
Index 700-041 Span Sign Structure

ORIGINATION

Date: May 12, 2022

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COMMENTARY

The 700 Index Series is being edited to remove material information and other information that is located in the Standard Specifications. Revisions are being made to Specification Sections 700, 962 and 965 in conjunction with these changes.

Sheet 2: New Note - This process is to help prevent residual stress buildup in base plate connection to prevent cracking.

COMMENTS AND RESPONSES

BLACK = Industry Review Comments **RED** = Standard Plans Response **GREEN** = Change Made to Index

Name: Ge Wan

Date: July 20, 2022

COMMENT: The line work in Section A-A on sheet 3 should be corrected as shown in the markup provided. On sheet 4 an update is needed to the member orientations in Truss Front Elevation to reflect correct geometry.

RESPONSE: Agree. Both changes will be made with the final revisions.

Change made to Index: Update Sheet 3 and Sheet 4 based on comments.

Date: July 21, 2022

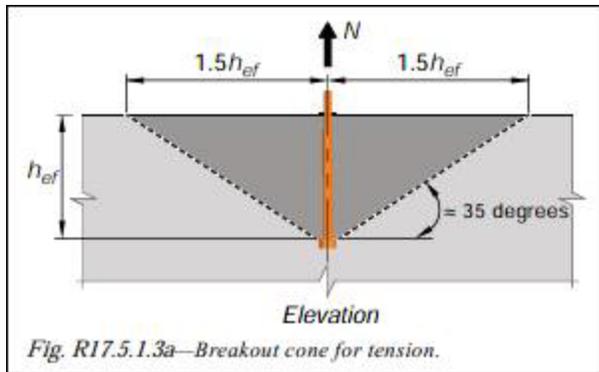
Name: Huanxi Liu

Date: July 20, 2022

COMMENT:

1. Anchor Embedment Length: in 700-040 and 700-041, the anchor embedment is dimensioned from the concrete surface to the bottom of the anchor bolt. While in mast arm standard 649-031, it is dimensioned from the concrete surface to the top of the nut. Suggest reconciling this inconsistency.

FYI, ACI 318-19 Figure R17.5.1.3a shown below measures the effective embedment h_{ef} to top of the head of the headed bolt which is same as for mast arm standard.



2. In sheet 5 of 700-041, note 3 for upright splice was added as

3. Upright splice: Not allowed unless the upright exceeds available mill lengths (35' - 40').

. While this note was not added to 700-040. Is there any reason that only add this note to 700-041?

RESPONSE: 1. Agree.

2. This note was previously located on Sheet 1 of Index 700-041 in General Note 5. It was moved to sheet 5. The note was not previously included in Index 700-040.

Change made to Index: Changed dimension 'BK' extents in Base Plate Connection detail to match calcs.

Date: July 21, 2022

Name: Arcosa

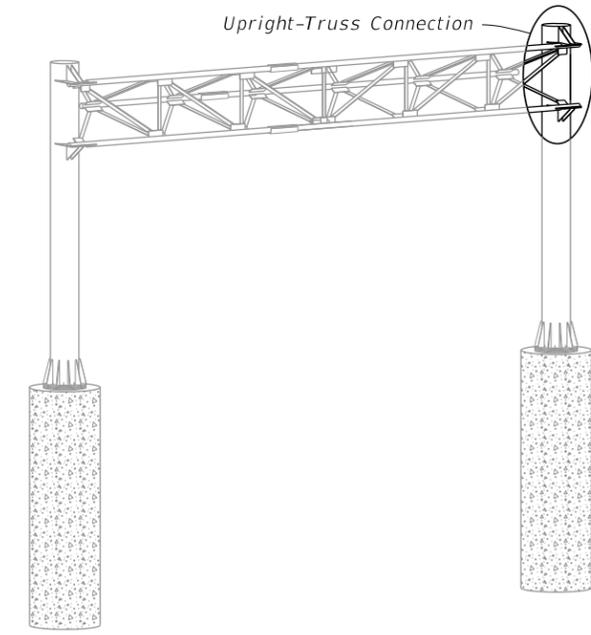
Date: 8-10-2022

COMMENT: It's not clear wear welds from plates to tubes should be wrapped.

