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## ORIGINATION FORM

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### Proposed Revisions to a Standard Plans Index

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

**Contact Information:**

Date: May 12, 2022

Originator: Rick Jenkins

Phone: (850) 414-4355

Email: Rick.Jenkins@dot.state.fl.us

**Standard Plans:**

Index Number: 700-020

Sheet Number (s): All of 3

Index Title: Multi-Column Ground Sign

**Summary of the changes:**

Sheet 1: Added New Note 1 - "Meet requirements of Specification 700."; Renumbered Notes; Deleted Notes 3 through 6; Moved Notes 5.C., 6.A second sentence, and 6.C to Sheet 2 Notes; Updated General Note references in the  
MULT-CULMN SIGN ASSEMBLY Detail.

Sheet 2: Updated Instruction Notes to "Base Connection Notes"; Added Note 3 from Sheet 1 - ". Assemble post to stub with base bolts and three flat washers per bolt (See Base Connection Details). Tighten base bolts in accordance with Note 2.", Note 4 - "Weld base plate to post and stub or if using the Alternate Connection Detail weld base plate and stiffeners to post and stub." and Note 5 - "Orient stub post according to direction of traffic."

Sheet 3: Deleted General Note reference in DETAIL "B".

**Commentary / Background:**

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.

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

Yes	No	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Other Standard Plans –
<input type="checkbox"/>	<input checked="" type="checkbox"/>	FDOT Design Manual – Dewayne Carver
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Basis of Estimates Manual – Ryan Gray
<input checked="" type="checkbox"/>	<input type="checkbox"/>	Standard Specifications – Daniel Strickland
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Approved Product List – Missy Hollis
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Construction – Jason Russell
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Maintenance – Deanna Hutchison

**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)

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Contact the Roadway Design Office for assistance in completing this form

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Email to: Rick Jenkins [rick.jenkins@dot.state.fl.us](mailto:rick.jenkins@dot.state.fl.us) and Darren Martin [darren.martin@dot.state.fl.us](mailto:darren.martin@dot.state.fl.us)

ADDED NEW NOTE 1: Meet the requirements of Specification 700.

1. GENERAL NOTES:

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.

3. Materials:

A. Sign Panel Mounting Materials:

- a. Aluminum Bars, and Extruded Shapes: ASTM B221, Alloy 6061-T6 or Alloy 6351-T5
- b. Aluminum Structural Shapes: ASTM B221, Alloy 6061-T6

B. Sign Support Structure Materials:

- a. Steel Plates and Structural Shapes: ASTM A36 or ASTM A709, Grade 36
- b. Steel Weld Metal: E70XX
- c. Shims: Brass ASTM B36 or Galvanized Steel

C. Aluminum Bolts, Nuts and Washers:

- a. Flat Head and Button Head Bolts: ASTM F 468, Alloy 2024-T4
- b. Hex Nuts: ASTM F467, 2024-T4
- c. Washers: ASTM B221, Alloy 2024-T4

D. Stainless Steel Bolts, Nuts and Washers Alloy Group 2, Condition A, may be substituted for the Aluminum bolts as follows:

- a. Bolts: ASTM F593, CW1 or SH1
- b. Nuts: ASTM F594,

E. High Strength (H.S.) Steel Bolts, Nuts and Washers:

- a. Galvanized Hex Head Bolts: ASTM F3125, Grade A325, Type 1
- b. Galvanized Nuts: ASTM A563 Hex, Grade DH
- c. Galvanized Washers: ASTM F436

F. Concrete: Class I.

G. Reinforcing Bars or Welded Wire Reinforcement (WWR): Specification 415

4. Coatings:

- A. Aluminum Fasteners: Anodic coating (0.0002 inches min.) and chromate sealed
- B. Galvanize High Strength Steel Bolts Nuts and Washers: ASTM F2329
- C. Galvanize all other steel items (excluding stainless steel); Hot-dip ASTM A123
- D. Treat damaged galvanizing in accordance with Specification 562

5. Fabrication:

- A. All Base Connections and Stub Column materials are steel unless otherwise specified.
- B. Drill or sub punch and ream holes in Fuse Plates and Hinge Plates
- C. Weld Base Plate to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub (Sheet 2)
- D. Hot dip galvanize after fabrication. Remove all drips, runs or beads on base plate within washer contact areas (Including saw cuts)

6. Construction:

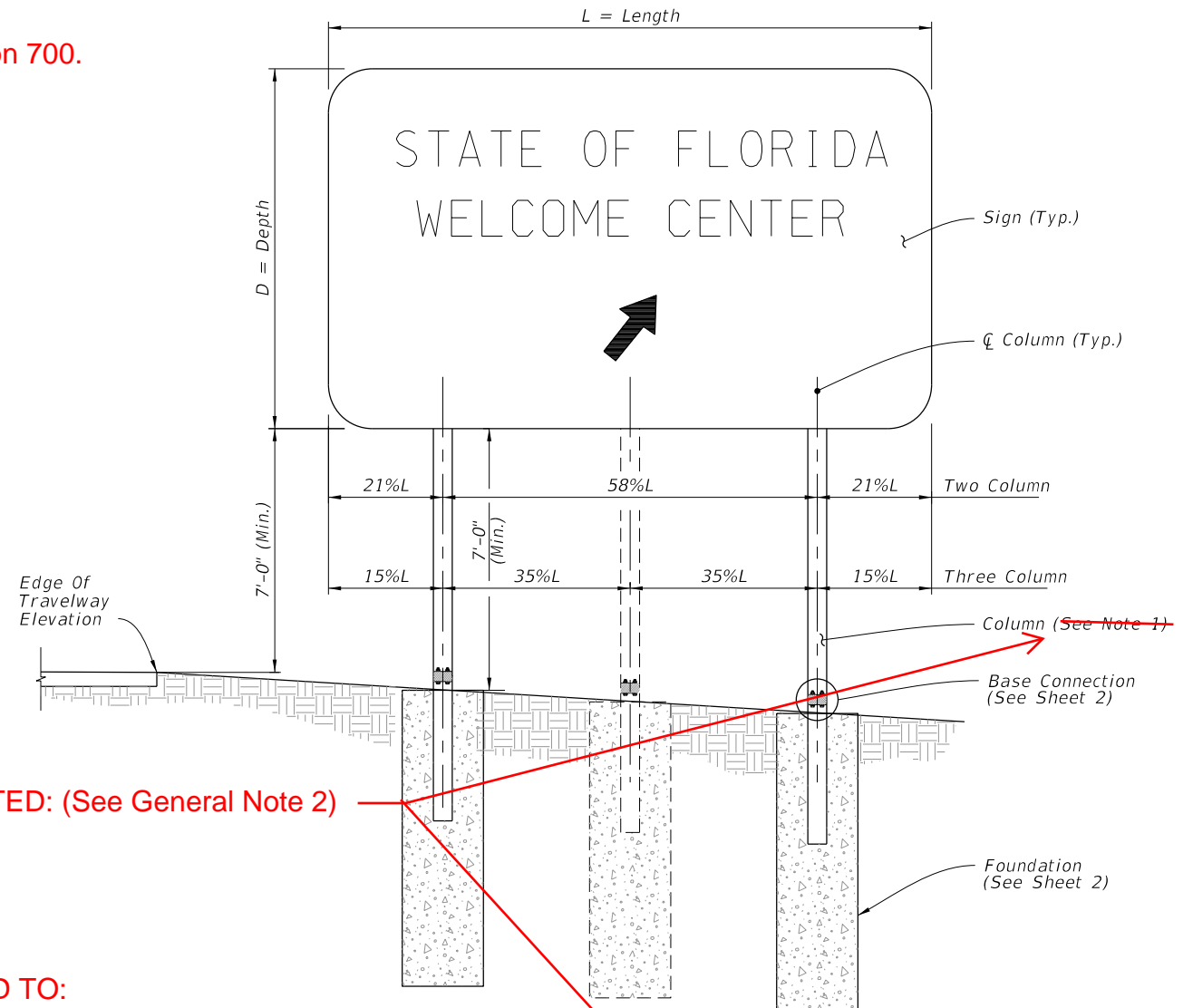
- A. Install the Sign Structure foundation in accordance with Specification 455. Orient Stub Post according to direction of traffic (Sheet 2)
- B. Tighten all high strength bolts except Base Bolts in accordance with Specification 700.
- C. Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details, Sheet 2). Tighten Base Bolts in accordance with Instructions Notes on Sheet 2.

