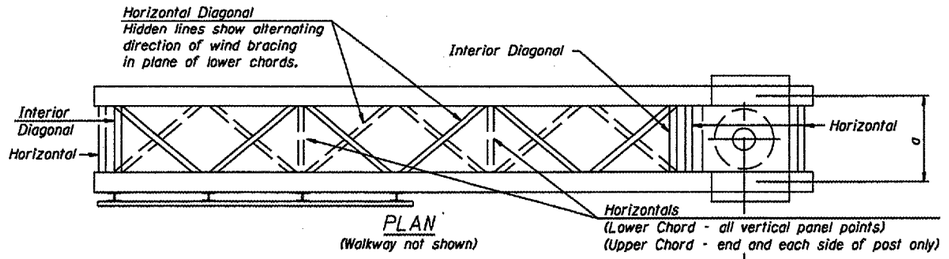
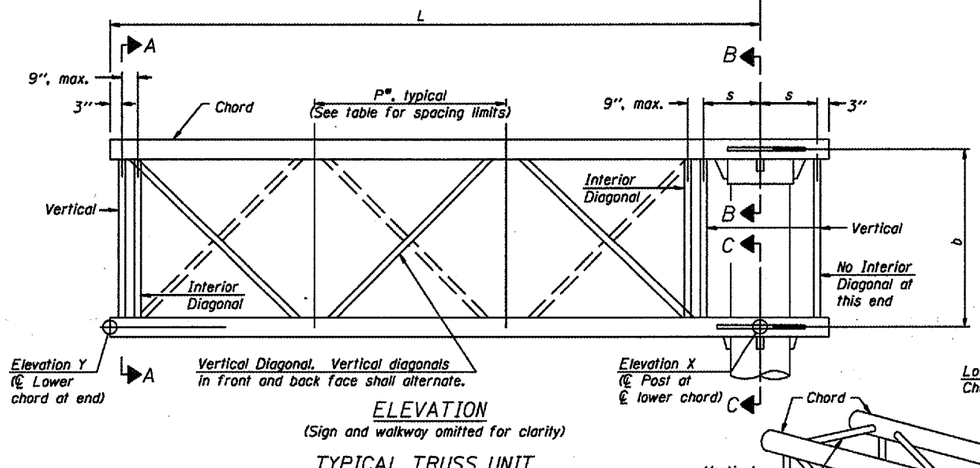
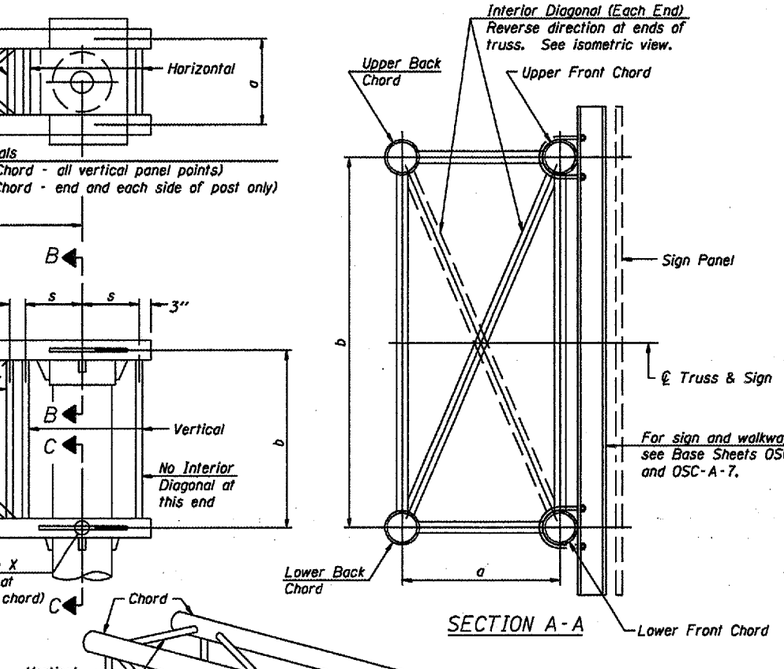


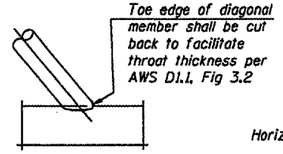
PLAN
(Walkway not shown)