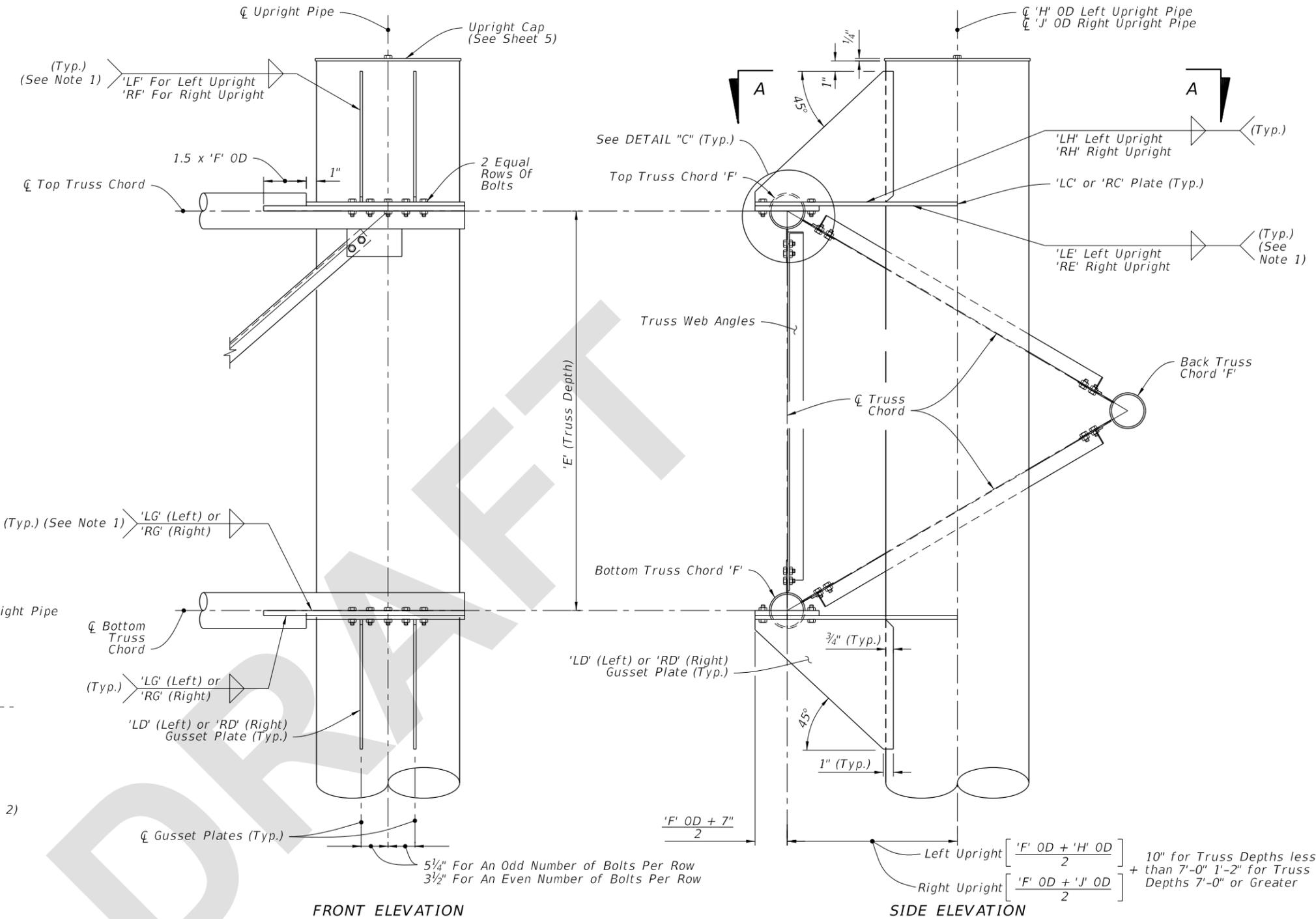
RESPONSE: Standard has been updated to more clearly specify where the welds should be wrapped.

