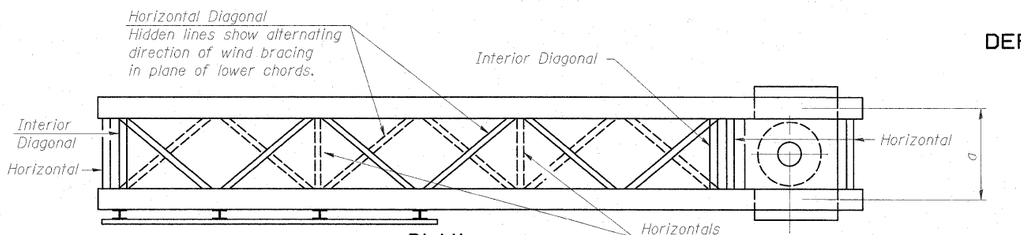
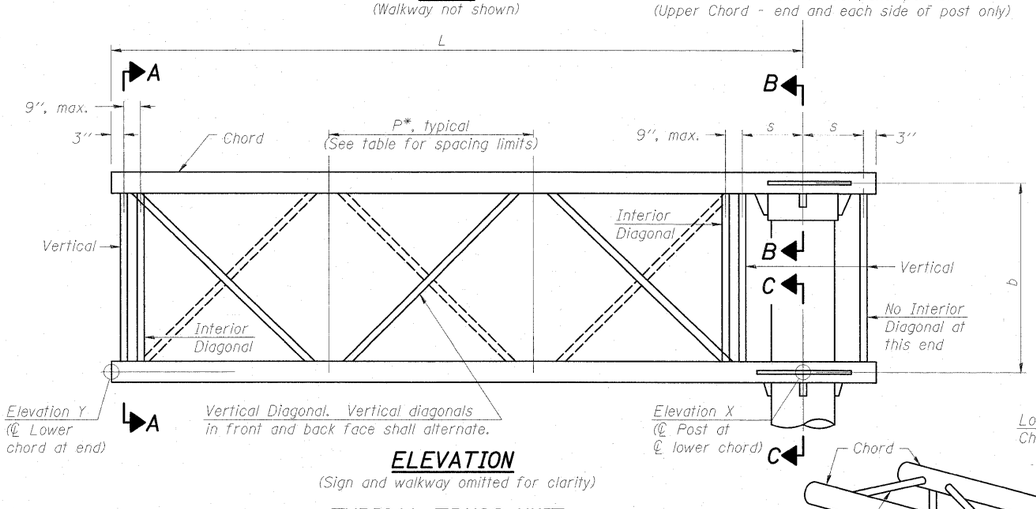
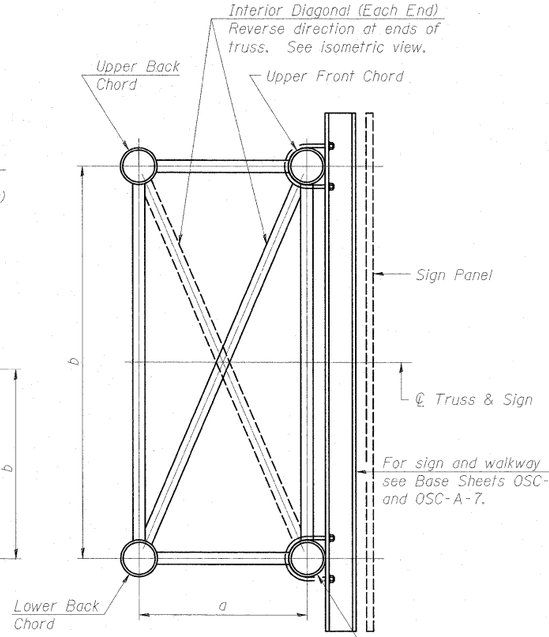
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



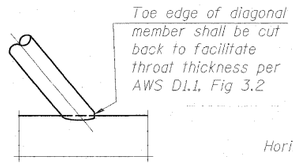
PLAN
(Walkway not shown)



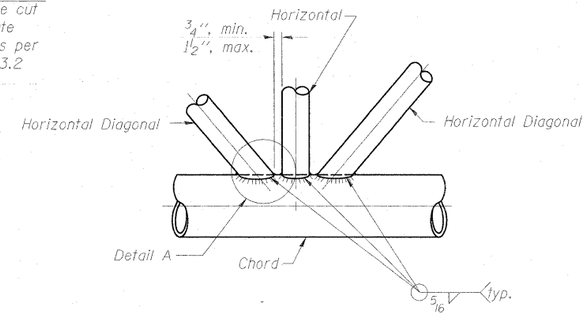
ELEVATION
(Sign and walkway omitted for clarity)