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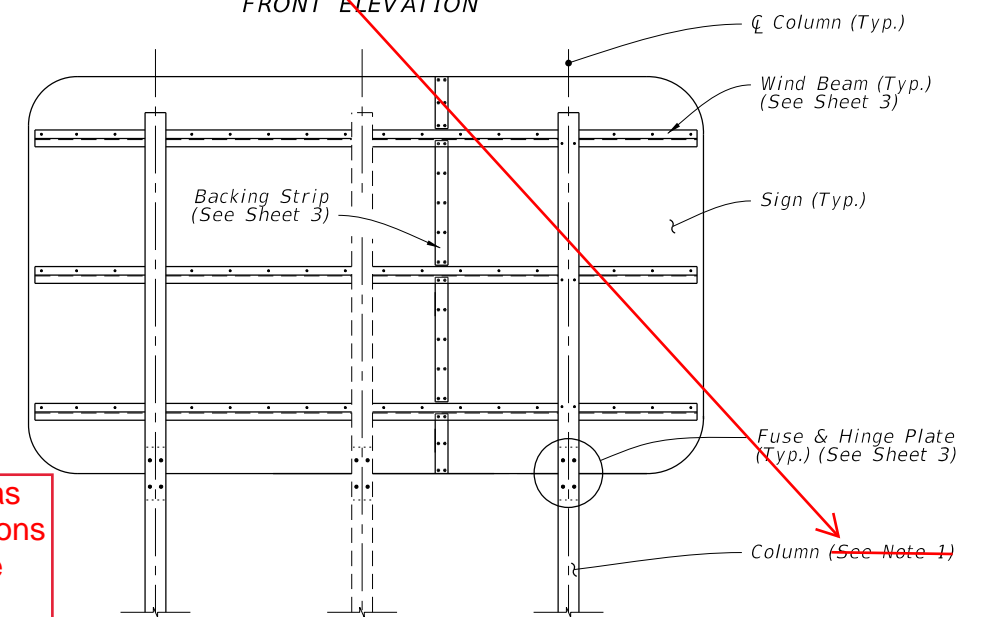
MOVED TO: Specification 700-3.2.5

MOVED TO: Sheet 2

GENERAL COMMENT: Some material and fabrication information was deleted. Information is either already covered in Standard Specifications OR will be added to Section 700, 962 or 965 in conjunction with these revisions.




FRONT ELEVATION



BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

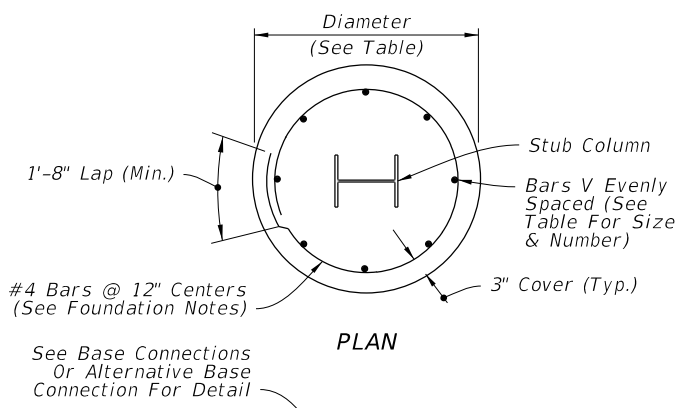
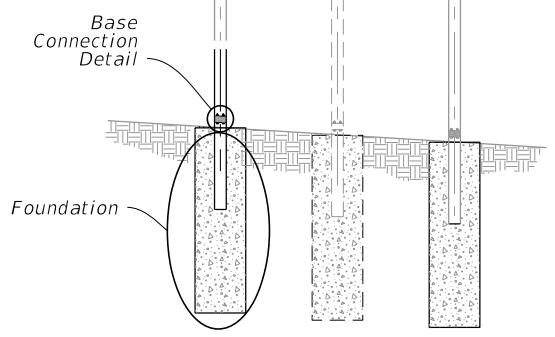
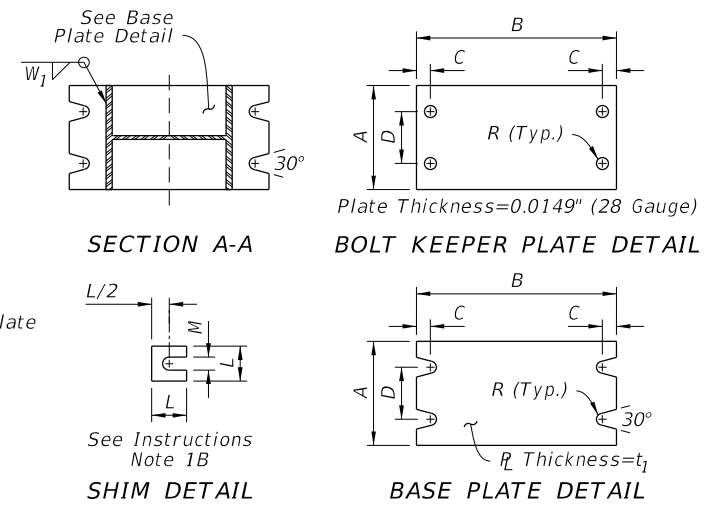
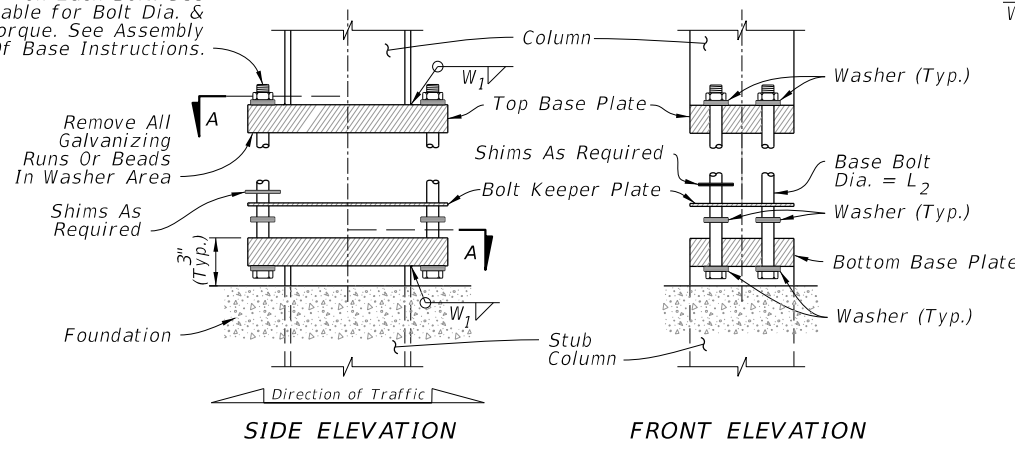
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LAST REVISION	11/01/20	DESCRIPTION:	11/01/22	 FY 2022-23 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 1 of 3
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STATE OF FLORIDA  
WELCOME CENTER

FOUNDATION DATA				
Steel Post & Stub Section*	Dia.	Depth	Stub Column Length	Reinf. Bars V
S 3x5.7	2'-0"	4'-0"	3'-0"	10-#6
W 6x12	2'-0"	6'-0"	3'-0"	10-#6
W 8x18	2'-4"	7'-6"	4'-0"	8-#8
W 8x24	2'-4"	8'-6"	4'-0"	8-#8
W 10x33	2'-4"	10'-3"	4'-0"	8-#8
W 12x45	2'-8"	11'-3"	5'-0"	10-#8

H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



Steel Post & Stub Section*	BASE CONNECTION DATA								SHIM		
	A	B	C	D	R	$t_1$	$L_2$	$W_1$	Torque (lbf*in)	L	M
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	1-1/4"	9/16"
W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	1-3/8"	11/16"
W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	1-3/4"	13/16"
W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	2-1/8"	13/16"
W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	2-3/8"	1-1/16"
W 12x45	10"	18"	1-1/4"	6"	9/16"	2"	1"	1/2"	580 ± 90	2-3/4"	1-1/16"

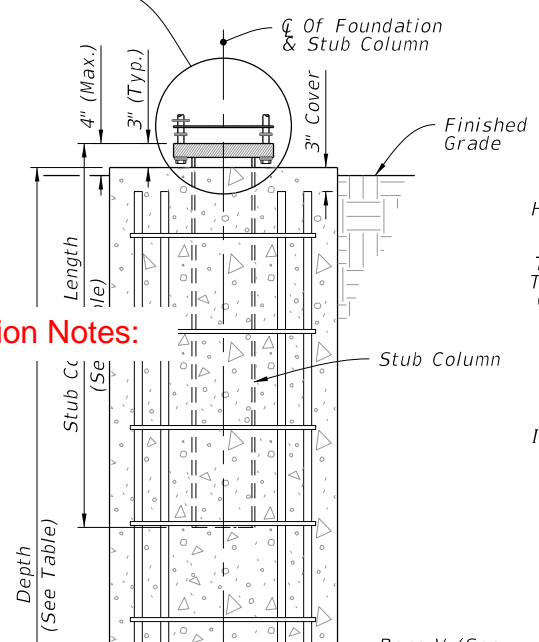
\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

