
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: 700-012

Sheet Number (s): All of 3

Index Title: Single Post Bridge Mounted Sign Support

Summary of the changes:

All Sheets: Renamed Index "Single Post Sign Support Barrier Side-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; Added New Notes from Sheet 2, Note 6 - "Bridge deck shown, approach slabs, junction slabs, and miscellaneous structures are similar." and Note 7 - "Traffic railings are shown. Concrete barriers and parapets are similar."; Updated the General Note references in the SIGN SUPPORT ASSEMBLY detail.

Sheet 2: Moved Notes 3 and 4 to the General Notes on Sheet 1; Updated General Note references.

Sheet 3: Updated the General Note references in the SIGN SUPPORT ASSEMBLY 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

UPDATED: GENERAL NOTES:

~~NOTES:~~

- ~~1. Work with Index 700-010.~~
- ~~2. Shop Drawings: Not required.~~

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

~~3. Materials:~~

- ~~A. Steel Plate: ASTM A36 or ASTM A709 Grade 36~~
- ~~B. Steel Pipe (Support Post): ASTM A501 Schedule 40~~
- ~~C. Aluminum Pipe: ASTM B429 Alloy 6061-T6~~
- ~~D. 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~~
- ~~E. 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~~
- ~~F. Adhesive Anchor Bonding Material: Specification 931 Type HV Adhesive.~~
- ~~G. Weld Material: E70XX~~
- ~~H. Snap-In Post Cap: UV and weather-resistant glass-filled polyester cap~~

DELETED

~~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~~

SIGN LIMITATIONS TABLE	
MAX. SIGN AREA (SF)	MAX. SIGN CENTROID HEIGHT (DIM. A + DIM. C)
25	9'-7"

Dimension A = Distance from centerline of the Support Post to the bottom of the sign or sign cluster.
 Dimension C = Vertical distance from the bottom of the sign or sign cluster to the Centroid of the sign or sign cluster.

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.

~~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 back of Traffic 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 templates and tie anchors as necessary to maintain correct placement of C-I-P Embedded Anchors~~
 - ~~c. Do not drill into existing conduit~~
- ~~D. Temporary Signs on Permanent Traffic Railings: Same as Permanent except Field testing of anchors is not required~~

~~5. Removal of Temporary Signs on Permanent Traffic Railings:~~

- ~~A. Cut anchor rods flush with the top of the traffic 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~~

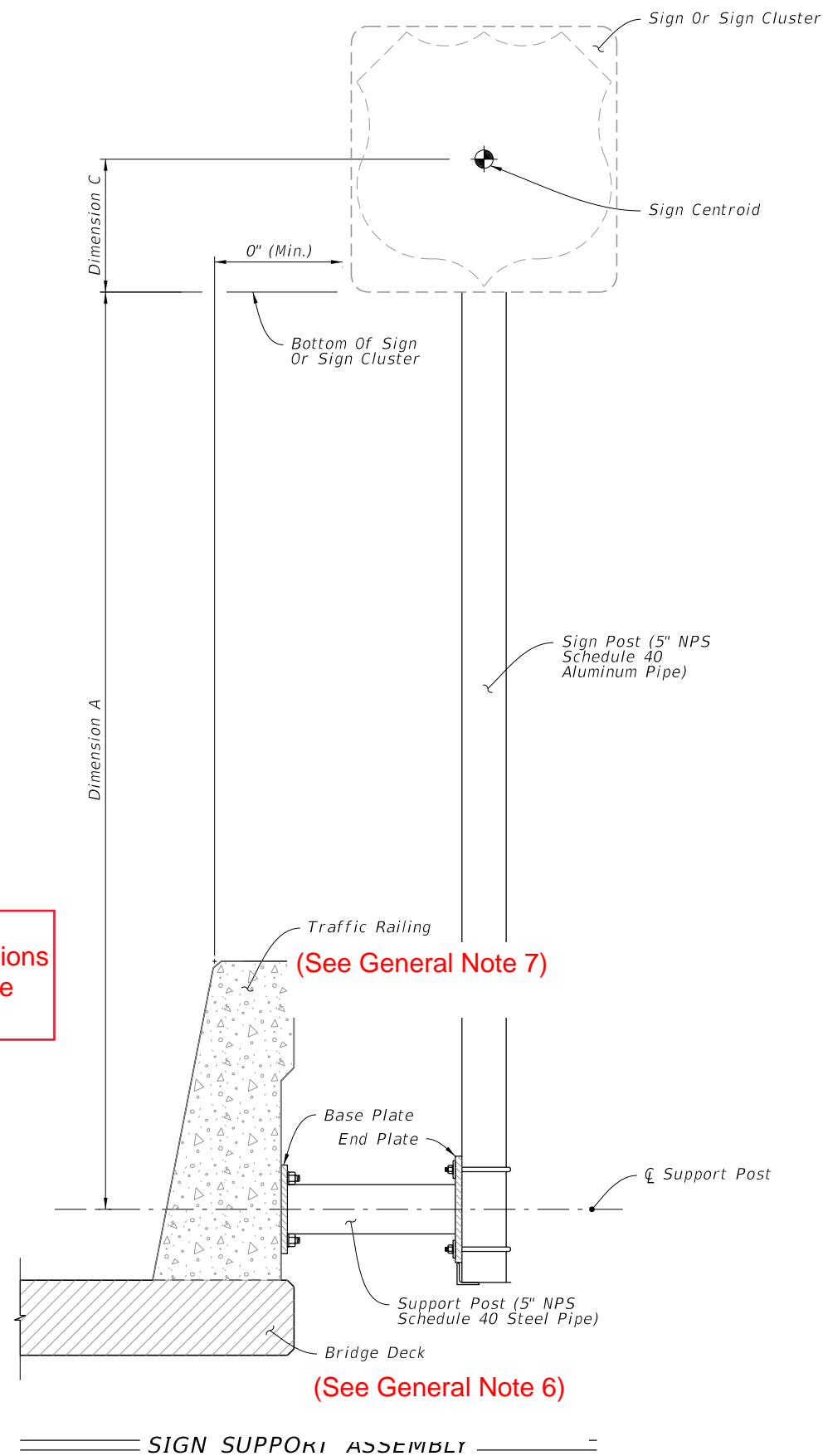
~~8. Payment:~~

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

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ADDED NEW NOTE 6 AND 7 FROM SHEET 2:
 6. Bridge deck shown. Approach slabs, junction slabs, and miscellaneous structures are similar.

