"	40.73#

UPRIGHT ANGLE DIMENSIONS FOR LEFT UPRIGHT H-60 A# 122715					
PART NUMBER	ANGLE LABEL	QTY NEEDED	ANGLE SIZE	LENGTH	WEIGHT
170599	SUA	2	3" X 3" X 3/8"	47 1/4"	28.35#
170599	TBA	2	3" X 3" X 3/8"	63 5/16"	37.99#
170599	MUA	4	3" X 3" X 3/8"	64 1/2"	38.70#

UPRIGHT ANGLE DIMENSIONS FOR RIGHT UPRIGHT H1-60 A# 122715					
PART NUMBER	ANGLE LABEL	QTY NEEDED	ANGLE SIZE	LENGTH	WEIGHT
170599	SUA	2	3" X 3" X 3/8"	47 1/4"	28.35#
170599	TBA	2	3" X 3" X 3/8"	63 3/16"	37.91#
170599	MUA	4	3" X 3" X 3/8"	64 3/8"	38.63#

NOTE:
UPRIGHT ANGLE SIZES HAVE BEEN INCREASED TO REDUCE
WARPAGE FROM GALVANIZING. THE REQUIRED WELD LENGTH
CORRESPONDS TO THE ANGLE SIZE CALLED OUT ON THE PLANS.



ANCHOR BOLT DETAIL				
PART NUMBER	THREAD SIZE	A (NOMINAL)	B	C
199720	1 1/4" - 7	1 1/4"	3'-2"	7"

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WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY
PROHIBITED.

TOLERANCE NOTE:
TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE
(PLUS OR MINUS) .005 INCHES AND STRUCTURAL .060 INCHES
BENDS ARE 1/4 INCH RADIUS UNLESS OTHERWISE NOTED.

DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

OR BY
3/10/05/01/2007
CPD NO. 4080
DRAWING USAGE
SUBMITTAL

valmont 
1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR
STRUCTURES

PART NO

210800

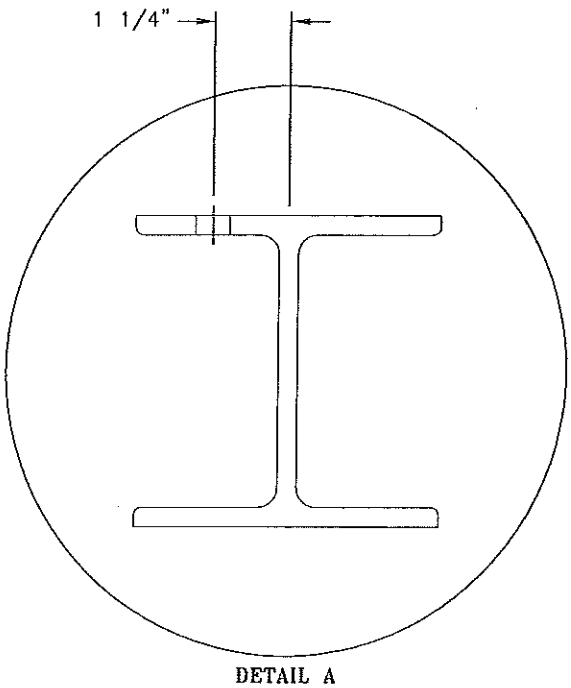
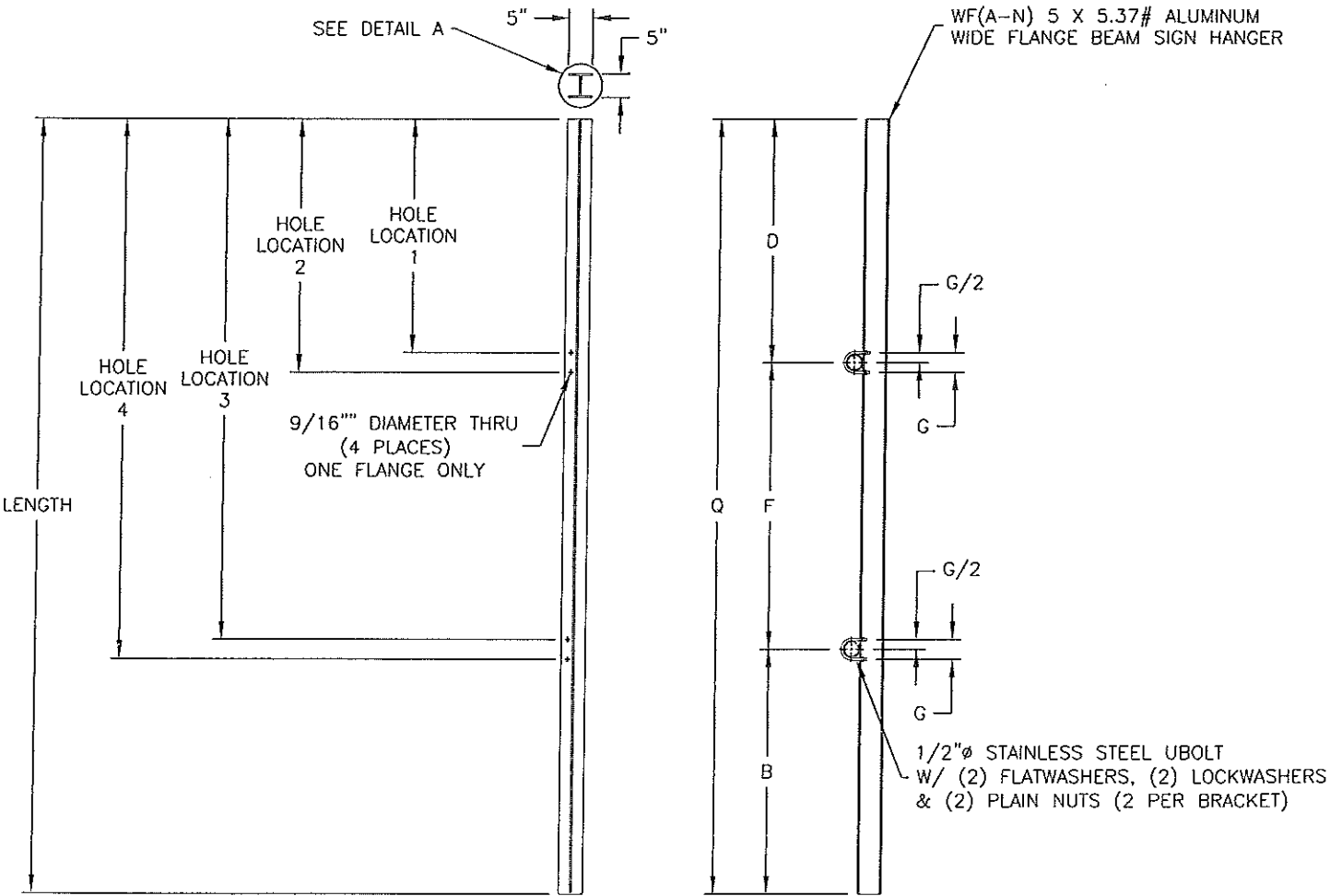
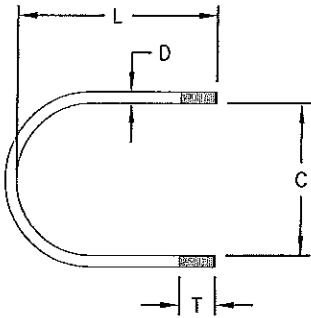
10-01-01

LABEL	VALMONT PART#	QTY	TYPE	B	D	Q	F	G	WEIGHT
SH-1	211289	1	SH	2.00'	2.00'	9.00'	5.00'	4 1/8"	47.4#
SH-2	211290	3	SH	2.00'	4.50'	11.50'	5.00'	4 1/8"	60.9#
SH-3	211291	2	SH	5.25'	5.25'	15.50'	5.00'	4 1/8"	82.3#
SH-4	211292	3	SH	5.25'	7.75'	18.00'	5.00'	4 1/8"	95.8#
SH-5	211290	1	SH	1.25'	1.25'	7.50'	5.00'	4 1/8"	39.4#
SH-6	211293	3	SH	1.25'	5.25'	11.50'	5.00'	4 1/8"	47.4#
SH-7	211294	2	SH	1.00'	1.00'	7.00'	5.00'	4 1/8"	60.9#
SH-8	211315	3	SH	1.00'	3.50'	9.50'	5.00'	4 1/8"	82.3#

VERTICAL BEAM INFORMATION							
LABEL	HOLE LOCATION 1	HOLE LOCATION 2	HOLE LOCATION 3	HOLE LOCATION 4	SAFETY CHAIN HOLES	LENGTH	WEIGHT
SH-1	21 15/16"	26 1/16"	81 15/16"	86 1/16"	N	108"	47.4#
SH-2	51 15/16"	56 1/16"	111 15/16"	116 1/16"	N	138"	60.9#
SH-3	60 15/16"	65 1/16"	120 15/16"	125 1/16"	N	186"	82.3#
SH-4	90 15/16"	95 1/16"	150 15/16"	155 1/16"	N	216"	95.8#
SH-5	12 15/16"	17 1/16"	72 15/16"	77 1/16"	N	90"	39.4#
SH-6	21 15/16"	26 1/16"	81 15/16"	86 1/16"	N	108"	47.4#
SH-7	51 15/16"	56 1/16"	111 15/16"	116 1/16"	N	138"	60.9#
SH-8	60 15/16"	65 1/16"	120 15/16"	125 1/16"	N	186"	82.3#

RAW MATERIAL FOR WF(A-N) 5 X 5.37# ALUMINUM BEAM = 178421.