**MULTI-COLUMN SIGN ASSEMBLY**

**FOUNDATION NOTES:**

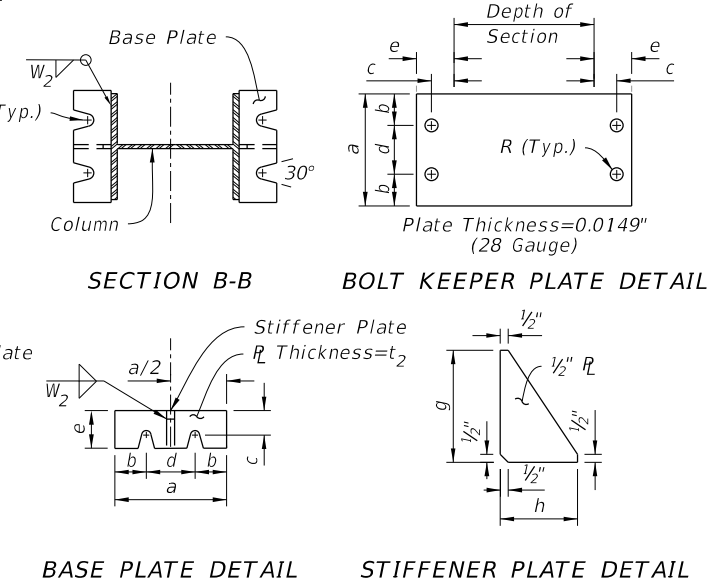
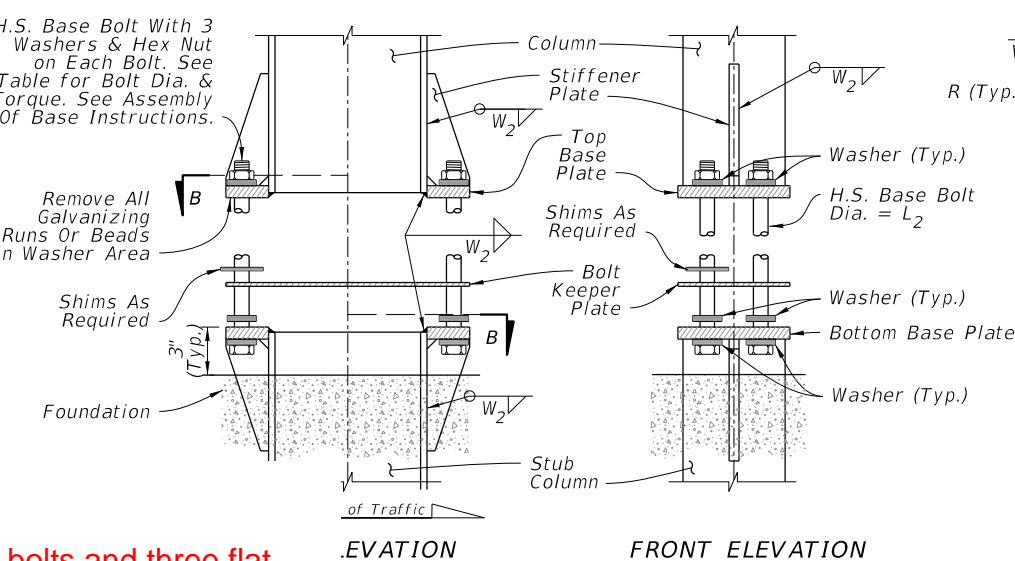
The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.

At the Contractors option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification 415.



ADDED NOTES 3, 4, AND 5:

H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



**UPDATED: Base Connection Notes:**

**INSTRUCTIONS NOTES:**

- Assembly of Base Instructions:
  - Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
  - Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) shims per column.
- H.S. Base Bolt  $L_2$  Tightening Instructions:
  - Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
  - Loosen each Base Bolt one turn.
  - Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
  - Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.

- Assemble post to stub with base bolts and three flat washers per bolt (See Base Connection Details). Tighten base bolts in accordance with Note 2.
- Weld base plate to post and stub or if using the Alternate Connection Detail weld base plate and stiffeners to post and stub.
- Orient stub post according to direction of traffic.

Steel Post & Stub Section*	ALTERNATIVE BASE CONNECTION DATA									
	a	b	c	d	e	$t_2$	$L_2$	R	Torque (lbf*in)	$W_2$
x12	4-3/4"	1-1/8"	1-3/16"	2-1/2"	2"	1/2"	5/8"	3/8"	270±45	5-1/8"
x18	5-3/4"	1-1/2"	1-3/8"	2-3/4"	2-3/16"	5/8"	3/4"	7/16"	445±75	6-1/4"
x24	7"	1-3/4"	1-3/8"	3-1/2"	2-3/8"	3/4"	3/4"	7/16"	445±75	8"
0x33	8"	2"	1-9/16"	4"	2-3/4"	3/4"	1"	9/16"	580±90	8"
2x45	8"	2"	1-9/16"	4"	3"	3/4"	1"	9/16"	580±90	8"

\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

**FOUNDATION**

**ALTERNATIVE BASE CONNECTION**

**FOUNDATION AND BASE CONNECTION DETAILS**

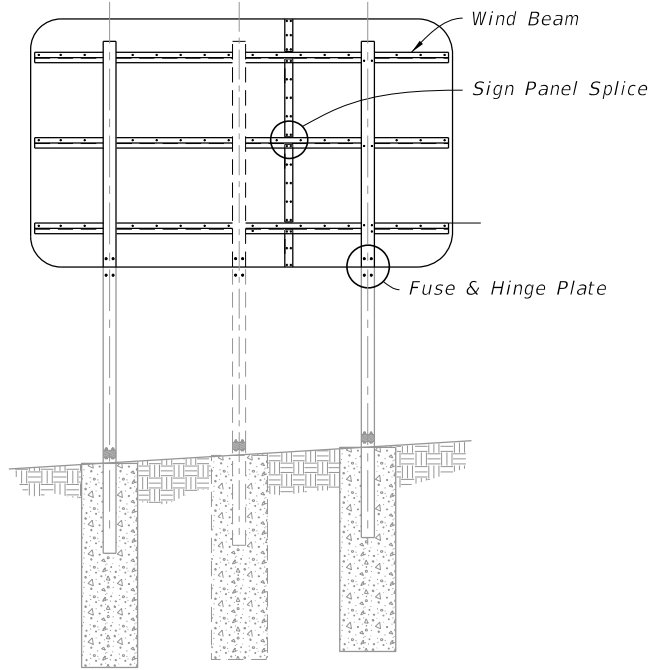
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LAST REVISION	DESCRIPTION:
11/01/21	11/01/22

FY 2022-23  
STANDARD PLANS

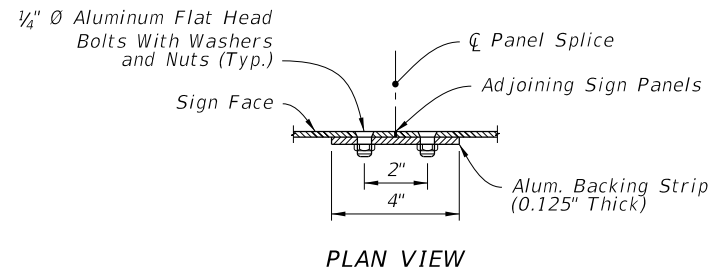
**MULTI-COLUMN GROUND SIGN**

INDEX	SHEET
700-020	2 of 3

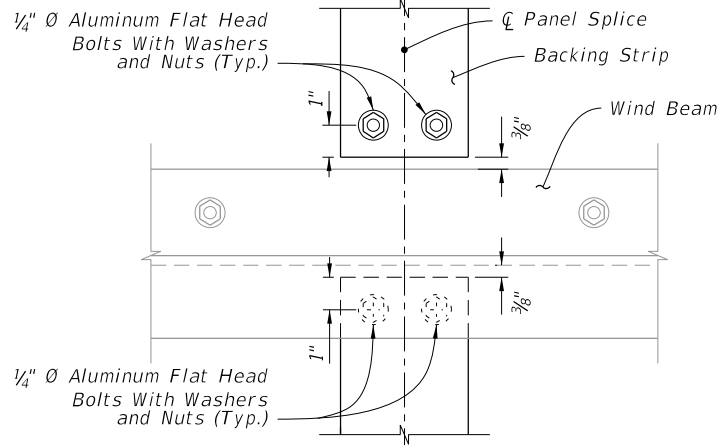


BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY



PLAN VIEW

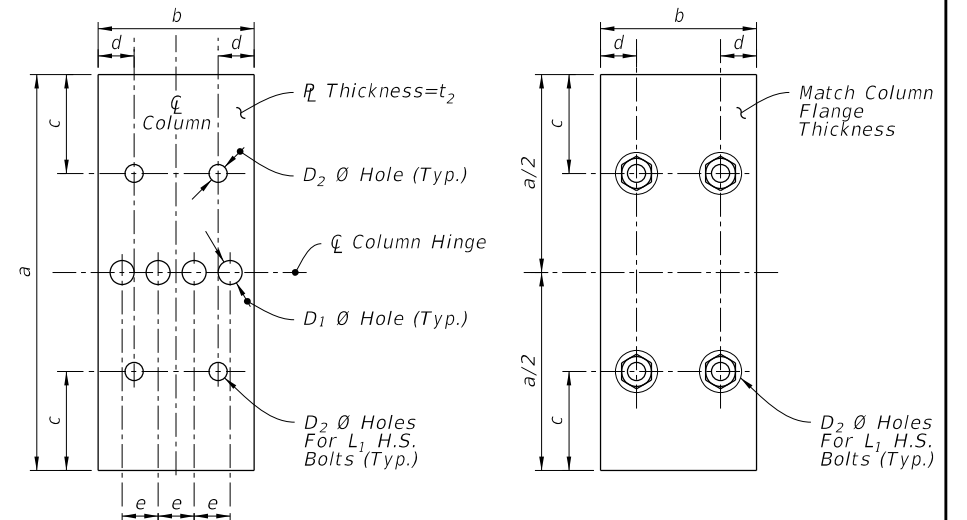


ELEVATION

SIGN PANEL SPLICE

FUSE (HINGE) PLATE DATA									
Steel Section*	a	b	c	d	e	t <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>
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"

