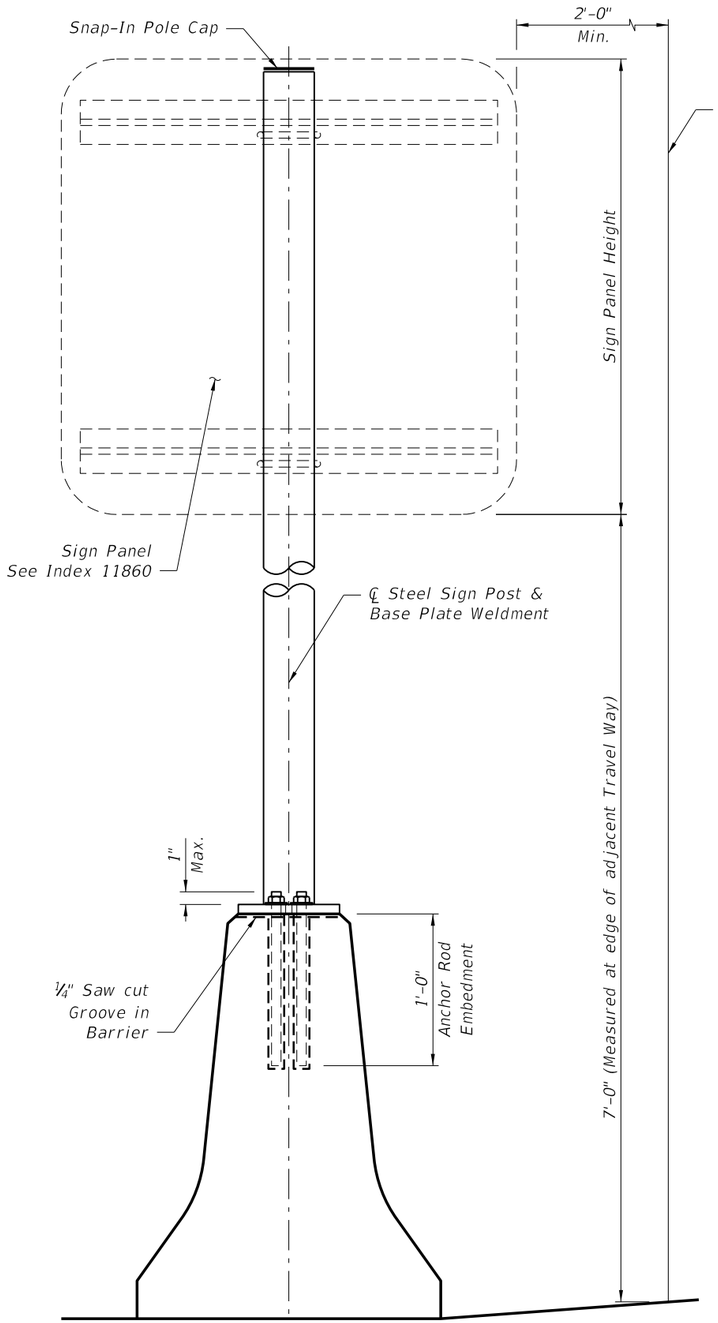
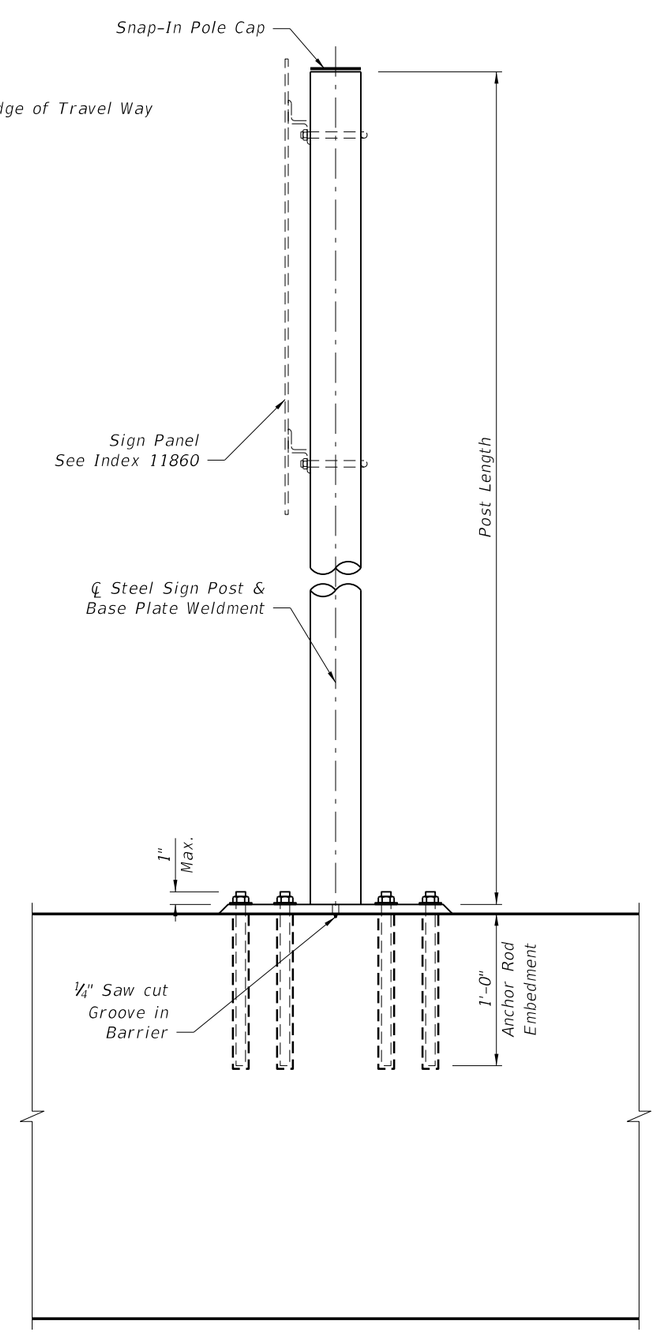



