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# Proposed Revisions to a Standard Plans Index

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

**Standard Plans:** Index Number: 521-510

Sheet Number (s): 1 and 4 of 5

Index Title: CONCRETE BARRIER/NOISE WALL (8'-0")

## **Contact Information:**

Date: March 24, 2023 Originator: Joshua Turley

Phone: (850) 414-4475

Email: joshua.turley@dot.state.fl.us

**Summary of the changes:** 

Sheet 1: Deleted section cut lines A-A.

Sheet 4: Corrected reinforcing steel estimated quantities.

## Commentary / Background:

The estimate for reinforcing steel was slightly off for the CIP version. We updated the estimate.

<b>Other</b>	r Affe	ected Offices / Documents: (Provide name of person contacted)
Yes	No	
		Other Standard Plans —

Other Standard Plans

▼ FDOT Design Manual –

Basis of Estimates Manual – Standard Specifications – 521-723

Approved Product List –

✓ Construction –

✓ Maintenance –

### Origination Package Includes: (Submit package to Rick Jenkins) **Implementation:**

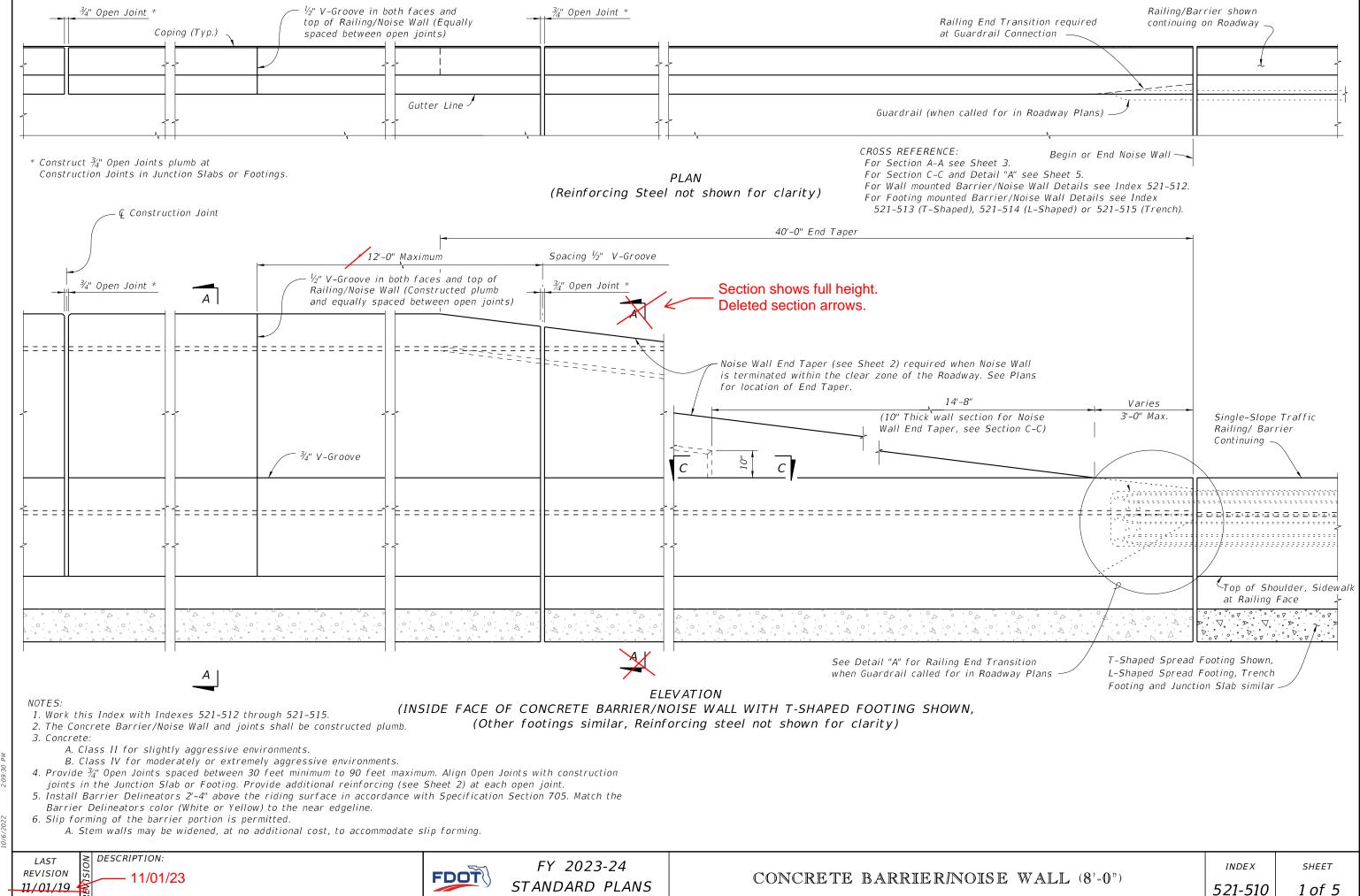
Yes N/A ☐ Design Bulletin (Interim) ☐ DCE Memo