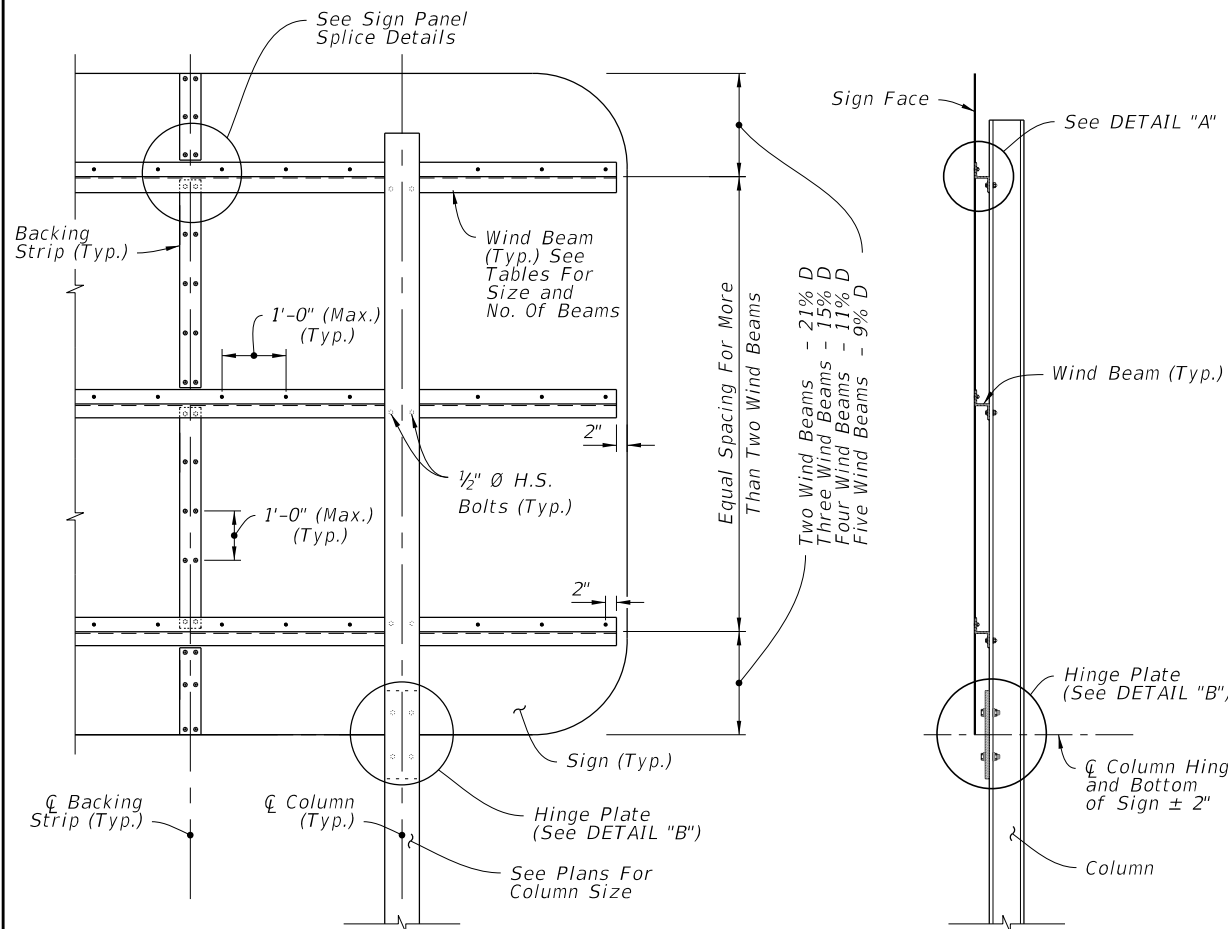
\* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



FUSE PLATE

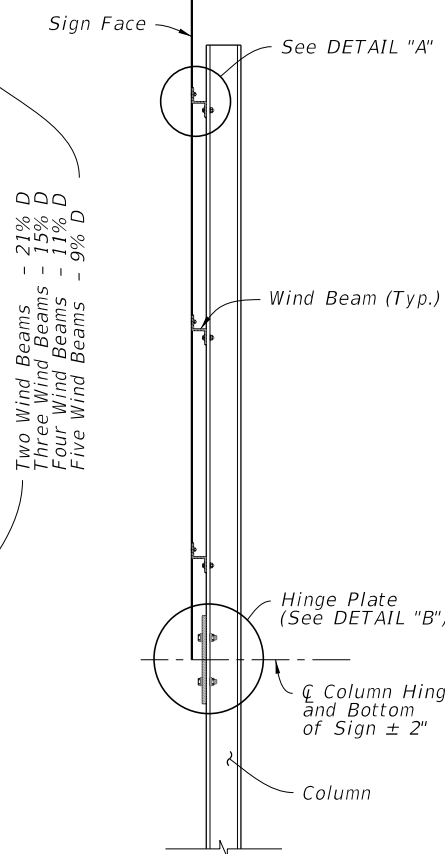
HINGE PLATE

FUSE & HINGE PLATE



BACK ELEVATION

MULTI-COLUMN SIGN BACK PANEL

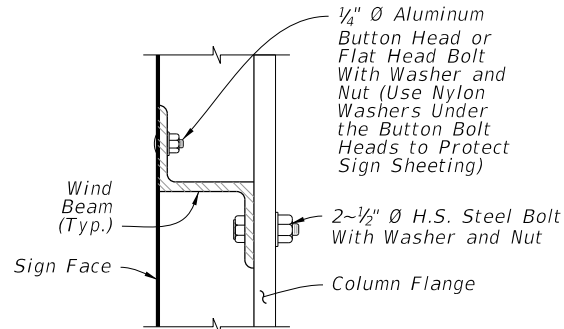


SIDE ELEVATION

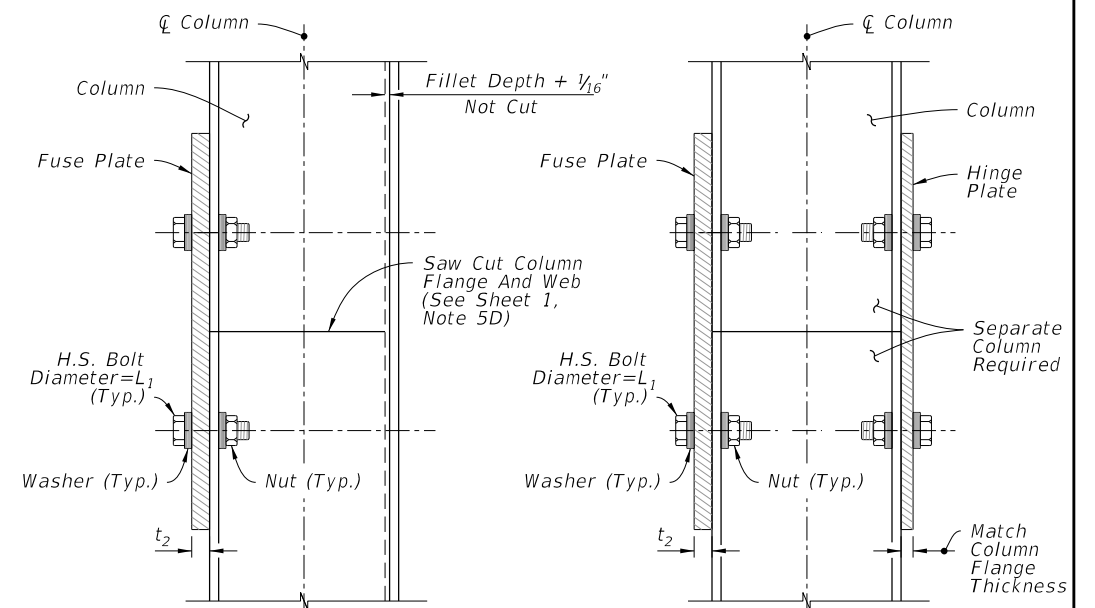
NUMBER OF WIND BEAMS BASED ON SIGN DEPTH (D)			
2 Beams	3 Beams	4 Beams	5 Beams
D ≤ 8'	8' < D ≤ 12'	12' < D ≤ 16'	16' < D ≤ 20'