LOOKING PARALLEL TO DIRECTION OF TRAFFIC




LOOKING PERPENDICULAR TO DIRECTION OF TRAFFIC

ELEVATION

(Index 410 Standard "Full Wall" Median Barrier shown; others similar)

*NOTES:*

*DESIGN SPECIFICATIONS:*
AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals as modified by the FDOT Structures Manual.

*WIND SPEEDS:*
See Index 11860, "Wind speeds by County" note.

*GEOMETRY:*
Maximum Sign Panel Height is 6'-0".
Edges of Sign Panels must be a minimum of 2'-0" clear from edge of adjacent Travel Way.

*APPLICABILITY:*
Work this Index in conjunction with Index No 11860.

*SHOP DRAWINGS:*
Shop drawings are not required.

*PAYMENT:*
Include payment for sign support in the cost of the single post sign assembly.

*MATERIALS:*
Sign Post: ASTM A53 Grade B, NPS Schedule 40 Steel Pipe, sized per Table 1. Maximum post length is 10'-0".

Snap-In Pole Cap: Provide UV and weather-resistant glass-filled polyester cap.

Steel Plates: ASTM A572 Grade 50 or A709 Grade 50.

Welding: Weld in accordance with American Welding Society Structural Welding Code (Steel), ANSI/DWS D1.1 (current edition). Required weld material is E70XX. Nondestructive testing is not required.

Coatings: Hot dip galvanize all steel, including fasteners, in accordance with Section 962. Galvanize Weldment after fabrication.

*INSTALLATION:*
Placement: For installations on permanent Median Barriers, locate Sign Support a minimum of 5'-0" away from open joints or transitions. For installations on Temporary Barriers, locate Sign Support at the midpoint along the length of a single segment. In all cases, shift locations as needed to avoid conflicts with reinforcement.

Bearing Surface: Surface of the railing must be structurally sound and free of cracks and spalls. Base plate must be flush with the concrete surface; grind any high spots to obtain a flat, smooth surface.

Saw Cut: For permanent installations only, saw cut a ¼" deep groove transversely across the top of railing at the centerline of base plate vent hole location.

Anchor Rods: Use ASTM F1554 Grade 36, fully threaded rods with A563 or A194 single self-locking hex nuts and F436 washers. Size anchor rods per Table 2.

