
ORINATION FORM

Proposed Revisions to a Standard Plans Index

(Please provide all information — Incomplete forms will be returned)

Contact Information:

Date: May 2, 2023

Originator: Joshua Turley

Phone: (850) 414-4475

Email: joshua.turley@dot.state.fl.us

Standard Plans:

Index Number: 700-020

Sheet Number (s): 1, 3 of 3

Index Title: MULTI-COLUMN GROUND SIGN

Summary of the changes:

Sheet 1: Revised bolts in the Hanger Beams to show correctly.

Sheet 2: Revised bolts in the Hanger Beams to show correctly.

Commentary / Background:

The bolts were not showing correctly in the elevation details.

Other Affected Offices / Documents: (Provide name of person contacted)

- | Yes | No | |
|-------------------------------------|-------------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Other Standard Plans – 700-030 |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | FDOT Design Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Basis of Estimates Manual – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Standard Specifications – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Approved Product List – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Construction – |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | Maintenance – |

Origination Package Includes: (Submit package to Rick Jenkins)

- | Yes | N/A | |
|-------------------------------------|--------------------------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Redline Mark-ups |
| <input type="checkbox"/> | <input type="checkbox"/> | Revised or Proposed Standard Plan Instruction (SPI) |
| <input type="checkbox"/> | <input type="checkbox"/> | Other Support Documents |

Implementation:

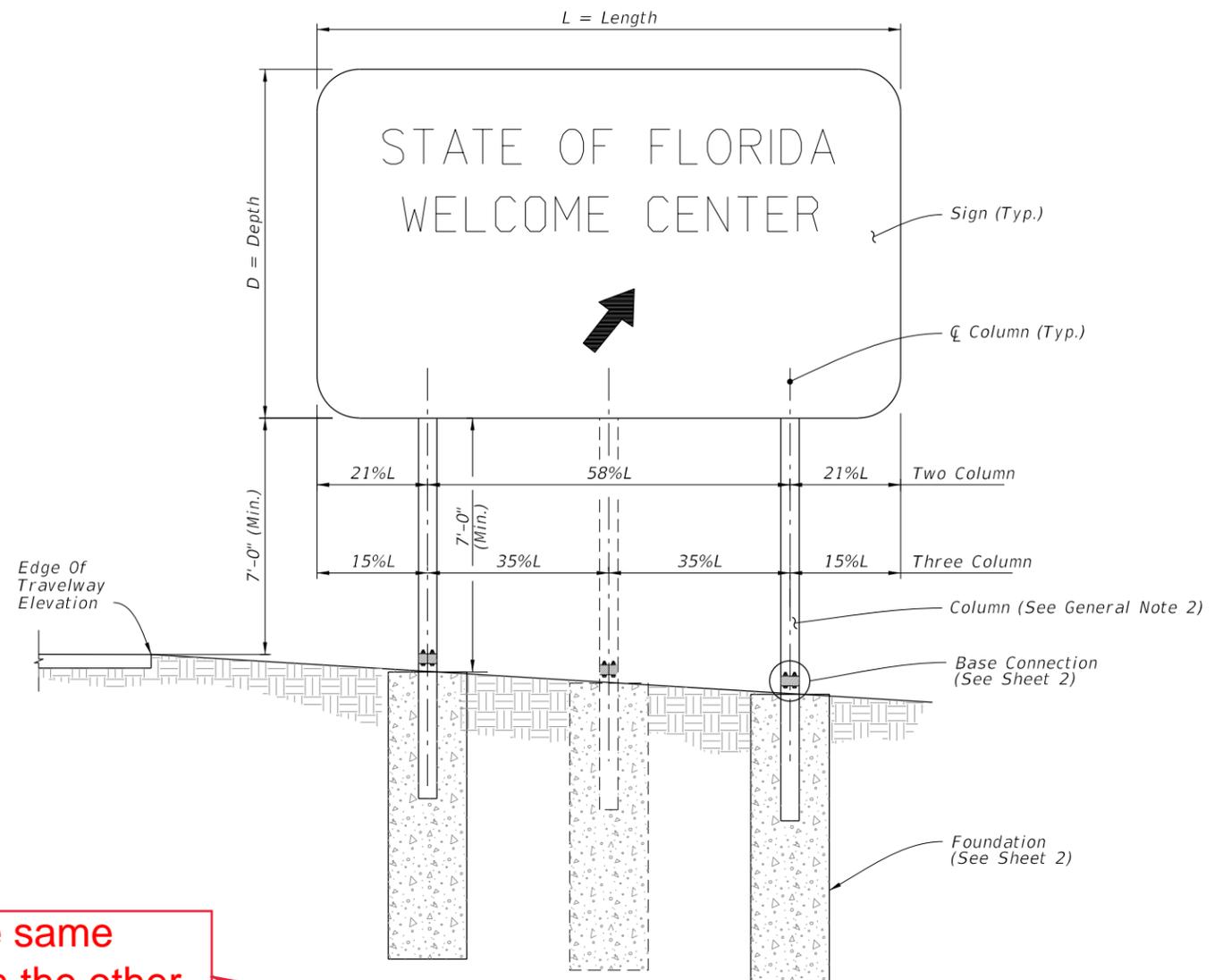
- | | |
|-------------------------------------|----------------------------------|
| <input type="checkbox"/> | Design Bulletin (Interim) |
| <input type="checkbox"/> | DCE Memo |
| <input type="checkbox"/> | Program Mgmt. Bulletin |
| <input checked="" type="checkbox"/> | FY-Standard Plans (Next Release) |