QTY	PART NUMBER	LABEL	D	L	C	T	USE
18	199124	SUB	1/2"	5"	3 5/8"	1 1/2"	SIGN SUPPORT TO CHORD
18	199124	SUB	1/2"	5"	3 5/8"	1 1/2"	SIGN SUPPORT TO CHORD



REV. DESCRIPTION OF REVISIONS DRW. 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.	DESCRIPTION WISCONSIN BOX TRUSS SUBMITTAL PROJECT# 1166-09-76 MARATHON COUNTY			valmont STRUCTURES 1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR		
	TOLERANCE NOTE: TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE: (PLS OF MANUF) MACHINING 0.001" AND STRUCTURAL 0.030" BENDS ARE ± 0.1" ± 1/2 DEGREE	DR BY BTJ 05/01/2007	CPD NO. 4080	DRAWING USAGE SUBMITTAL	PART NO.		12 OF 12
		ENG. APPROVAL		CHECKED BY	ENG. NO. 210800		

VALMONT BOM FOR A# 122714, STRUCTURE S-37-59, STA. 591+81.03			
ANCHOR STEEL			
QTY	PART NUMBER	DESCRIPTION	LABEL
16	199720	1 1/4"Ø X 38" LONG ANCHOR BOLT	AB
UPRIGHT END SECTIONS - PACKAGE 210800-001			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211272	LEFT UPRIGHT WELDMENT	H-59
1	211273	RIGHT UPRIGHT WELDMENT	H1-59
4	196305	UPRIGHT CAP	UC
4	196306	URIGHT CAP GASKET	CG
4	169909	1/2" X 1 3/4" BOLT (CAP CONNECTION)	CB
4	179317	RUBBER WASHER	RW
8	199129	3/4"Ø X 5 3/4" BOLT	UCB
16	182789	3/4" FLAT WASHER	FW
8	170004	3/4" PLAIN NUT	PN
TRUSS SECTIONS - PACKAGE 210800-002			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211284	LEFT END SECTION	LE-59
1	211285	MIDDLE SECTION	M-59
1	211286	RIGHT END SECTION	RE-59
0	211367	SHIM PLATE** (0" REQUIRED CAMBER)	SP
16	174827	3/4"Ø X 3 1/2" BOLT	CB (TOP)
16	174827	3/4"Ø X 3 1/2" BOLT	CB (BOTTOM)
32	182789	3/4" FLAT WASHER	FW
16	170004	3/4" PLAIN NUT	PN
EXTRA HARDWARE - PACKAGE 210800-003			
QTY	PART NUMBER	DESCRIPTION	LABEL
3	199129	3/4"Ø X 5 3/4" BOLT	UCB
3	174827	3/4"Ø X 3 1/2" BOLT	CB (TOP)
3	174827	3/4"Ø X 3 1/2" BOLT	CB (BOTTOM)
6	182789	3/4" FLAT WASHER	FW
6	170004	3/4" PLAIN NUT	PN
SIGN HANGER BRACKETS - PACKAGE 210800-004			
1	211289	SIGN HANGER BRACKET	SH-1
3	211290	SIGN HANGER BRACKET	SH-2
2	211291	SIGN HANGER BRACKET	SH-3
3	211292	SIGN HANGER BRACKET	SH-4
18	199124	1/2" U-BOLT ASSEMBLY	SUB

VALMONT BOM FOR A# 122715, STRUCTURE S-37-60, STA. 604+57			
ANCHOR STEEL			
QTY	PART NUMBER	DESCRIPTION	LABEL
16	199720	1 1/4"Ø X 38" LONG ANCHOR BOLT	AB
UPRIGHT END SECTIONS - PACKAGE 210800-005			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211274	LEFT UPRIGHT WELDMENT	H-60
1	211275	RIGHT UPRIGHT WELDMENT	H1-60
4	195506	UPRIGHT CAP	UC
4	195507	URIGHT CAP GASKET	CG
4	169909	1/2" X 1 3/4" BOLT (CAP CONNECTION)	CB
4	179317	RUBBER WASHER	RW
8	199129	3/4"Ø X 5 3/4" BOLT	UCB
16	182789	3/4" FLAT WASHER	FW
8	170004	3/4" PLAIN NUT	PN
TRUSS SECTIONS - PACKAGE 210800-006			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211287	LEFT END SECTION	LE-60
-	-	-	-
1	211288	RIGHT END SECTION	RE-60
0	211367	SHIM PLATE** (0" REQUIRED CAMBER)	SP
8	174827	3/4"Ø X 3 1/2" BOLT	CB (TOP)
8	174827	3/4"Ø X 3 1/2" BOLT	CB (BOTTOM)
16	182789	3/4" FLAT WASHER	FW
8	170004	3/4" PLAIN NUT	PN
EXTRA HARDWARE - PACKAGE 210800-007			
QTY	PART NUMBER	DESCRIPTION	LABEL
3	199129	3/4"Ø X 5 3/4" BOLT	UCB
3	174827	3/4"Ø X 3 1/2" BOLT	CB (TOP)
3	174827	3/4"Ø X 3 1/2" BOLT	CB (BOTTOM)
6	182789	3/4" FLAT WASHER	FW
6	170004	3/4" PLAIN NUT	PN
SIGN HANGER BRACKETS - PACKAGE 210800-008			
1	211290	SIGN HANGER BRACKET	SH-2
3	211293	SIGN HANGER BRACKET	SH-6
2	211294	SIGN HANGER BRACKET	SH-7
3	211315	SIGN HANGER BRACKET	SH-8
12	199124	1/2" U-BOLT ASSEMBLY	SUB

THE BILLS OF MATERIAL ON THIS PAGE ARE COMPLETE LISTS OF ALL THE PARTS NEEDED TO ASSEMBLE THE STRUCTURE. THE BILLS SHOULD BE USED TO VERIFY & ASSEMBLE THE STRUCTURE SHIPMENT.

DIVIDE THE TOTAL QUANTITY OF SHIMS EQUALLY AT THE TOP CHORD CONNECTION. THE LONGER FLANGE CONNECTION BOLTS SHOULD BE USED AT THE TOP FLANGE DUE TO THE INCREASED THICKNESS.

PROPRIETARY NOTE:

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DESCRIPTION

WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

DR BY

BDJ 06/08/2007

CPD NO.

1080

DRAWING USAGE

SUBMITTAL

ENG APPRVAL

CHECKED BY

PART NO.

DWG NO.

valmont 

1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR

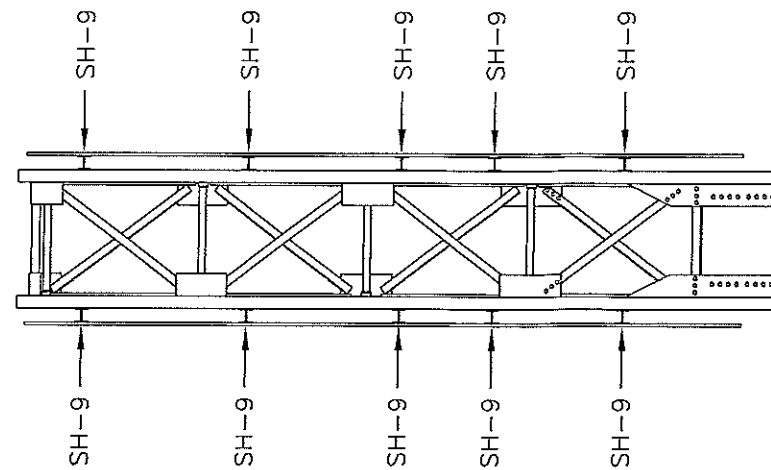
STRUCTURES

210800

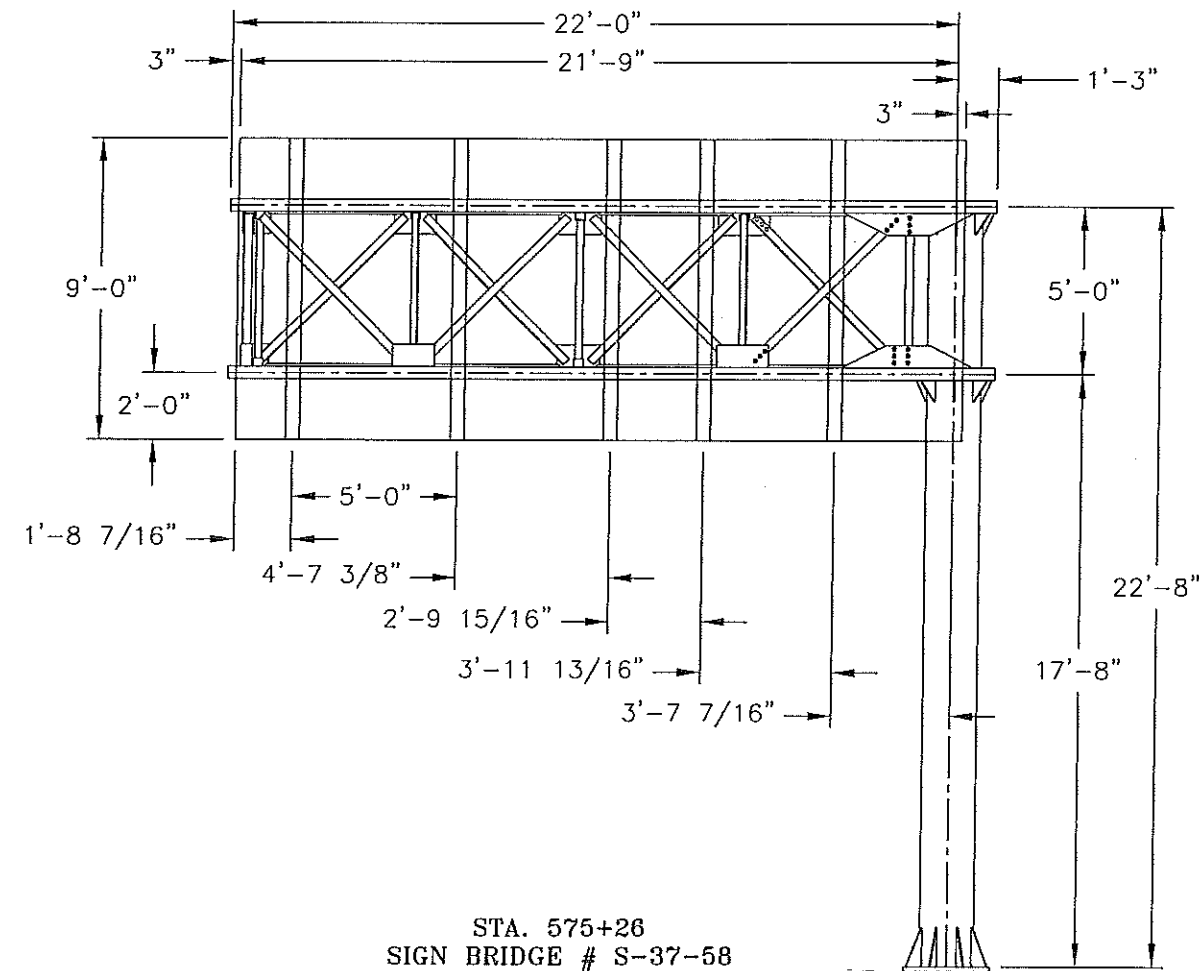
15 OF 21

NOTES:

NO HANDHOLE REQUIRED FOR THIS STRUCTURE.
NO WALKWAYS OR LUMITRACK SYSTEM IS REQUIRED FOR THIS STRUCTURE.



