
ORIGINATION FORM

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: 700-013

Sheet Number (s): All of 2

Index Title: Single Post Median Barrier Mounted Sign Support

Summary of the changes:

All Sheets: Renamed Index "Single Post Sign Support Barrier Top-Mounted".

Sheet 1: Updated Notes to General Notes; Added New Note 1 - "Meet the requirements of Specification 700."; Deleted Note 3; Moved Note 4 to Specification 962; Deleted Note 5; Renumbered Notes; Deleted Note 8; Added "or Traffic Railing" to the Concrete Barrier callouts in the ELEVATION detail.

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)

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 COMMENT: 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.

UPDATED: GENERAL NOTES:

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

NOTES:

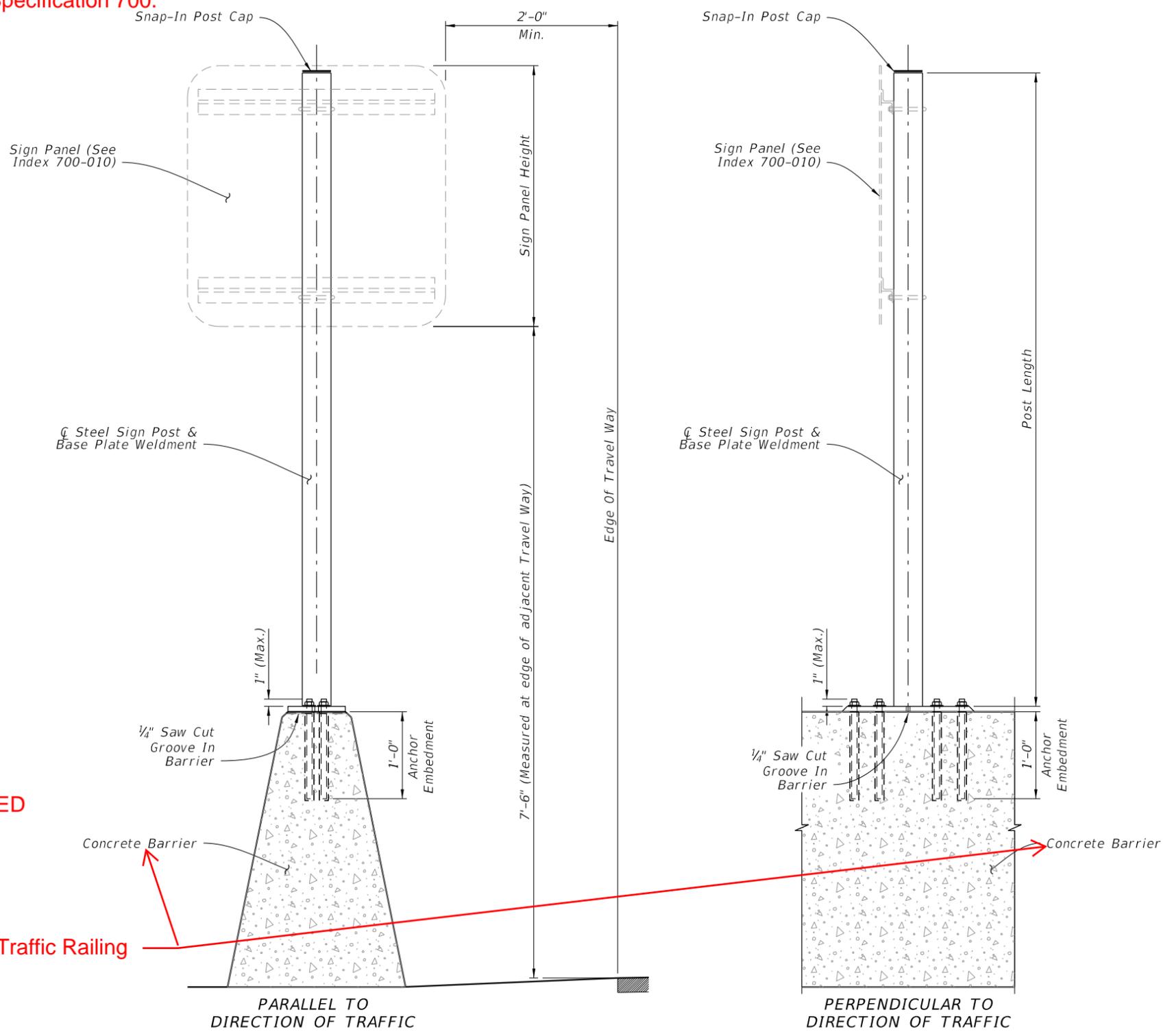
- ~~1.~~ Work with Index 700-010.
- ~~2.~~ Shop Drawings: Not required.
- ~~3.~~ **Materials:**
 - A. Steel Plate: ASTM A36 or ASTM A709 Grade 36
 - B. Steel Pipe (Support Post): ASTM A53 Grade B Schedule 40
 - C. Galvanized U-Bolts, Nuts and Plate Washer
 - a. U-Bolts: ASTM A449
 - b. Hex Nuts: ASTM A 563 Lock Nuts
 - c. Plate Washer: ASTM A 36 or ASTM A709 Grade 36 or 50
 - D. Galvanized Anchor Bolts, Nuts and Washers:
 - a. Anchor Rod: ASTM F1554 Grade 55 fully threaded (for Adhesive Anchors)
 - b. Anchor Bolts: ASTM F1554 Grade 55 Grade A Hex
 - c. Nuts: ASTM A563 Heavy Hex Locking
 - d. Washers: ASTM F436
 - E. Adhesive Anchor Bonding Material: Specification 937 Type HV Adhesive
 - F. Weld Material: E70XX
 - G. Snap-In Post Cap: UV and weather-resistant glass-filled polyester cap
- ~~4.~~ **Coating:**
 - A. U-Bolts, Threaded Rods, Nuts and Washers: ASTM F2329
 - B. Other Steel: ASTM A123
- ~~5.~~ **Fabrication:**
 - A. Weld: Specification 460-6.4
 - B. Hot dip galvanize after fabrication
- ~~6.~~ **Construction:**
 - A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement)
 - B. Base plate must be flush with top of Railing
 - C. Anchors in Traffic Railings:
 - a. Install Adhesive Anchors in accordance with Specification 416 except perform field test on one anchor per sign support location
 - b. Use template and tie anchors as necessary to maintain correct placement of C-I-P Embedded Anchors
 - c. Do not drill into existing reinforcing
 - D. Temporary Signs on Permanent Traffic Railings, Same as Permanent except field testing of anchors is not required
 - E. Temporary Signs on Temporary Railings/Barriers:
 - a. Install Sign Supports at the midpoint along the length of a single segment
 - b. Avoid drilling through existing reinforcing; use of metal detector not required.
 - c. Field testing of anchors is not required
- ~~7.~~ **Removal of Temporary Signs on Permanent Traffic Railings:**
 - A. Cut anchor rods flush with the top of the railing
 - B. Coat anchors with Type F-1 epoxy to prevent corrosion
 - a. Extend coating 2 inches beyond edge of cut anchor rods
 - b. Epoxy coating 1/16" thick minimum
- ~~8.~~ **Payment:**