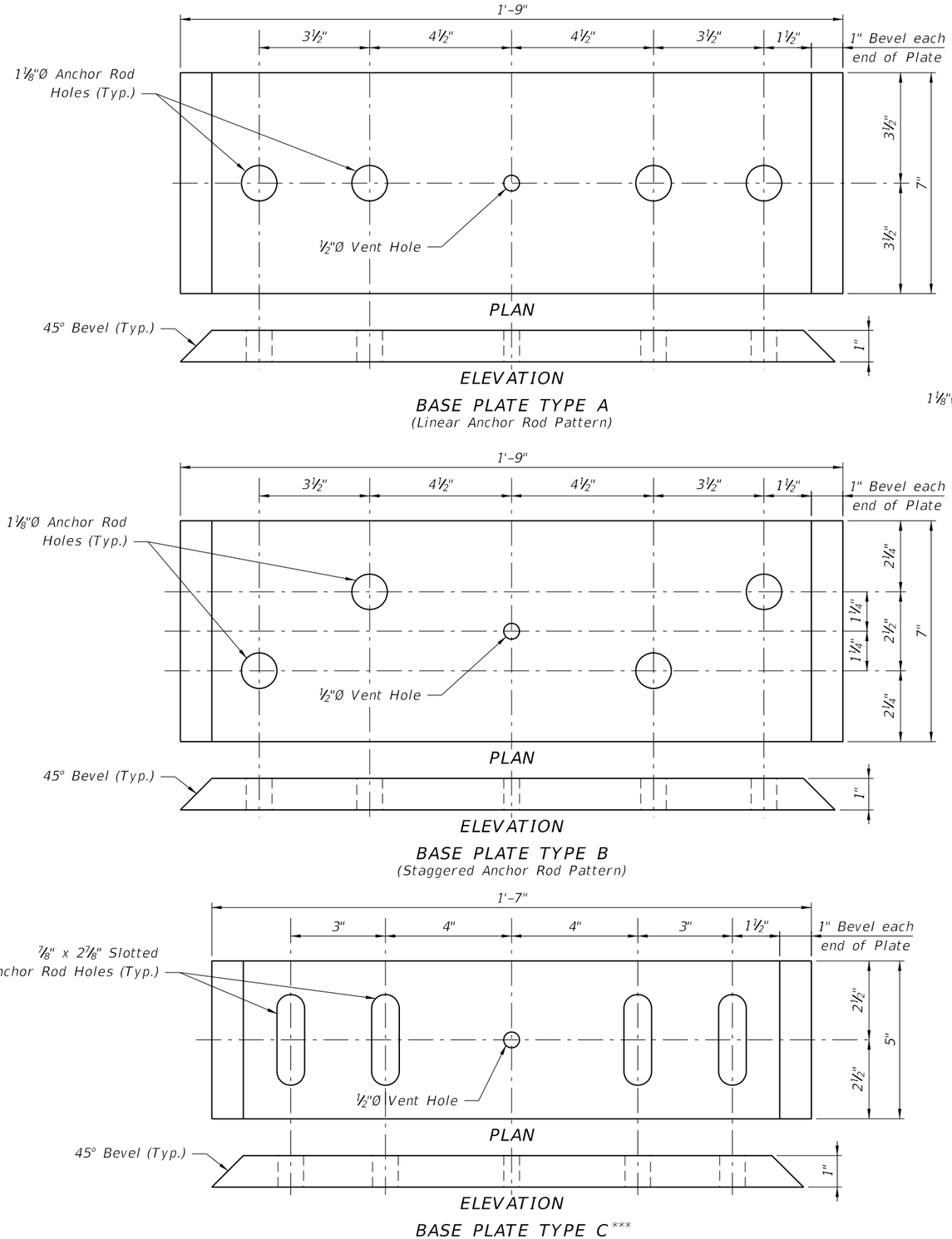
Adhesive Bonding Material: Install anchor rods using Type HSHV Adhesive Bonding Material System in accordance with Sections 416 & 937.