PLAN VIEW



STA. 575+26
SIGN BRIDGE # S-37-58
(USH 51 LOOKING NORTH)

ELEVATION VIEW: FRONT

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BENDS ARE (+ OR -) 1/2 DEGREE.

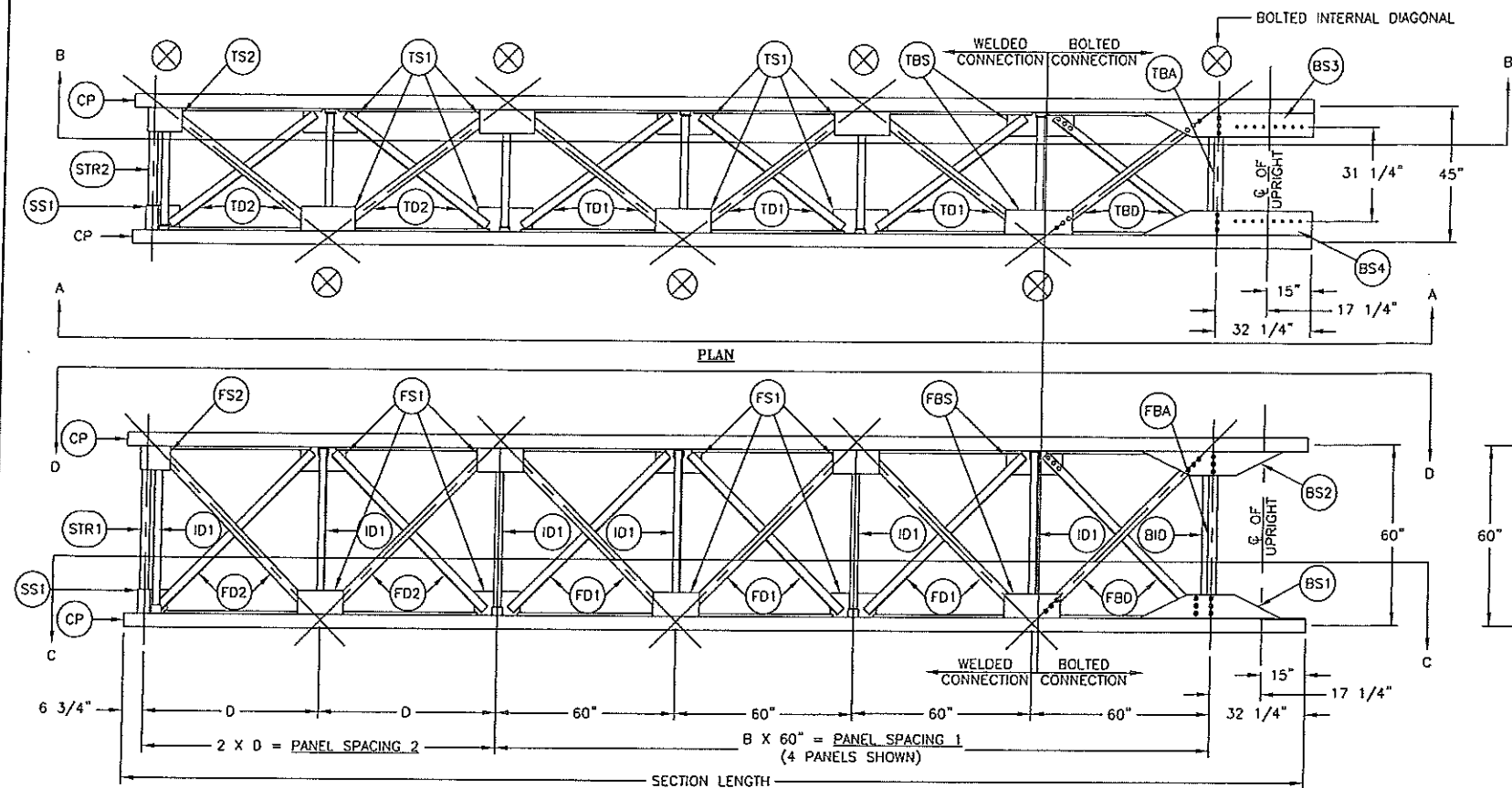
DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

DR BY: BTJ 06/01/2007
CPD NO: 4080
DRAWING USAGE: SUBMITTAL
ENG. APPROVAL: _____
CHECKED BY: _____

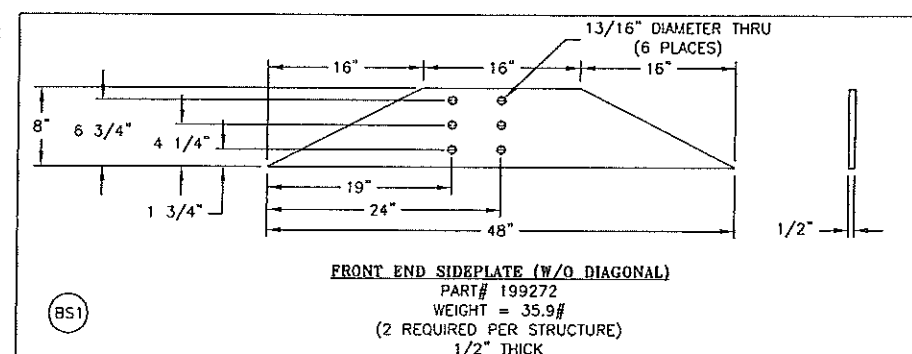
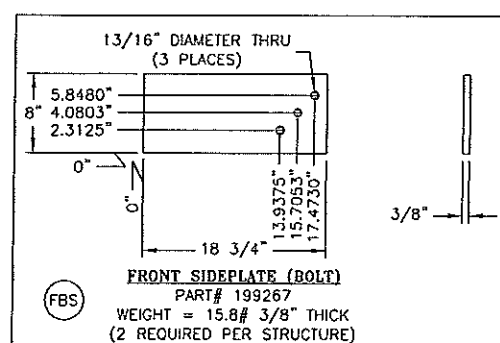
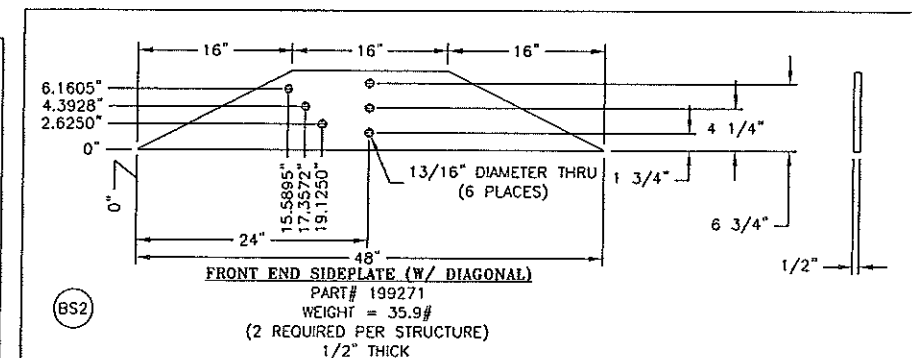
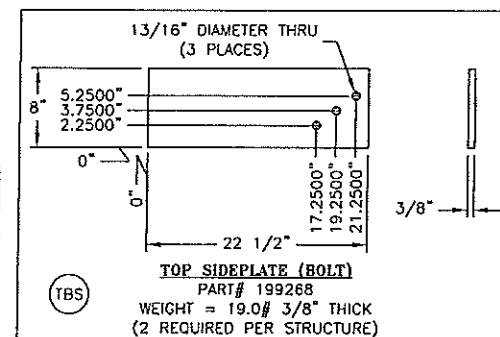
valmont 
1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR
STRUCTURES

PART NO: A# 122713
DWG NO: 210800
1 of 1

REV: _____ DESCRIPTION OF REVISIONS: _____
ORD BY: _____ DATE: _____



PART NUMBER	SECTION LABEL	STRUCTURE	B	D	PANEL SPACING 1	PANEL SPACING 2	SECTION LENGTH
211314	S1	A# 122713 (S-37-58)	2	60" (5'-0")	2 @ 60" = 120"	2 @ 60" = 120"	279" (23'-3")



SIDEPLATE INFORMATION				
LABEL	A	B	WEIGHT	
FS1 - P/N 199273	8"	15 1/2"	13.2#	
FS2 - P/N 199274	8"	10"	8.52#	
TS1 - P/N 199275	8"	18 1/2"	15.8#	
TS2 - P/N 199276	8"	11 1/2"	9.80#	
SS1 - P/N 199277	8"	4"	3.41#	
IS1 - P/N 199278	4"	3 1/2"	1.49#	

STRUCTURE	FS1	FS2	TS1	TS2	SS1	IS1
A# 122713 (S-37-58)	4	2	4	2	4	8

STANDARD ANGLE INFORMATION				
LABEL	ANGLE SIZE	A LENGTH	RAW MATERIAL	WEIGHT
FD1	3" X 3" X 1/4"	73 5/16"	170586	29.9#
TD1	3" X 3" X 1/4"	61"	170586	24.9#
STR1	3" X 3" X 1/4"	54"	170586	22.1#
STR2	3" X 3" X 1/4"	39"	170586	15.9#
ID1	2 1/2" X 2 1/2" X 1/4"	69"	170579	23.6#

END ANGLE INFORMATION			
LABEL	STRUCTURE	A LENGTH	WEIGHT
FD2	A# 122713 (S-37-58)	73 5/16"	29.9#
TD2	A# 122713 (S-37-58)	61"	24.9#