7. Traffic railings are shown. Concrete barriers and parapets are similar.

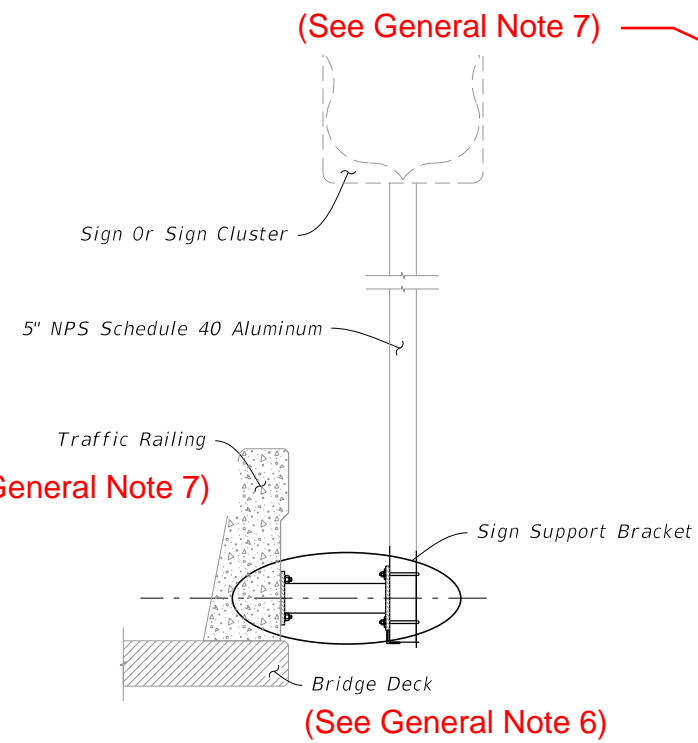


CHANGED TITLE:
 Single Post Sign Support Barrier Side-Mounted

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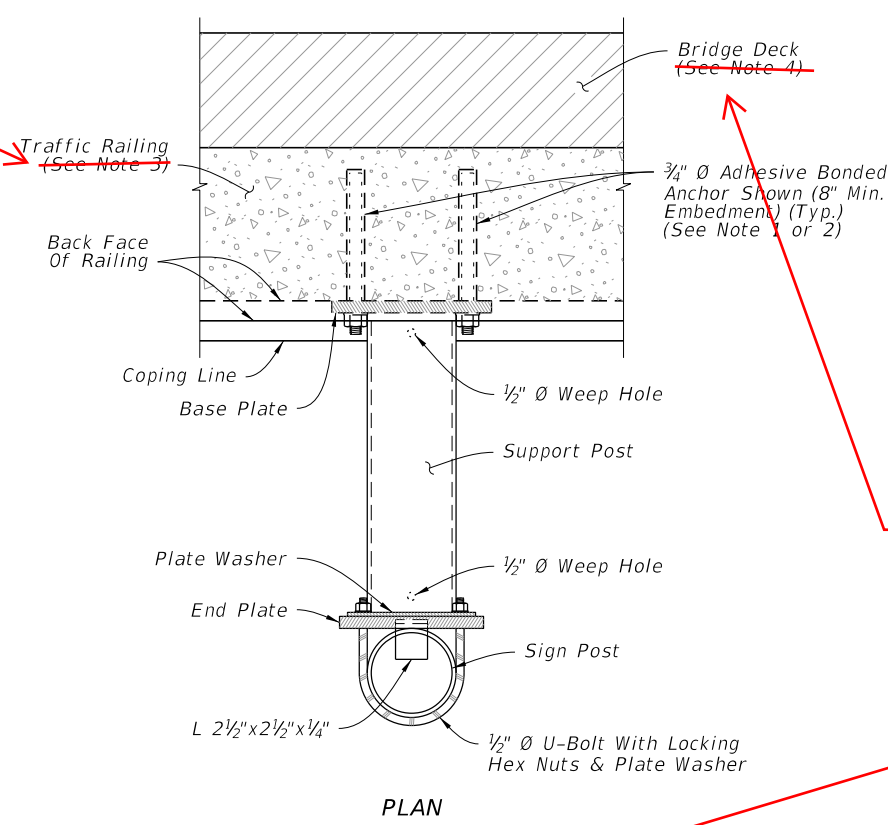
LAST REVISION 11/01/18	DESCRIPTION: 11/01/22	 FY 2022-23 STANDARD PLANS	SINGLE POST BRIDGE MOUNTED SIGN SUPPORT SIGN SUPPORT ASSEMBLY	INDEX 700-012	SHEET 1 of 3
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(See General Note 7)



(See General Note 7)

(See General Note 6)



PLAN

(See General Note 7)

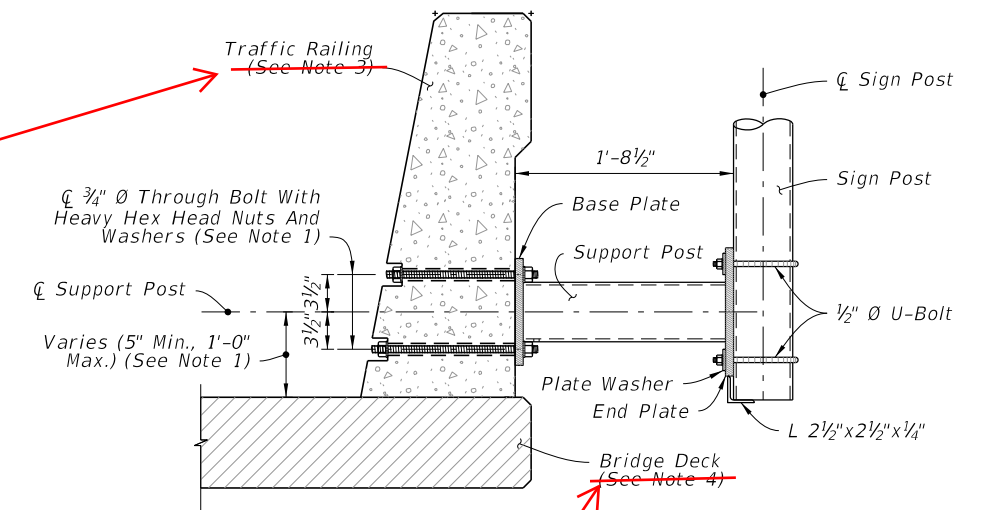
(See General Note 7)

3/4" Ø Adhesive Bonded Anchor Shown (8" Min. Embedment) (Typ.) (See Note 1 or 2)

3/4" Ø Adhesive Bonded Anchors With Heavy Hex Head Bolts And Washers (See Note 1)

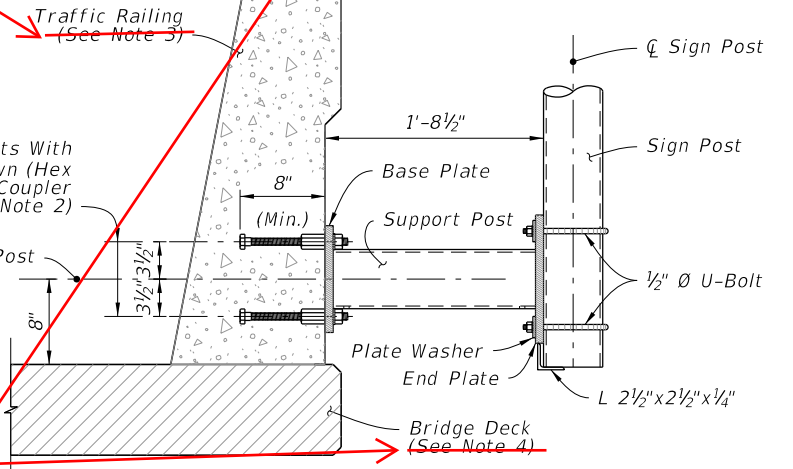
(See General Note 6)

