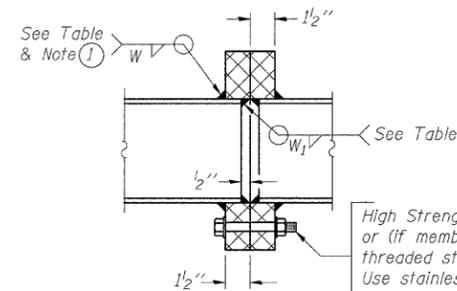


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS UNIT TABLE

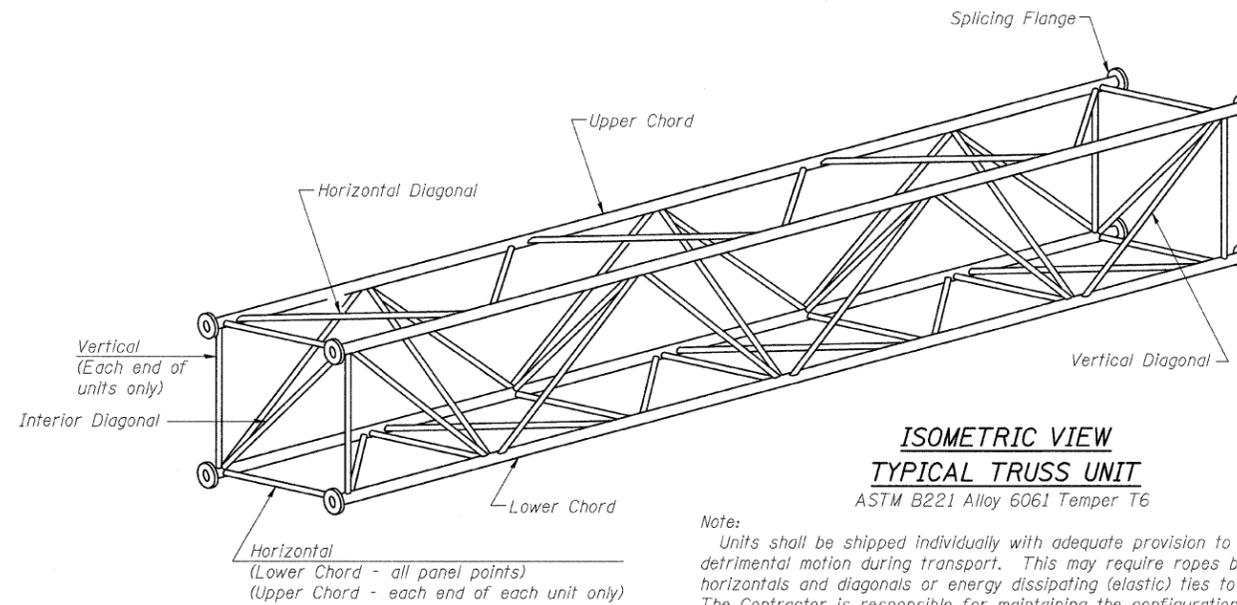
Structure Number	Station	Design Truss Type	Exterior Units (2)				Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L _u)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L _i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall	Bolts		Weld Sizes		A	B		
														No./Splice		Dia.	W			W ₁	
8S0601270L003.0	249+50.00	I-A	7	35'-3 1/4"	4'-9 1/4"	-	-	-	-	5"	5/16"	2 1/2"	5/16"	1 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
8S060S003L009.3	1347+50.00	I-A	6	29'-4 1/2"	4'-7"	1	6	28'-9"	4'-7"	5"	5/16"	2 1/2"	5/16"	2 1/2"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
8S0601270L002.8	31271+50.00	I-A	7	36'-3 1/2"	4'-11"	-	-	-	-	5"	5/16"	2 1/2"	5/16"	1 3/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	
8S060S003R008.6	1370+32.00	I-A	6	30'-10 1/2"	4'-10"	-	-	-	-	5"	1/4"	2 1/2"	1/4"	1 1/4"	6	7/8"	5/16"	1/4"	8 3/4"	11 3/4"	



SECTION B-B

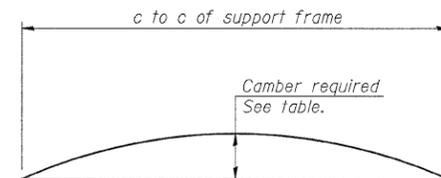
① Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining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

High Strength bolts with locknuts or (if members interfere) threaded studs with 2 locknuts. Use stainless steel washers under head and nut. See table.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

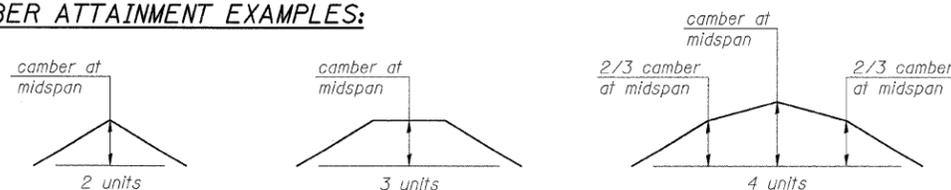
Note: Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection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



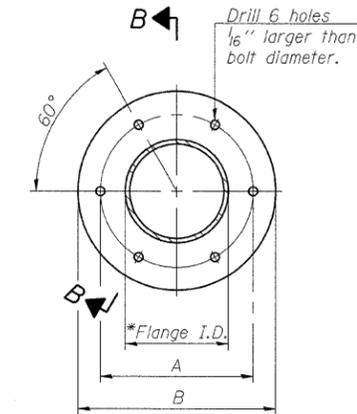
CAMBER DIAGRAM

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

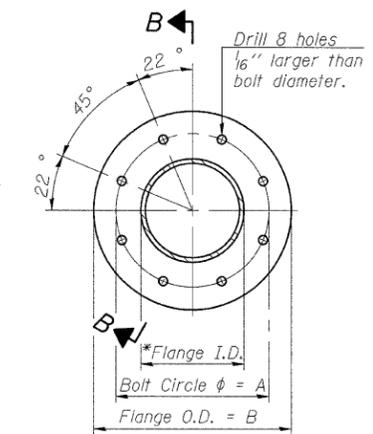
CAMBER ATTAINMENT EXAMPLES:



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



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".

NUMBER	REVISION	DATE

DESIGNED	KLH
CHECKED	JJD
DRAWN	KLH
CHECKED	JJD

OS4-A-2 12-1-08

HORNER & SHIFRIN, INC.
ENGINEERS

SHEET NO. 3
14 SHEETS

OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A				
F.A.I. ROUTE 270 (I-270), SEC. 60-2RS-3 MADISON COUNTY				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-2RS-3	MADISON	231	124
CONTRACT NO. 76D87			ILLINOIS FED. AID PROJECT	