Include the cost of all materials and labor in the cost of the single post sign assembly.

DELETED

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ADDED: or Traffic Railing



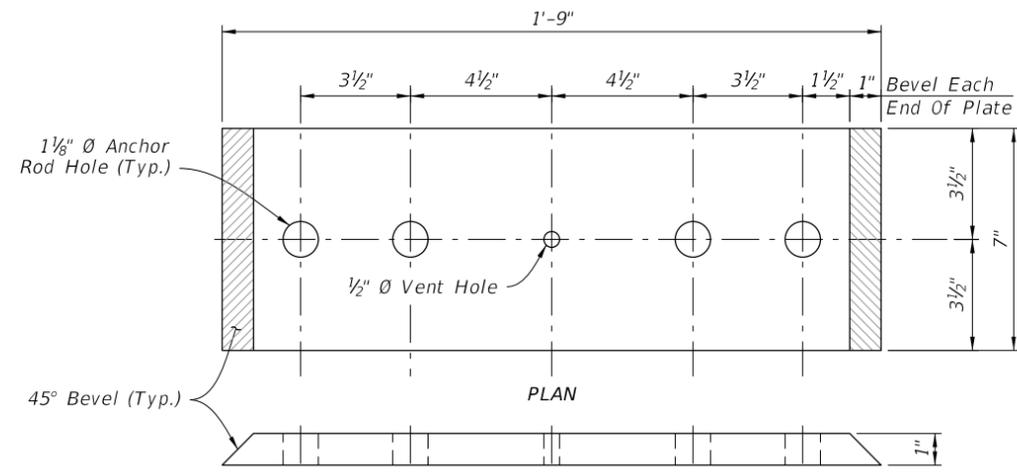
	Max. Sign Area (SF)	Post (NPS)
Temporary Signs	≤ 24	3.0
Permanent Signs	< 13.5	3.0
	13.5 < Sign < 20	3.5