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"



SIDE ELEVATION

SIDE ELEVATION

TYPICAL HINGE

OPTIONAL HINGE

DELETED (See Fabrication Notes on Sheet 1)

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

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LAST REVISION	DESCRIPTION:
11/01/18	REVISION
11/01/22	REVISION



FY 2022-23  
STANDARD PLANS

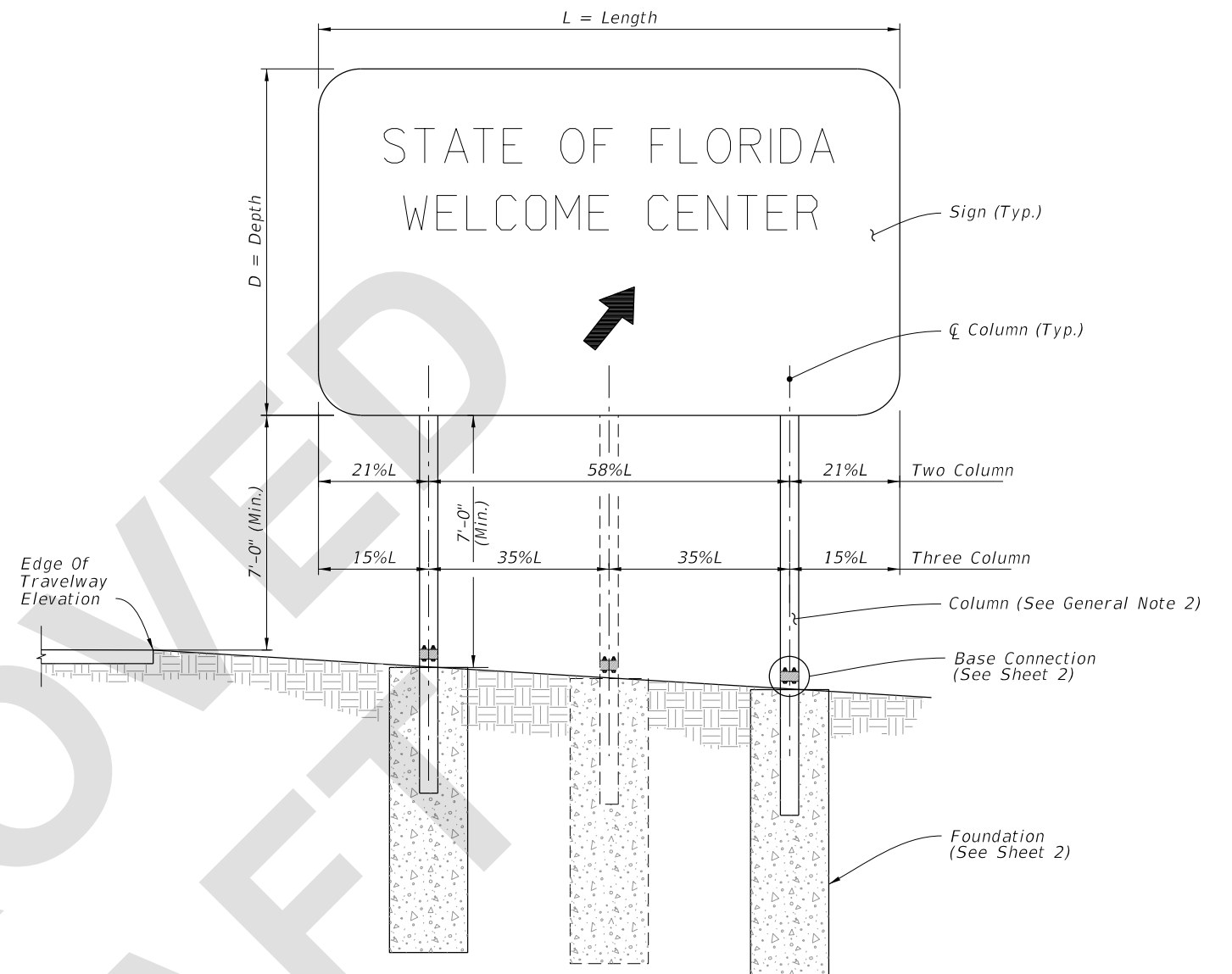
MULTI-COLUMN GROUND SIGN

INDEX  
700-020

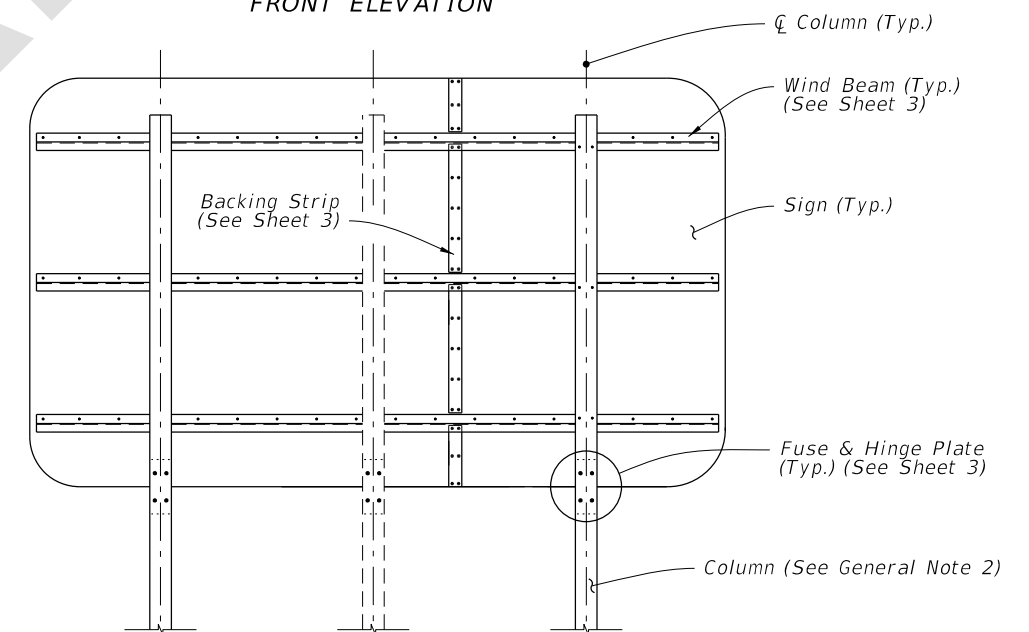
SHEET  
3 of 3

**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.



FRONT ELEVATION



BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

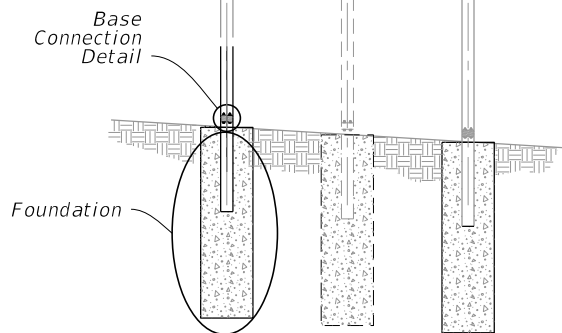
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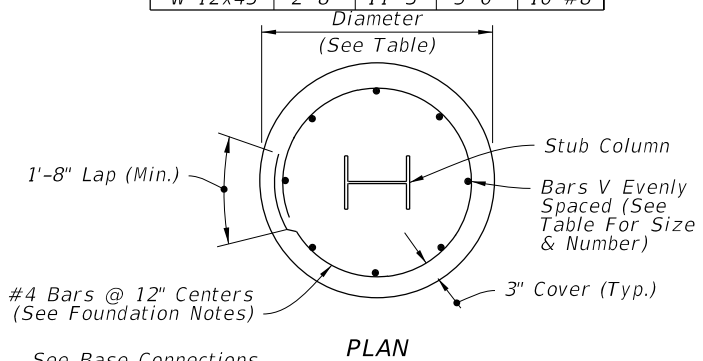
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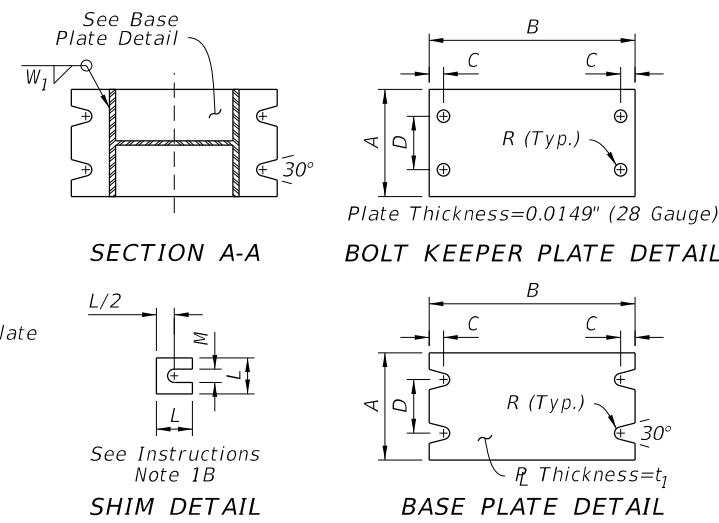
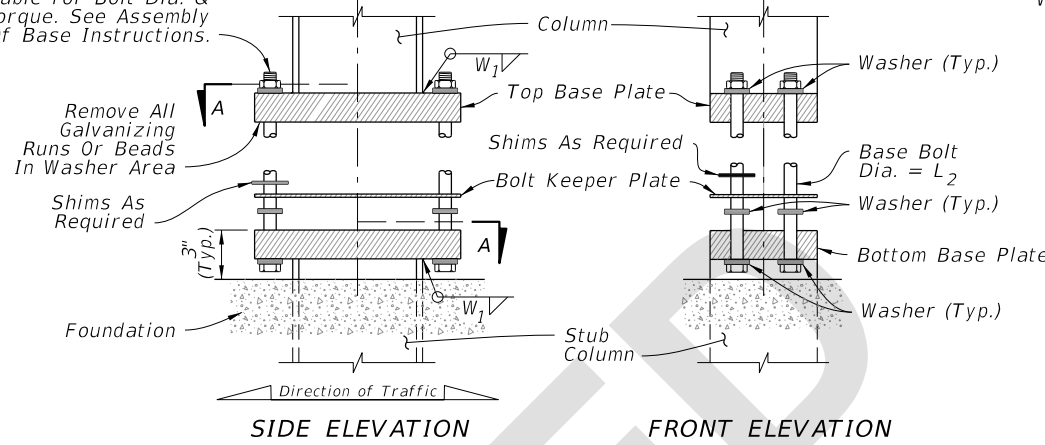
STATE OF FLORIDA  
WELCOME CENTER