Change Made to Index: Annotations added to UPRIGHT-TRUSS CONNECTION DETAIL Sheet 3

Date: August 10, 2022



SPAN SIGN ASSEMBLY

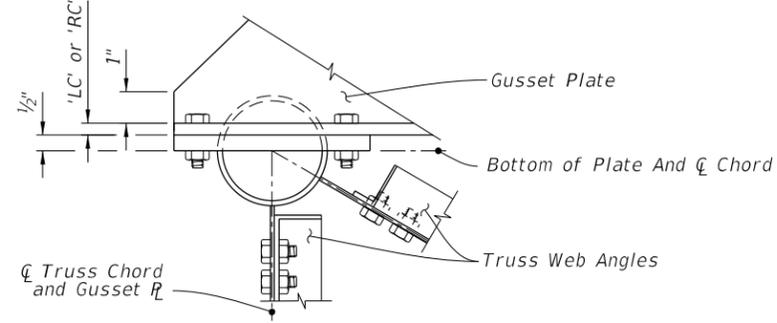


FRONT ELEVATION

SIDE ELEVATION

SECTION A-A

(With Gusset Plates And Web Angles Omitted For Clarity)



DETAIL "C"

UPRIGHT-TRUSS CONNECTION DETAIL

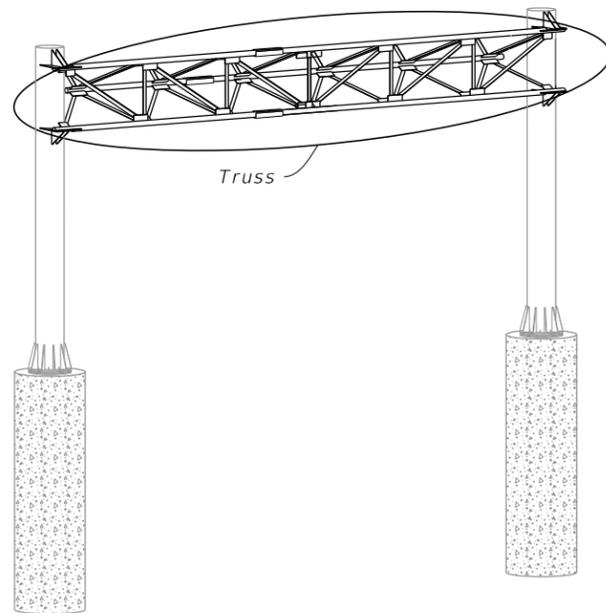
(Web Members From Back Truss Chord Omitted For Clarity, See Note 3)

NOTES:

1. Wrap fillet weld around the stiffener termination on the tube wall.
2. Truss Chord Bolts: 'LB' or 'RB' Hex Head Bolts 'LA' or 'RA' ϕ .
3. Right Upright Truss connection shown, Left Upright Truss connection similar.