STRUCTURE	FD1	TD1	ID1	FD2	TD2	STR1	STR2
A# 122713 (S-37-58)	2	2	4	4	4	2	2

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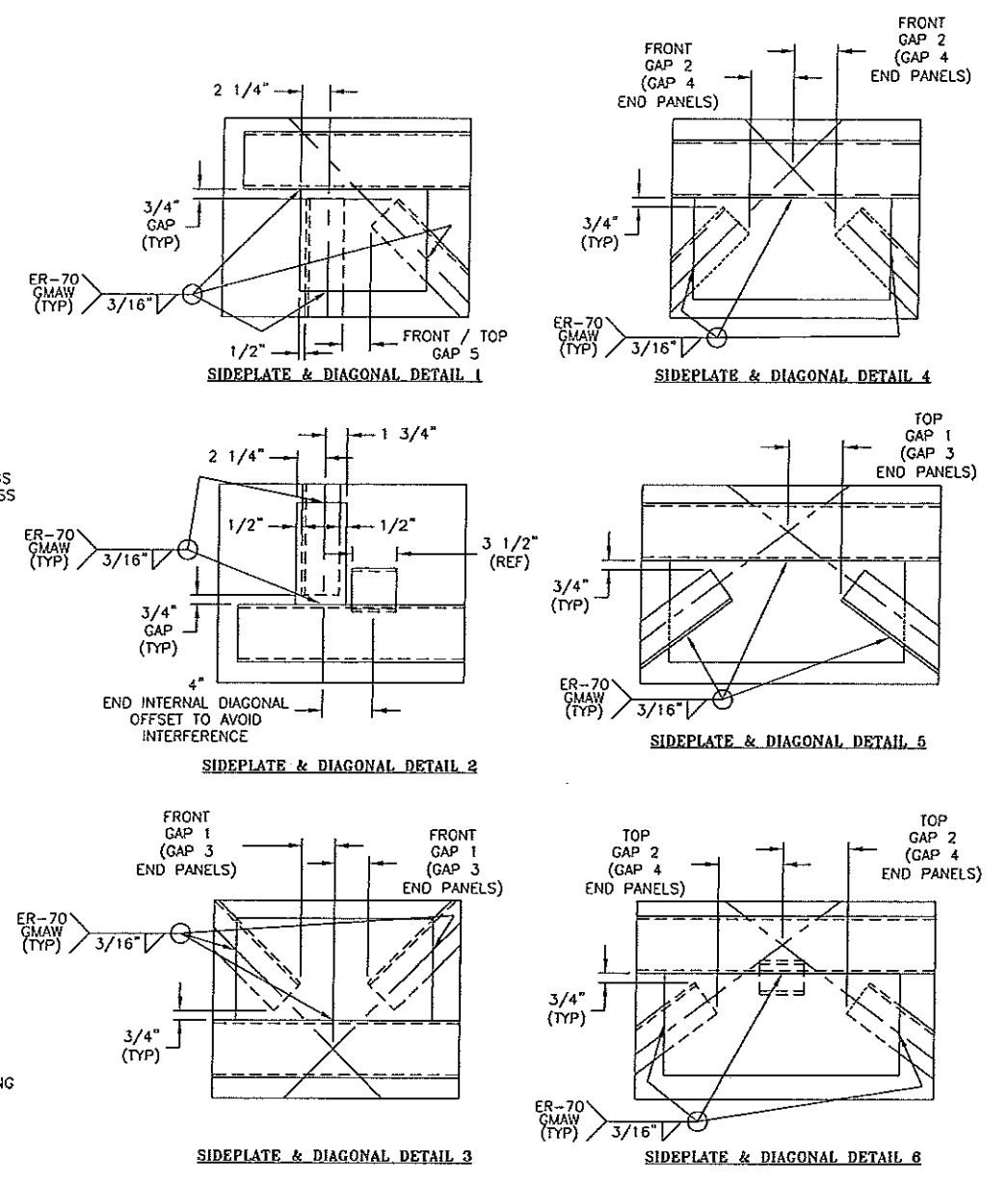
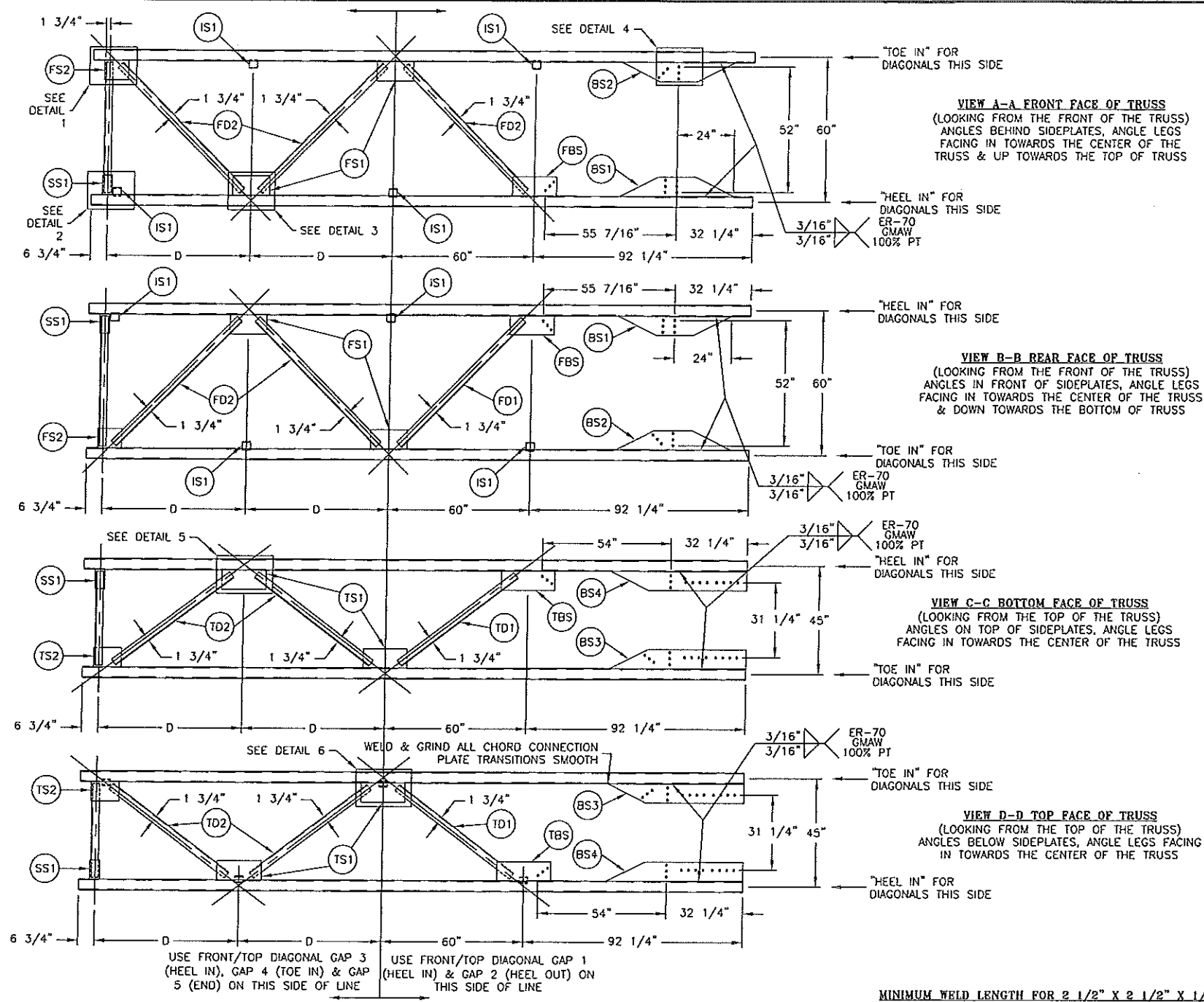
DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

DR BY: BTJ 05/08/2007
CPD NO: 4080
DRAWING USAGE: SUBMITTAL
ENG APPROVAL: [Signature]
CHECKED BY: [Signature]

valmont STRUCTURES
1-877-467-4763 Plymouth, IN
1-888-880-9191 Solem, OR

PART NO: A# 122713

DATE: 210800



STRUCTURE	FRONT DIAGONAL GAP 1 (HEEL IN)	FRONT DIAGONAL GAP 2 (TOE IN)	FRONT DIAGONAL GAP 3 (HEEL IN)	FRONT DIAGONAL GAP 4 (TOE IN)	FRONT DIAGONAL GAP 5
A# 122713 (S-37-58)	2 5/8"	3 5/16"	2 5/8"	3 5/16"	2 1/16"

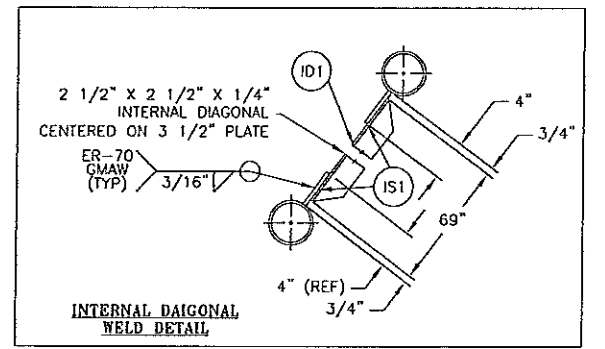
STRUCTURE	TOP DIAGONAL GAP 1 (HEEL IN)	TOP DIAGONAL GAP 2 (TOE IN)	TOP DIAGONAL GAP 3 (HEEL IN)	TOP DIAGONAL GAP 4 (TOE IN)	TOP DIAGONAL GAP 5
A# 122713 (S-37-58)	4 1/4"	5 1/16"	4 1/4"	5 1/16"	3 13/16"

MINIMUM WELD LENGTH FOR 2 1/2" X 2 1/2" X 1/4" ANGLE = 7"

MINIMUM WELD LENGTH FOR 3" X 3" X 1/4" ANGLE = 8"

1/2" THICK CHORD CONNECTION PLATES CENTERED ON CHORD PIPE & 3/8" GUSSET PLATES CENTERED ON CHORD PIPE (WHICH IS THE STANDARD & PREFERRED FABRICATION METHOD) WILL CREATE A 1/16" GAP BETWEEN THE FACES OF THE PLATES WHERE THE ANGLES BOLT TO. PLEASE ADVISE IF THIS IS ACCEPTABLE.

DUE TO THE UNBRACED LENGTH AT THE COLUMN END OF THE CANTILEVER SECTION, BARS MAY NEED TO BE WELDED TO THE END OF THE SECTION TO PREVENT WARPAGE DURING GALVANIZING. BARS WILL BE REMOVED & GALVANIZING PATCHED PER STATE SPECIFICATIONS WHEN THE GALVANIZING OPERATION IS COMPLETED.