FOUNDATION DATA				
Steel Post & Stub Section*	Dia.	Depth	Stub Column Length	Reinf. Bars V
S 3x5.7	2'-0"	4'-0"	3'-0"	10-#6
W 6x12	2'-0"	6'-0"	3'-0"	10-#6
W 8x18	2'-4"	7'-6"	4'-0"	8-#8
W 8x24	2'-4"	8'-6"	4'-0"	8-#8
W 10x33	2'-4"	10'-3"	4'-0"	8-#8
W 12x45	2'-8"	11'-3"	5'-0"	10-#8



H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



Steel Post & Stub Section*	BASE CONNECTION DATA								SHIM		
	A	B	C	D	R	t <sub>1</sub>	L <sub>2</sub>	W <sub>1</sub>	Torque (lbf*in)	L	M
S 3x5.7	4"	7"	3/4"	2"	5/16"	1"	1/2"	1/4"	90 ± 20	1-1/4"	9/16"
W 6x12	4"	10"	3/4"	2"	3/8"	1-5/8"	5/8"	1/4"	270 ± 45	1-3/8"	11/16"
W 8x18	5-1/4"	12-1/2"	7/8"	2-3/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	1-3/4"	13/16"
W 8x24	6-1/2"	12-1/2"	7/8"	3-1/4"	7/16"	1-3/4"	3/4"	3/8"	445 ± 75	2-1/8"	13/16"
W 10x33	8"	16"	1-1/4"	4-3/4"	9/16"	2"	1"	1/2"	580 ± 90	2-3/8"	1-1/16"
W 12x45	10"	18"	1-1/4"	6"	9/16"	2"	1"	1/2"	580 ± 90	2-3/4"	1-1/16"

\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

== MULTI-COLUMN SIGN ASSEMBLY ==

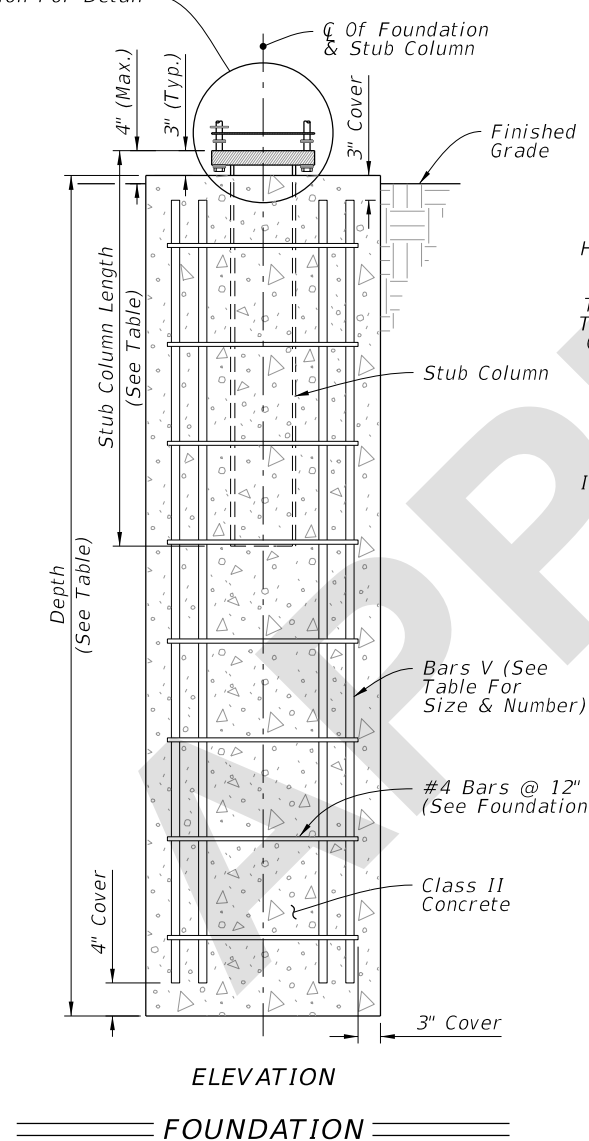
FOUNDATION NOTES:

The Contractor may use Welded Wire Reinforcement (WWR) for foundation reinforcing.

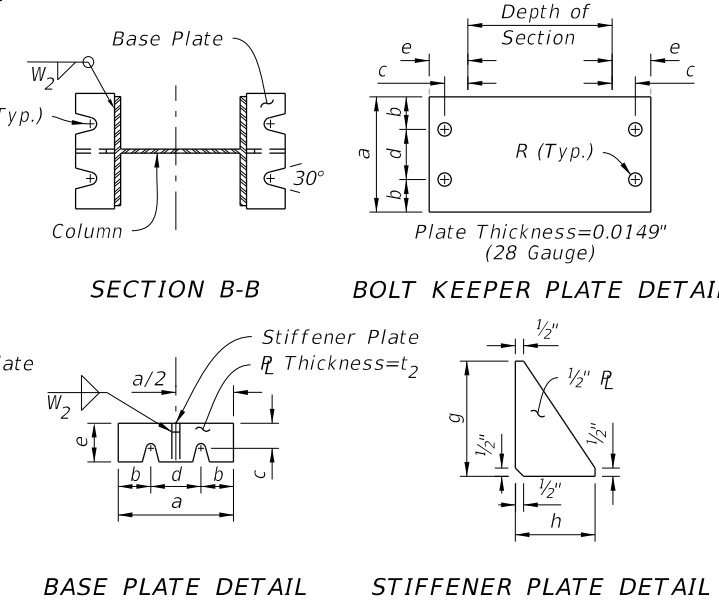
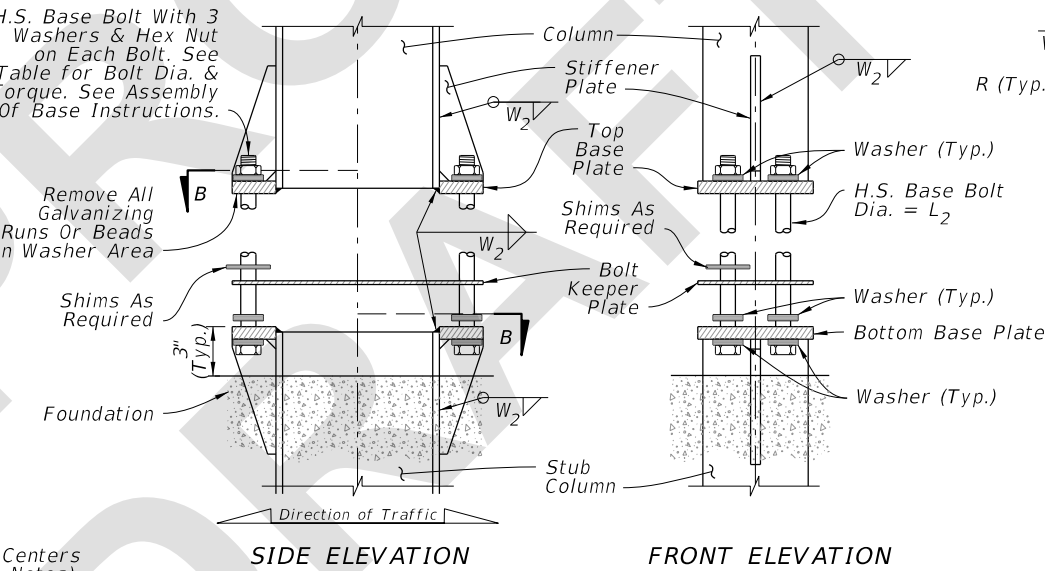
At the Contractors option, the #4 tie bars at 12" o.c. may be replaced by D10 Spiral Wire @ 6" pitch, with three flat turns at the top and one flat turn at the bottom in accordance with Specification 415.