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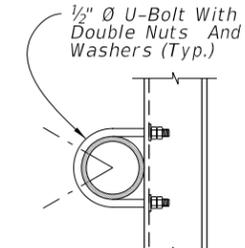
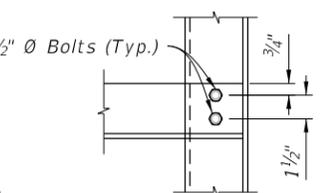
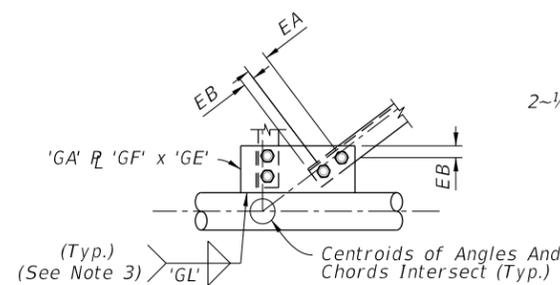
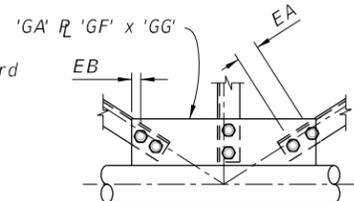
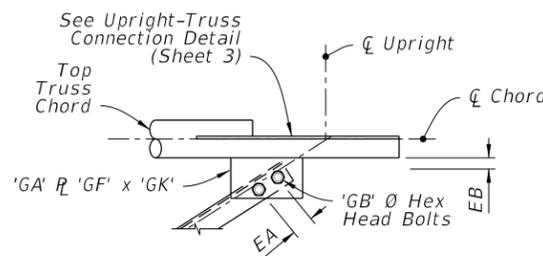
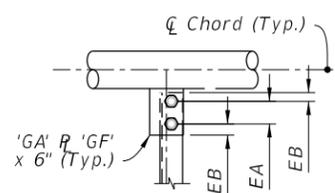