Contact the Roadway Design Office for assistance in completing this form

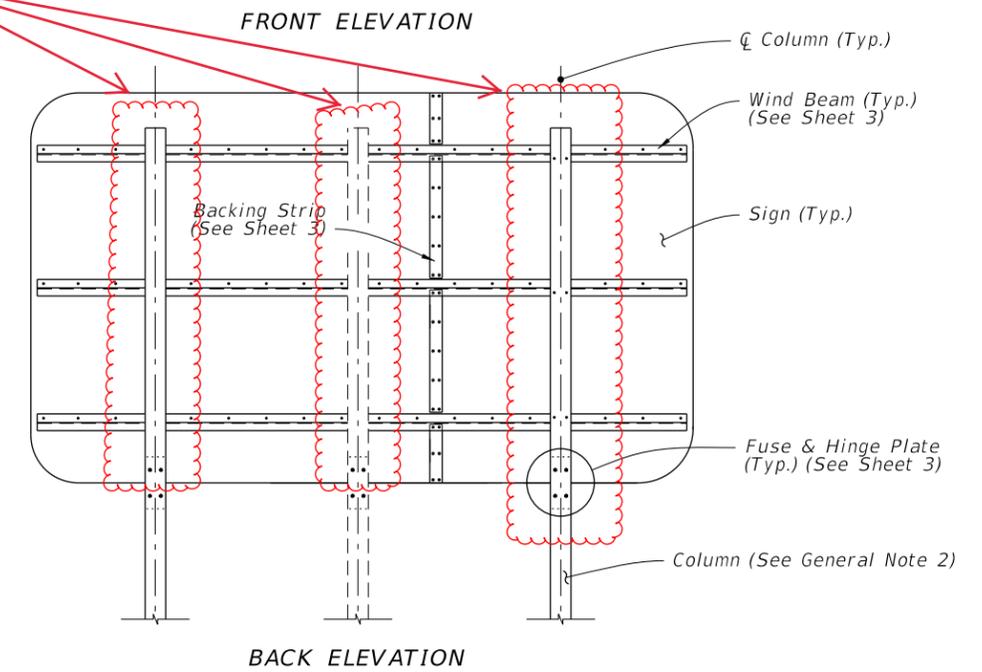
Email to: Rick Jenkins rick.jenkins@dot.state.fl.us and Darren Martin darren.martin@dot.state.fl.us

GENERAL NOTES:

1. Meet the requirements of Specification 700.
2. Verify Column lengths in the field prior to fabrication.
3. Shop drawings:
 - A. Sign Support Shop drawings are not required when fabricated in accordance with this Index and support columns do not exceed the length shown in the plans by more than 2'-0".
 - B. Sign Panels: Horizontal panel splices are allowed at interior wind beams for sign panels with a depth ("D") greater than 10 feet. Shop drawings required for horizontal panel splice details.
 - C. When shop drawings are required, obtain approval prior to fabrication.



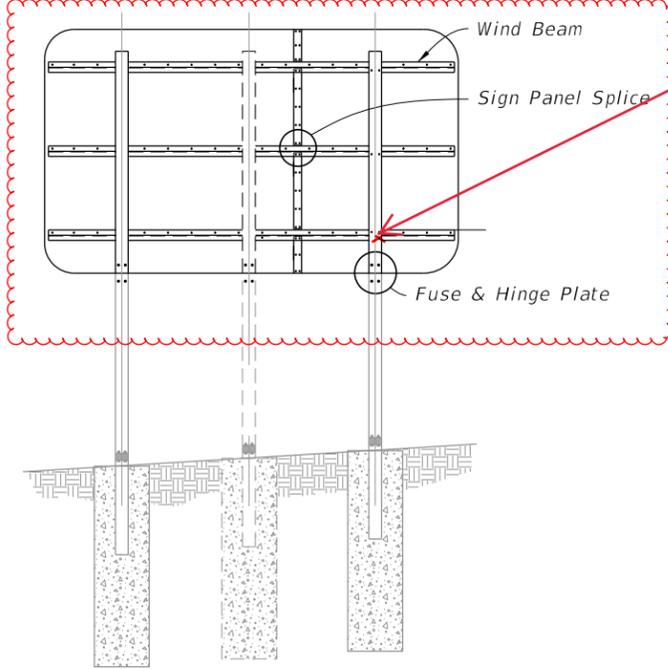
Show the same bolting on the other wind hanger beams