BASE CONNECTION NOTES:

- Assembly of Base Instructions:
  - Place one washer on each Base Bolt between the Bottom Base Plate and the head of high strength Base Bolt; place the next washer between the Bottom Base Plate and the Bolt Keeper Plate; add the Top Base Plate section and place the third washer between the Top Base Plate and the Nut.
  - Shim as required to plumb column. Provide 2-0.0149" thick (28 gauge) and 2-0.0329" thick (21 gauge) shims per column.
- H.S. Base Bolt L Tightening Instructions:
  - Tighten Base Bolts to the maximum possible with a 12" to 15" wrench (this will bed the washers and shims and clear the bolt threads).
  - Loosen each Base Bolt one turn.
  - Under the supervision of the Engineer, use a calibrated wrench to tighten bolts to the torque prescribed in the Table. Over tightened Base Bolts will not be permitted.
  - Burr threads at junction with nut to prevent nut loosening. Treat damaged galvanizing.
- Assemble Post to Stub with Base Bolts and three flat washers per bolt (See Base Connection Details). Tighten Base Bolts in accordance with Instructions with Note 2.
- Weld Base Plate to Post & Stub or if using the Alternate Connection Detail weld Base Plate and Stiffeners to Post and Stub.
- Orient Stub Post according to direction of traffic.



H.S. Base Bolt With 3 Washers & Hex Nut on Each Bolt. See Table for Bolt Dia. & Torque. See Assembly Of Base Instructions.



ALTERNATIVE BASE CONNECTION DATA												
Steel Section*	a	b	c	d	e	t <sub>2</sub>	L <sub>2</sub>	R	Torque (lbf*in)	g	h	W <sub>2</sub>
W 6x12	4-3/4"	1-1/8"	1-3/16"	2-1/2"	2"	1/2"	5/8"	3/8"	270 ± 45	5-1/8"	2"	1/4"
W 8x18	5-3/4"	1-1/2"	1-3/8"	2-3/4"	2-3/16"	5/8"	3/4"	7/16"	445 ± 75	6-1/4"	2-3/16"	1/4"
W 8x24	7"	1-3/4"	1-3/8"	3-1/2"	2-3/8"	3/4"	3/4"	7/16"	445 ± 75	8"	2-3/8"	5/16"
W 10x33	8"	2"	1-9/16"	4"	2-3/4"	3/4"	1"	9/16"	580 ± 90	8"	2-3/4"	5/16"
W 12x45	8"	2"	1-9/16"	4"	3"	3/4"	1"	9/16"	580 ± 90	8"	3"	5/16"

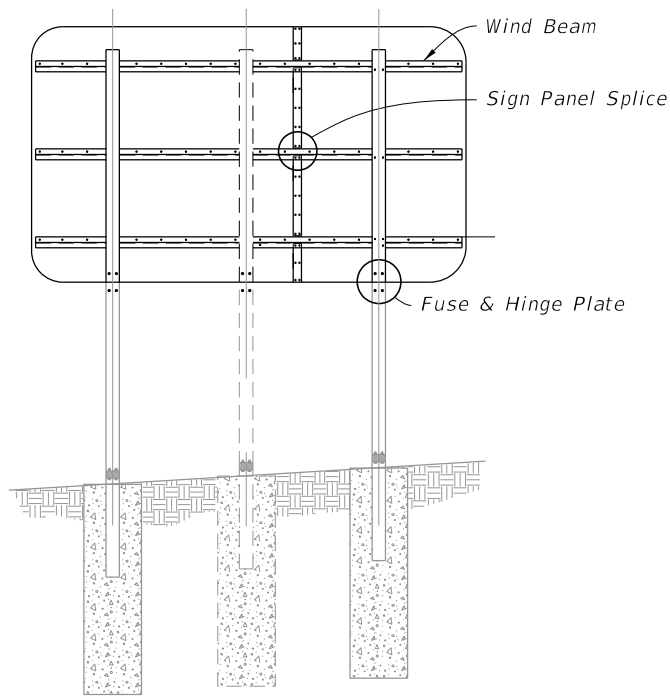
\* Designations: (Nominal Depth in inches) x (weight in pounds per linear foot).

== ALTERNATIVE BASE CONNECTION ==

FOUNDATION AND BASE CONNECTION DETAILS

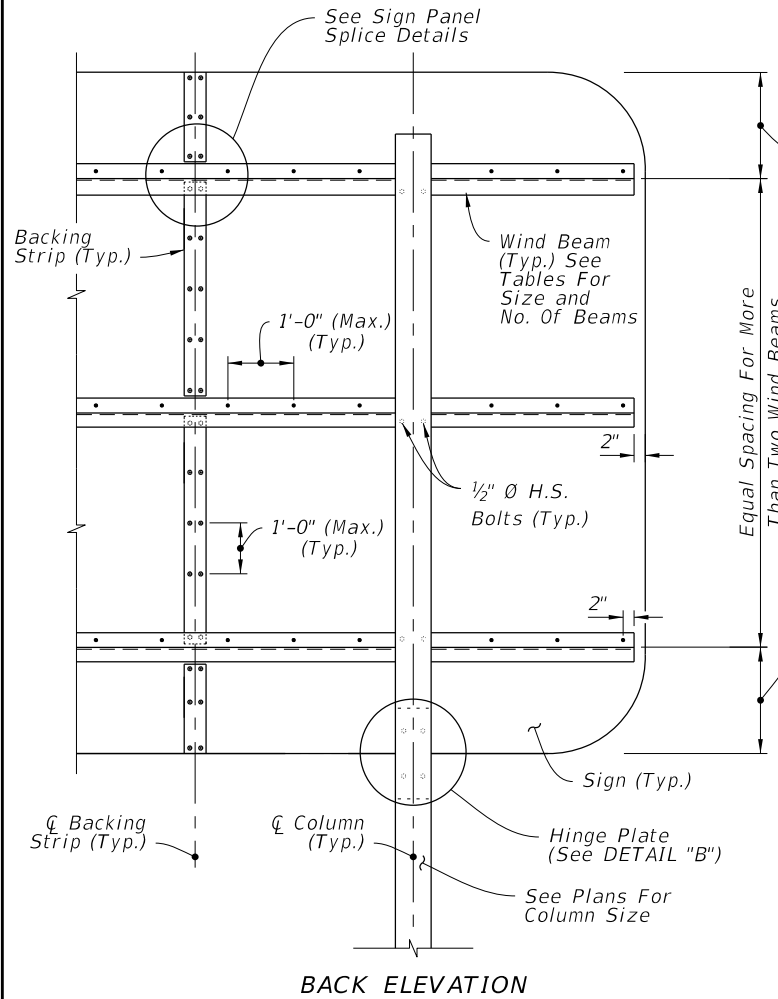
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LAST REVISION 11/01/22	DESCRIPTION:		FY 2023-24 STANDARD PLANS	MULTI-COLUMN GROUND SIGN	INDEX 700-020	SHEET 2 of 3