ADHESIVE BOND



TYPICAL SECTION - EXISTING RAILING

TYPICAL SECTION - EXISTING RAILING



TYPICAL SECTION - NEW CONSTRUCTION

(See General Note 6)

NOTES:

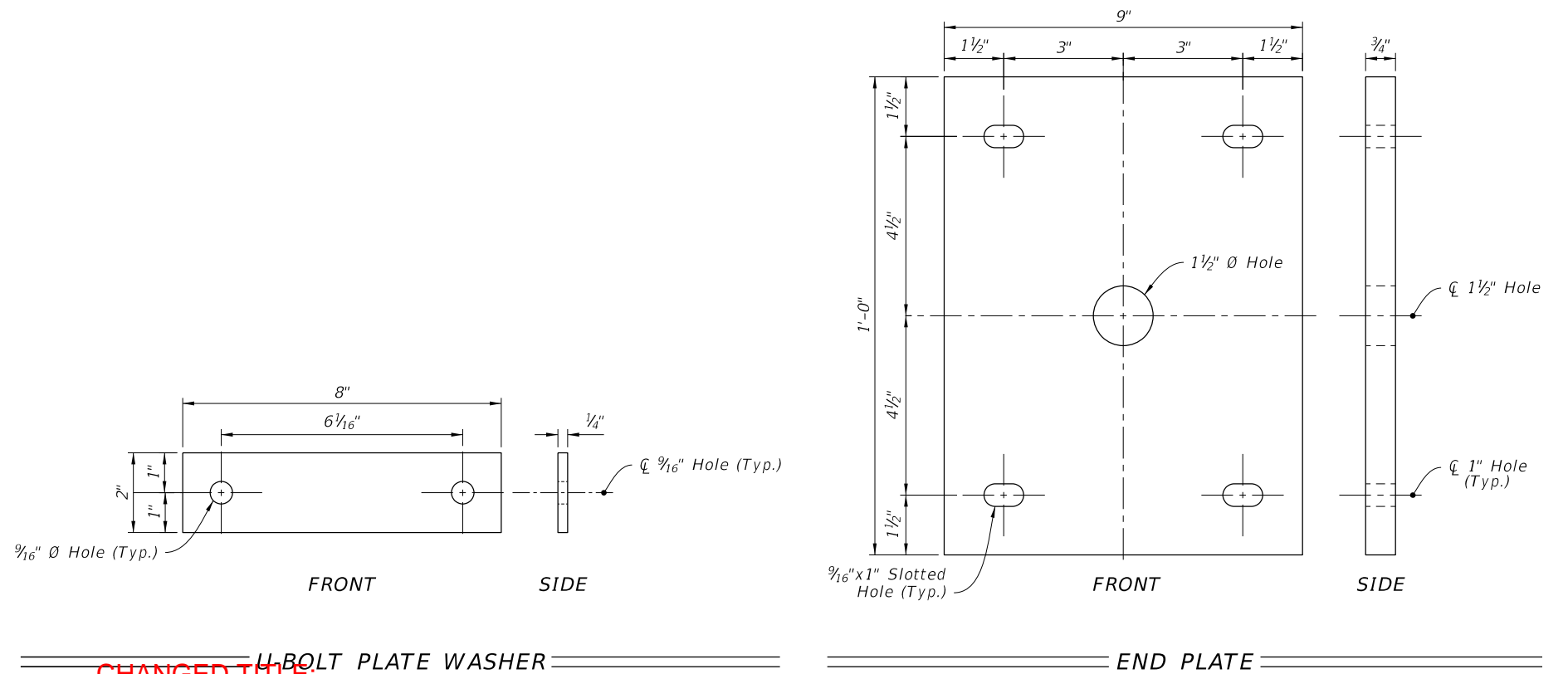
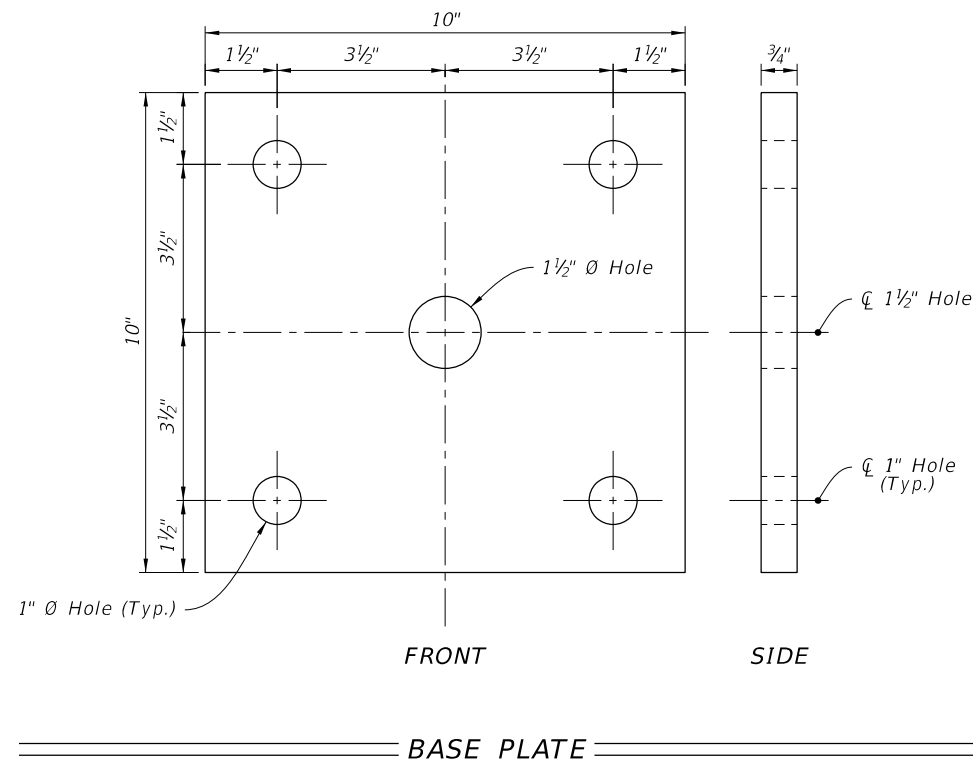
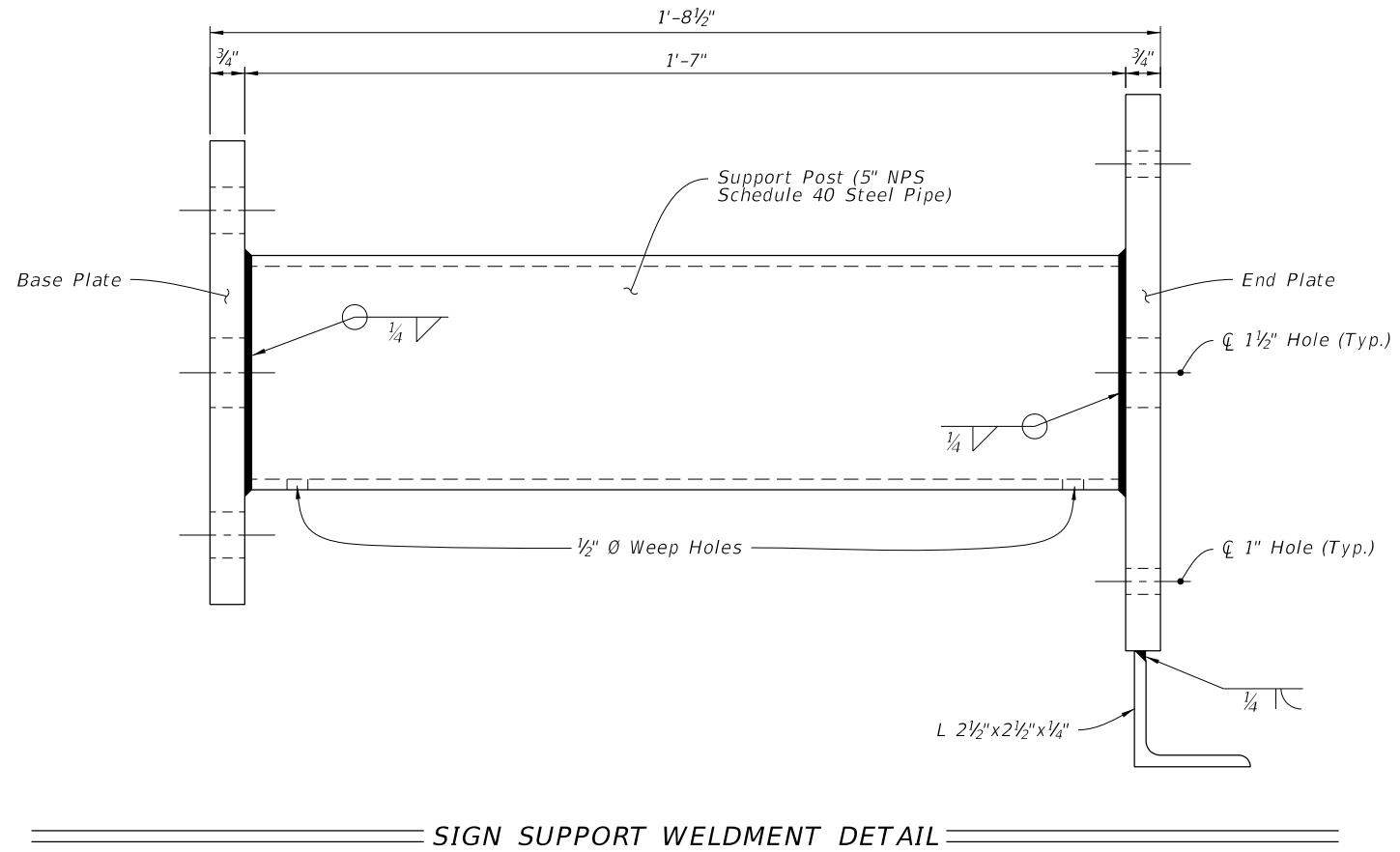
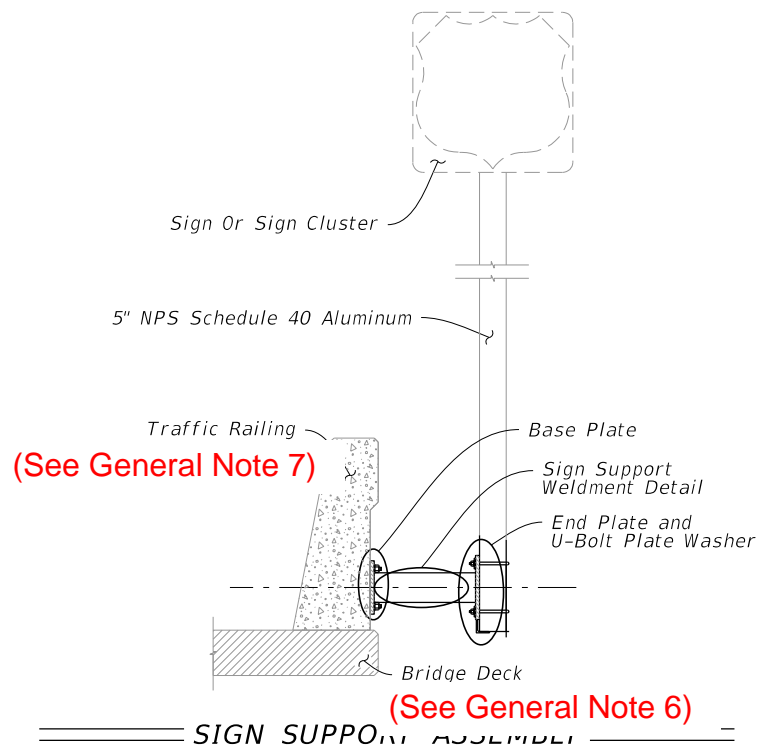
- Existing Traffic Railings:
 - Locate existing conduit prior to drilling and adjust placement of base plate as necessary to avoid damaging existing conduit. Base plate must be flush with back of traffic railing. Maintain a minimum cover 2" from face of traffic railing to tip of Adhesive Anchor.
 - For concrete parapets less than 10" thick, through bolt 3/4" Ø Heavy Hex Head Bolts with Nuts and Washers in lieu of Adhesive Bonded Anchors. Bolt heads shall not protrude more than 1 1/2" beyond traffic face of railing.
 - For through bolting, countersink the nut and washer so that the bolt and nut does not extend beyond the face of the traffic railing. Do not exceed a countersink depth and diameter of 2 1/2".
- New Traffic Railings:
 - Optional Couplers are shown for slipforming; keep Anchor Bolt coupler threads free of concrete.
- ~~36" Single-Slope Traffic Railing shown, other Traffic Railings and Parapets are similar.~~
- ~~Bridge Deck shown, Approach Slab and Retaining Wall are similar.~~