CHANGED TITLE:
Single Post Sign Support Barrier Top-Mounted

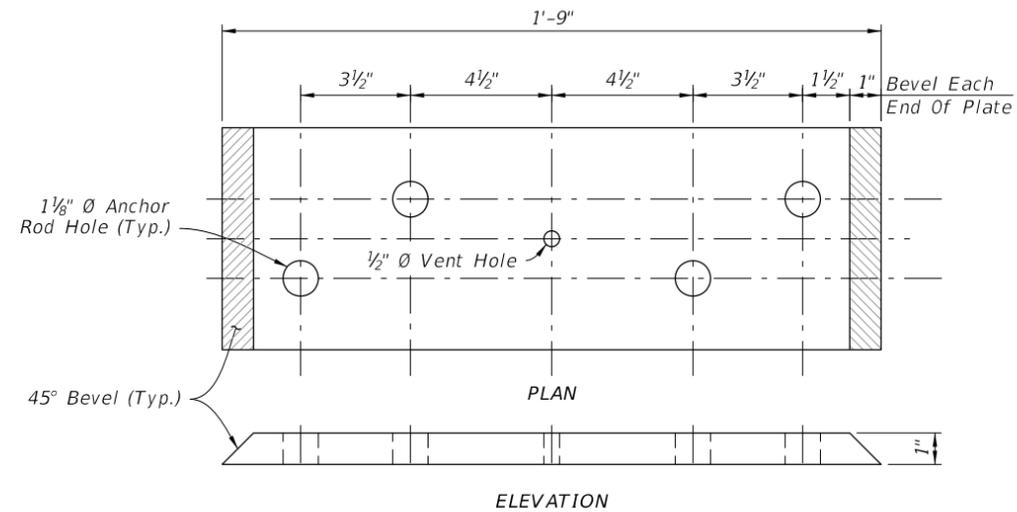
~~SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT~~

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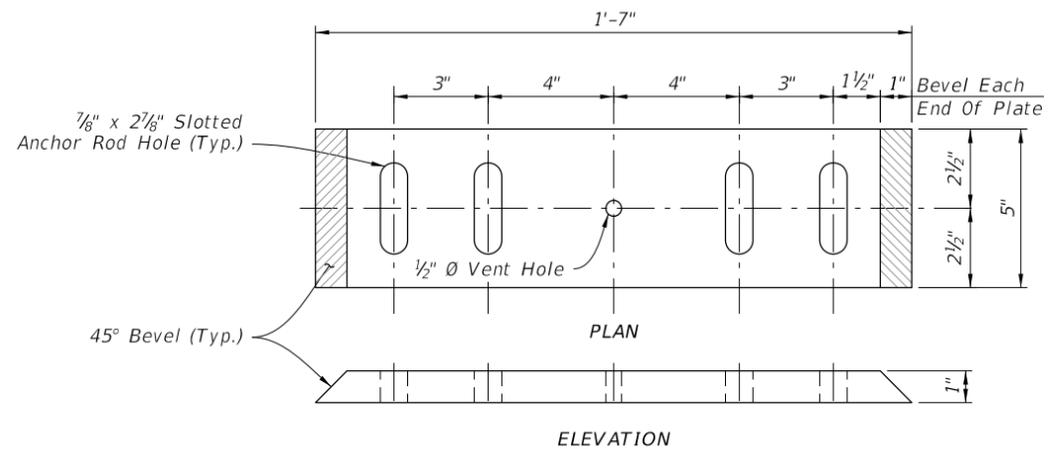
LAST REVISION 11/01/18	DESCRIPTION:
REVISION	11/01/22



BASE PLATE TYPE A
(Linear Anchor Rod Pattern)