Redline Mark-ups

Revised or Proposed Standard Plan Instruction (SPI) Program Mgmt. Bulletin

✓ Other Support Documents FY-Standard Plans (Next Release)

Contact the Roadway Design Office for assistance in completing this form



#### ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES ITEM UNIT QUANTITY CY/LF0.107 Concrete (Railing) Concrete (Noise Wall) CY/LF0.136 LB/LF <del>- 69.36</del>-Reinforcing Steel (Typical) 226.85 Additional Reinf. @ Open Joint LB

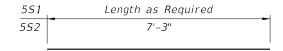
**CHANGED TO:** 81.55 241.58

(The above quantities are based on the Concrete Barrier/ Noise wall typical section, (excluding junction slab or footing)

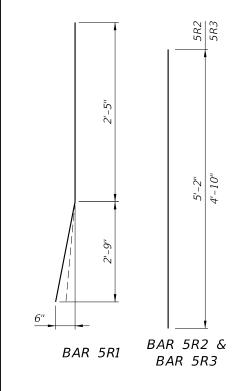
**- 11/01/23** 

## REINFORCING STEEL BENDING DIAGRAMS

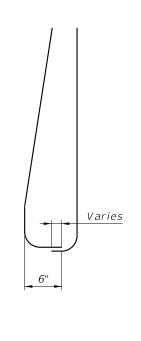
BILL OF REINFORCING STEEL					
MARK	SIZE	LENGTH			
R1	5	5'-2"			
R2	5	5'-2 <sup>1</sup> / <sub>2</sub> "			
R3	5	4'-10''			
<i>51</i>	5	As Reqd.			
52	5	7'-3"			
V (Wall)	5	6'-6 <sup>1</sup> / <sub>2</sub> "			
V (T-Footing)	5	7'-8½"			



BARS 551 & 552



1'-101/2" 9"



(Field Cut and Bend for Railing End Transition)

STIRRUP BAR 5V

END STIRRUP BAR 5V To Be Field Cut (Railing End Transition)