FRONT ELEVATION
BACK ELEVATION
MULTI-COLUMN SIGN ASSEMBLY

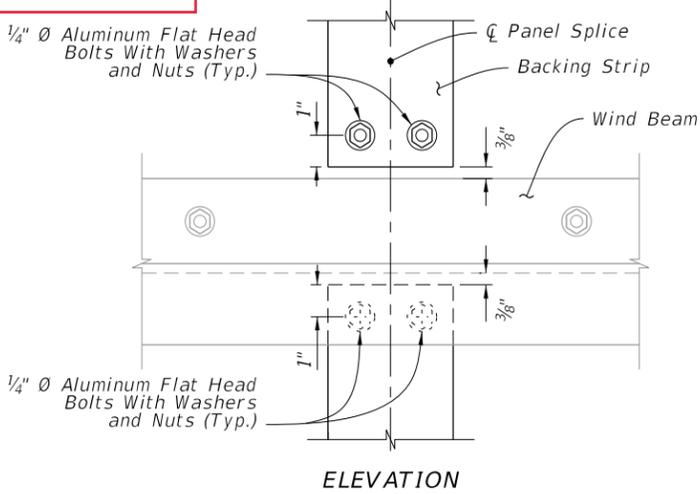
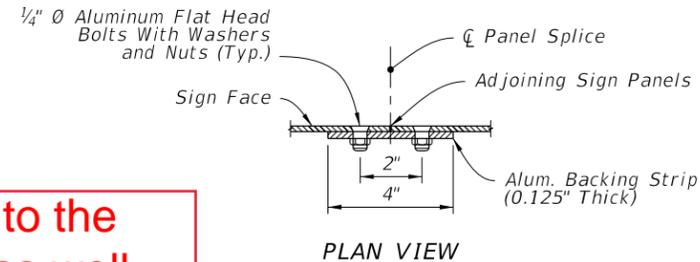
10/13/2022 9:26:07 AM

LAST REVISION 11/01/22	REVISION	DESCRIPTION:	 FY 2023-24 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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Only 2 bolts per intersection

Add the bolts to the other beams as well

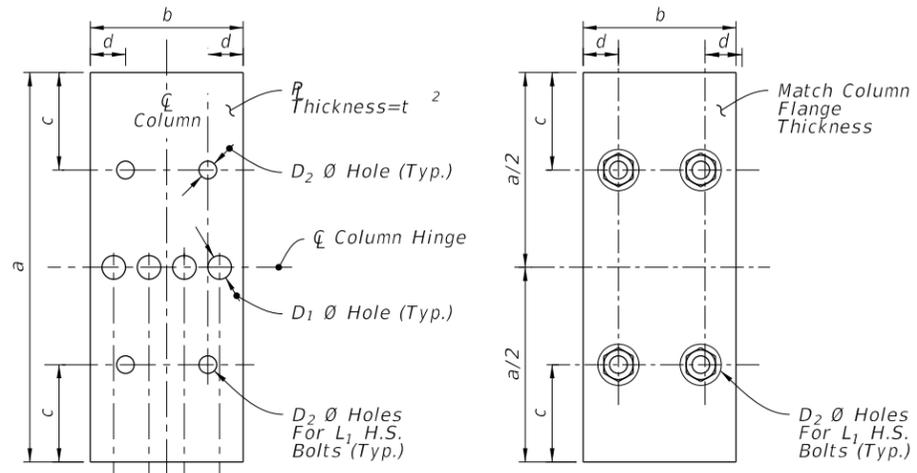


SIGN PANEL SPLICE

FUSE (HINGE) PLATE DATA

Steel Section*	a	b	c	d	e	t ₂	D ₁	D ₂	L ₁
S 3x5.7	7-1/4"	2-3/8"	1-1/4"	1/2"	9/16"	3/8"	7/16"	9/16"	1/2"
W 6x12	7-1/4"	4"	1-1/4"	7/8"	15/16"	3/8"	13/16"	11/16"	5/8"
W 8x18	8-1/4"	5-1/4"	1-3/8"	1-1/8"	1-1/4"	3/8"	1"	13/16"	3/4"
W 8x24	8-1/4"	6-1/2"	1-3/8"	1-1/2"	1-1/2"	1/2"	1"	13/16"	3/4"
W 10x33	9-1/4"	8"	2"	1-3/4"	1-3/4"	5/8"	1-1/8"	1-1/16"	1"
W 12x45	11"	8"	2"	1-3/4"	1-3/4"	3/4"	1-5/16"	1-1/16"	1"

