

CONCRETE: For Railing/Noise Wall on bridges see General Notes. For Wall and Footing mounted Railing/Noise Wall, concrete shall be Class II for slightly aggressive environments and Class IV for moderately or extremely aggressive environments.

NAME, DATE AND BRIDGE NUMBER: For Railing/Noise Wall on bridges, the Name and Bridge Number shall be placed on the Traffic Railing so as to be seen on the driver's right side when approaching the bridge. The Date shall be placed on the driver's left side when approaching the bridge. The Name shall be as shown in the General Notes in the Structures Plans. The Date shall be the year the bridge is completed. For a widening when the existing railing is removed, use both the existing date and the year of the widening. Black plastic letters and figures 3" in height may be used, as approved by the Engineer, in lieu of the letters and figures formed by $\frac{3}{8}$ " V-Grooves. V-Grooves shall be formed by preformed letters and figures.

BARRIER DELINEATORS: Barrier Delineators shall meet Specification Section 993. Install Barrier Delineators 2'-4" above the riding surface at the spacing shown in the table below. Barrier Delineator color (white or yellow) shall match the color of the near edgeline. The cost of the Barrier Delineators shall be included in the Contract Unit Price for the Traffic Railing/Noise Wall.

Sealant (4" wide)

BARRIER DELINEATOR SPACING				
Distance – Edge of Travel Lane to Face of Railing	Spacing (Ft.)			
< 4'	40'			
4' to 8'	80'			
> than 8'	None Required			

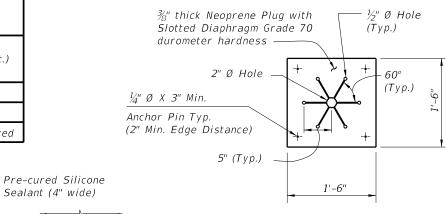
INTERMEDIATE JOINT SEAL NOTES:

- 1. At Intermediate Open Joints, seal the lower 6" portion of the open joint with Pre-cured Silicone Sealant in accordance with Specification Section 932.
- 2. Apply sealant prior to any Class V finish coating and remove all curing compound and loose material from the surface prior to application of bonding agent.
- 3. The cost of the Pre-cured Silicone Sealant shall be included in the Contract Unit Price for the Traffic Railing.

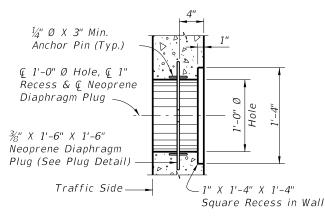
DETAIL "B" - SECTION AT INTERMEDIATE OPEN JOINT

ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES					
ITEM	UNIT	QUANTITY			
Concrete (Railing)	CY/LF	0.104			
Concrete (Noise Wall)	CY/LF	0.145			
Reinforcing Steel (Typical)	LB/LF	78.57			
Additional Reinf. @ Open Joint	LB	430.24			

(The above quantities are based on the bridge mounted typical section, 2% deck cross slope and railing on low side of deck.)



NEOPRENE DIAPHRAGM PLUG DETAIL



TYPICAL SECTION FIRE HOSE ACCESS DETAIL

NOTE:

Fire hose access holes are required at or near fire hydrant locations. Field cut reinforcement as required to maintain 2" minimum cover at access holes. Locate fire hose access holes a minimum of 10'-0'' from $\frac{3}{4}''$ open joints when possible.

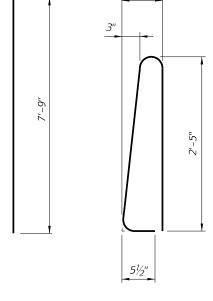
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL					
MARK	SIZE	LENGTH			
Р	5	5'-7"			
R	5	7'-9"			
S1	5	As Reqd.			
52	5	7'-3"			
V (Bridge and Wall)	5	5'-1"			
V (Footing)	5	7'-7"			

BRIDGE CROSS-SLOPE		LOW G	UTTER	HIGH C	GUTTER
		ØA	ØB	ØA	ØB
BRIDGE MOUNTED	0% to 2%	90°	90°	90°	90°
	2% to 6%	93°	87°	87°	9 <i>3</i> °
	6% to 10%	96°	84°	84°	96°
	L & FOOTING MOUNTED	90°	90°	90°	90°

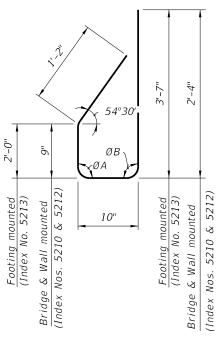
5*S* 1 Length as Required 552

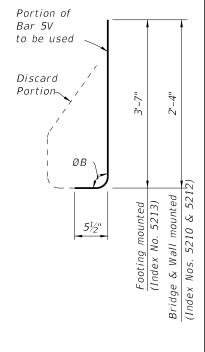
BARS 5S1 & 5S2



STIRRUP BAR 5R BAR 5P (Field Cut for End Taper)

REINFORCING STEEL NOTES:

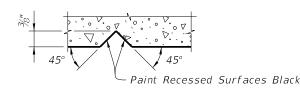




STIRRUP BAR 5V

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

- 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.
- Bars 5S1 may be continuous or spliced at the construction joints. Lap splices for Bars 5S1 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.
- 5. Bars 5R shall be one continuous bar. No mechanical couplers or lap splices are permitted.
- 6. See Index Nos. 5214 and 5215 for Bars 5V and 5T in L-shaped and Trench footings.