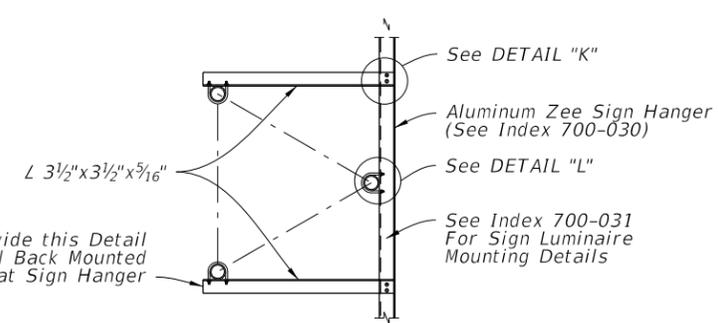
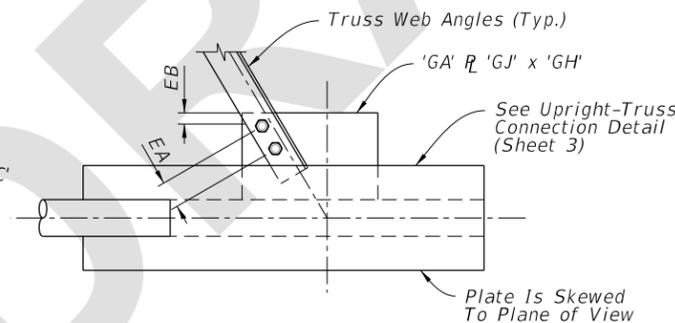
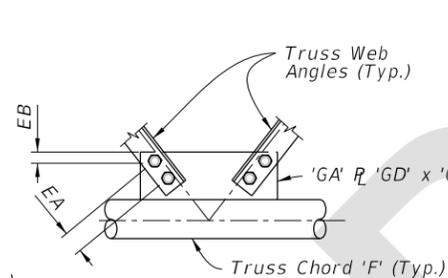
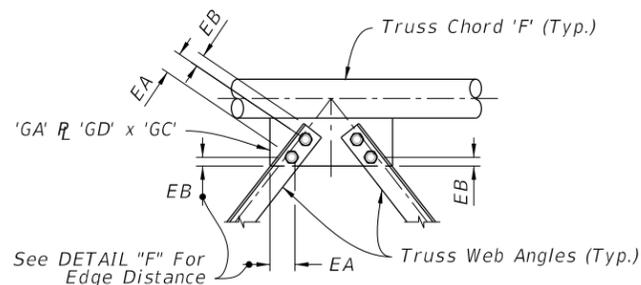
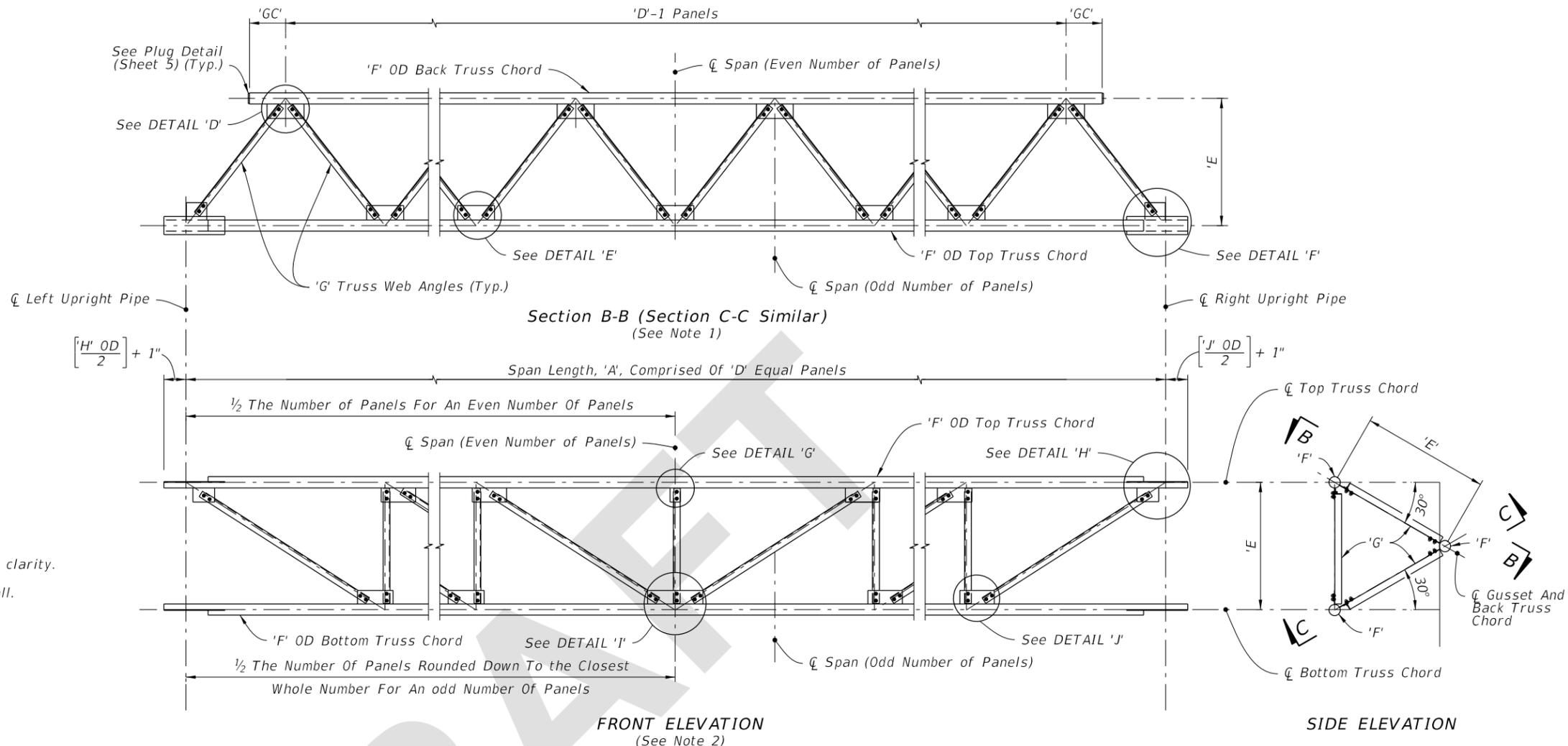
LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	SPAN SIGN STRUCTURE	INDEX 700-041	SHEET 3 of 5