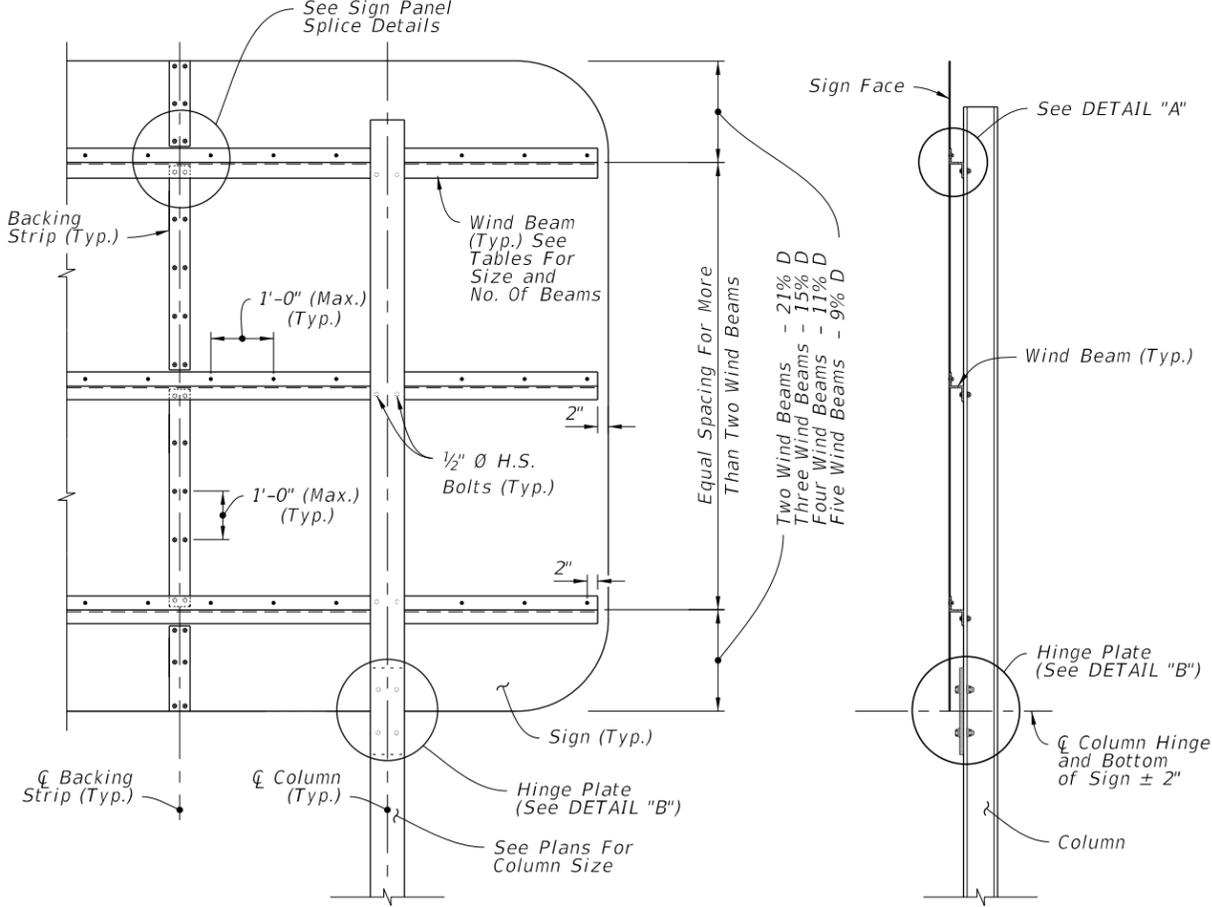
* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



FUSE PLATE

HINGE PLATE

BACK ELEVATION
MULTI-COLUMN SIGN ASSEMBLY



BACK ELEVATION

SIDE ELEVATION

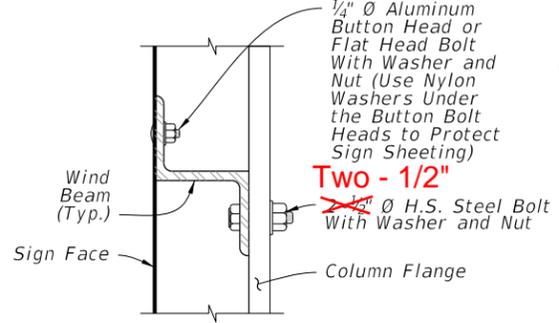
NUMBER OF WIND BEAMS BASED ON SIGN DEPTH (D)

2 Beams	3 Beams	4 Beams	5 Beams
D ≤ 8'	8' < D ≤ 12'	12' < D ≤ 16'	16' < D ≤ 20'

WIND BEAM SIZE BASED ON SIGN LENGTH (L)

