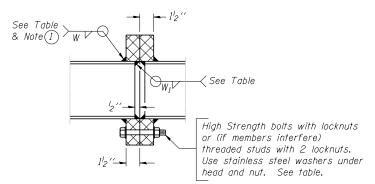
Drill 6 holes 16'' larger than bolt diameter.

#### TRUSS UNIT TABLE

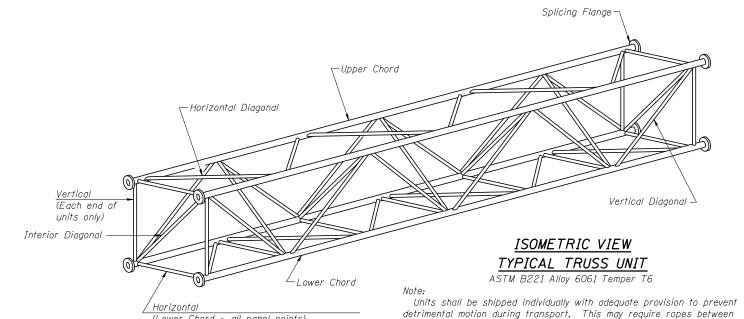
Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber	Splicing Flange					
			No. Panels	Unit Lath.(L <sub>e</sub> )	Panel Lath.(P)	No. Rea'd	No. Panels per Unit	Unit Lath.(L; )	Panel Lath.(P)		Wall	0.D.	Wall	at Midspan	Bolt No./Splice		Weld W	Sizes Wı	A	В
4S090I074L100.0	482+66.50	<i>I-A</i>	7	32'-9'2"	4'-5"	0	-	-	-	5"	516"	212"	5/6"	1.45"	6	78"	516"	14"	8 <sup>3</sup> 4"	1134"
4S090I074L100.3	495+10.00	III- A	7	38'-94"	5'-34"	0	-	-	-	7"	516"	31/4"	5/6 "	0.91"	6	1"	716"	5/6"	11/2"	15"
4S090I074R100.3	498+50.00	II-A	7	38'-94"	5'-34"	0	-	-	-	5½"	516"	3"	516 "	1.72"	6	<sup>7</sup> 8"	38"	4"	914"	12 1/4"
4S090I074L100.5	508+15.00	III-A	7	38'-94"	5'-34"	0	=	-	-	7"	<sup>5</sup> 16 "	314"	5 <sub>16</sub> "	0.91"	6	1"	<sup>7</sup> 16 "	516"	11/2"	15"
4S090I074RI00.6	515+50.00	II-A	5	28'-104"	5'-43 <sub>4</sub> "	1	4	22'-10"	5'-4 <sup>3</sup> 4"	5½"	<sup>5</sup> 16 "	3"	5 <sub>16</sub> "	1.90"	6	<sup>7</sup> 8"	38"	4"	914"	12 4"
4S090I155R031.9	17+68.62	I - A	5	25′-10"	4'-912"	1	6	30'-0"	4'-912"	5"	<sup>5</sup> 16 "	21/2"	<sup>5</sup> 16 "	2.25"	6	<sup>7</sup> 8"	<sup>5</sup> 16 "	4"	8 <sup>3</sup> 4"	11 <sup>3</sup> 4"
4S090I155R031,2	54+00.00	I - A	6	30'-1012"	4'-10"	0	-	-	-	5"	14"	2½"	I <sub>4</sub> "	1.27"	6	<sup>7</sup> 8"	5 <sub>16</sub> "	4"	8 <sup>3</sup> 4"	1134"
*4S090I074L104.3																				

<sup>\*</sup>See ITS plans for existing plans for relocated sign structure.



### 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.



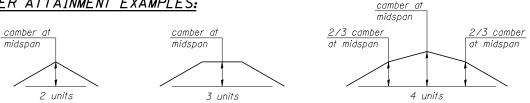
horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. (Upper Chord - each end of each unit only) The Contractor is responsible for maintaining the configuration and protection of the units. c to c of support frame

# Camber required See table.

(Lower Chord - all panel points)

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)

.xxxx\_68620\_03\_atd2.dgn

Alfred Benesch & Company 205 North Michigan Avenue, Suite 2400 Chlcago, Illinols 60601

054-A-2

nne	ers 312-565-0450 Job No. 10056	034-A-Z	6-1-12
	USER NAME = mbecker	DESIGNED - MFB	REVISED -
		CHECKED - KJN	REVISED -
	PLOT SCALE =	DRAWN - MFB	REVISED -
	PLOT DATE = 7/16/2012	CHECKED - KJN	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

OVERHEAD SIGN STRUCTURES - ALUMINUM TRUSS I	DETAILS	F.A.I. RTE.	
FOR TRUSS TYPES I—A. II—A AND III—A		74	90-[14R <b>;</b> (1-
TON THOSE THE BEAR HEAD IN-A			
CHEET NO. CC3 OF CC32 CHEETC			

SECTION COUNTY (14HB-4,14,14HVB)BR] TAZEWELL 2433 1623 CONTRACT NO. 68620

TRUSS TYPES II-A & III-A <u>SPLICING FLANGES</u>

\*Flange I.D.

Bolt Circle  $\phi$  =

Flange O.D. = B

\*Flange I.D.

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

Drill 8 holes l<sub>6</sub>" larger than bolt diameter.

 $B \blacktriangleleft_1$ 

ASTM B221, Alloy 6061-T6 or ASTM B209, Alloy 6061-T651 \*To fit O.D. of Chord with maximum gap of  $^{\prime}_{16}$ ".