PROPRIETARY NOTE:
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DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

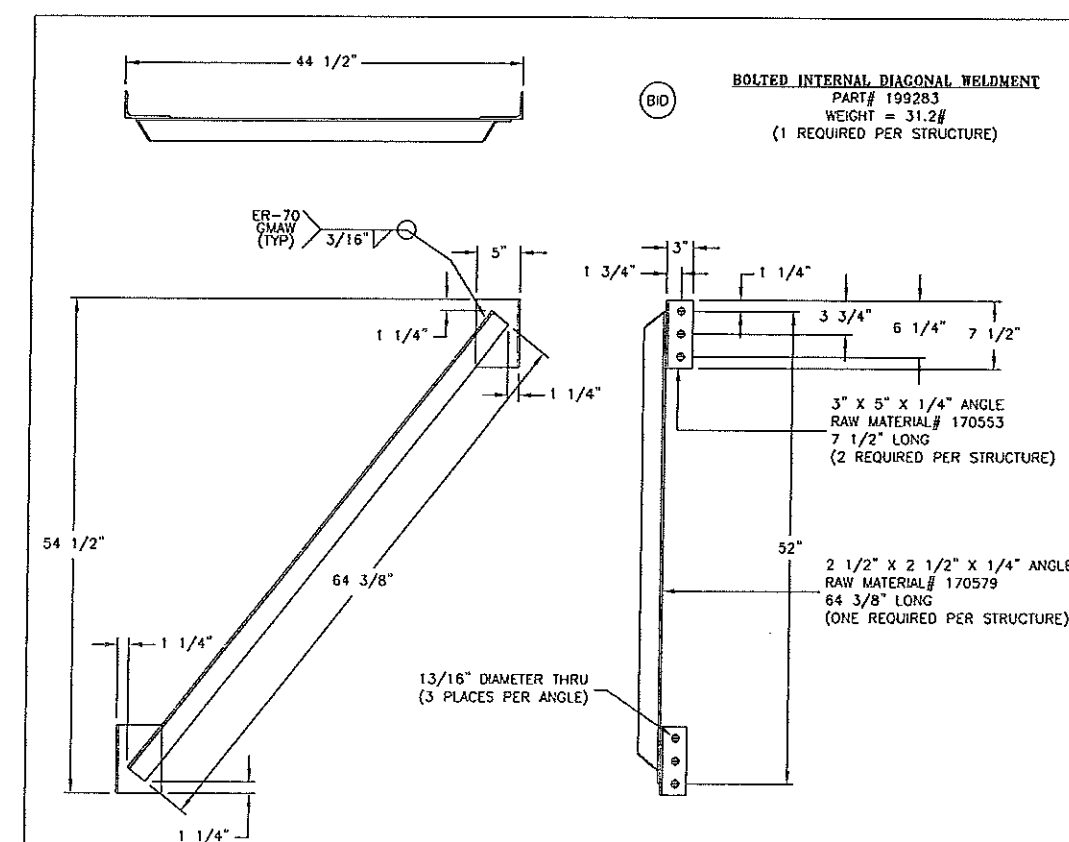
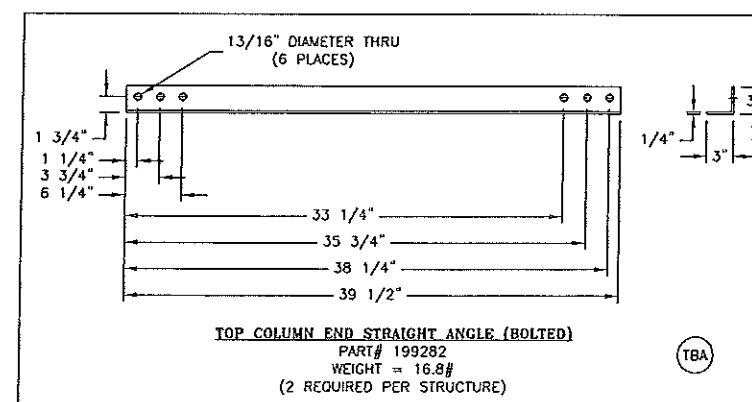
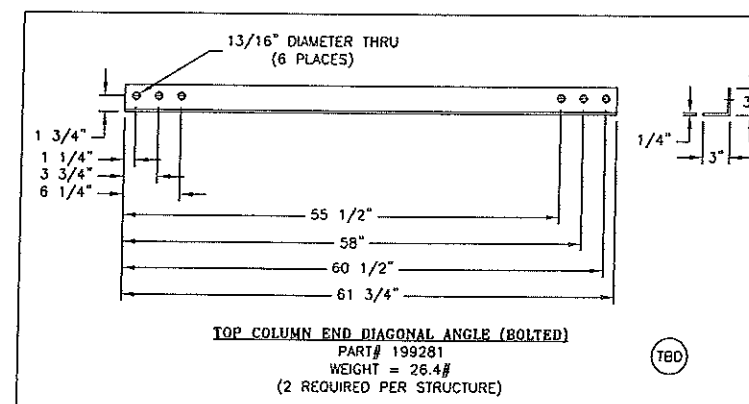
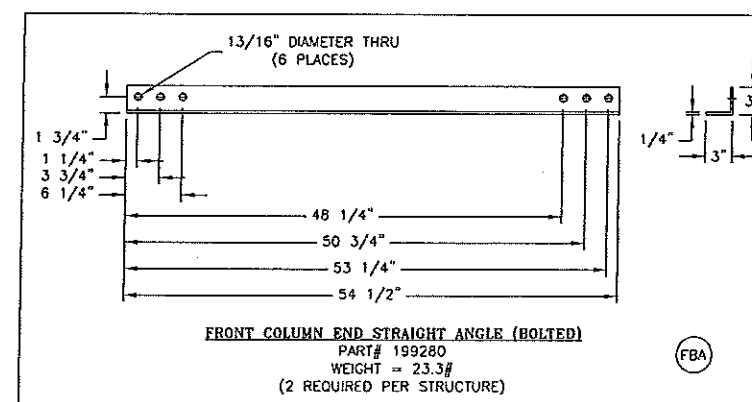
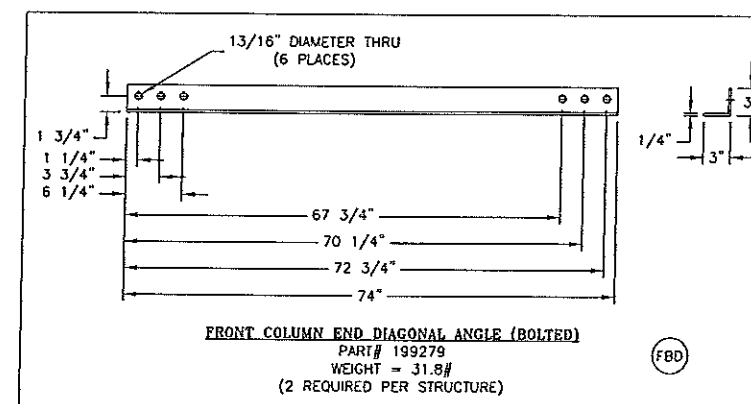
DR BY: BTJ 05/01/2007
CPD NO: 4080
DRAWING USAGE: SUBMITTAL
EIG APPROVAL: [Signature]
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valmont STRUCTURES

1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR

PART NO: A# 122713
DWG NO: 210800

A# 122713 - STRUCTURE S-37-58					
COMPONENTS FOR SECTION "S1" - APPROXIMATE WEIGHT = 1,877#					
VALMONT PART# 211314					
FINISHED OVERALL LENGTH = 279" - FINISH: HOT DIP GALVANIZED					
LABEL	VALMONT P/N	QTY	DESCRIPTION	QTY/PIECE	NOTE
CP	170772	4	4 1/2" O.D. X 0.237" WALL PIPE	279" (23.25')	
BS1	199272	2	FRONT END SIDEPLATE (W/O DIAGONAL)		
BS2	199271	2	FRONT END SIDEPLATE (W/ DIAGONAL)		
BS3	199270	2	TOP END SIDEPLATE (W DIAGONAL)		
BS4	199269	2	TOP END SIDEPLATE (W/O DIAGONAL)		
FBS	199267	2	FRONT BOLTED SIDEPLATE		
TBS	199268	2	TOP BOLTED SIDEPLATE		
FS1	199273	4	FRONT MIDDLE SIDEPLATE		
TS1	199275	4	TOP MIDDLE SIDEPLATE		
FS2	199274	2	FRONT END SIDEPLATE		
TS2	199276	2	TOP END SIDEPLATE		
SS1	199277	4	STRAIGHT ANGLE SIDEPLATE		
IS1	199278	8	INTERNAL ANGLE SIDEPLATE		
FD1	170586	2	FRONT DIAGONAL ANGLE	73 5/16" (6.11')	
FD2	170586	4	FRONT END PANEL DIAGONAL ANGLE	73 5/16" (6.11')	
TD1	170586	2	TOP DIAGONAL ANGLE	61" (5.08')	
TD2	170586	4	TOP END PANEL DIAGONAL ANGLE	61" (5.08')	
STR1	170586	2	FRONT STRAIGHT ANGLE	54" (4.50')	
STR2	170586	2	TOP STRAIGHT ANGLE	39" (3.25')	
ID1	170579	4	INTERNAL DIAGONAL ANGLE	69" (5.75')	CLIP CORNERS



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DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