SECTION A-A



DETAIL A

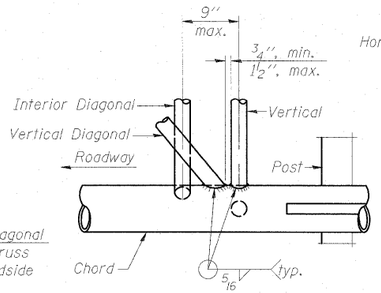


TRUSS INTERIOR JOIT DETAIL

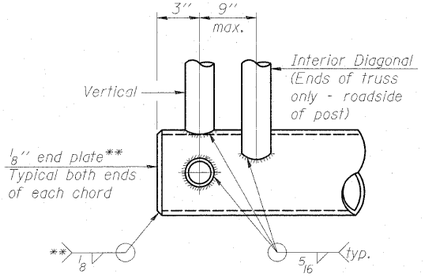
Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
1C099I055R243.6	7002+81.4 RT	II-C-A	28'-0"	6	52"
1C099L017R244.5	907+05 LT	I-C-A	25'-0"	6	46 7/8" +/-
1C099I055R244.5	2002+00 RT	III-C-A	36'-0"	7	58 1/4" +/-
1C099I055R245.0	1086+26 LT	II-C-A	28'-0"	6	52"

TYPICAL TRUSS UNIT
For Section B-B and Section C-C, see Base Sheet OSC-A-3.

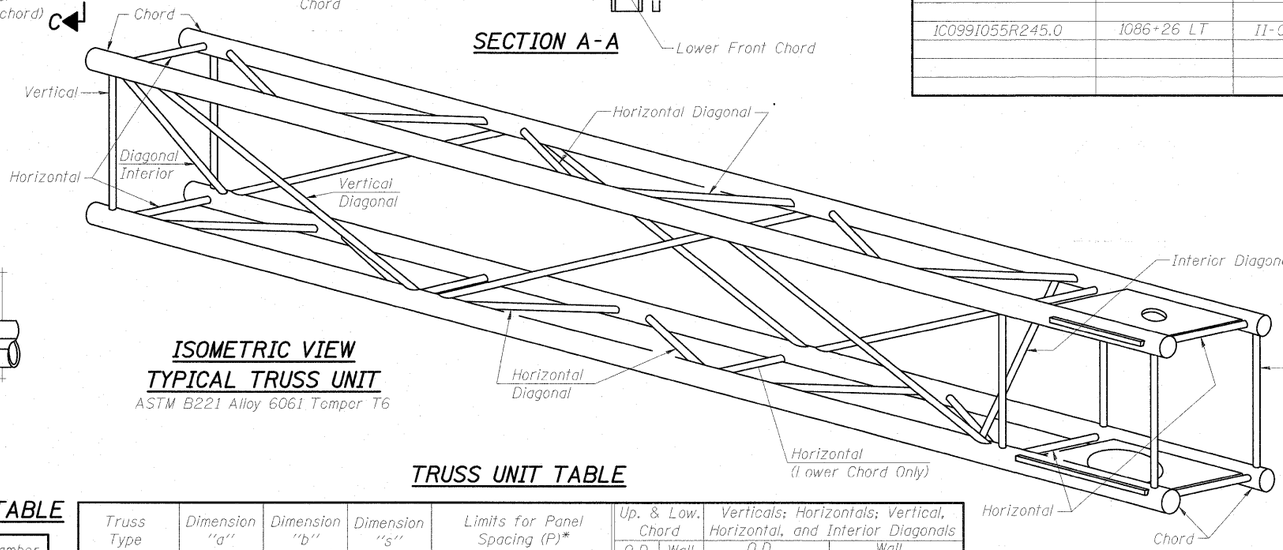
Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



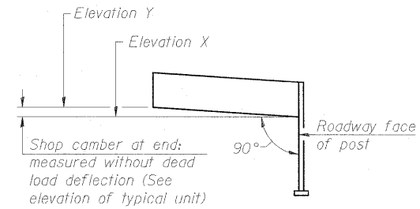
POST END JOINT DETAIL



CANTILEVER END JOINT DETAIL
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6



CAMBER DIAGRAM
(For Fabrication Only)

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
15'	1 1/2"
16'-17'	1 3/4"
18'-20'	2"
21'-22'	2 1/4"
23'-25'	2 1/2"
26'-27'	2 3/4"
28'-30'	3"
31'-32'	3 1/4"
33'-35'	3 1/2"
36'-37'	4"
38'-40'	4 1/2"

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals	
					O.D.	Wall	O.D.	Wall
I-C-A	24"	54"	16"	36" min. to 48" max.	5"	5/16"	2 1/2"	5/16"
II-C-A	36"	66"	21"	42" min. to 54" max.	6 1/2"	5/16"	3 1/4"	5/16"
III-C-A (35' Max.)	36"	84"	21"	48" min. to 66" max.	7"	3/8"	3 1/2"	3/8"
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

*P = (L - s - 3") / # Panels

NUMBER	REVISION	DATE

CANTILEVER SIGN STRUCTURES
TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST
F.A.I. RT. 55 - SEC. (99-1&2)R-6
WILL COUNTY

DESIGNED	
CHECKED	
DRAWN	
CHECKED	

OSC-A-2 12-1-08

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street
Chicago, Illinois 60601
(312) 946-8600

SHEET NO. SD-15 SHEETS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(99-1&2) R-6	WILL	756	319
			CONTRACT NO. 60F12		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		