CROSS REFERENCE: For locations of Detail "B", see Sheet 1.

SECTION THRU RECESSED "V" GROOVE TO FORM INSCRIBED LETTERS AND FIGURES

∠ DESCRIPTION:

FDOT 2014 **DESIGN STANDARDS**

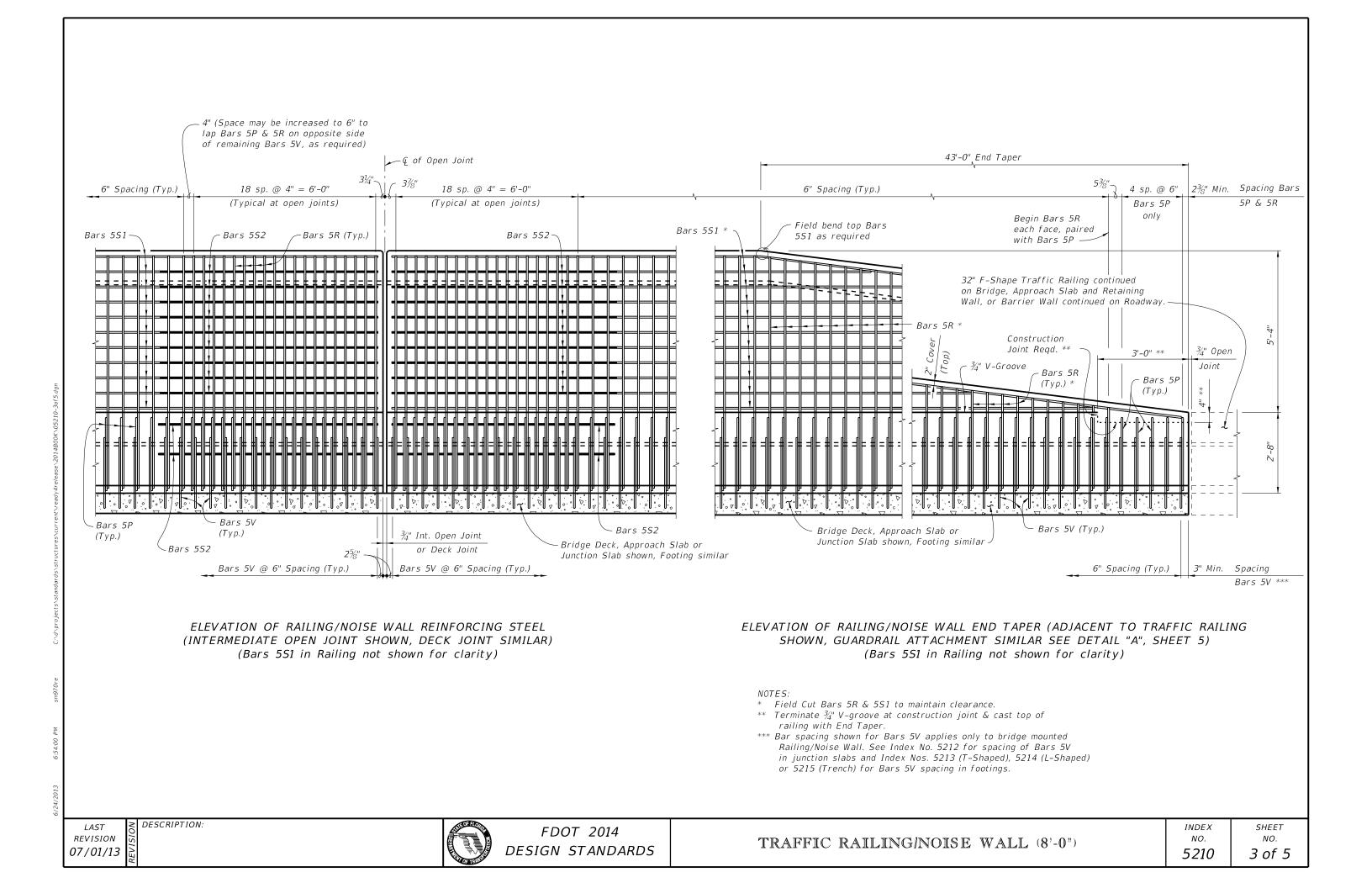
TRAFFIC RAILING/NOISE WALL (8'-0")

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LAST

REVISION

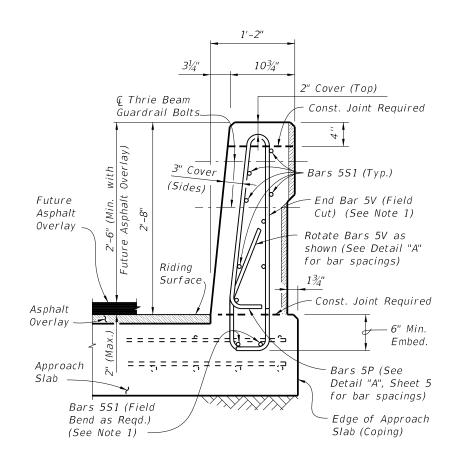
07/01/13



CROSS REFERENCE: For locations of Section A-A see Sheet 1. For location of View B-B, see Sheet 5.