DR BY
BTJ 05/02/2007

CPD NO
4080

DRAWING USAGE
SUBMITTAL

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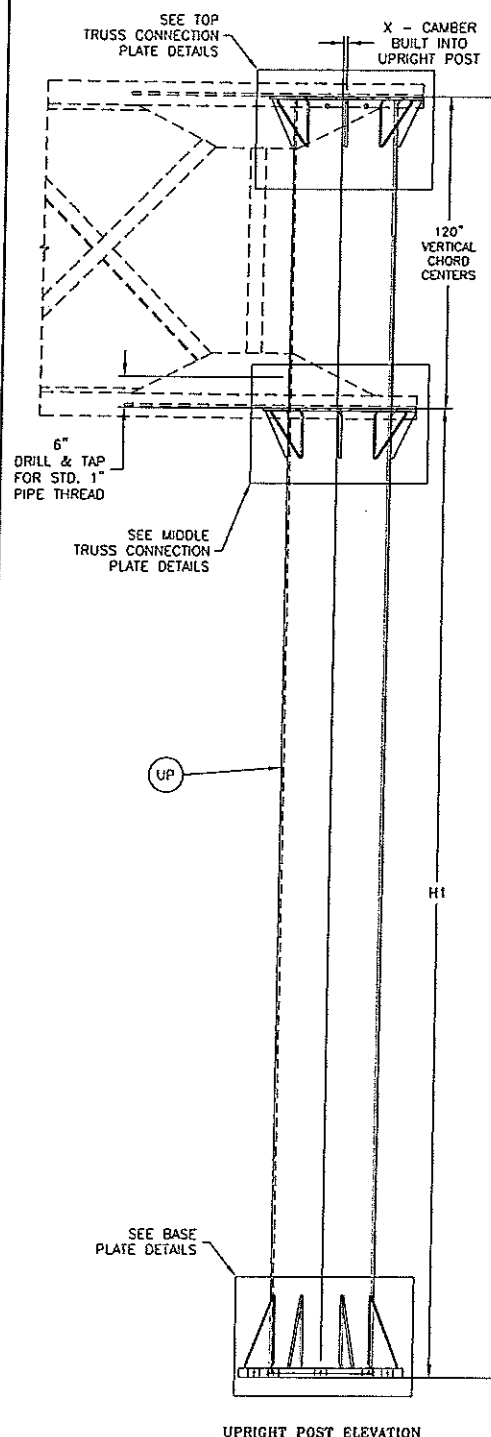
1-877-467-4763 Plymouth, IN
1-888-880-9191 Solem, OR

STRUCTURES

PART NO
A# 122713

DWG NO
210800

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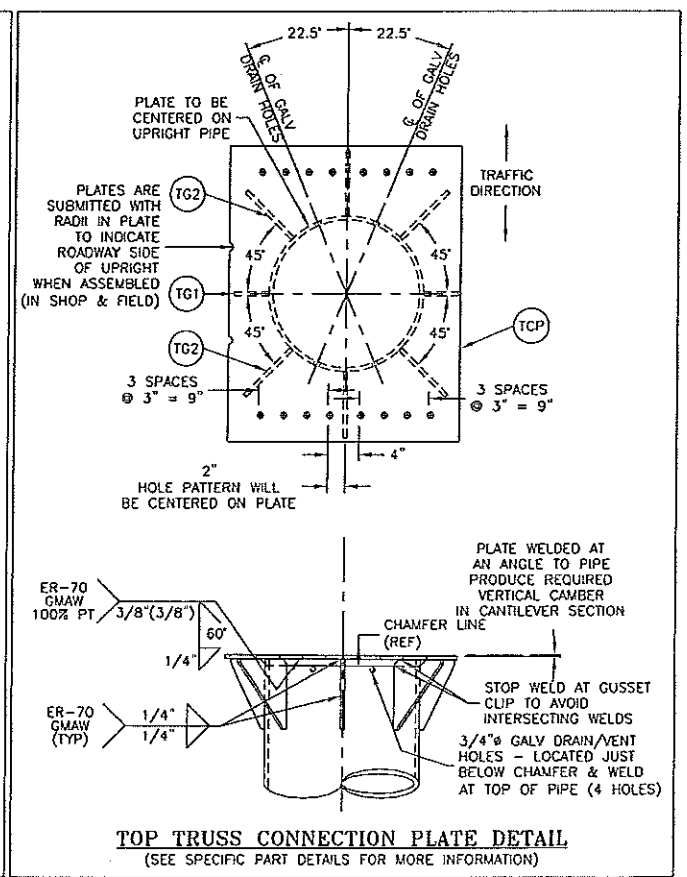
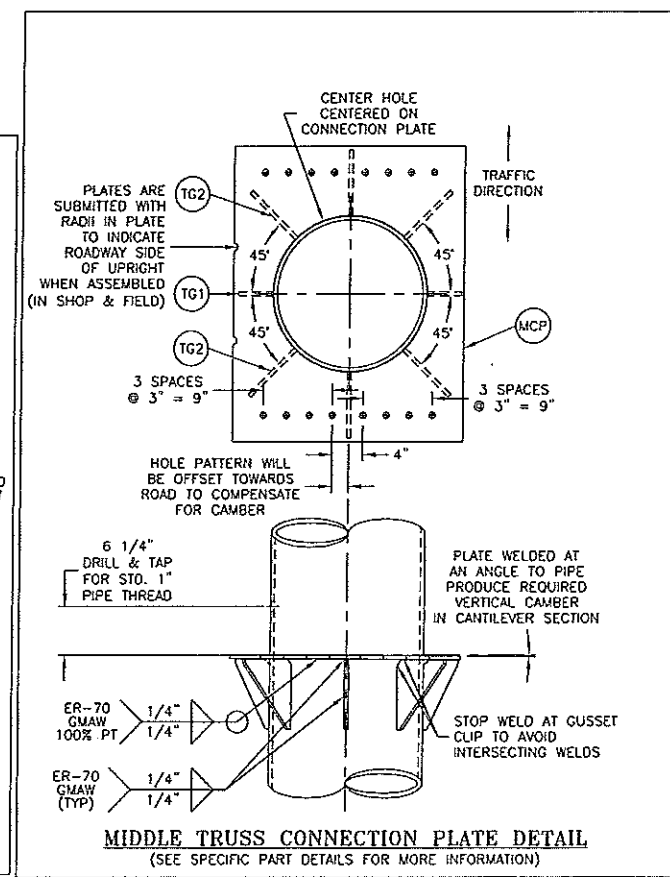
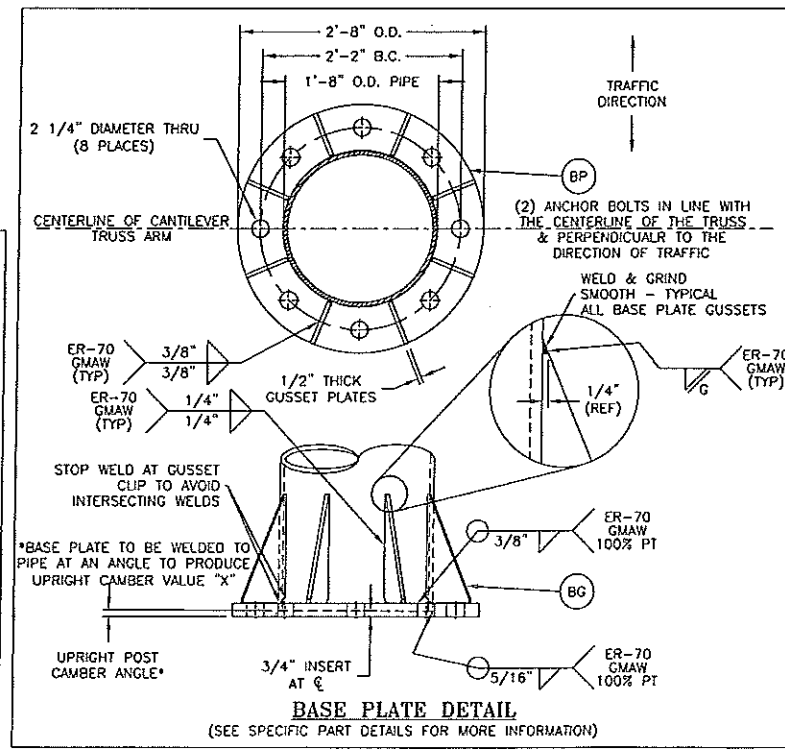
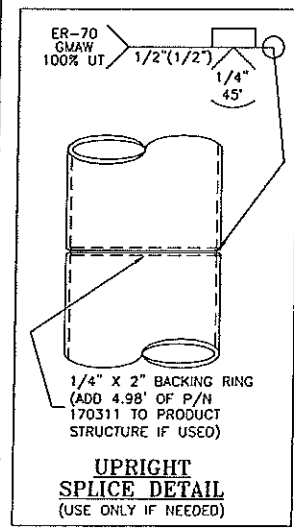
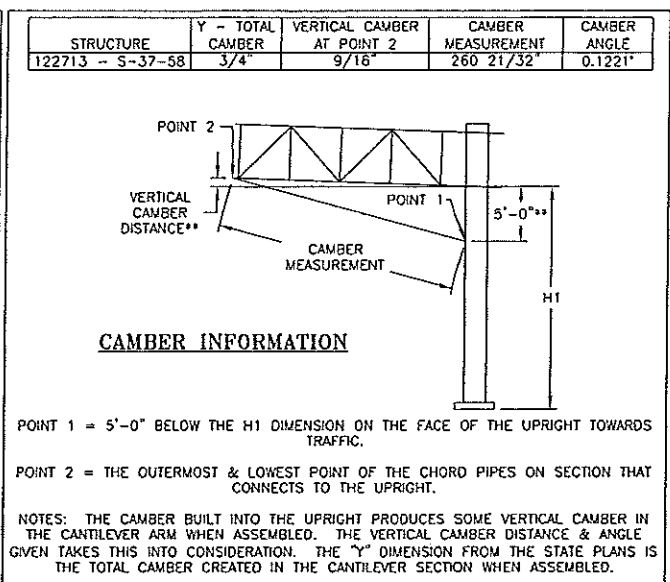
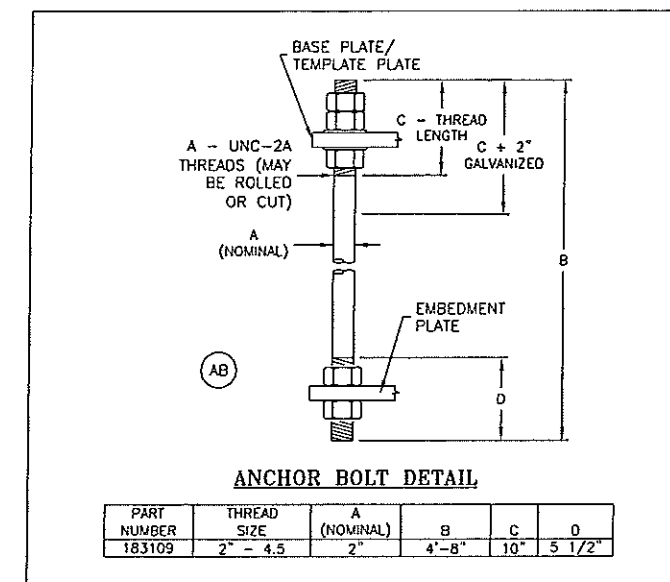


PART NUMBER	A#	H1	L - OVERALL HEIGHT	X - UPRIGHT POST CAMBER	UPRIGHT POST CAMBER ANGLE
211314	122713	213 1/2" (17'-9 1/2")	273 1/2" (22'-9 1/2")	1/4"	0.0524"

**H1 & OVERALL HEIGHT VALUES FOR THE UPRIGHT ARE MEASURED TO THE CENTER OF THE TOP FACE OF THE TOP PLATES ALONG THE CENTERLINE OF THE UPRIGHT PIPE.
SEE THE FOLLOWING PAGE FOR SPECIFIC PART DETAILS.