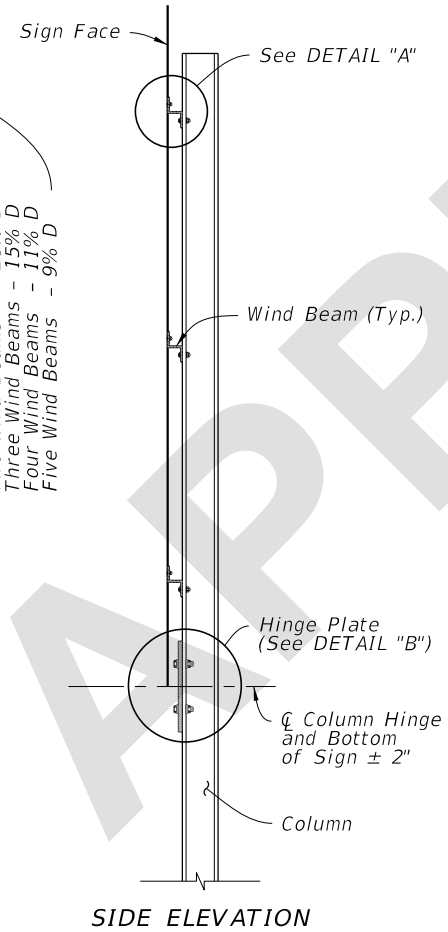
BACK ELEVATION

MULTI-COLUMN SIGN ASSEMBLY

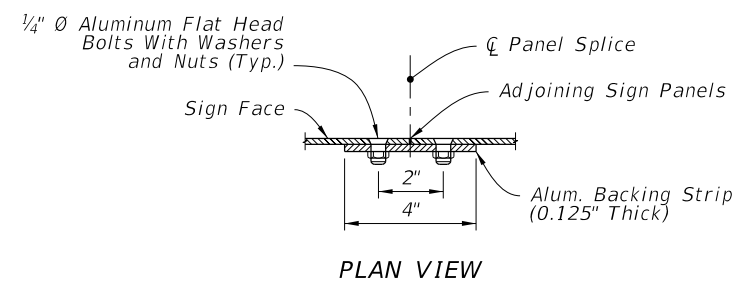


BACK ELEVATION

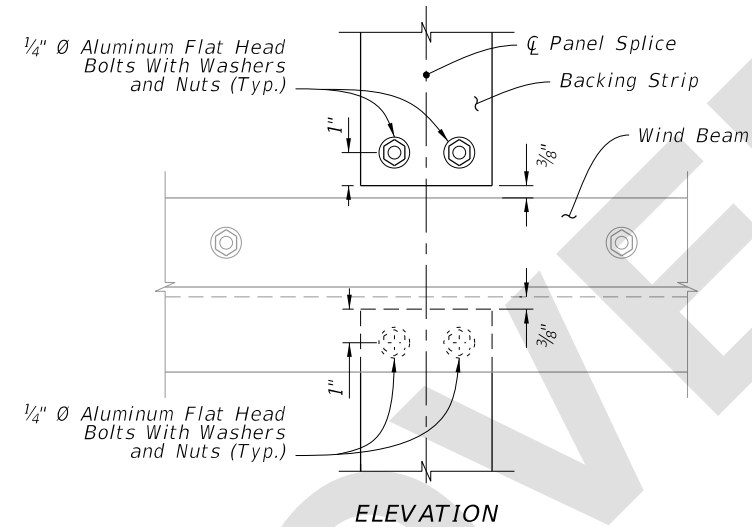
MULTI-COLUMN SIGN BACK PANEL



SIDE ELEVATION



PLAN VIEW



ELEVATION

SIGN PANEL SPLICE

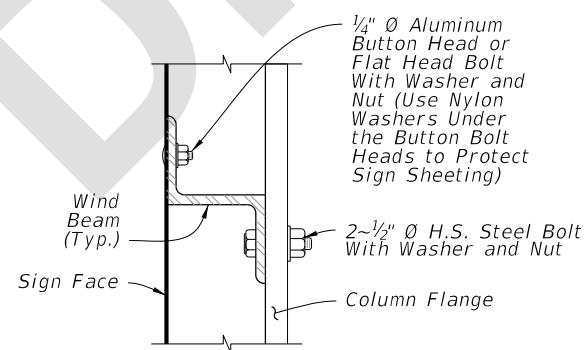
**NUMBER OF WIND BEAMS BASED ON SIGN DEPTH (D)**

2 Beams	3 Beams	4 Beams	5 Beams
$D \leq 8'$	$8' < D \leq 12'$	$12' < D \leq 16'$	$16' < D \leq 20'$

**WIND BEAM SIZE BASED ON SIGN LENGTH (L)**

2 Columns	3 Columns	Aluminum Beam Size **
$L \leq 12'$	$L \leq 18'$	Z 1-3/4 x 1-3/4 x 1.09
$12' < L \leq 20'$	$18' < L \leq 30'$	Z 3 x 2-1/16 x 2.33
$20' < L \leq 25'$	$30' < L \leq 39'$	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)

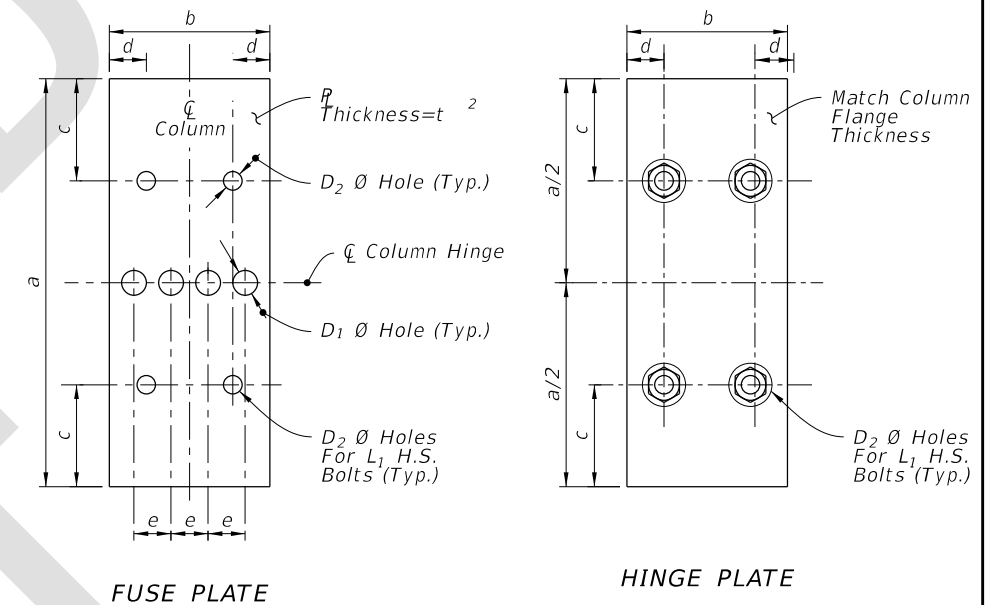


DETAIL "A"

**FUSE (HINGE) PLATE DATA**

Steel Section*	a	b	c	d	e	t <sub>2</sub>	D <sub>1</sub>	D <sub>2</sub>	L <sub>1</sub>
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"

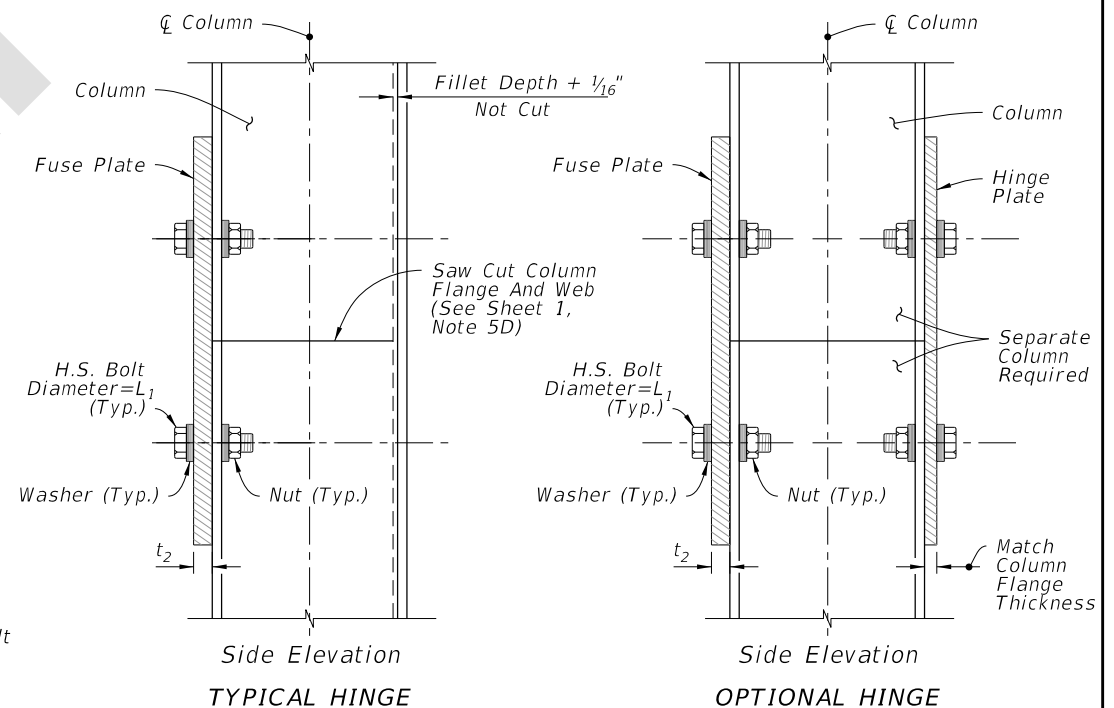
\* Designations: (Nominal Depth in inches) x (Weight in Pounds Per Linear Foot)



FUSE PLATE

HINGE PLATE

FUSE & HINGE PLATE



Side Elevation  
TYPICAL HINGE

Side Elevation  
OPTIONAL HINGE

DETAIL "B"

WIND BEAM, BACKING STRIP & FUSE/HINGE PLATE DETAILS

5/26/2022 9:02:32 AM

LAST REVISION	DESCRIPTION:
11/01/22	