MOVED TO GENERAL NOTES

CHANGED TITLE:
Single Post Sign Support Barrier Side-Mounted

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



9/22/2021 1:44:23 PM

CHANGED TITLE:
Single Post Sign Support Barrier Side-Mounted

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



FY 2022-23
STANDARD PLANS

~~SINGLE POST BRIDGE MOUNTED SIGN SUPPORT~~

INDEX
700-012

SHEET
3 of 3

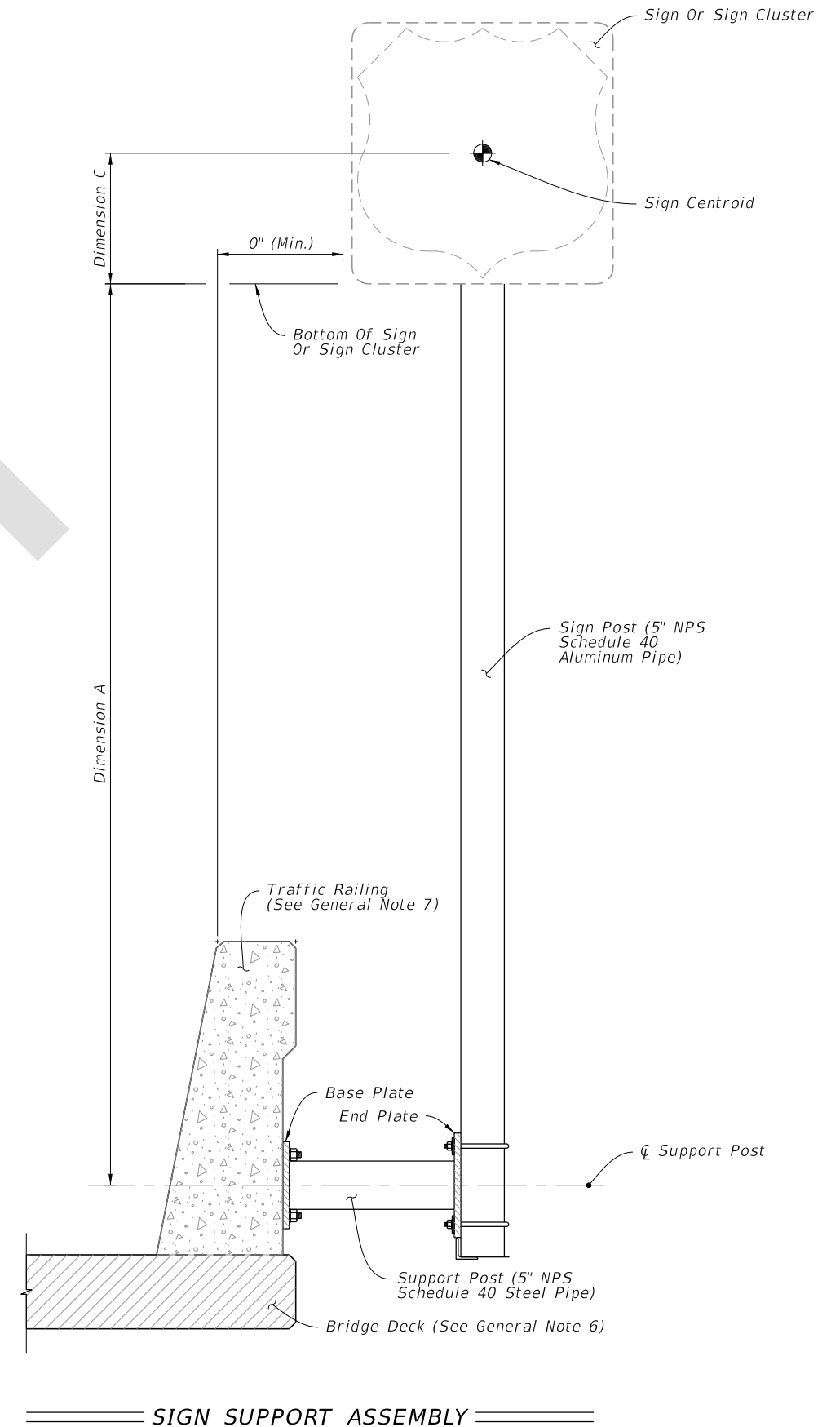
GENERAL NOTES:

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 back of Traffic 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 templates and tie anchors as necessary to maintain correct placement of C-I-P Embedded Anchors
 - c. Do not drill into existing conduit
 - D. Temporary Signs on Permanent Traffic Railings: Same as Permanent except Field testing of anchors is not required
5. Removal of Temporary Signs on Permanent Traffic Railings:
 - A. Cut anchor rods flush with the top of the traffic 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
6. Bridge deck shown, approach slabs, junction slabs, and miscellaneous structures are similar.
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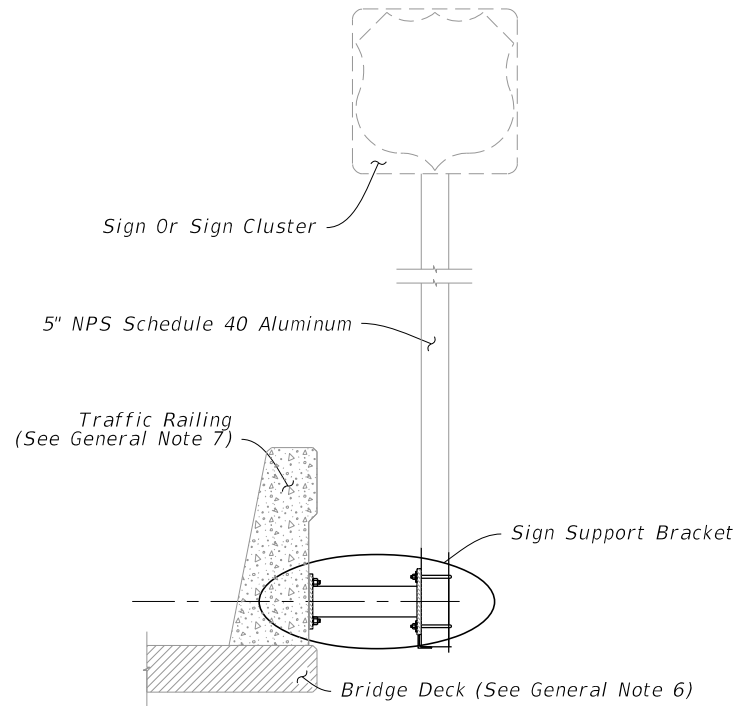
SIGN LIMITATIONS TABLE	
MAX. SIGN AREA (SF)	MAX. SIGN CENTROID HEIGHT (DIM. A + DIM. C)
25	9'-7"

Dimension A = Distance from centerline of the Support Post to the bottom of the sign or sign cluster.

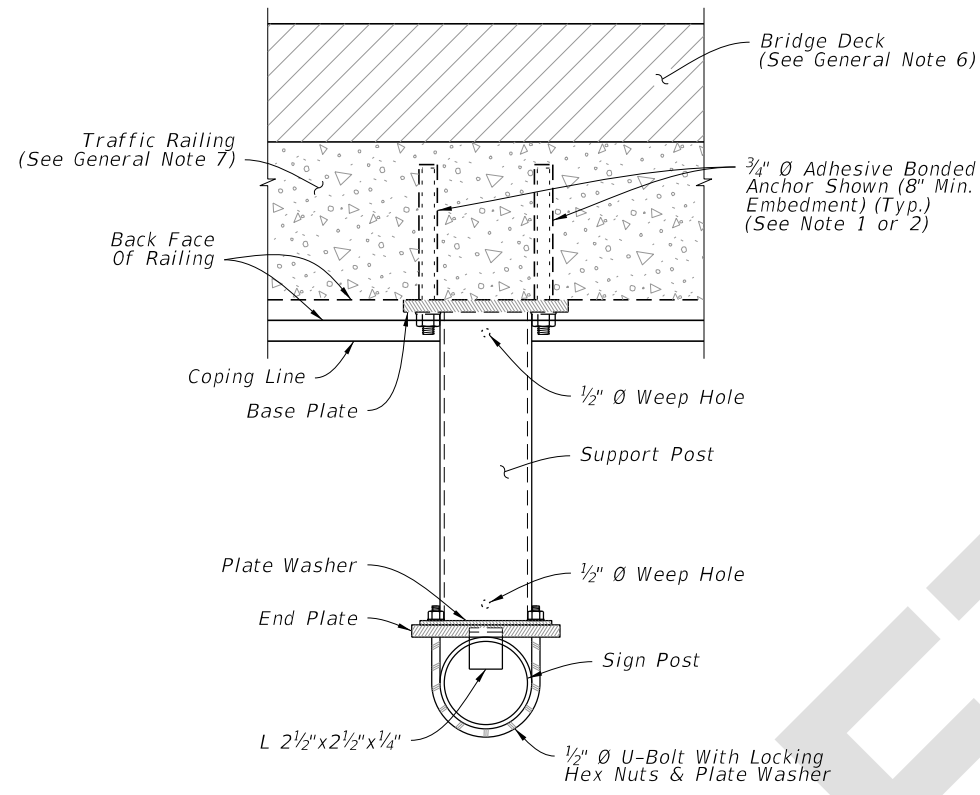
Dimension C = Vertical distance from the bottom of the sign or sign cluster to the Centroid of the sign or sign cluster.