A# 122713 - STRUCTURE S-37-58					
COMPONENTS FOR UPRIGHT "UPR" - APPROXIMATE WEIGHT = 3,194#					
VALMONT PART# 211314 - H1 = 213 1/2"					
FINISHED OVERALL HEIGHT = 273 1/2" - FINISH: HOT DIP GALVANIZED					
LABEL	VALMONT P/N	QTY	DESCRIPTION	QTY/PIECE	NOTE
UP	173406	1	20" O.D. X 1/2" WALL PIPE	272 1/4" (22.69')	
BP	199248	1	BASE PLATE	226#	
BG	199245	8	BASE GUSSET	6.38#	
TCP	199243	1	TOP CONNECTION PLATE	161#	
MCP	199244*	1	MIDDLE CONNECTION PLATE	156#	DRILL HOLES
TG1	199246	4	TOP GUSSET 1	3.27#	
TG2	199247	12	TOP GUSSET 2	5.95#	

*BLANK P/N ONLY, FINISHED PART NUMBERS WILL VARY BASED ON HOLE DIMENSIONS PROVIDED.



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TOLERANCE NOTE:
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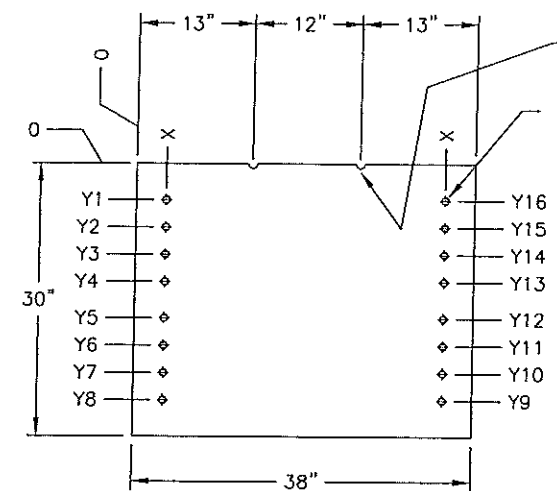
DESCRIPTION
WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

DR BY: BTJ 05/02/2007
CPD NO: 4080
DRAWING USAGE: SUBMITTAL
EVD APPROVAL: [Signature]
CHECKED BY: [Signature]

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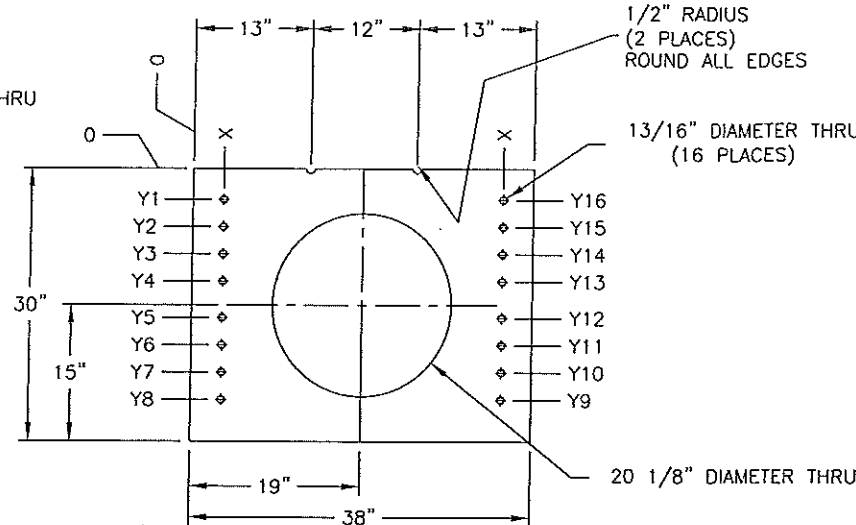
1-877-467-4763 Plymouth, IN
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PART NO: A# 122713
210800



TOP CONNECTION PLATE - PART# 199243

TOP CONNECTION PLATE - TCP		
HOLE NUMBER	X	Y
ALL STRUCTURES		
1	3.3750"	4.0000"
2	3.3750"	7.0000"
3	3.3750"	10.0000"
4	3.3750"	13.0000"
5	3.3750"	17.0000"
6	3.3750"	20.0000"
7	3.3750"	23.0000"
8	3.3750"	26.0000"
9	34.6250"	26.0000"
10	34.6250"	23.0000"
11	34.6250"	20.0000"
12	34.6250"	17.0000"
13	34.6250"	13.0000"
14	34.6250"	10.0000"
15	34.6250"	7.0000"
16	34.6250"	4.0000"



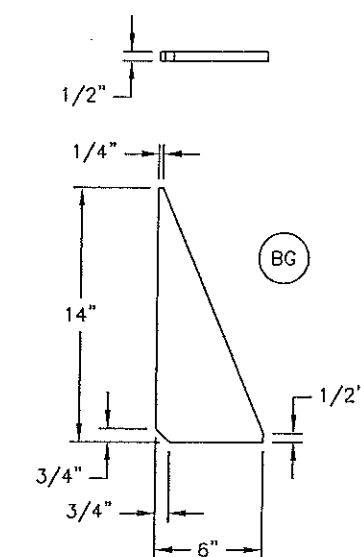
MIDDLE CONNECTION PLATE - BLANK PART# 199244

MIDDLE CONNECTION PLATE - MCP		
HOLE NUMBER	X	Y
A# 122713 - S-37-58		
1	3.3750"	4.0000"
2	3.3750"	7.0000"
3	3.3750"	10.0000"
4	3.3750"	13.0000"
5	3.3750"	17.0000"
6	3.3750"	20.0000"
7	3.3750"	23.0000"
8	3.3750"	26.0000"
9	34.6250"	26.0000"
10	34.6250"	23.0000"
11	34.6250"	20.0000"
12	34.6250"	17.0000"
13	34.6250"	13.0000"
14	34.6250"	10.0000"
15	34.6250"	7.0000"
16	34.6250"	4.0000"

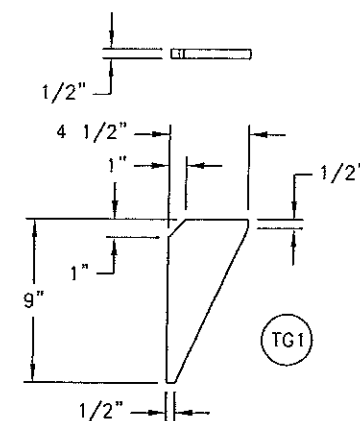
NOTE: TOP PLATE IS THE SAME FOR ALL STRUCTURES ON THIS SUBMITTAL. MIDDLE CONNECTION PLATES MAY VARY DUE TO BOLT PATTERN BEING SHIFTED TOWARDS THE ROADWAY (TOWARDS ALIGNMENT RADII) TO COMPENSATE FOR DIFFERENT STRUCTURE LENGTHS & CAMBER VALUES.

TOP PLATE QUANTITY = NUMBER OF CANTILEVER STRUCTURES ON THIS SUBMITTAL

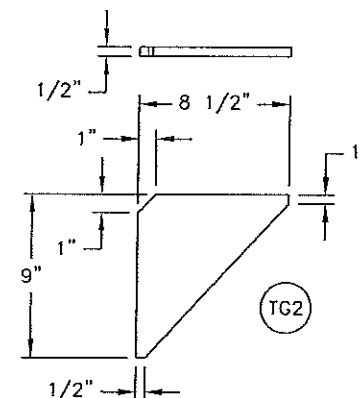
MIDDLE PLATE QUANTITY = ONE PER CANTILVER STRUCTURE



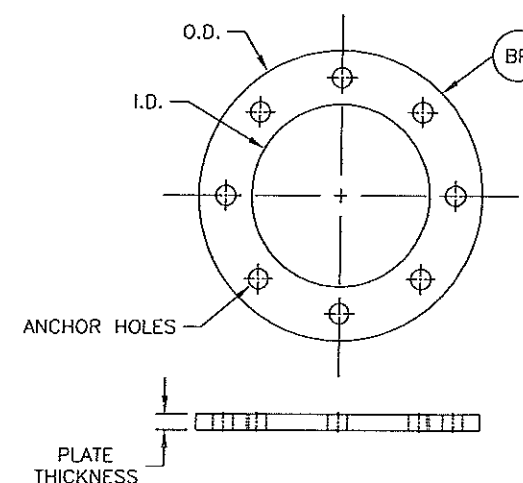
BASE PLATE GUSSET
PART# 199245
WEIGHT = 6.38#
1/2" THICK MILL PLATE
RAW MATERIAL P/N 351313
QTY = 8 PER CANTILEVER STRUCTURE



TOP PLATE GUSSET 1
PART# 199246
WEIGHT = 3.27#
1/2" THICK MILL PLATE
RAW MATERIAL P/N 351313
QTY = 4 PER CANTILEVER STRUCTURE



TOP PLATE GUSSET 2
PART# 199247
WEIGHT = 5.96#
1/2" THICK MILL PLATE
RAW MATERIAL P/N 351313
QTY = 12 PER CANTILEVER STRUCTURE



BASE PLATE DIMENSIONS FOR A# 122713 (S-37-58)						
PART NUMBER	LABEL	O.D.	I.D.	HOLES	THICKNESS	WEIGHT
199248	BP	32"	20 1/8"	(8) 2 1/4" HOLES ON A 26" B.C.	1 3/4"	226#
199745	TP	30"	22"	(8) 2 1/16" HOLES ON A 26" B.C.	1/4"	21.30#
199744	EP	30"	22"	(8) 2 1/16" HOLES ON A 26" B.C.	1/2"	42.59#

