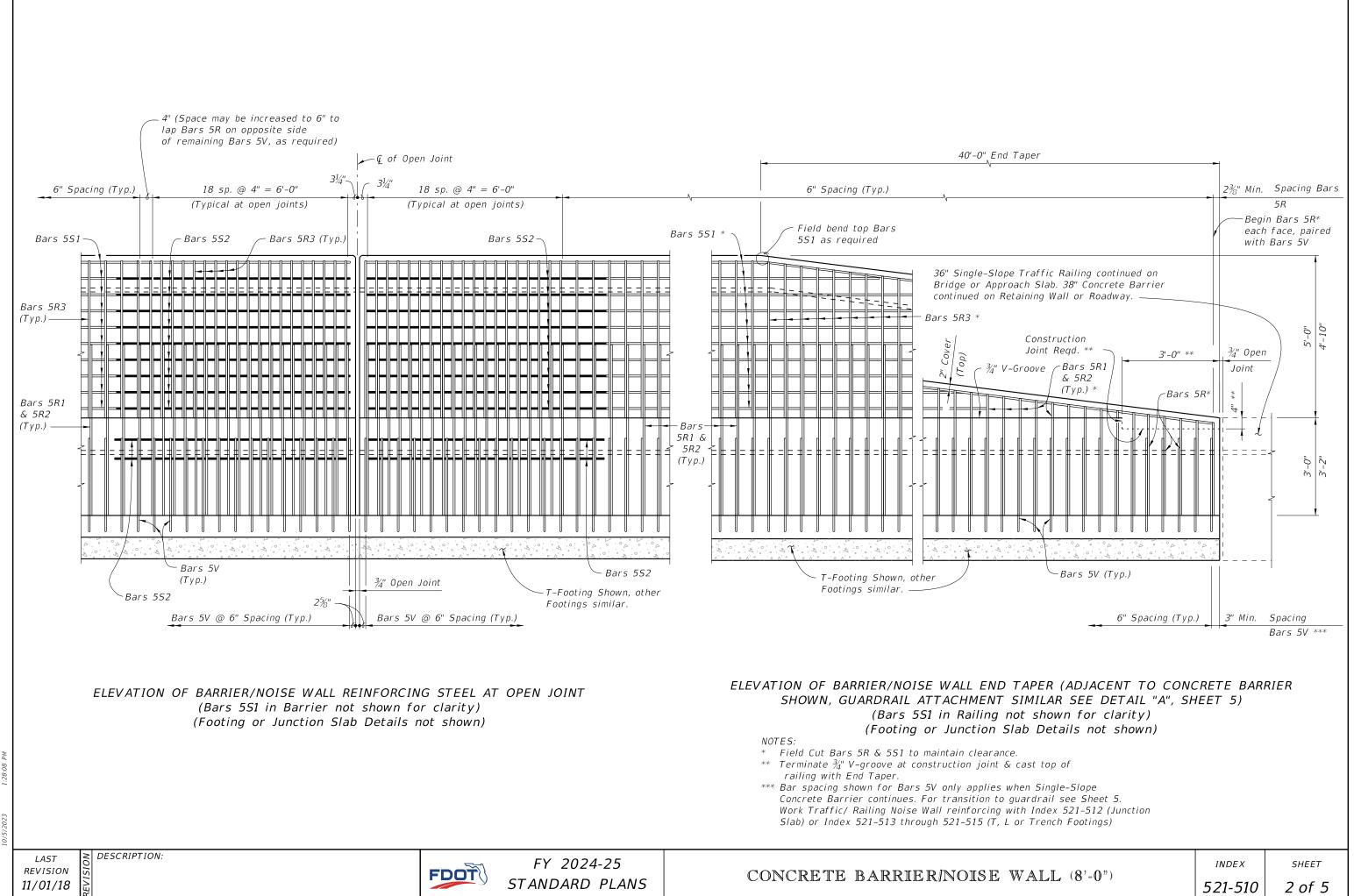
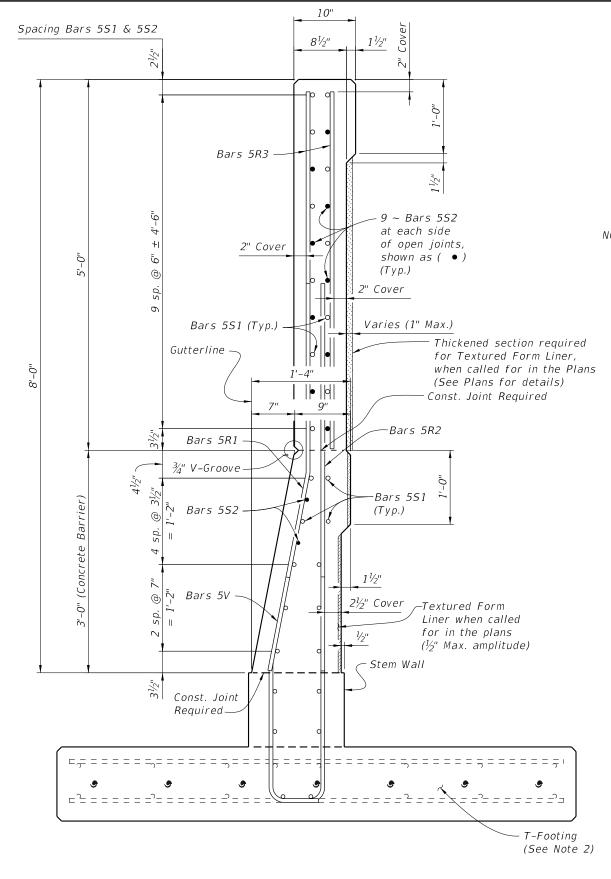