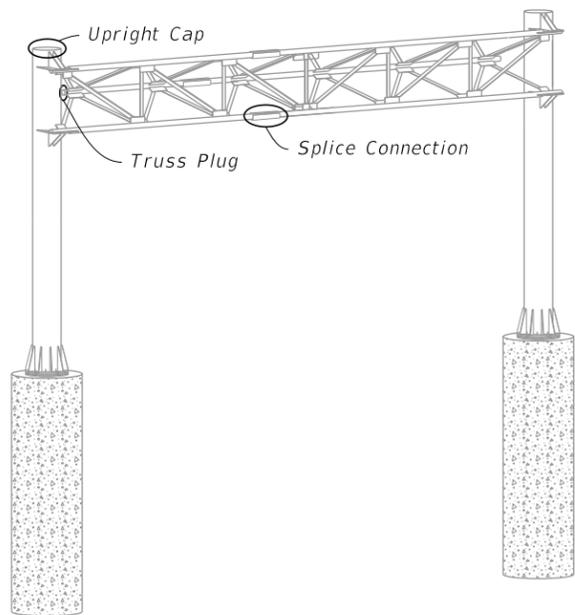
SPAN SIGN ASSEMBLY

- NOTES:**
1. Out-of-plane members are not shown for clarity.
 2. Back truss chord and attached angles are not shown for clarity.
 3. Wrap fillet weld around plate termination on the tube wall.

Bolt Diameter (in.)	Distance (in.)	
	EA	EB
1 1/4	4 3/8	2 1/4
1	3 1/2	1 3/4
7/8	3	1 1/2
3/4	2 1/2	1 1/4
5/8	2 1/4	1 1/8



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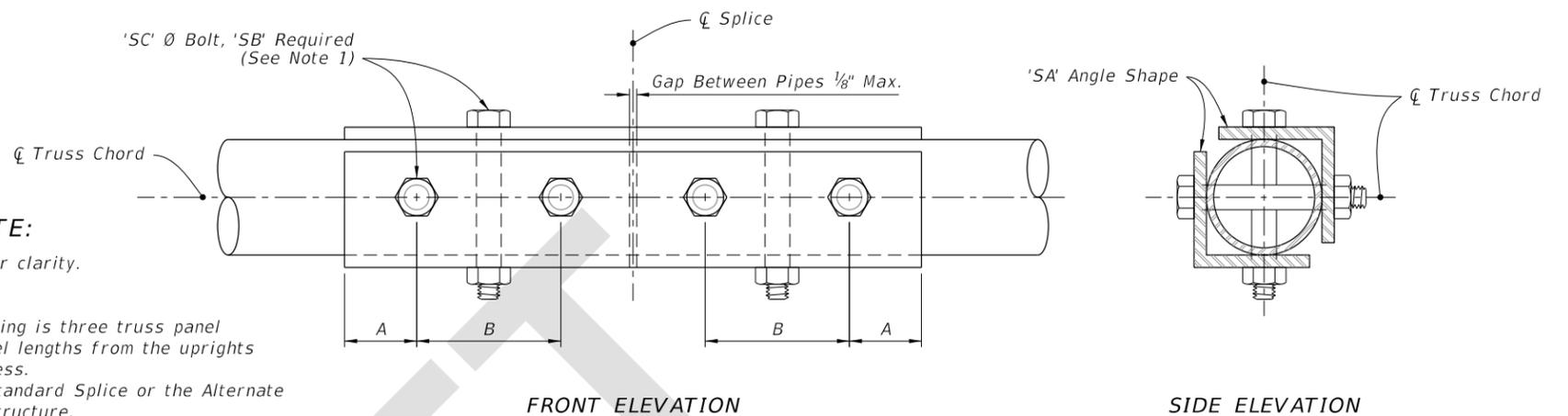


SPAN SIGN ASSEMBLY

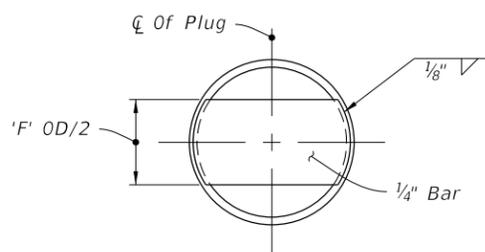
Bolt Diameter (in.)	Distance (in.)	
	A	B
1	1 3/4	3 1/2
7/8	1 1/2	3
3/4	1 1/4	2 1/2

SPLICE CONNECTION NOTE:

1. Only 6 bolts are shown in detail for clarity. (One Half Each End Of Splice)
2. Chord Splices: Minimum splice spacing is three truss panel lengths apart and three truss panel lengths from the uprights when panel lengths are 10'-0" or less. Chord Splices may be either the Standard Splice or the Alternate Splice, but not both on the same structure.
3. Upright splice: Not allowed unless the upright exceeds available mill lengths (35' - 40').