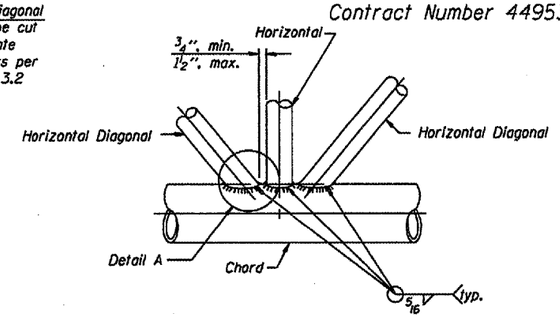
ELEVATION
(Sign and walkway omitted for clarity)



SECTION A-A



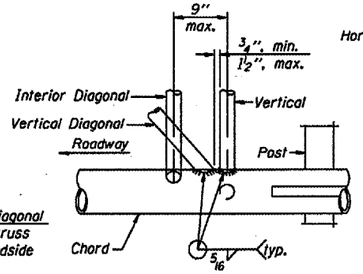
DETAIL A



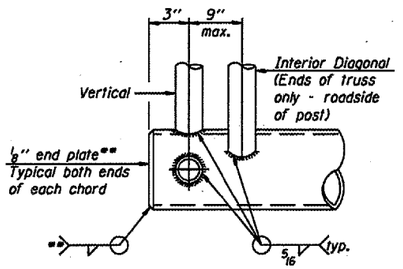
TRUSS INTERIOR JOINT DETAIL

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

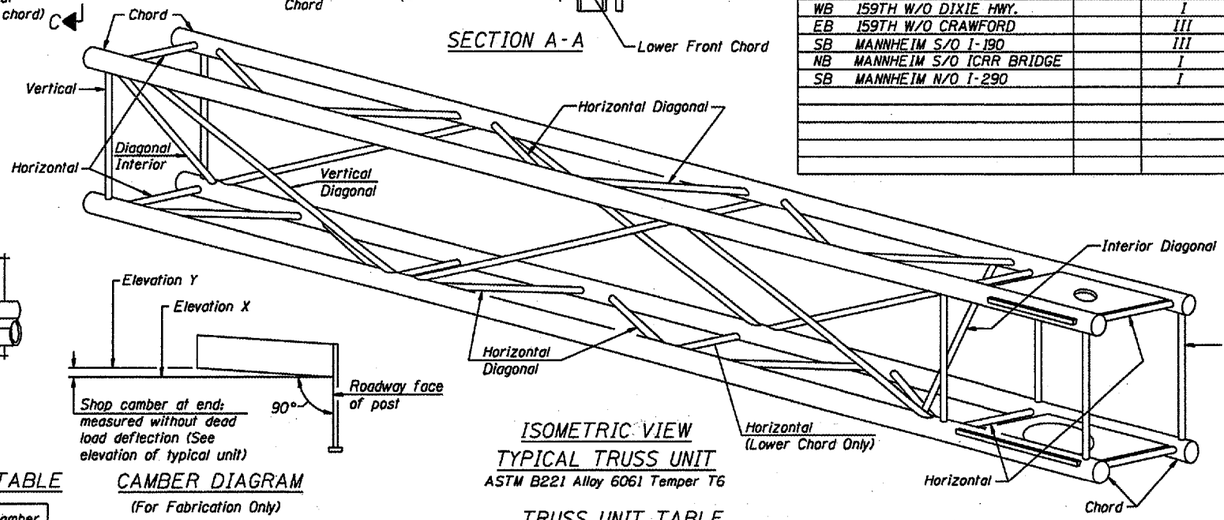


CANTILEVER END JOINT DETAIL
** Contractor may alternatively use standard aluminum drive-fit cap to close ends.

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"

CAMBER DIAGRAM
(For Fabrication Only)



ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D.	Up. & Low. Chord Wall	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals O.D.	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals 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"

$*P = \frac{L - s - 3"}{\#\ Panels}$

Structure Number		Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
SB	STONEY ISLAND N/O I-94		III	25 Ft.	5	4.6 Ft.
WB	159TH W/O DIXIE HWY.		I	25 Ft.	6	3.9 Ft.
EB	159TH W/O CRAWFORD		III	25 Ft.	5	4.6 Ft.
SB	MANNHEIM S/O I-190		III	35 Ft.	6	5.5 Ft.
NB	MANNHEIM S/O ICRR BRIDGE		I	25 Ft.	6	3.9 Ft.
SB	MANNHEIM N/O I-290		I	25 Ft.	6	3.9 FT.

NUMBER	REVISION	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES
TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: VERT. N.T.S.
HORIZ.
DATE: *DATE-TIME*

DRAWN BY *SN
DESIGNED BY *DD
CHECKED BY *DAD

OSC-A-2