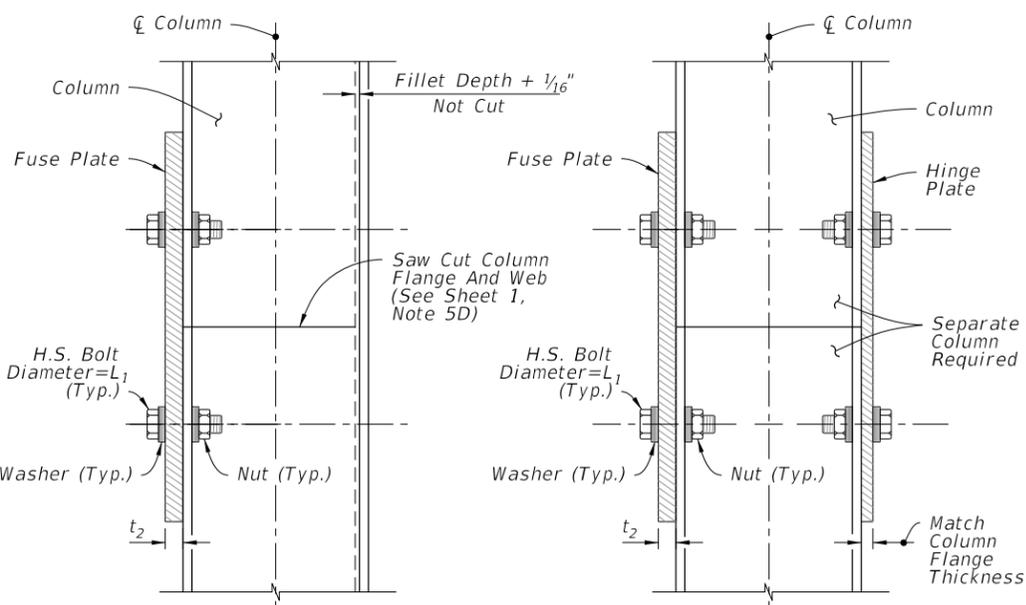
2 Columns	3 Columns	Aluminum Beam Size **
L ≤ 12'	L ≤ 18'	Z 1-3/4 x 1-3/4 x 1.09
12' < L ≤ 20'	18' < L ≤ 30'	Z 3 x 2-1/16 x 2.33
20' < L ≤ 25'	30' < L ≤ 39'	Z 4-1/16 x 3-1/8 x 3.57

**Designation gives (Member Depth in inches) x (Flange Width in inches) x (lb/ft)



DETAIL "A"