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WISCONSIN BOX TRUSS SUBMITTAL
PROJECT# 1166-09-76
MARATHON COUNTY

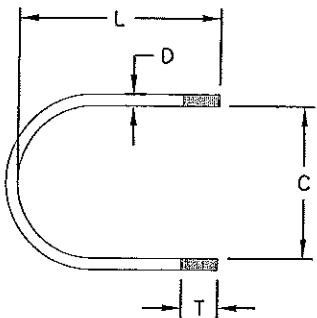
DR BY
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STRUCTURES
1-877-467-4763 Plymouth, IN
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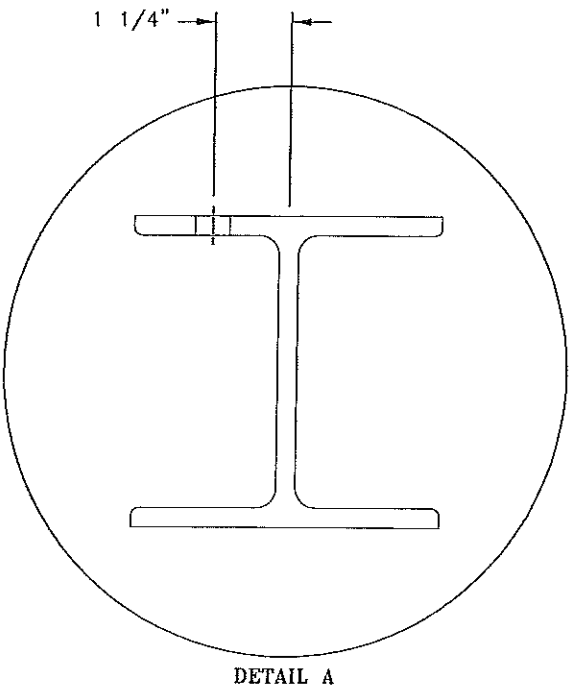
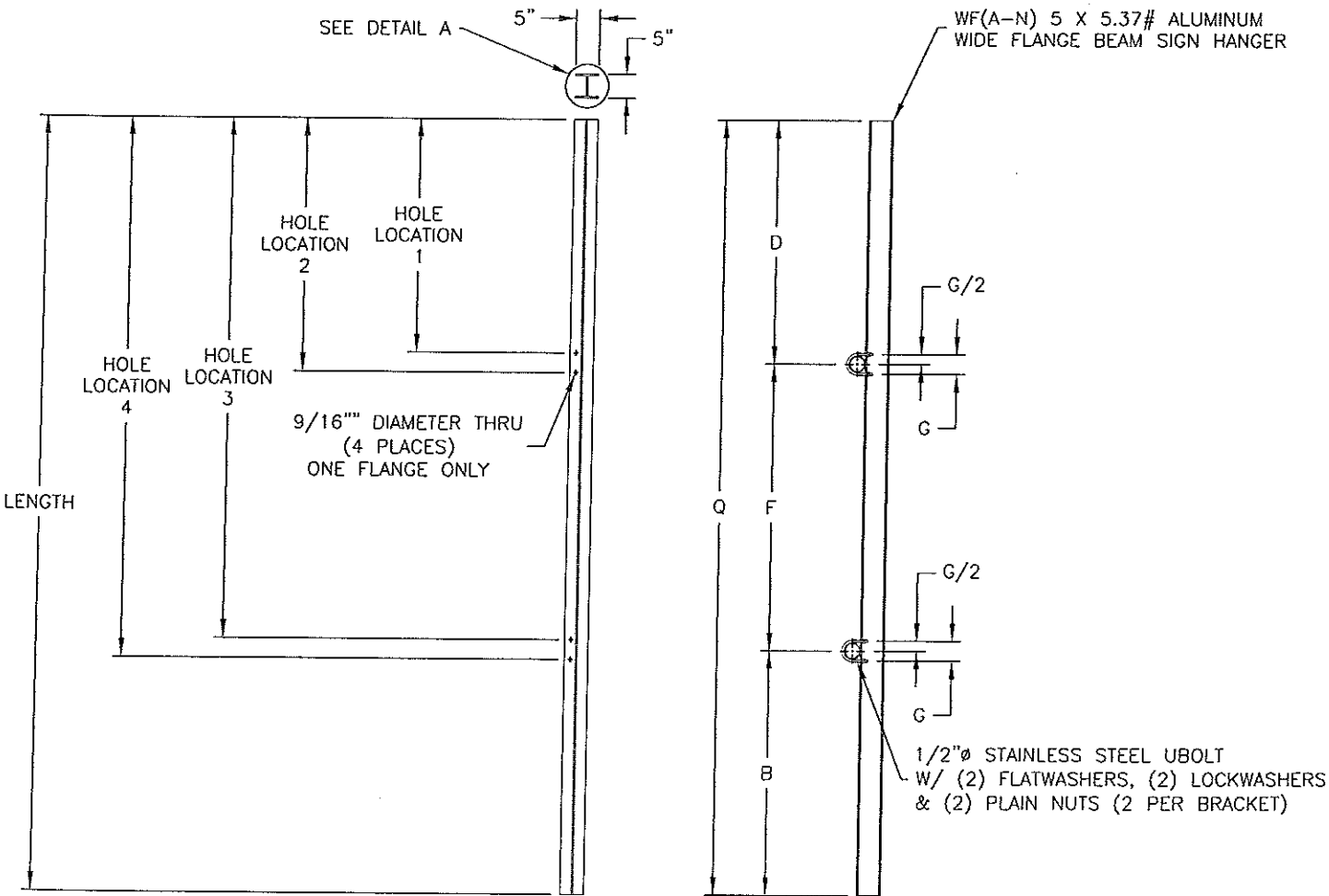
PART NO
A# 122713
210800

LABEL	VALMONT PART#	QTY	TYPE	B	D	Q	F	G	WEIGHT
SH-9	211289	10	SH	2.00'	2.00'	9.00'	5.00'	5 1/8"	95.8#

VERTICAL BEAM INFORMATION							
LABEL	HOLE LOCATION 1	HOLE LOCATION 2	HOLE LOCATION 3	HOLE LOCATION 4	SAFETY CHAIN HOLES	LENGTH	WEIGHT
SH-9	90 15/16"	95 1/16"	150 15/16"	155 1/16"	N	216"	95.8#



QTY	PART NUMBER	LABEL	D	L	C	T	USE
20	199408	SUB	1/2"	6"	4 5/8"	1 1/2"	SIGN SUPPORT TO CHORD



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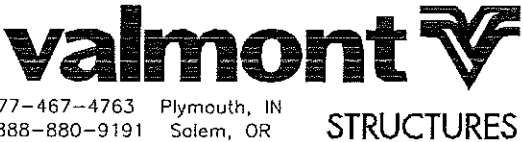
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DESCRIPTION WISCONSIN BOX TRUSS SUBMITTAL PROJECT# 1166-09-76 MARATHON COUNTY			
DR BY BTJ 05/02/2007	CPD NO 4080	DRAWING USAGE SUBMITTAL	PART NO A# 122713
ENG APPROVAL	CHECKED BY	DWG NO 210800	REV 1

1-877-467-4763 Plymouth, IN
1-888-880-9191 Salem, OR

COMPLETE BILL OF MATERIAL FOR A# 122713 - STRUCTURE S-37-58			
ANCHOR STEEL			
QTY	PART NUMBER	DESCRIPTION	LABEL
8	183109	2" X 56" ANCHOR BOLT	AB
1	199745	ANCHOR STEEL TEMPLATE PLATE	TP
1	199744	ANCHOR STEEL EMBEDMENT PLATE	EP
TRUSS - PACKAGE 210800-009			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211314	20" O.D. X 1/2" WALL UPRIGHT	UPR
32	169917	3/4" X 2 1/2" BOLT	B1
32	182789	3/4" FLATWASHER	FW
32	170004	3/4" PLAIN NUT	PN
UPRIGHT - PACKAGE 210800-010			
QTY	PART NUMBER	DESCRIPTION	LABEL
1	211314	TRUSS SECTION	S1
2	199279	FRONT BOLTED DIAGONAL ANGLE	FBD
2	199281	TOP BOLTED DIAGONAL ANGLE	TBD
2	199280	FRONT STRAIGHT BOLTED ANGLE	FBA
2	199282	TOP STRAIGHT BOLTED ANGLE	TBA
1	199283	INTERNAL BOLTED DIAGONAL	BID
54	182786	3/4" X 2" BOLT	B2
54	182789	3/4" FLATWASHER	FW
54	170004	3/4" PLAIN NUT	PN
4	124900	NON-METALLIC END CAP	EC
EXTRA HARDWARE - PACKAGE 210800-011			
QTY	PART NUMBER	DESCRIPTION	LABEL
3	169917	3/4" X 2 1/2" BOLT	B1
3	182786	3/4" X 2" BOLT	B2
6	182789	3/4" FLATWASHER	FW
6	170004	3/4" PLAIN NUT	PN
SIGN HANGER BRACKETS - PACKAGE 210800-012			
10	211315	SIGN HANGER BRACKET	SH-1
20	199408	1/2" U-BOLT ASSEMBLY	SUB

THE BILLS OF MATERIAL ON THIS PAGE ARE COMPLETE LISTS OF ALL THE PARTS NEEDED TO ASSEMBLE THE STRUCTURE. THE BILLS SHOULD BE USED TO VERIFY & ASSEMBLE THE STRUCTURE SHIPMENT.

REV	DESCRIPTION OF REVISIONS	CPO	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.	DESCRIPTION WISCONSIN BOX TRUSS SUBMITTAL PROJECT# 1166-09-76 MARATHON COUNTY			 1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR	
					TOLERANCE NOTE: TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ARE (PLUS OR MINUS) MACHINING 0.030" AND STRUCTURAL 0.060". BENDS ARE (+ OR -) 1/2 DEGREE	DR BY BTJ 05/02/2007	CPD NO 4080	DRAWING USAGE SUBMITTAL	PART NO A# 122713	1 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200
						ENG APPROVAL	CHECKED BY	CWG NC	210800	