Origination Form
Proposed Revisions to a Standard Plans Index

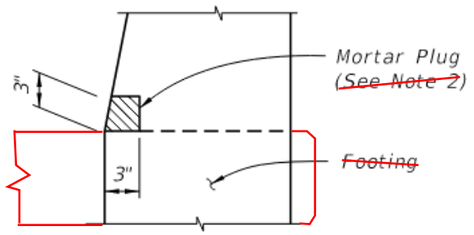
Originator:	Turley, Joshua	**Index Number:**	521-509
Date:	4/29/2025	**Sheet Number(s):**	Sheet 4
E-mail:	Joshua.Turley@dot.state.fl.us	**Index Title:**	TRAFFIC RAILING/NOISE WALL (8'-0") - BRIDGE

Summary of the changes:
Sheet 4: Added a grout plug option as an alternate detail.

Commentary/Background:
Contractors wanted a more constructible and economical option that would still perform the intended function of preventing water to flow out between the open joints.

Other Affected Documents/Offices	Person Contacted	Affected (Yes/No)
Other Standard Plans		No
FDOT Design Manual		No
Standard Specifications		No
Basis of Estimates Manual		No
Approved Product List		No
Construction Office		No
Maintenance Office		No

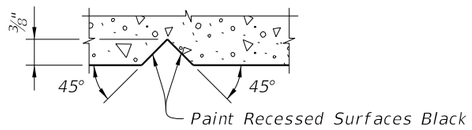
Implementation
["FY-Standard Plans (Next Release)"]



Option II

~~DETAIL "A" - SECTION AT OPEN JOINT~~

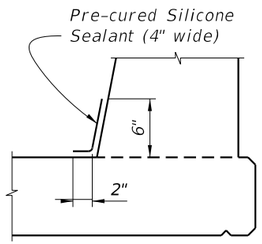
(Alternative Mortar Plug at Open Joint)



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

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.



4. As an alternative option, a mortar plug may be used to seal the joint as shown in the mortar plug detail and in accordance with Specification Section 400.

DETAIL "B" - ~~SECTION AT INTERMEDIATE OPEN JOINT~~ Option I

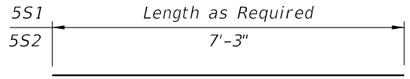
ESTIMATED TRAFFIC RAILING/NOISE WALL QUANTITIES		
ITEM	UNIT	QUANTITY
Concrete (Railing)	CY/LF	0.107
Concrete (Noise Wall)	CY/LF	0.136
Reinforcing Steel (Typical)	LB/LF	69.36
Additional Reinf. @ Open Joint	LB	226.85

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

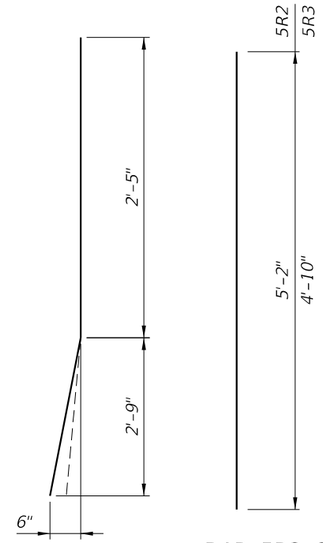
REINFORCING STEEL BENDING DIAGRAMS

BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
R1	5	5'-2"
R2	5	5'-2½"
R3	5	4'-10"
S1	5	As Reqd.
S2	5	7'-3"
V	5	6'-6½"

BRIDGE CROSS-SLOPE		LOW GUTTER		HIGH GUTTER	
		ØA	ØB	ØA	ØB
BRIDGE MOUNTED	0% to 2%	90°	90°	90°	90°
	2% to 6%	93°	87°	87°	93°
	6% to 10%	96°	84°	84°	96°



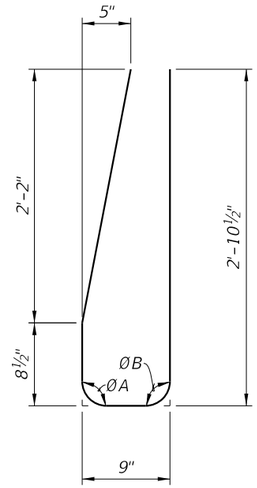
BARS 5S1 & 5S2



BAR 5R1

BAR 5R2 & BAR 5R3

(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 5R2 and 5S1 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.

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

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2026-27

LAST REVISION	REVISION	DESCRIPTION:	FY ~~2025-26~~ STANDARD PLANS	TRAFFIC RAILING/NOISE WALL (8'-0") - BRIDGE	INDEX	SHEET
~~11/01/18~~ 11/01/25					521-509	4 of 5

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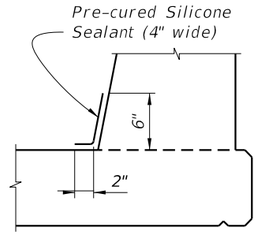
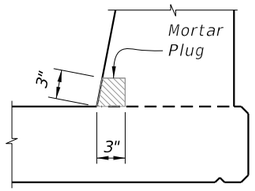
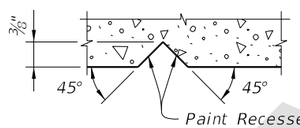


OPTION I



OPTION II
(Alternative Mortar Plug at Open Joint)

DETAIL "B"



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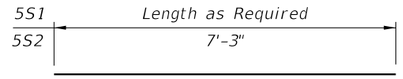

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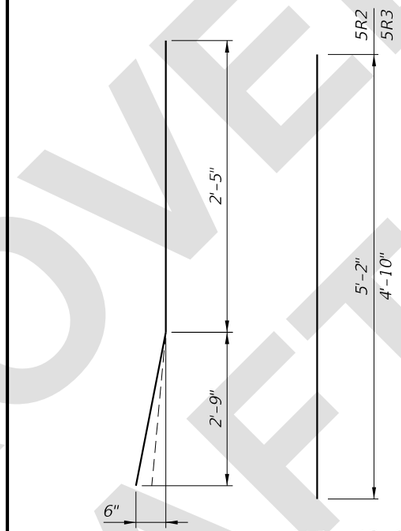

BAR 5R1 BAR 5R2 & BAR 5R3

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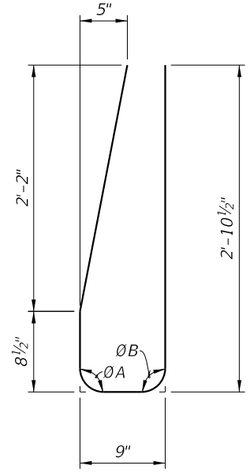

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