FUSE & HINGE PLATE



Side Elevation

TYPICAL HINGE

Side Elevation

OPTIONAL HINGE

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

LAST REVISION	DESCRIPTION:
11/01/22	



**FY 2023-24
STANDARD PLANS**

MULTI-COLUMN GROUND SIGN

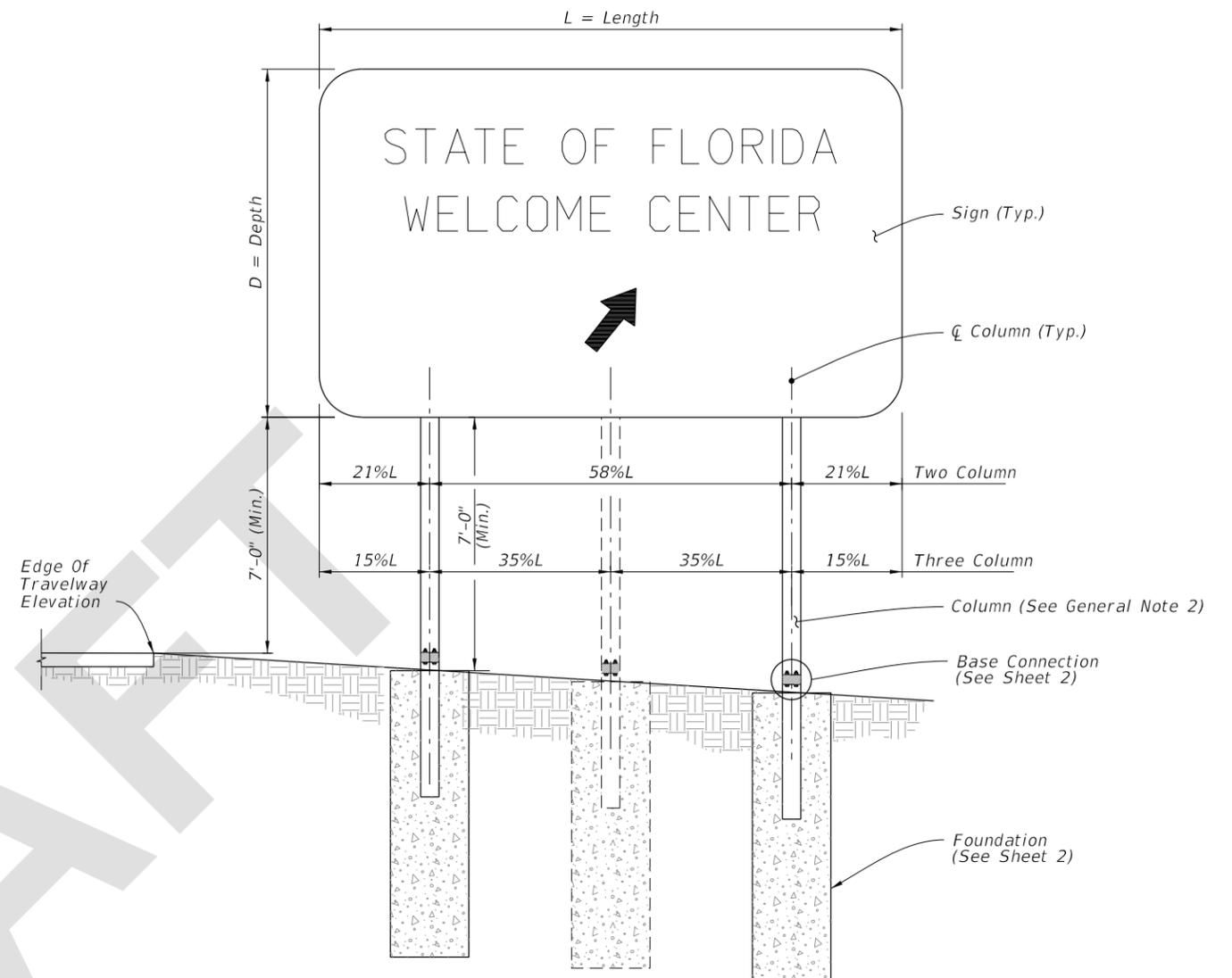
**INDEX
700-020**

**SHEET
3 of 3**

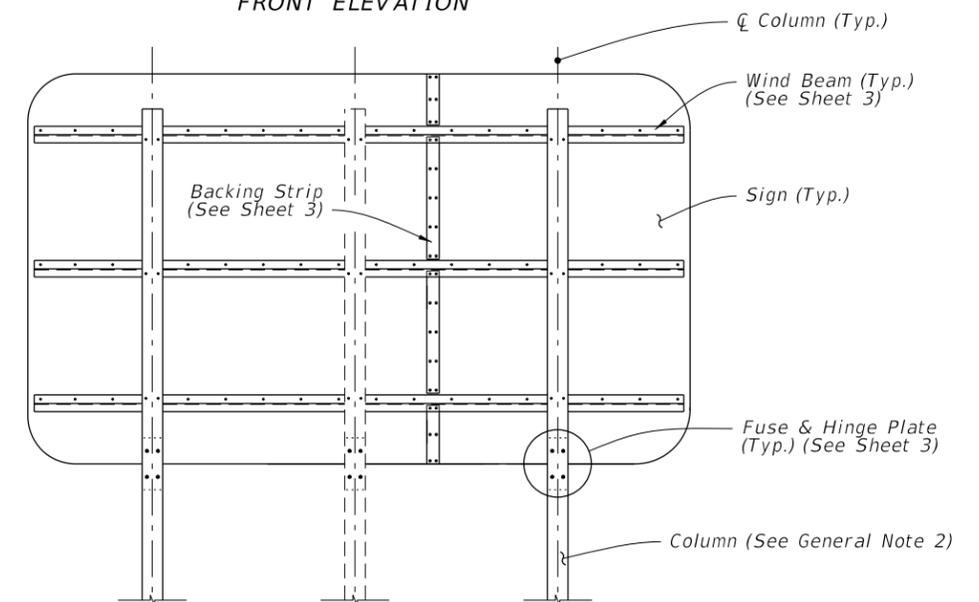
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GENERAL NOTES:

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FRONT ELEVATION

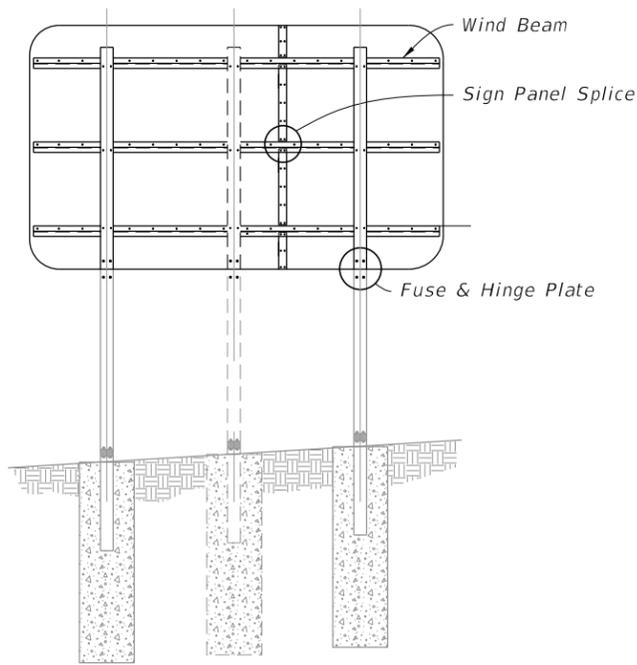


BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

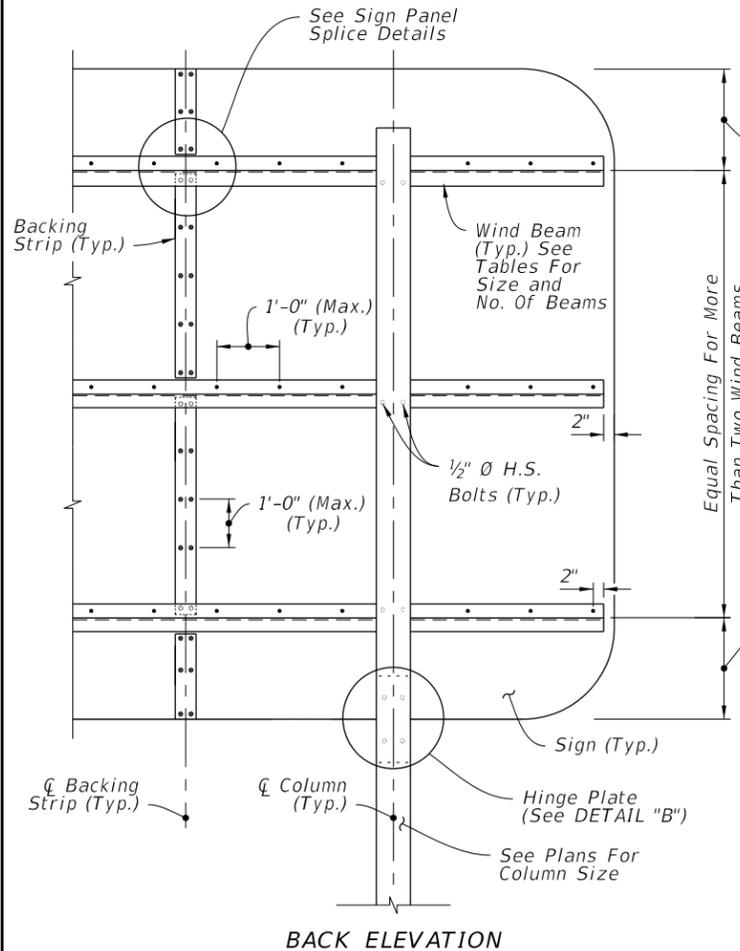
5/6/2023 3:44:27 PM

LAST REVISION 11/01/23	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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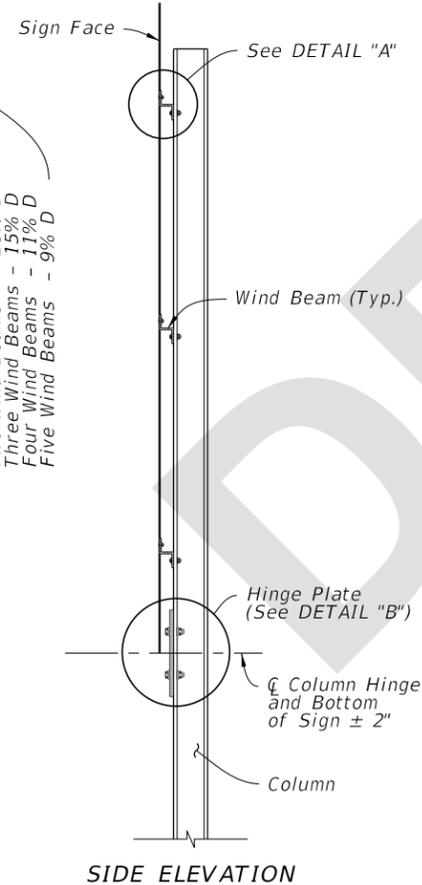
BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