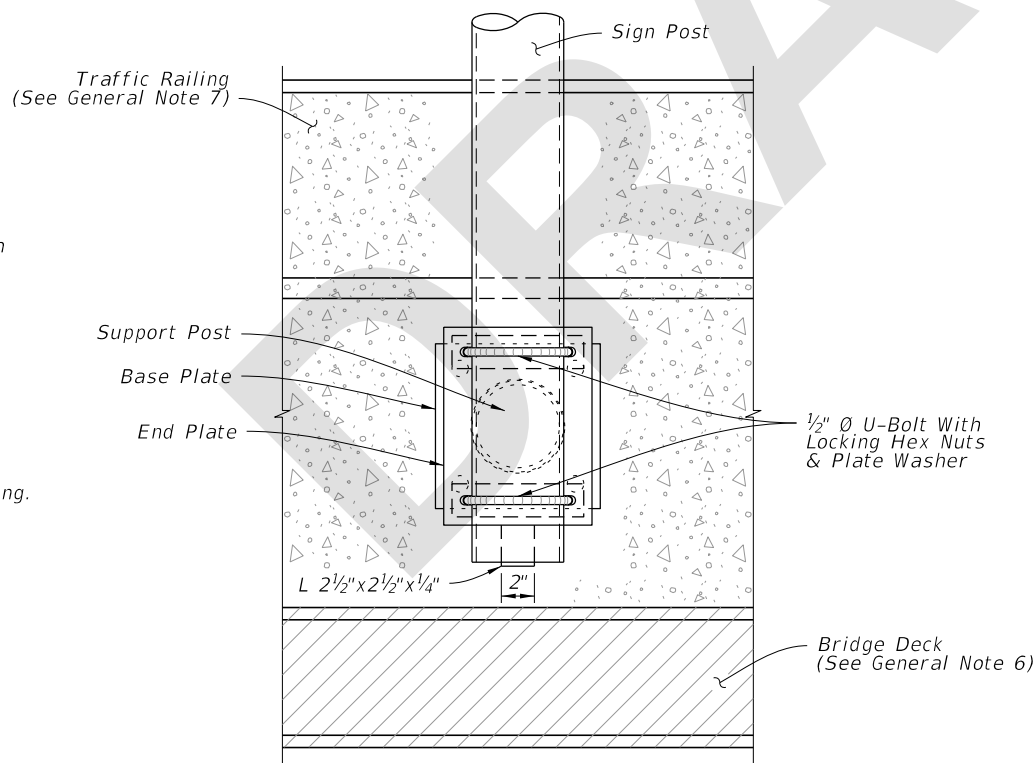
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SIGN SUPPORT ASSEMBLY

