

# ORIGINATION FORM

Proposed Revisions to a Standard Plans Index  
(Please provide all information – Incomplete forms will be returned)

## Contact Information:

Date: September 5, 2017  
Originator: **Richard Stepp**  
Phone: (850) 414-4313  
Email: richard.stepp@dot.state.fl.us

## Standard Plans:

Index Number: **11871**  
Sheet Number (s): 1  
Index Title: Single Post Median Barrier Mounted Sign Support



## Summary of the changes:

Update concrete section for new Single-Slope Concrete Barrier.

## Commentary / Background:

This is part of the Index redevelopment project for Single-Slope Concrete Barrier and Pier Protection Barrier.

## Other Affected Offices / Documents: (Provide name of responsible personnel)

- | Yes                                 | No                                  |                                      |
|-------------------------------------|-------------------------------------|--------------------------------------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/>            | Other Standard Plans – Richard Stepp |
| <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: (Email or hand deliver package to Derwood Sheppard)

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

## Implementation:

- Design Bulletin (Interim)    DCE Memo    Program Mgmt. Bulletin    FY-Standard Plans (Next Release)

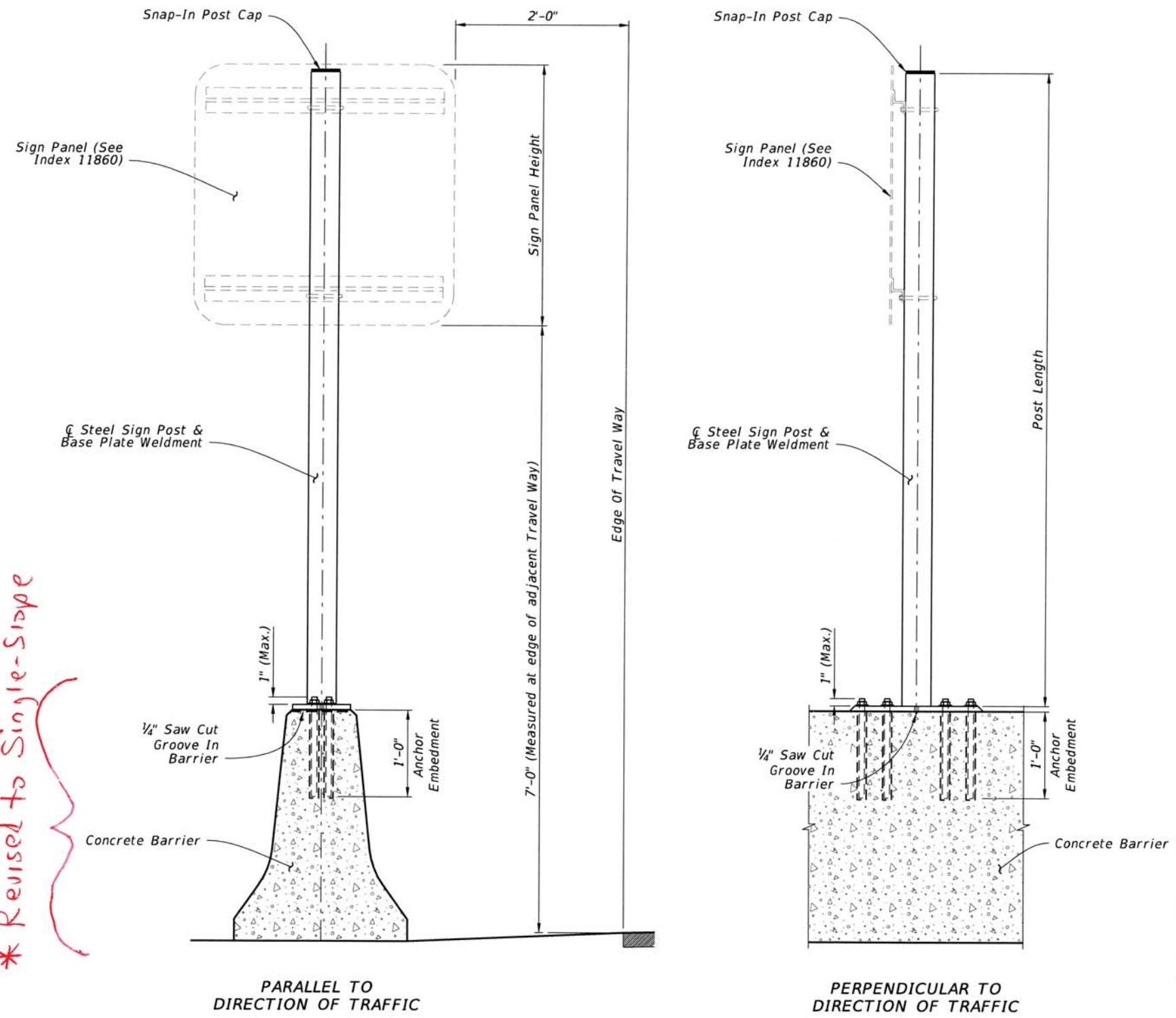
Contact the Roadway Design Office for assistance in completing this form

**NOTES:**

1. Work with Index 11860.
2. Shop Drawings: Not required.
3. Materials:
  - A. Steel Plate: ASTM A36 or ASTM A709 Grade 36
  - B. Steel Pipe (Support Post): ASTM A501 Schedule 40
  - C. Galvanized U-Bolts, Nuts and Plate Washer
    - a. U-Bolts: ASTM A449
    - b. Hex Nuts: ASTM A 536 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 Section 931 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 Section 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 section 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 reinforcement; 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.

