CONTRACT NO. 98963

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 57/64 | (41-3)HBK | JEFFERSON | | 254 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

## PLAN

*L₁*

Horizontal
(Lower Chord-all panel points)
(Upper Chord- each end of each unit only)

Horizontal Diagonal
See Note (5)

Chord

Interior Diagonal
(One shown - Typ. all panel points)

7'2"    7'2"

Vertical
(Each end of units only)

Chord

P See Note (3) typical

A

See Note (4)

Vertical Diagonal

Interior Diagonal
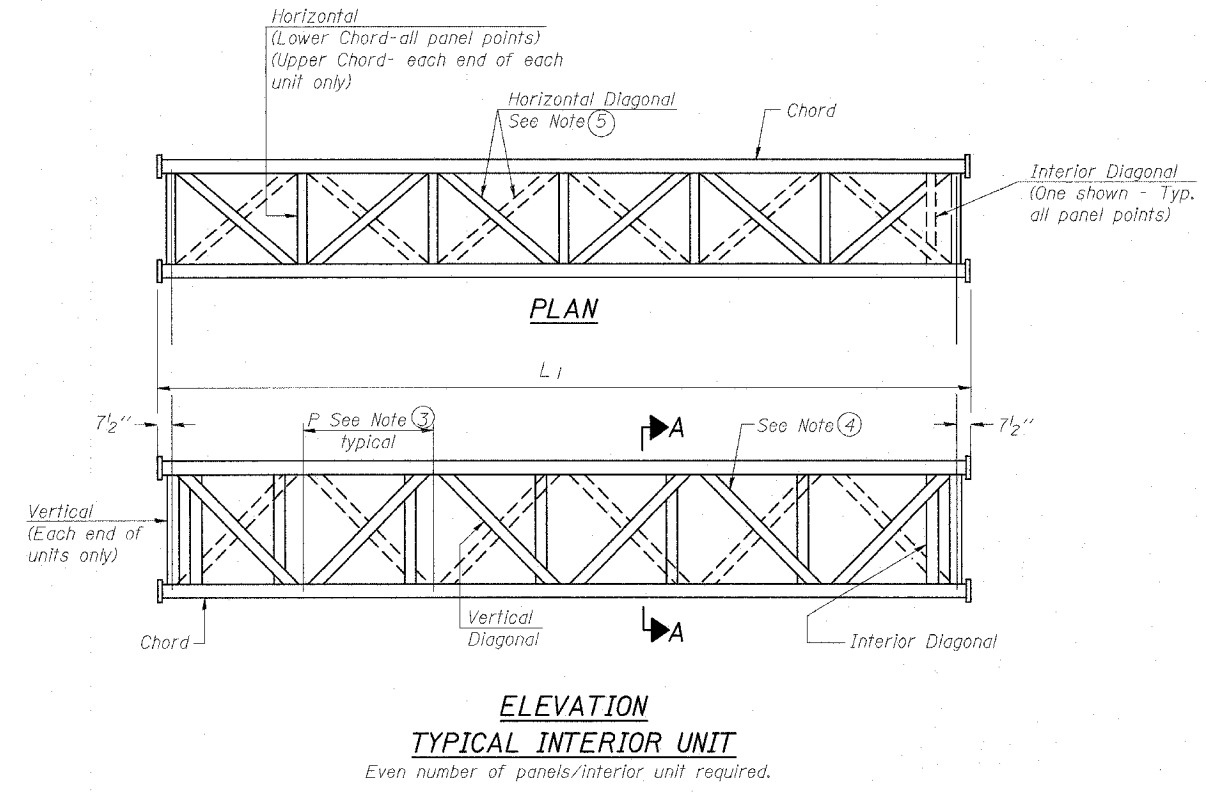
## ELEVATION
## TYPICAL INTERIOR UNIT

*Even number of panels/interior unit required.*

## PLAN

*L_e*

Horizontal Diagonal
See Note (5)

Horizontal
(Lower Chord-all panel points)
(Upper Chord- each end of each unit only)

Interior Diagonal
(One shown - Typ. all panel points)

Chord

℄ End Support

±9½"

7'2"

Vertical
(Each end of units only)

See Support
End Detail

P See Note (3) typical

A

Vertical Diagonal
See Note (4)

Chord

A

## ELEVATION
## TYPICAL EXTERIOR UNIT

*Even or odd number of panels/exterior units allowed.*

℄ Vertical and Horizontal Tubes

15"

⅛" end plate

5½" ±1"
See Note (2)

¾"
1½", max.
See Note (6)

Vertical Diagonal

Interior Diagonal

℄ Support Frame

½"
1½"

O.D. + 3"

O.D.

O.D. + 3
2

See Support Frame Detail

See Note (1)

B-221,
6061-T6

℄ Lower Chord

## SUPPORT END DETAIL FOR EXTERIOR UNIT

¾", min.
1½", max.
See Note (6)

Horizontal

Interior Diagonal

Horizontal Diagonal

Horizontal Diagonal

Detail A

Chord

9", max.
See Note (6)

typ.

Toe edge of diagonal member shall be cut back to facilitate throat thickness per AWS D1.1. Fig 3.2

Vert.

Interior Diagonal

Horiz.

Chord

typ.
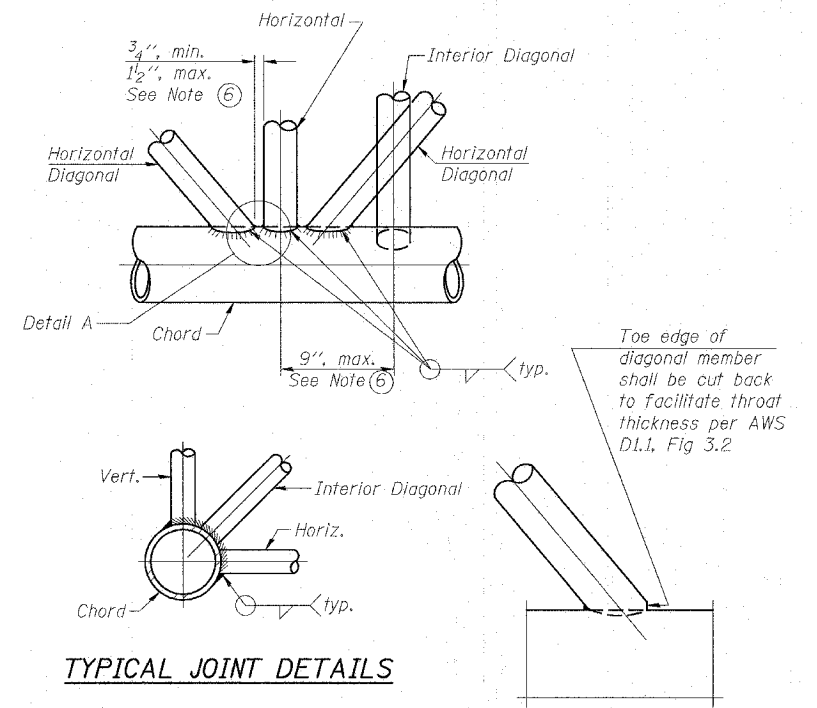
## TYPICAL JOINT DETAILS

## DETAIL A

Interior Diagonal

Upper Front Chord

Upper Back Chord

℄ Truss & ℄ Sign

Type III-A 7'-0"
Type II-A 5'-3"
Type I-A 4'-6"

Reverse direction of interior diagonals at alternate panels.

"R" on Support
Frame Details

Sign Panel - See sign panel sheet for details.

Lower Back Chord

Type I-A 4'-0"
Type II-A 4'-6"
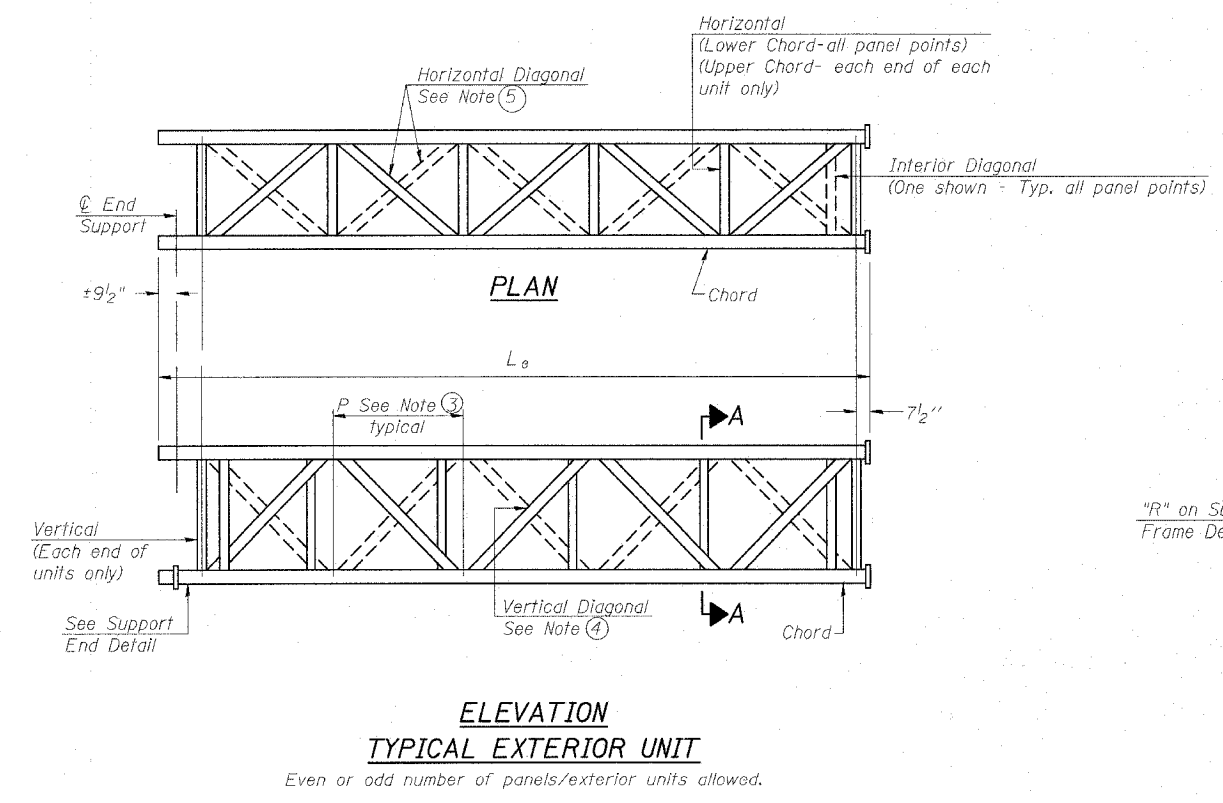Type III-A 5'-0"

Lower Front Chord

"T" on Support Frame Details

## SECTION A-A

### NOTES

(1) Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ⌀ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)

(2) 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).

(3) Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.

(4) Vertical Diagonals in front and back face shall alternate.

(5) Hidden lines show wind bracing alternates direction between planes of top and bottom chords.

(6) All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.
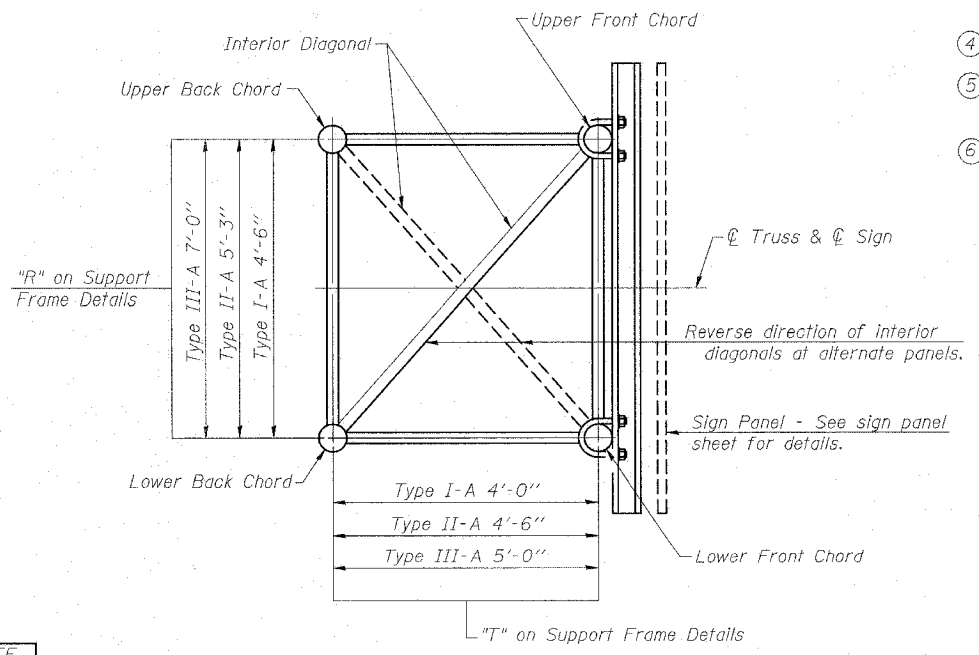
| REVISIONS | | |
|---|---|---|
| NUMBER | REVISION | DATE |
| | | |
| | | |
| | | |
| | | |

| REVISIONS | |
|---|---|
| NAME | DATE |
| | |
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| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A and III-A**

SCALE: VERT. NONE
HORIZ.

DATE

DRAWN BY

CHECKED BY

## SIGNING DETAILS