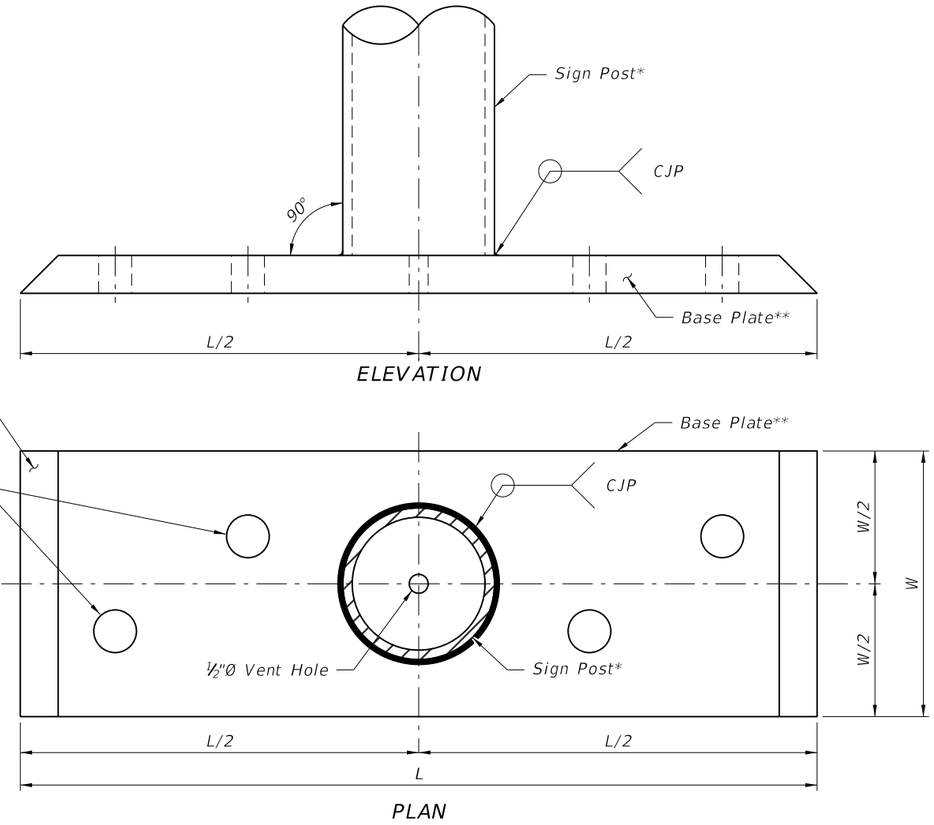
Removal of Signs: Cut anchor rods flush with top of railing and coat surface with Type F-1 epoxy. Minimum thickness of epoxy is 1/16" extending 2" beyond the location of steel.

TABLE 1 - SIGN PANEL AND POST SIZING

| Wind Speed (MPH) | Max. Sign Area (SF) | Post Ø (NPS) |
|---|---|---|
| 70 - All Temporary Signs | < 20 | 3.0" |
| 110 & 130 | < 13.5 | 3.0" |
| | 13.5 < Sign < 20 | 3.5" |
| 150 | < 13.5 | 3.5" |
| | 13.5 < Sign < 20 | 4.0" |

| LAST REVISION | REVISION | DESCRIPTION: | | | INDEX NO. | SHEET NO. |
|---|---|---|---|---|---|---|
| 07/01/12 | | | FDOT DESIGN STANDARDS 2013 | SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT | 11871 | 1 |




SIGN SUPPORT WELDMENT DETAIL
(Staggered Anchor Rod Pattern shown; Linear Anchor Rod Pattern similar)

* See Table 1, Sheet 1.
** See Table 2, this Sheet.

TABLE 2 - BASE PLATE TYPE AND ANCHOR ROD SIZING

| Index No. | Type/Application | Base Plate Type | Anchor Rod Ø |
|---|---|---|---|
| 410 | Full Wall | B | 1" |
| 410 | Cantilever or L-Wall | A | |
| 420 & 425 | When Clear Space between Dual Bridge Traffic Railing is ≤ 4'-0" | A | |
| 421 | All Applications | A | |
| All listed above Plus 414 & 415 | Temporary Signs | C *** | ¾" *** |

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



| LAST REVISION | REVISION | DESCRIPTION: | | | INDEX NO. | SHEET NO. |
|---|---|---|---|---|---|---|
| 07/01/12 | | | FDOT DESIGN STANDARDS 2013 | SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT | 11871 | 2 |