\* Revised to Single-Slope



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

ELEVATION

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

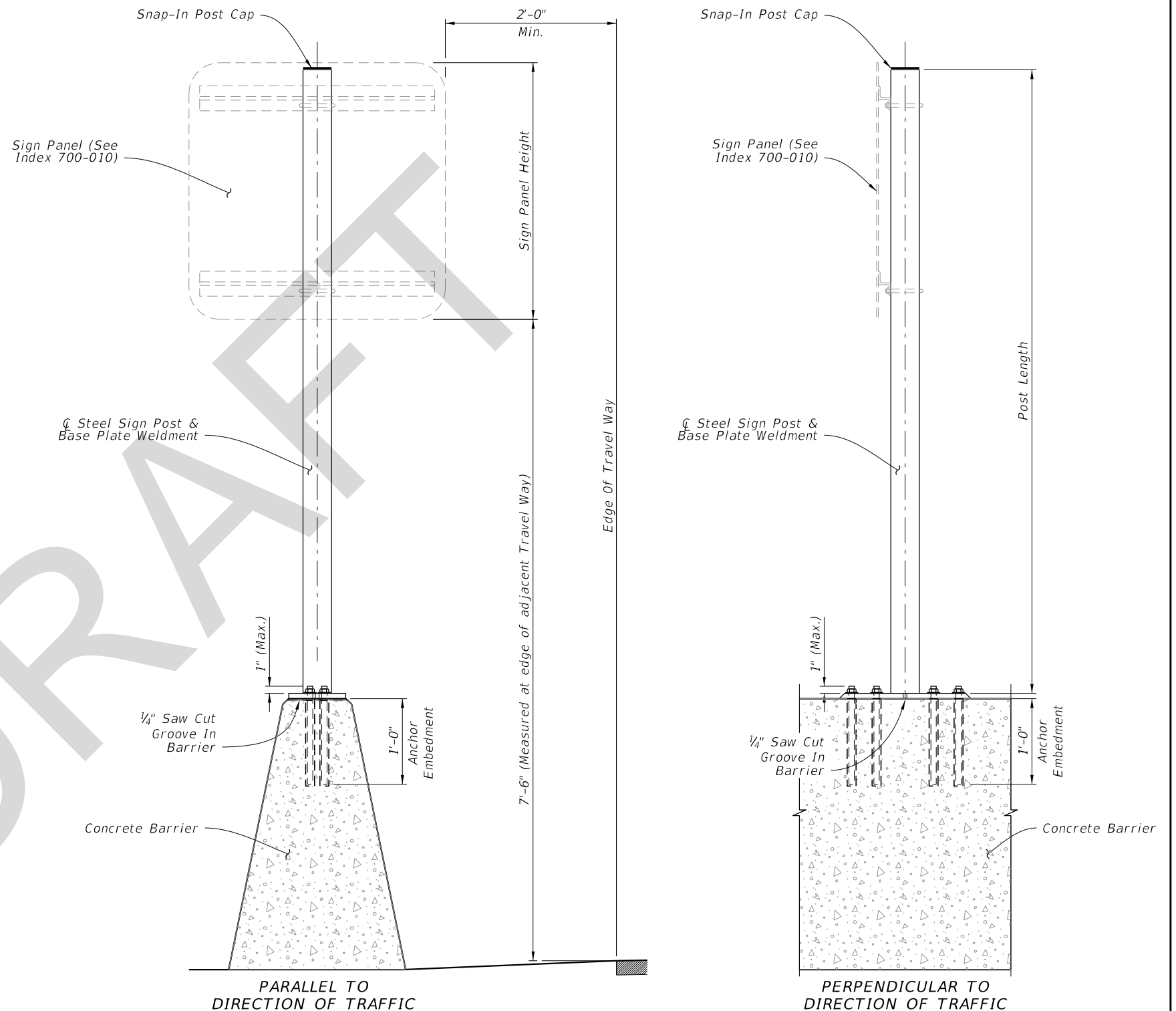
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**NOTES:**

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 A501 Schedule 40
  - C. Galvanized U-Bolts, Nuts and Plate Washer
    - a. U-Bolts: ASTM A449
    - b. Hex Nuts: ASTM A 536 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 Section 931 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 Section 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 section 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
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  - 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.

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



(Index 521-001 Median Barrier shown; others similar)

ELEVATION

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LAST REVISION 11/01/17	REVISION	DESCRIPTION:		FY 2018-19 STANDARD PLANS	SINGLE POST MEDIAN BARRIER MOUNTED SIGN SUPPORT	INDEX 700-013	SHEET 1 of 2
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