NOTES:

1. Bottom Bars 5S1 and End Bar 5V are not present in L-Shaped (Index No. 5214) or Trench (Index No. 5215) Footings. For Bridge Mounted installations, see the Superstructure Sheets for Deck Steel.



VIEW B-B END VIEW OF RAILILNG END TRANSITION FOR GUARDRAIL ATTACHMENT AT END OF APPROACH SLAB (Flexible Pavement Approach Slab Shown, Rigid Pavement Approach Slab, Junction Slab or Footing Similar)

LAST REVISION 07/01/13

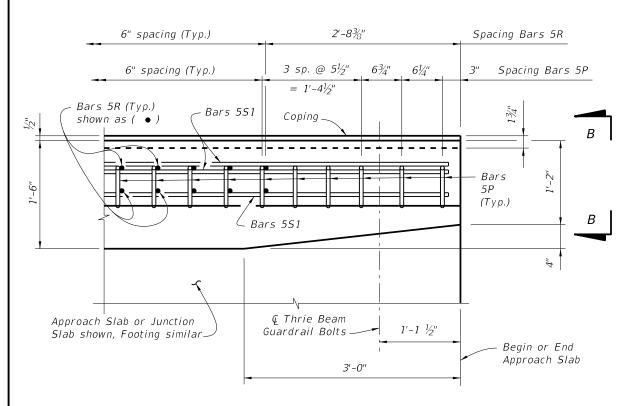
≥ DESCRIPTION:



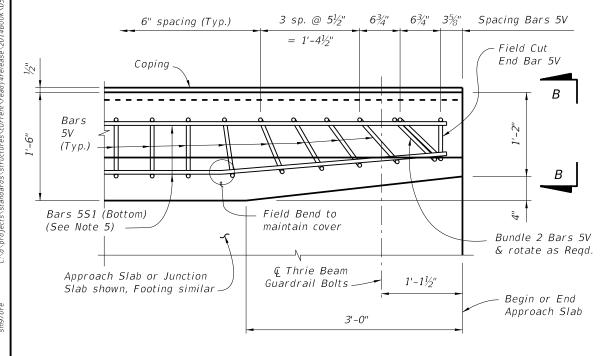
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TRAFFIC RAILING/NOISE WALL (8'-0")

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PLAN - RAILING END TRANSITION (Showing Bars 5P, 5R, and Bars 5S1) (Bars 5V, Noise Wall & Reinforcement not shown for Clarity)



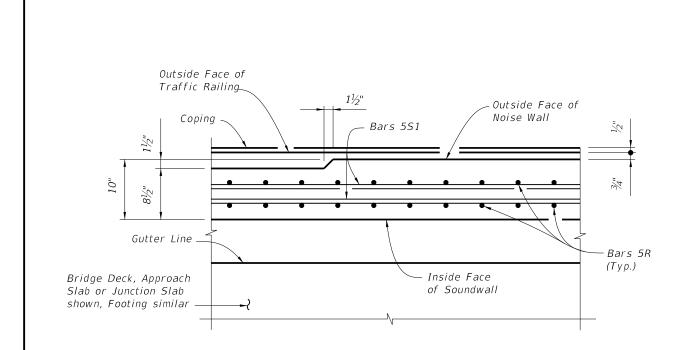
PLAN - RAILING END TRANSITION (Showing Bars 5V and Bars 5S1) (Bars 5P, 5R, Noise Wall & Reinforcement not shown for Clarity)

= DETAIL "A" ===

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DETAIL "A" NOTES:

- 1. Rotate Bars 5P & 5V in Railing End Transition to maintain cover. Begin placing Railing Bars 5P and 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 5P as shown. Clearance of Bars 5P, 5R & 5V to guardrail bolt holes shall be checked to prevent cutting of bars if holes are to be drilled. Shift bars locally where conflicts occur.
- 2. For Guardrail connection details see Design Standards Index No. 400.
- Omit Raililing End Transition if a 32" F-Shape Traffic Railing is used beyond the End Taper. See the Plan Sheets. If Railing End Transition is omitted, space Bars 5P, 5R & 5V at 6" as shown above (Typ.).
- 4. For L-Shaped (Index No. 5214) and Trench (Index No. 5215) footings, Bars 5V and 5T replace Bars 5V as shown at left. Details and bar spacing shown apply except that it is not necessary to rotate Bars 5V and 5T to maintain cover and there is no field cut End Bar 5V.
- 5. Bottom Bars 5S1 are not present in L-Shaped or Trench Footings.



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 4.

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∠ DESCRIPTION: