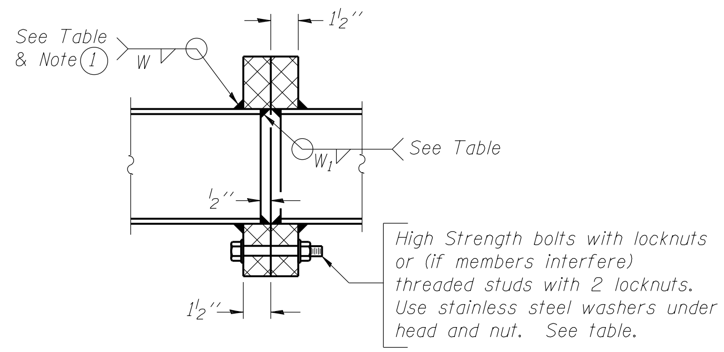
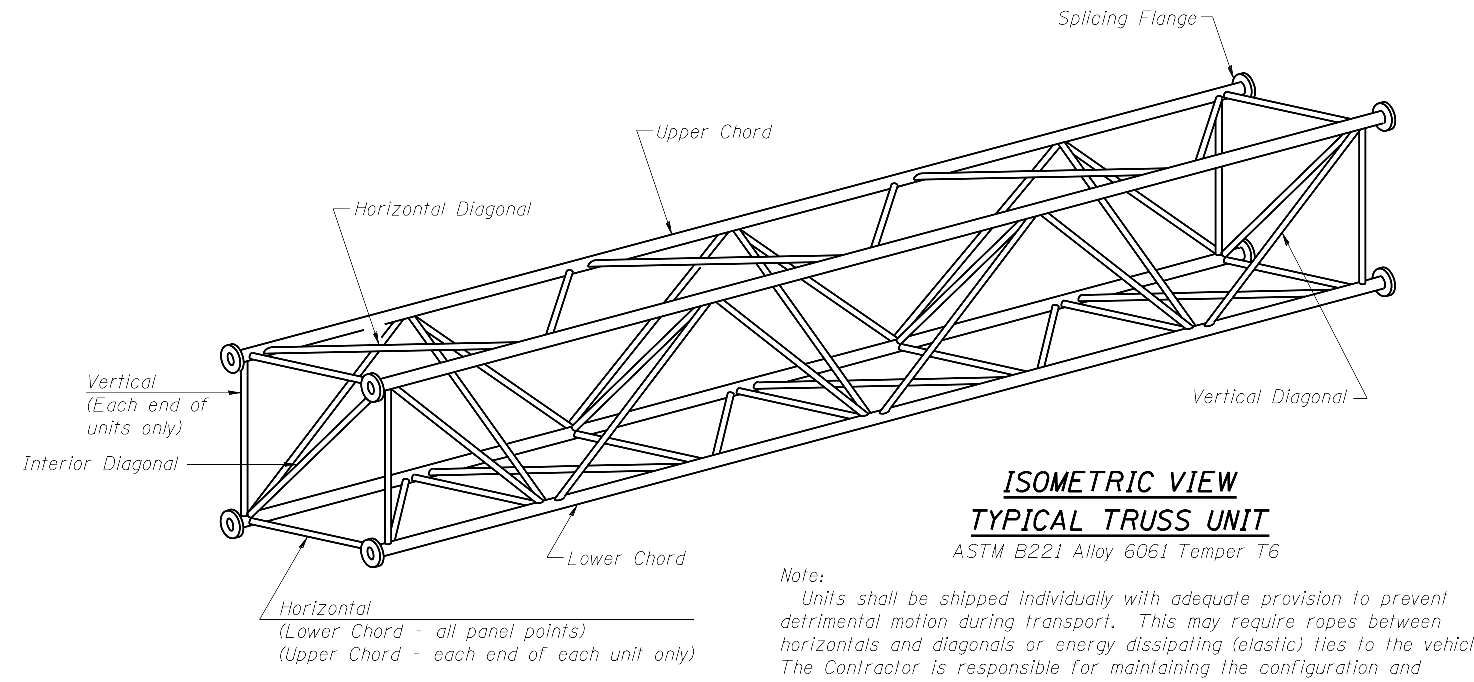
TRUSS UNIT TABLE

	Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
				No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts No./Splice	Bolts Dia.	Weld Sizes W	Weld Sizes W_1	A	B
SN-031	2S101I039R138.8		II-A	7	39'-11 1/4"	5'-5 1/4"	1	6	33'-10 1/2"	5'-5 1/4"	7"	5/16"	3"	5/16"	3 3/4"	6	1"	3/8"	1/4"	11 1/2"	15"
SN-032	2S101I039R139.4		II-A	6	31'-5"	4'-11 1/4"	2	6	30'-10 1/2"	4'-11 1/4"	7"	3/8"	3"	5/16"	4 3/8"	8	1"	7/16"	5/16"	11 1/2"	15"
SN-033	2S101I039R139.8		III-A	6	33'-1 1/2"	5'-2 1/2"	2	7	37'-8 1/2"	5'-2 1/2"	7"	1/2"	3 1/4"	5/16"	4 1/4"	8	1"	9/16"	7/16"	11 1/2"	15"
SN-034	2S101U020R021.5		II-A	6	30'-6"	4'-9 1/4"	2	6	29'-10 1/2"	4'-9 1/4"	7"	5/16"	3"	5/16"	4 1/8"	6	1"	3/8"	1/4"	11 1/2"	15"
SN-039	2S071I039L118.7		II-A	6	33'-3"	5'-2 3/4"	2	6	32'-7 1/2"	5'-2 3/4"	7"	3/8"	3"	5/16"	4 3/4"	8	1"	7/16"	5/16"	11 1/2"	15"



SECTION B-B

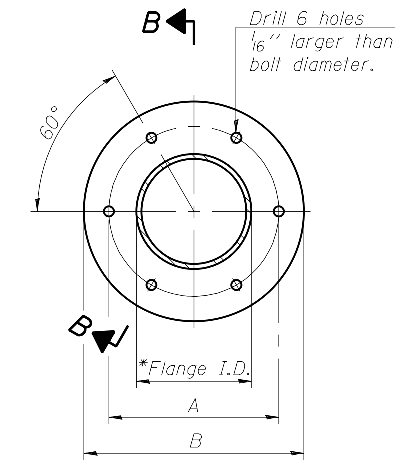
(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



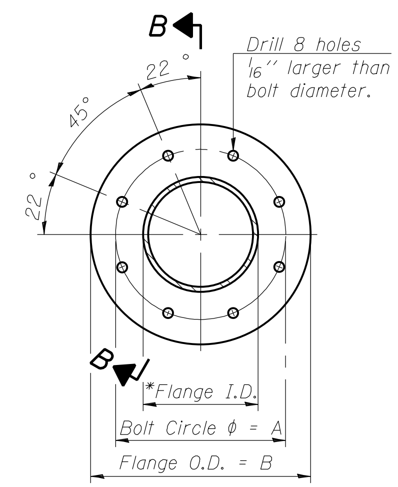
ISOMETRIC VIEW
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



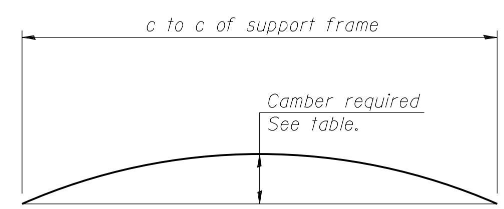
TRUSS TYPES I-A, II-A, & III-A



TRUSS TYPES II-A & III-A

SPLICING FLANGES

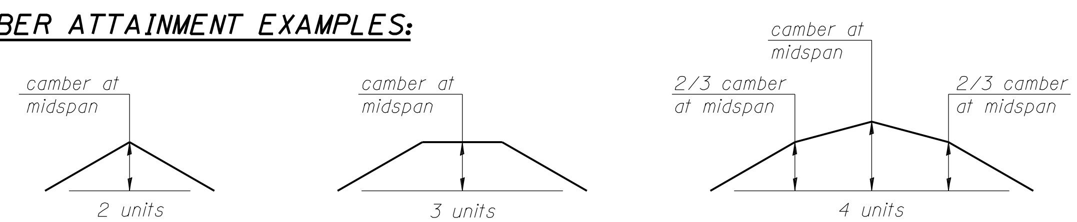
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16''.



CAMBER DIAGRAM

Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

OS4-A-2 6-1-12

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

OVERHEAD SIGN STRUCTURES – ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SHEET NO. S-12 OF S-26 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	••	45	31
• D-2 OVD SIN STR REPL 14-27		CONTRACT NO. 46288		
		ILLINOIS FED. AID PROJECT		

•• WINNEBAGO & OGLE