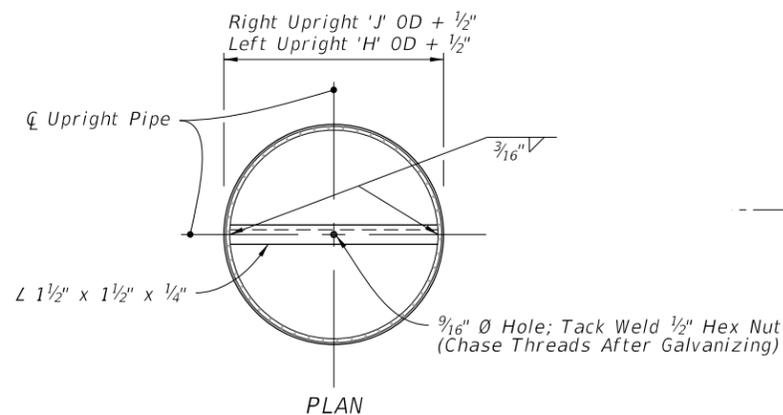


SPLICE CONNECTION DETAIL

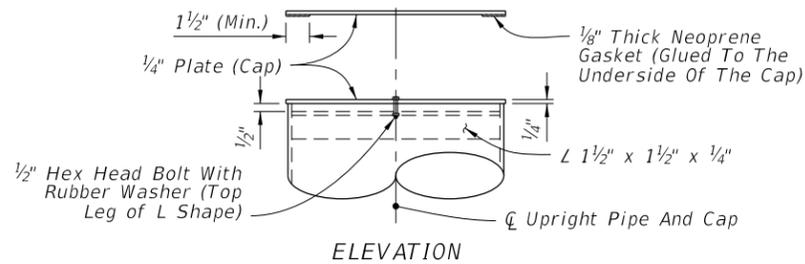


(Each End Of Back Truss Chord)

TRUSS PLUG DETAIL

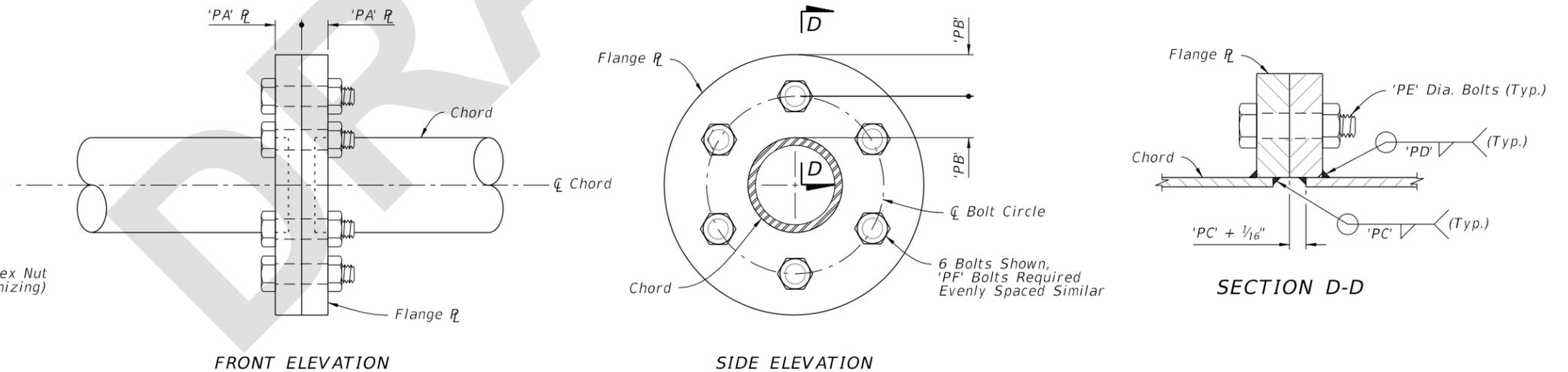


PLAN



ELEVATION

UPRIGHT CAP DETAIL



ALTERNATE SPLICE CONNECTION DETAIL

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