11/01/23





SECTION A-A TYPICAL SECTION THRU CONCRETE BARRIER/NOISE WALL AT OPEN JOINT (Section Thru T-Footing Shown, Section Thru Junction Slab, L or Trench Footings similar)

CROSS REFERENCE:

For locations of Section A-A see Sheet 1. For location of View B-B, see Sheet 5. For Detail "A", see Sheet 5

NOTES:

1. Bars 5V shown are for T-Shape footings. 5V for Junction Slab, L-Shape and Trench footings are similar.

2. Foundation Details:

Index 521-512 (Junction Slab) Index 521-513 (T-Shape) Index 521-514 (L-Shape) Index 521-515 (Trench)

> 1'-1" 31/4" 93/4" 2" Cover (Top) **Q** Thrie Beam Terminal Connector Bolts -Bars 5R (Field Cut to maintain cover) Bars 5S1 (Field Bend as required to maintain cover (Typ.) Bars 5V (cut and lap as shown, (See Detail "A" for bar spacings) Riding Surface Const. Joint Required Edge of Stem Stem Wall Wall (See Note 2) Bars 5S (Field Bend as Reqd.)

VIEW B-B END VIEW OF RAILING END TRANSITION FOR GUARDRAIL ATTACHMENT (T-Footing shown, Junction Slab, L or Trench Footings similar)

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DESCRIPTION:

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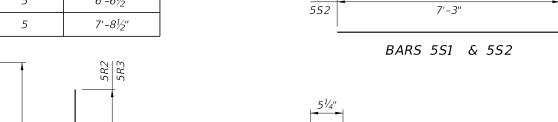
521-510

ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete (Railing)	CY/LF	0.107
Concrete (Noise Wall)	CY/LF	0.136
Reinforcing Steel (Typical)	LB/LF	81.55
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)

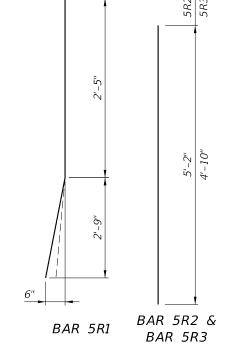
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R1	5	5'-2"	
R2	5	5'-2 ¹ / ₂ "	
R3	5	4'-10''	
<i>S1</i>	5	As Reqd.	
52	5	7'-3"	
V (Wall)	5	6'-6 ¹ / ₂ "	
V (T-Footing)	5	7'-8½"	

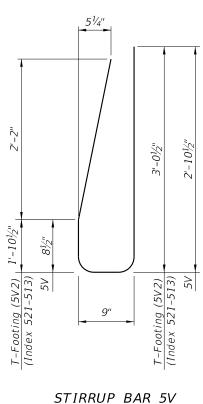


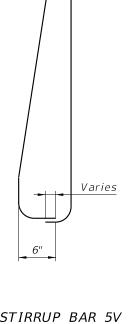
551

Length as Required



(Field Cut and Bend for Railing End Transition)





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".
- 5. 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

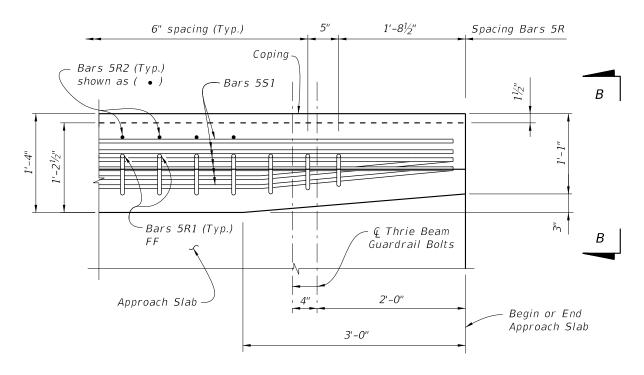
for additional footing details.

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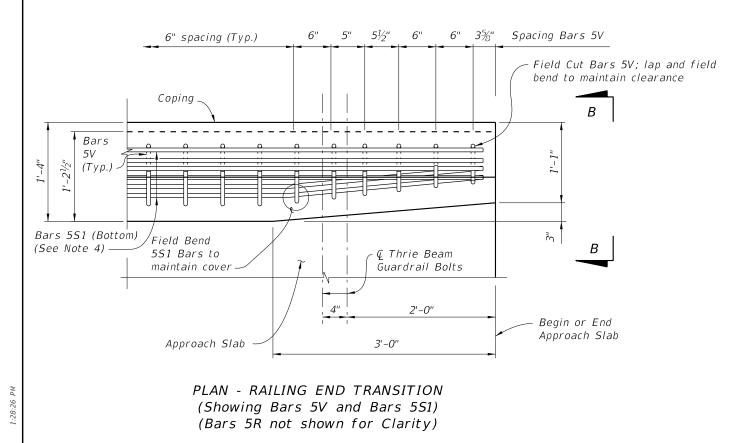
DESCRIPTION:

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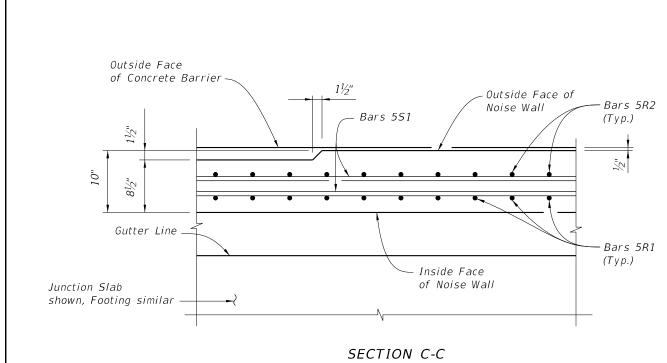
PLAN - RAILING END TRANSITION (Showing Bars 5R, and Bars 5S1) (Bars 5V not shown for Clarity)



DETAIL "A" =

DETAIL "A" NOTES:

- 1. Begin placing Railing Bars 5V at the railing end and proceed toward the guardrail (thrie beam) terminal connector to ensure placement of guardrail bolt holes. Pair Bars 5R with Bars 5V as shown. Clearance of Bars 5R & 5V to guardrail bolt holes shall be checked to prevent cutting of bars if bolt holes are to be drilled. Shift bars locally where conflicts occur.
- 2. For Guardrail connection details see Index 536-001.
- . Omit Railing End Transition if a Single-Slope Concrete Barrier/ Barrier continues beyond the End Taper. See the Plan Sheets.
- 4. Field cut Bars 5R2 to maintain cover. Field cut Bars 5V and lap as necessary to maintain cover; field cut & bend Bars 5R1 front leg (more plumb) to maintain cover and tie to S1 Bars. (See Sheet 1 Notes 1 and 2)



SECTION C-C THRU NOISE WALL END TAPER

CROSS REFERENCE:
For location of Detail "A" see Sheet 1.
For location of Section C-C see Sheet 1.
For View B-B see Sheet 3.

LAST DESCRIPTION:
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CONCRETE BARRIER/NOISE WALL (8'-0")

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