BASE PLATE TYPE B
(Staggered Anchor Rod Pattern)

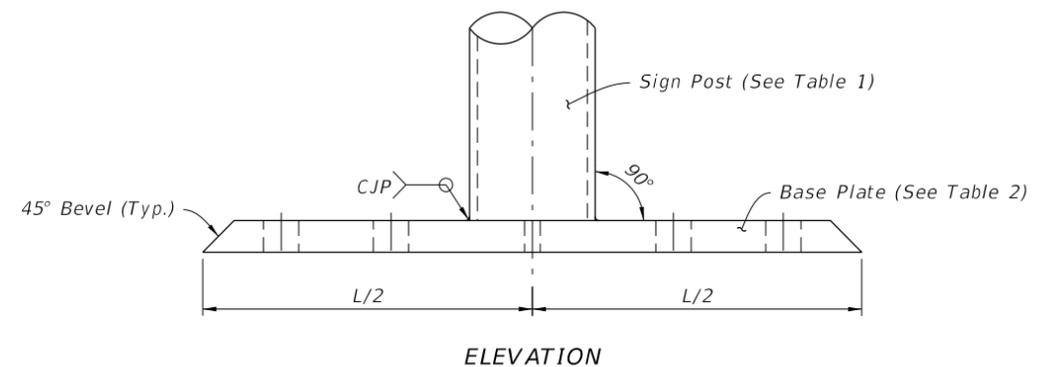
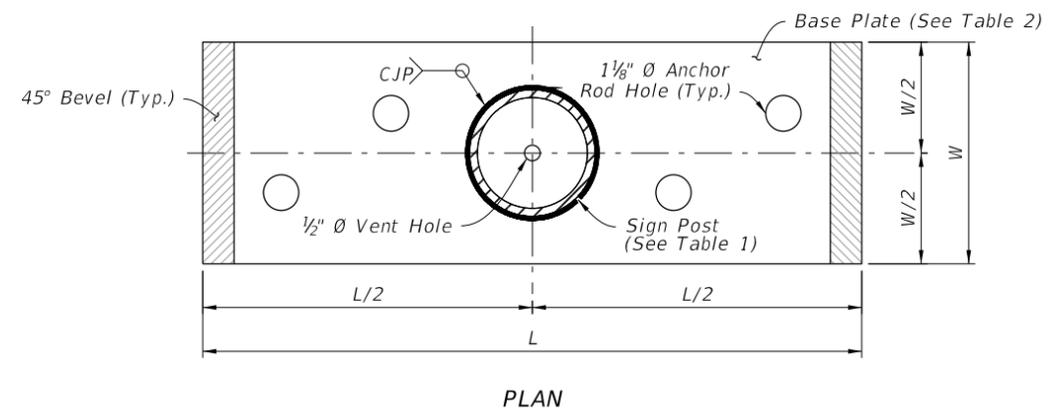


BASE PLATE TYPE C

NOTES:

1. Place anchor rods in a staggered or linear pattern as necessary to avoid reinforcing.
2. Use a staggered pattern for all temporary barriers.

Index	Type/Application	Base Plate Type	Anchor Rod \emptyset
521-001	Full Wall	B	1"
521-001	Cantilever or L-Wall	A	
All listed above Plus 102-110 & 102-100	Temporary Signs	C	3/4"



SIGN SUPPORT WELDMENT DETAIL
(Staggered Anchor Rod Pattern shown)

CHANGED TITLE:
Single Post Sign Support Barrier Top-Mounted

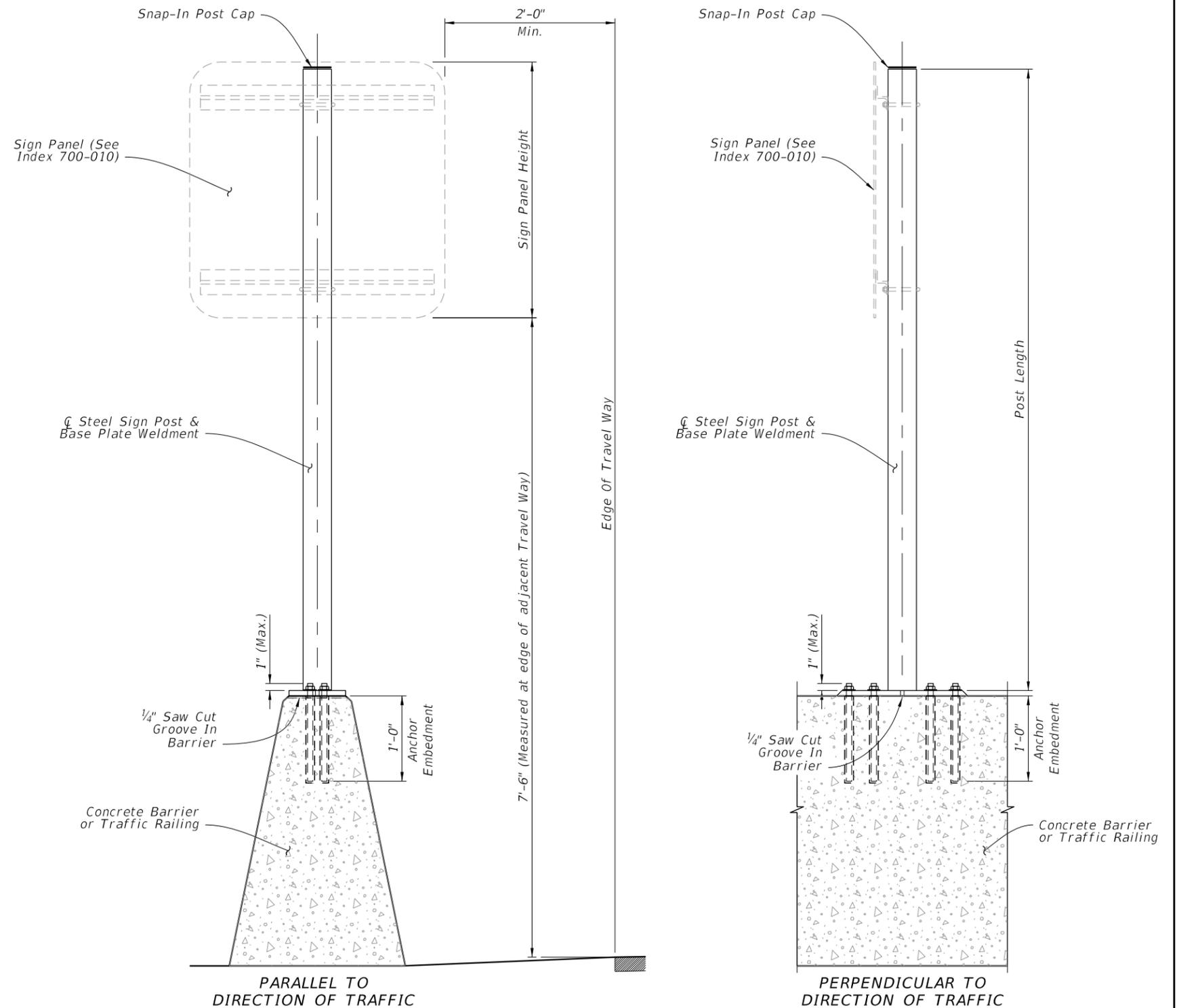
~~SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT~~

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LAST REVISION	DESCRIPTION:
11/01/17	
11/01/22	

GENERAL NOTES:

1. Meet the requirements of Specification 700.
2. Work with Index 700-010.
3. Shop Drawings: Not required.
4. Construction:
 - A. Locate Sign Support a minimum of 5 feet from an open joint or transition (sign stationing may be adjusted to accommodate this requirement)
 - B. Base plate must be flush with top of Railing
 - C. Anchors in Traffic Railings:
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 - b. Avoid drilling through existing reinforcement; use of metal detector not required.
 - c. Field testing of anchors is not required
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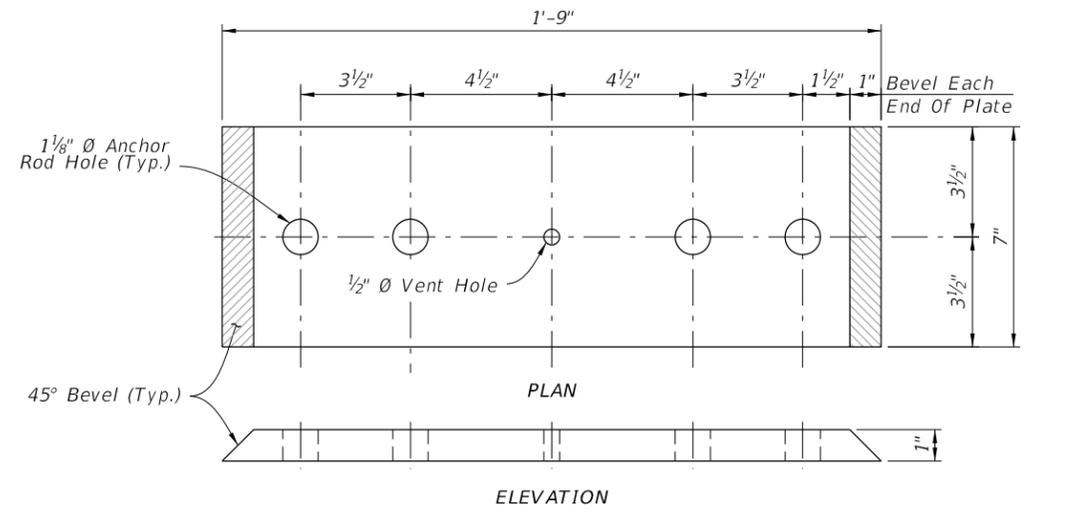
(Index 521-001 Median Barrier shown; others similar)

ELEVATION

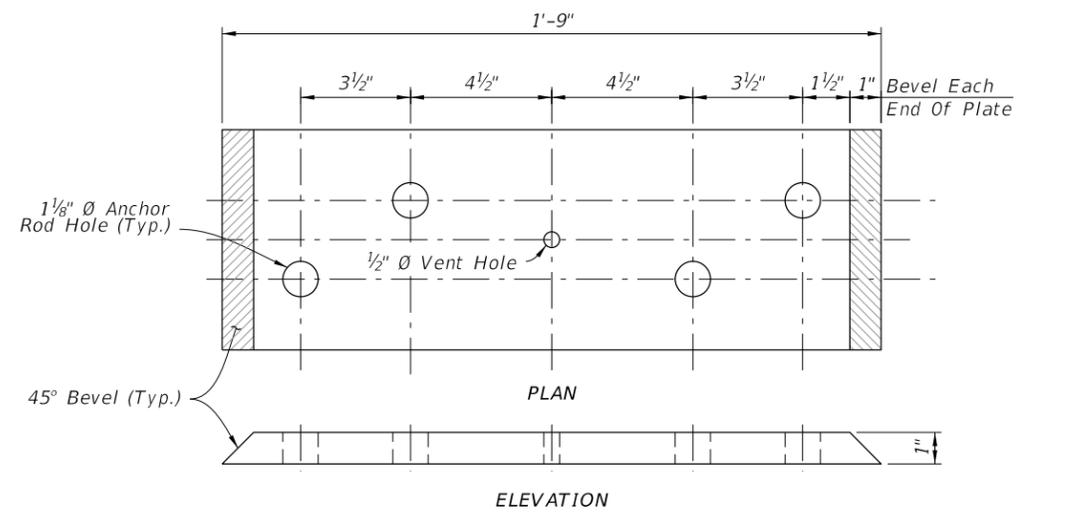
	Max. Sign Area (SF)	Post (NPS)
Temporary Signs	≤ 24	3.0
Permanent Signs	< 13.5	3.0
	13.5 < Sign < 20	3.5

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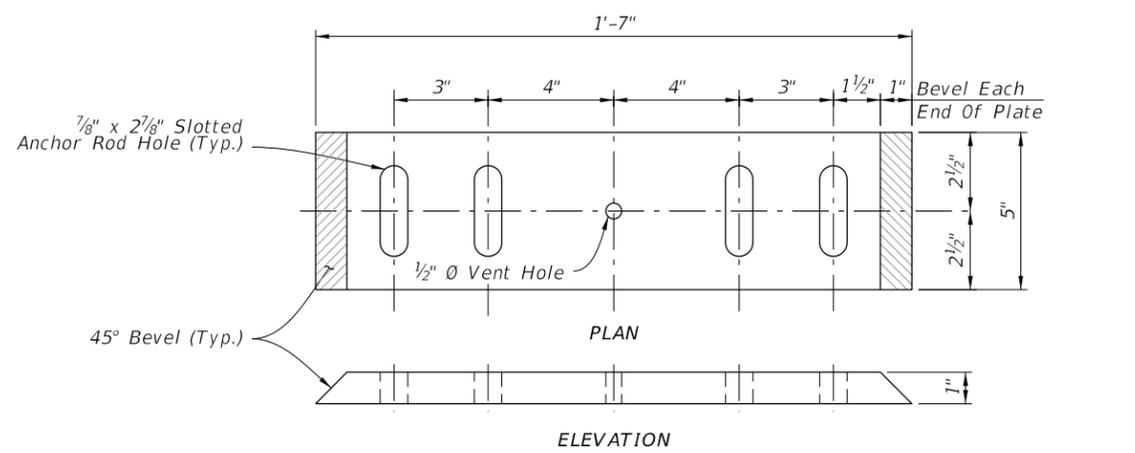
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BASE PLATE TYPE A
(Linear Anchor Rod Pattern)



BASE PLATE TYPE B
(Staggered Anchor Rod Pattern)

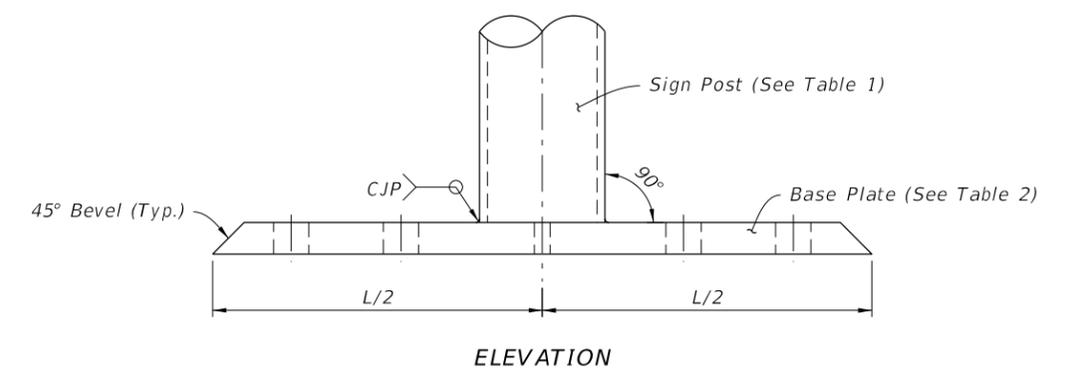
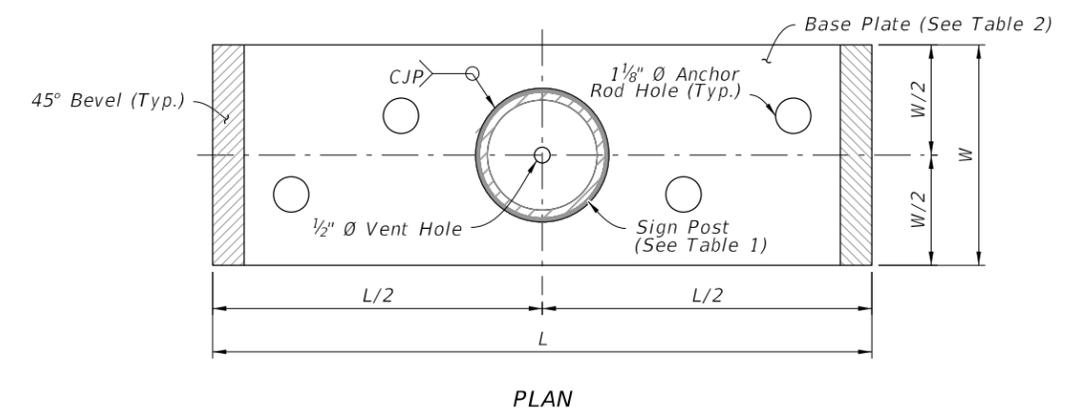


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SIGN SUPPORT WELDMENT DETAIL
(Staggered Anchor Rod Pattern shown)

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LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	SINGLE POST SIGN SUPPORT BARRIER TOP-MOUNTED	INDEX 700-013	SHEET 2 of 2
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