### REINFORCING STEEL NOTES:

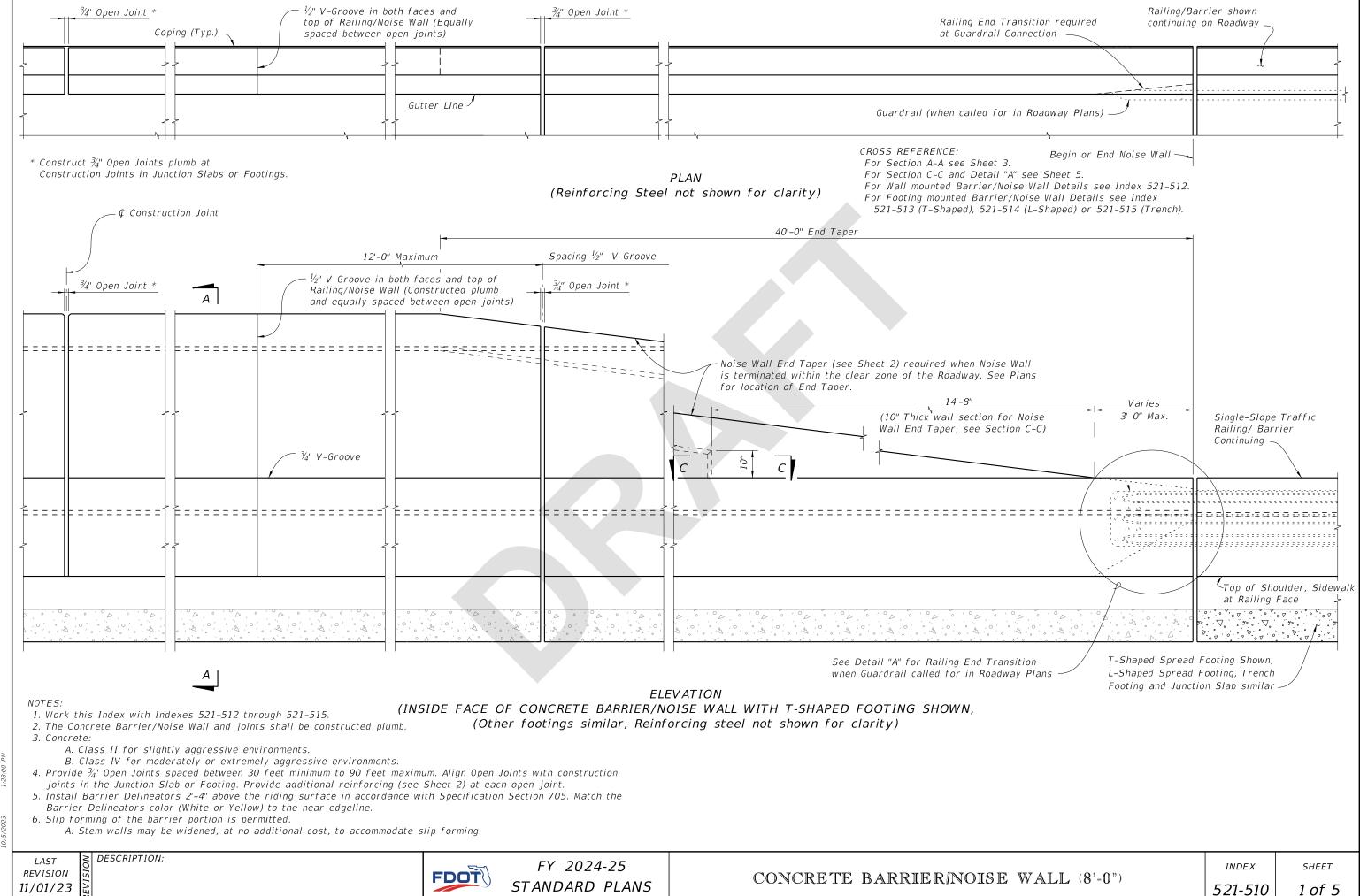
- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- 4. Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5R, 5S1 and 5W shall be a minimum of 2'-2".
- The Contractor may use Welded Wire Reinforcement (WWR) when approved by the Engineer. WWR must consist of deformed wire meeting the requirements of Specification Section 931.
- 6. See Index 521-514 and 521-515 for L-shaped and Trench footing vertical reinforcing.

CROSS REFERENCE:

See Index 521-512 for Junction Slab Details and Indexes 521-513 thru 521-515 for additional footing details.

DESCRIPTION: REVISION 11/01/18

FDOT

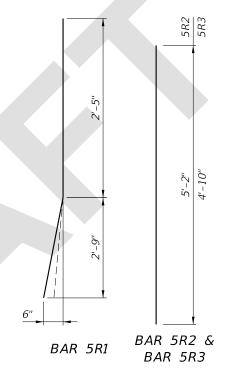


#### ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES ITEM UNIT QUANTITY Concrete (Railing) CY/LF0.107 Concrete (Noise Wall) CY/LF0.136 LB/LF 81.55 Reinforcing Steel (Typical) Additional Reinf. @ Open Joint LB 241.58

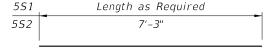
(The above quantities are based on the Concrete Barrier/ Noise wall typical section, (excluding junction slab or footing)

## REINFORCING STEEL BENDING DIAGRAMS

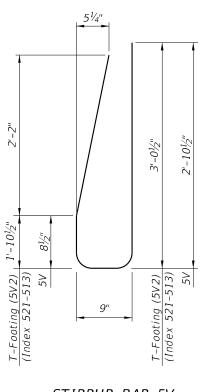
BILL OF REINFORCING STEEL					
MARK	SIZE	LENGTH			
R1	5	5'-2"			
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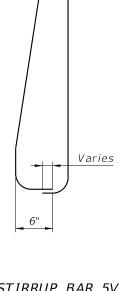
(Field Cut and Bend for Railing End Transition)



BARS 5S1 & 5S2



STIRRUP BAR 5V



END STIRRUP BAR 5V To Be Field Cut (Railing End Transition)

## REINFORCING STEEL NOTES:

- 1. All bar dimensions in the bending diagrams are out to out.
- 2. All reinforcing steel at the open joints shall have a 2" minimum cover.
- 3. Bars 5R shall be one continuous or lap spliced bar. No mechanical couplers are permitted.
- 4. Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5R, 5S1 and 5W shall be a minimum of 2'-2".
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CROSS REFERENCE: See Index 521-512 for Junction Slab Details and Indexes 521-513 thru 521-515

for additional footing details.

LAST REVISION 11/01/23

DESCRIPTION:

FDOT