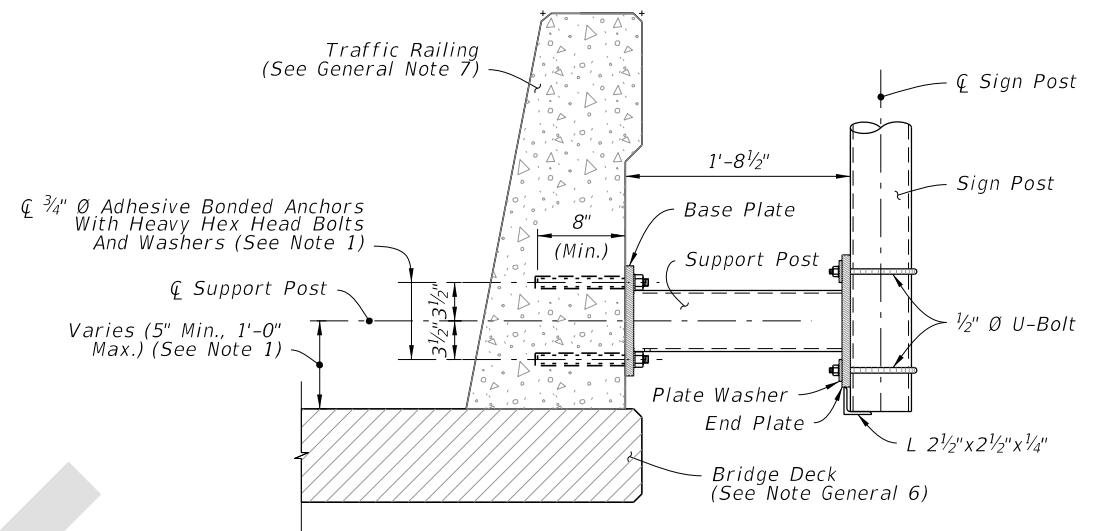


PLAN

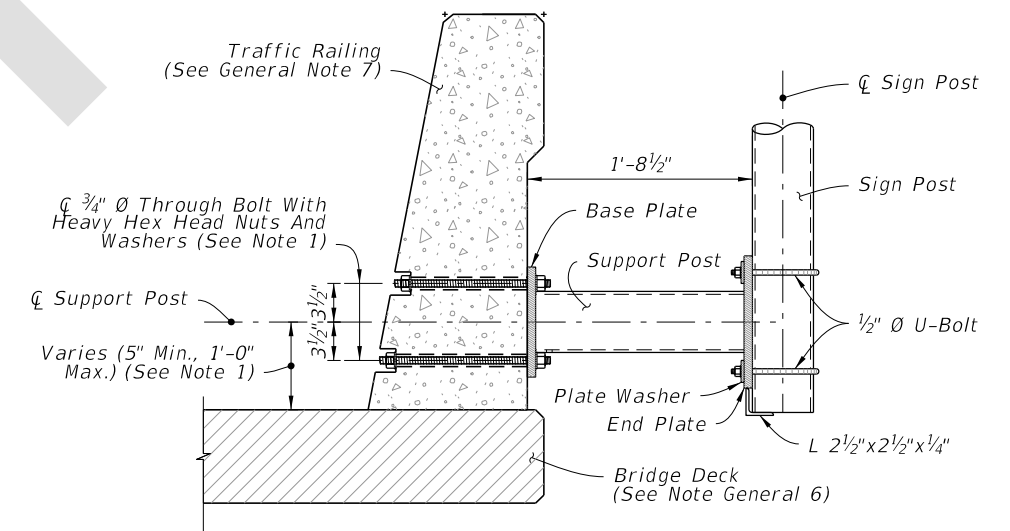


ELEVATION

SIGN SUPPORT BRACKET

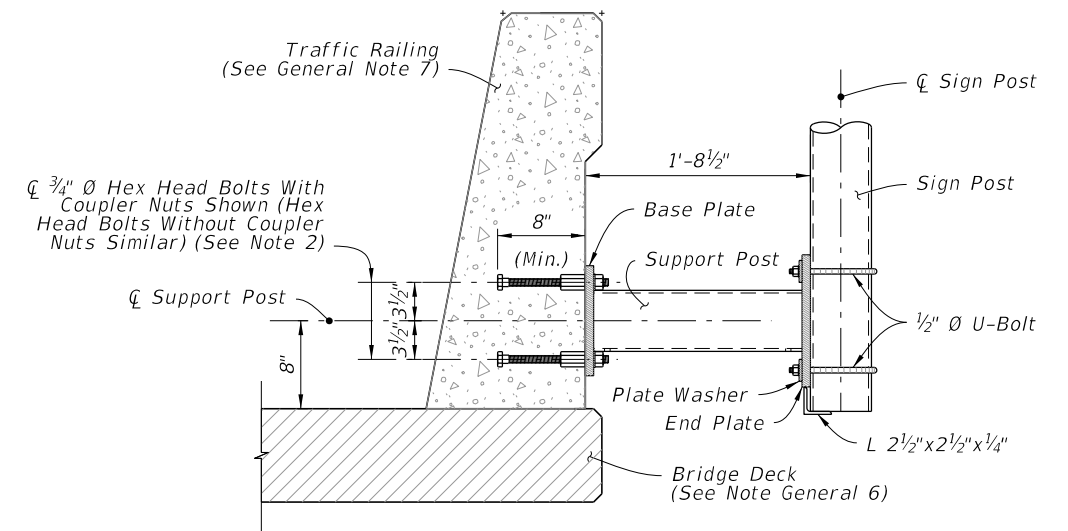


ADHESIVE BOND



THROUGH BOLTING

TYPICAL SECTION - EXISTING RAILING



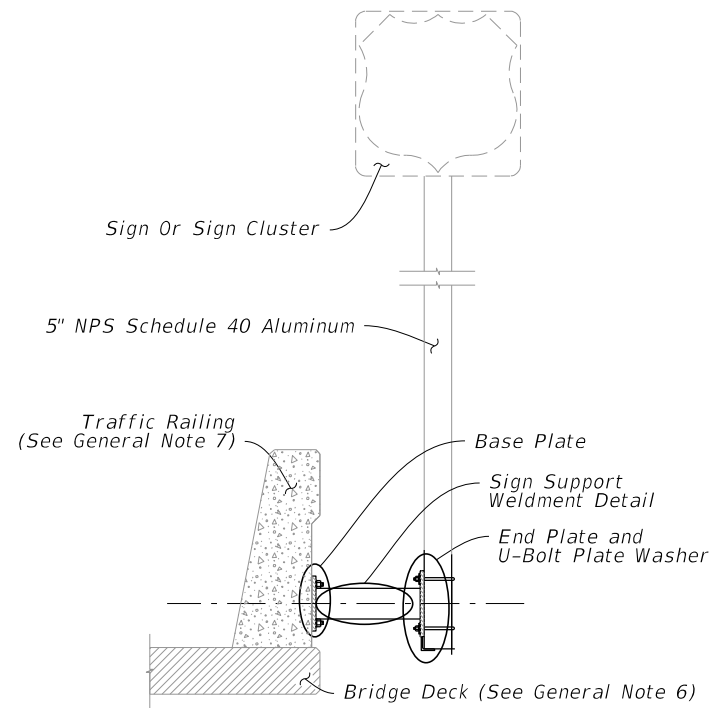
TYPICAL SECTION - NEW CONSTRUCTION

NOTES:

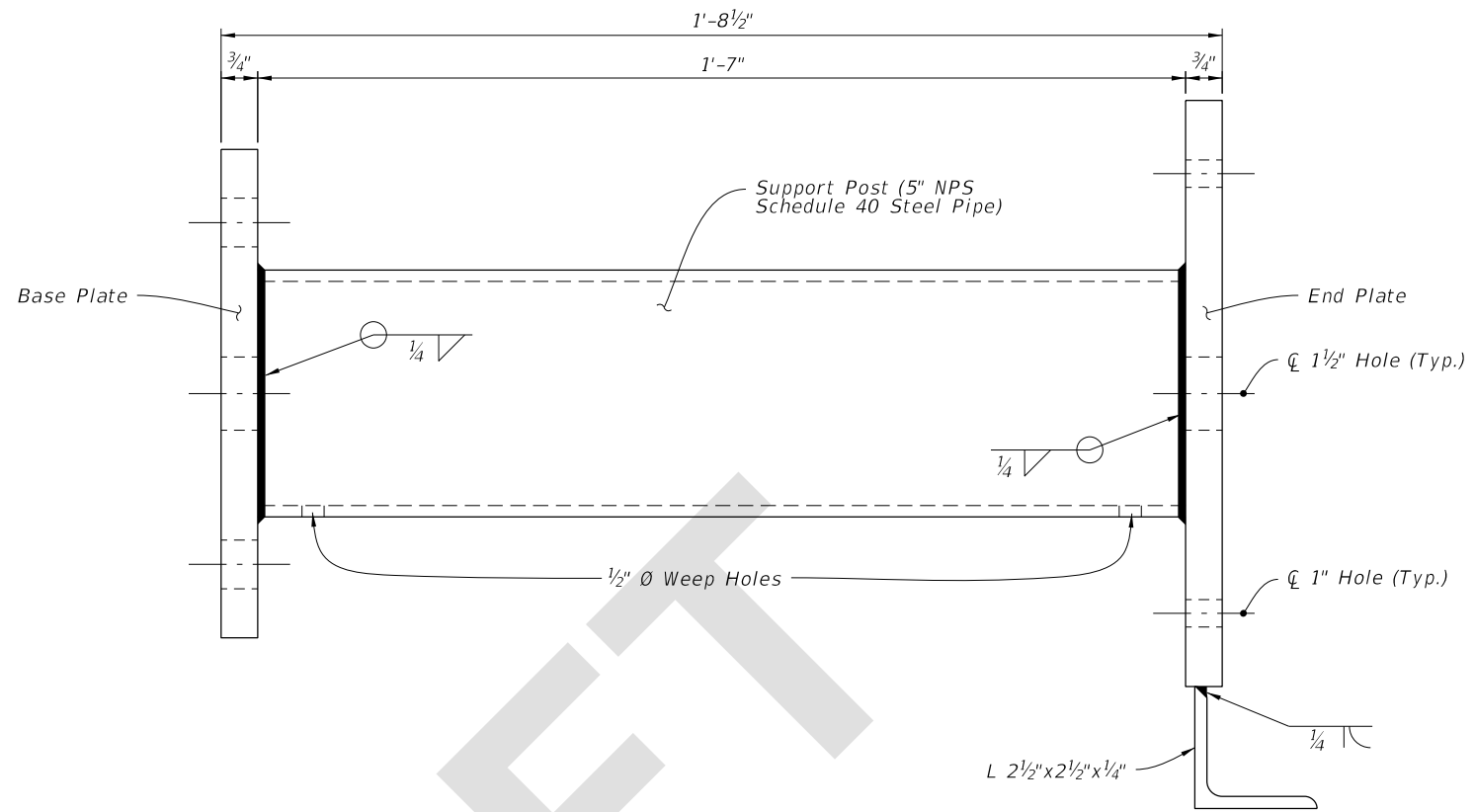
1. Existing Traffic Railings:
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 - B. For concrete parapets less than 10" thick, through bolt 3/4" Ø Heavy Hex Head Bolts with Nuts and Washers in lieu of Adhesive Bonded Anchors. Bolt heads shall not protrude more than 1 1/2" beyond traffic face of railing.
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2. New Traffic Railings:
 - A. Optional Couplers are shown for slipforming; keep Anchor Bolt coupler threads free of concrete.