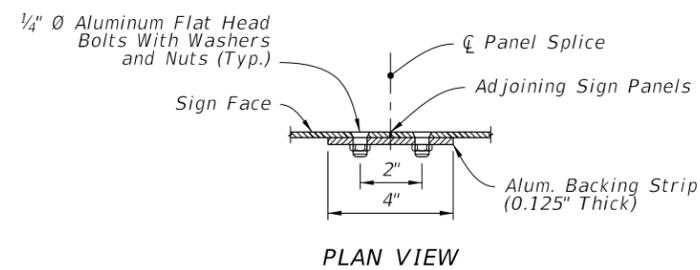


BACK ELEVATION

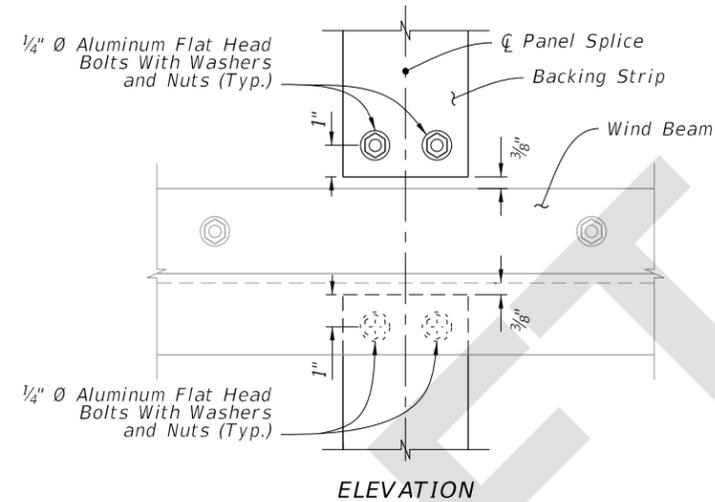
MULTI-COLUMN SIGN BACK PANEL



SIDE ELEVATION



PLAN VIEW



ELEVATION

SIGN PANEL SPLICE

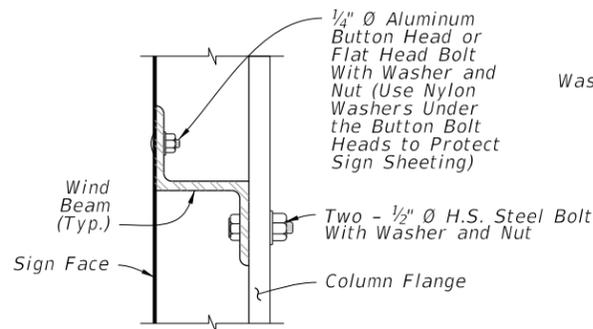
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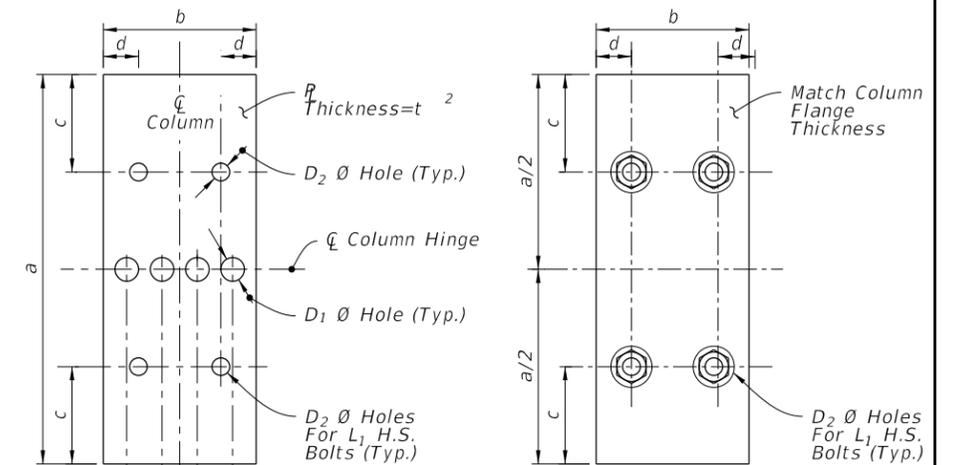


DETAIL "A"

FUSE (HINGE) PLATE DATA

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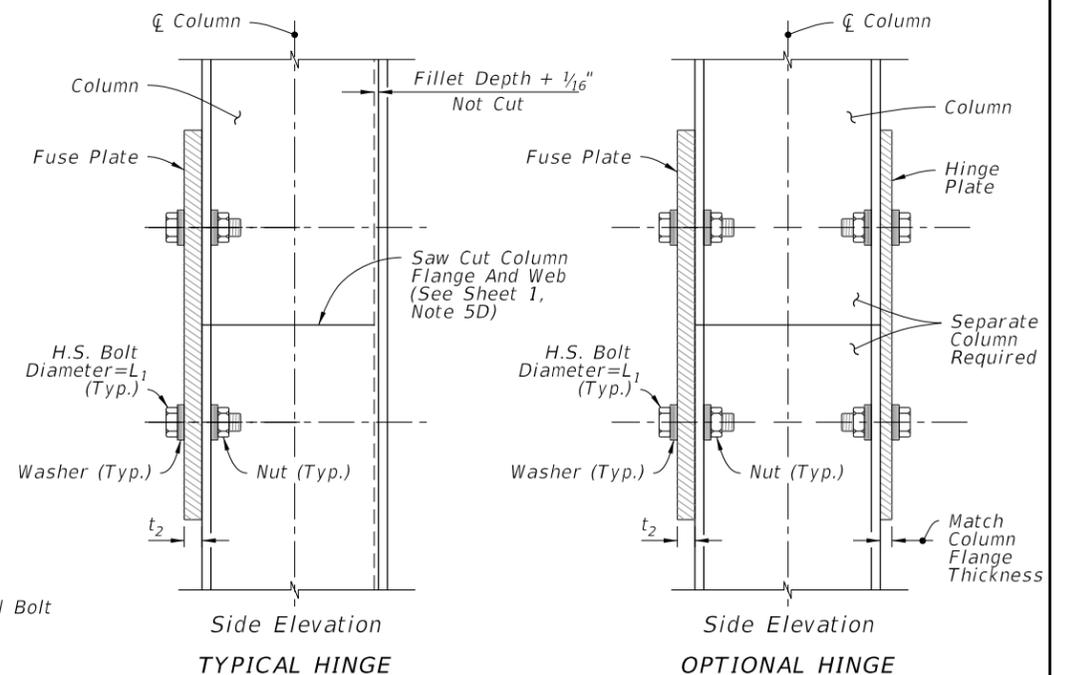
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FUSE PLATE

HINGE PLATE

FUSE & HINGE PLATE



Side Elevation
TYPICAL HINGE

Side Elevation
OPTIONAL HINGE

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

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LAST REVISION	DESCRIPTION:
11/01/23	