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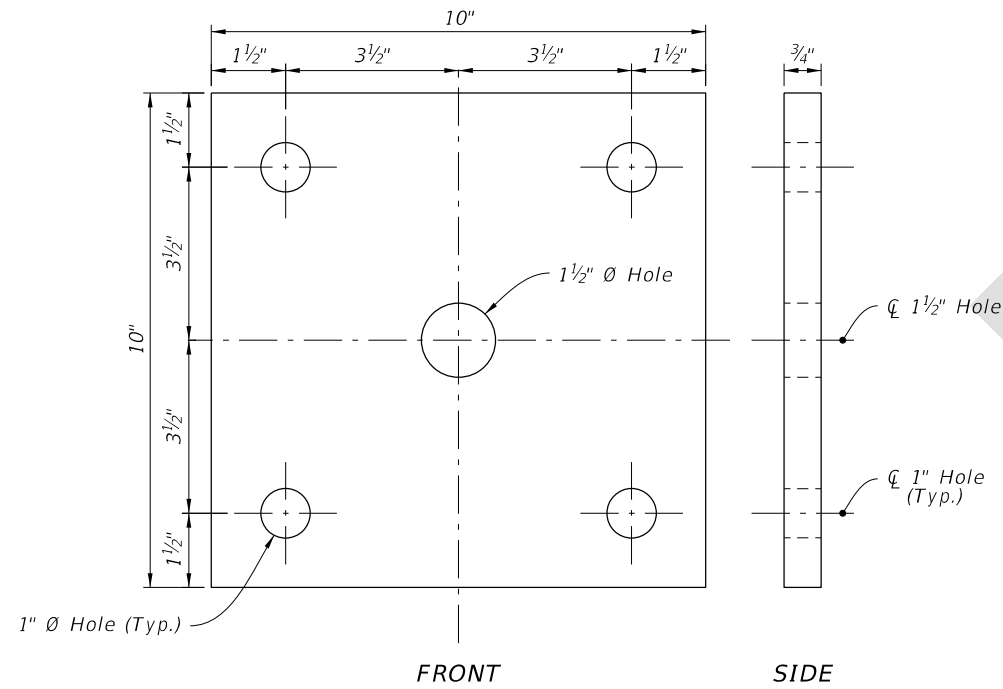
LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	SINGLE POST SIGN SUPPORT BARRIER SIDE-MOUNTED	INDEX 700-012	SHEET 2 of 3
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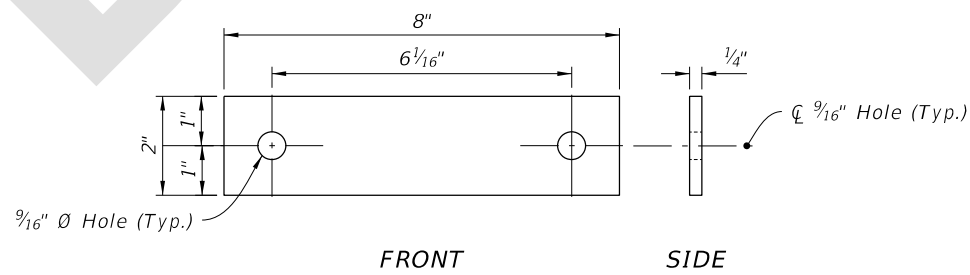
SIGN SUPPORT ASSEMBLY



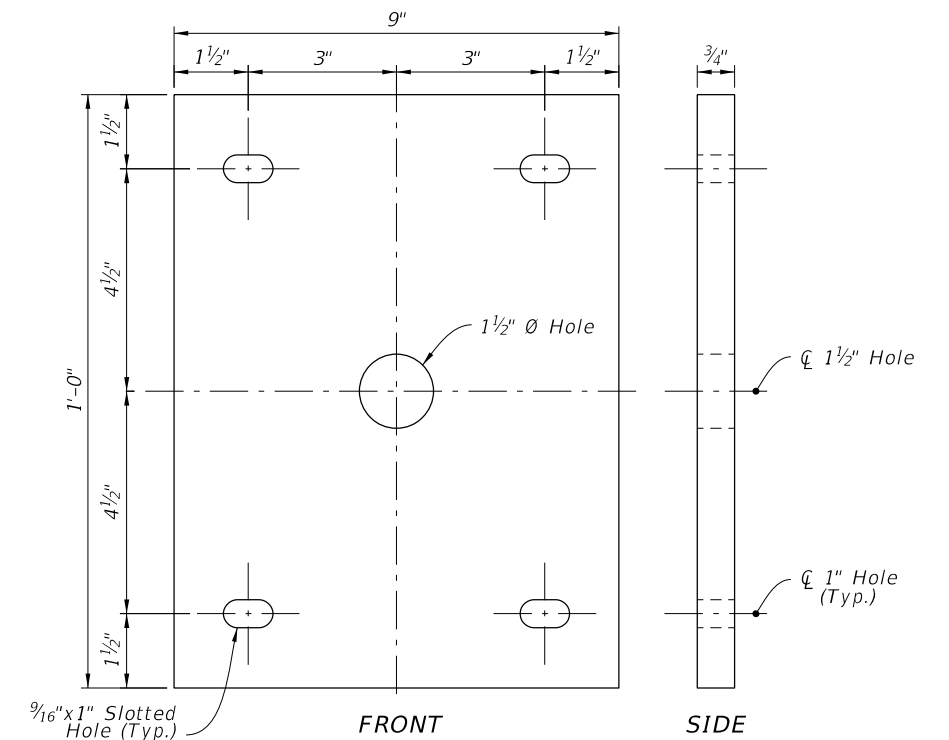
SIGN SUPPORT WELDMENT DETAIL



BASE PLATE



U-BOLT PLATE WASHER



END PLATE

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LAST REVISION 11/01/22	REVISION	DESCRIPTION:		FY 2023-24 STANDARD PLANS	SINGLE POST SIGN SUPPORT BARRIER SIDE-MOUNTED	INDEX 700-012	SHEET 3 of 3
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