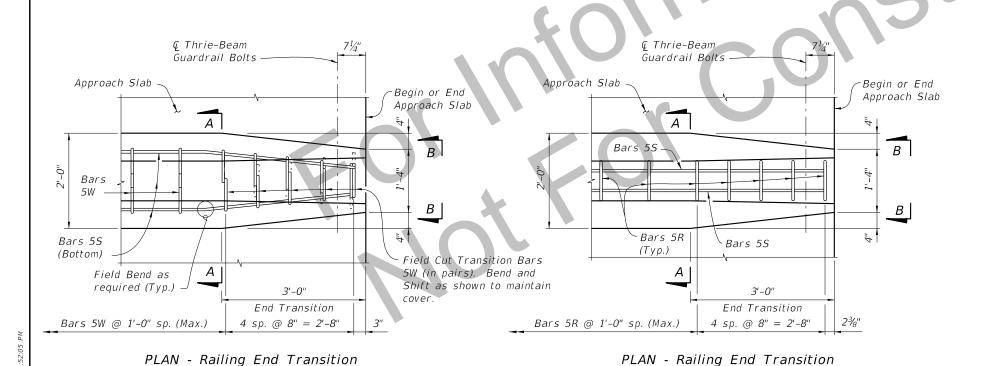


SECTION A-A TYPICAL SECTION THRU TRAFFIC RAILING (SECTION THRU BRIDGE DECK SHOWN -SECTION THRU APPROACH SLAB SIMILAR)



 $11\frac{1}{2}$ " Bars 5R (See Detail "A" for bar spacings) € Thrie-Beam Terminal Connector & Guardrail -Bars 5S (Typ.) 2½" Cover (Sides) Future Field Cut, Shift and Bend Transition Asphalt Bars 5W as shown to maintain cover Overlay 0 (See Detail "A" for bar spacings) Asphalt Overlay Const. Joint Required Riding Surface Approach Slab Bars 5S

VIEW B-B

Begin placing Railing Bars 5R and 5W on Approach Slab at the railing end and proceed toward Begin or End Bridge to ensure placement of guardrail bolt holes. If required, adjustments to the bar spacing for Bars 5R and 5W shall be made immediately adjacent to Begin or End Bridge. Shift and rotate Bars 5R and 5W as required to maintain cover in Railing End Transition.

Omit Railing End Transition and Guardrail if Index 410 Concrete Barrier Wall is used beyond the Approach Slab. See Structures Plans, Plan and Elevation Sheet and Roadway Plans. If Railing End Transition is omitted, extend Typical Section to the end of Approach Slab and space Bars 5R and 5W at 1'-0" (Typ.)

DESCRIPTION: **REVISION** 07/01/16

(Showing Bars 5W and 5S)

FDOT

DETAIL "A"

DEVELOPMENTAL **DESIGN STANDARDS**

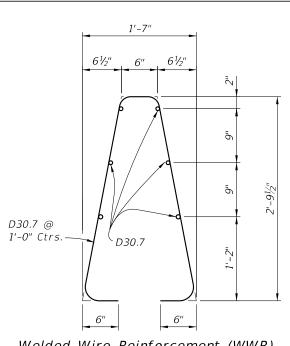
(Showing Bars 5R and 5S)

PARTIAL PLAN VIEW OF BRIDGE DECK AND APPROACH SLAB WITH MEDIAN TRAFFIC RAILING

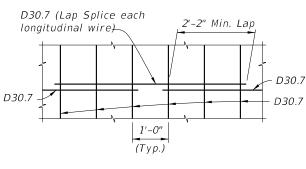
NOTES:

- 1) Median Traffic Railing reinforcement vertical Bars 5W may be shifted up to 1" and rotated up to 10 degrees as required to allow proper placement.
- 2) Transition Stirrup Bars 5W shall be used as required at railing ends adjacent to expansion joints to facilitate placement of bars in acute corners. Place Transition Bars 5W in a fan pattern to maintain spacing. Rotate bars in 10° (Max.) increments as required.
- 3) Median Traffic Railing ends at deck expansion joints shall follow the deck joint with allowance for joint movement. See Structures Plans, Superstructure and Approach Slab Sheets for Details.
- 4) ¾" Intermediate Open Joints and V-Grooves in railing shall be placed perpendicular or radial to the Ç of the median railing. See Structures Plans, Superstructure and Approach Slab Sheets for locations.
- 5) At begin or end approach slab extend slab at the median railing ends 3" (open side) as shown to provide a base for casting of the railing.
- 6) Work this Sheet with Approach Slab Indexes as applicable
- 7) Deck Expansion Joint at begin or end bridge shown. Deck Expansion Joints at & Pier or Intermediate Bents are similar
- Partial Plan Views shown are intended as guides only. See Structures Plans, Superstructure and Approach Slab Sheets for skew angles, joint orientation, dimensions and details.
- 9) If Welded Wire Reinforcement is used in lieu of conventional reinforcement, placement of the WWR vertical elements shall be similar to those shown above. Clipping of horizontal elements to facilitate placement shall be minimized where possible. Where clipping is required, supplement horizontal elements by lap splicing deformed bars with an equivalent area of steel.

DESCRIPTION:



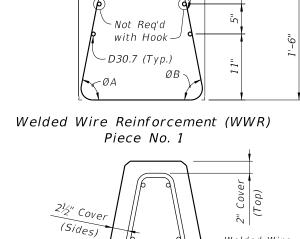
Welded Wire Reinforcement (WWR) Piece No. 2



SPLICE DETAIL (Between WWR Sections)

WELDED WIRE REINFORCEMENT NOTES:

DESCRIPTION:



1'-9"

Optional 90° Hook D30.7 @

Welded Wire

Reinforcement

Piece No. 2

1'-0" Ctrs.

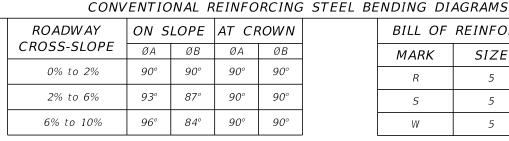
- Welded Wire Reinforcement Piece No. 1

1. At the option of the Contractor Deformed Welded Wire Reinforcement (WWR) may be utilized in lieu of all Bars 5R, 5S and 5W. WWR must meet the requirements of Specification Section 931.

ALTERNATE REINFORCING STEEL (WELDED WIRE REINFORCEMENT) DETAILS

 $3\frac{1}{4}$ " (Typ.)

- 2. WWR at Railing End Transition shall be field bent inward as required (Pieces 1 & 2) to maintain cover. The bottom of Piece 1 shall be cut to allow overlap.
- 3. Place WWR panels so as to minimize the end overhang of longitudinal wires at Railing Ends and Open Joints. Overhangs greater than 6" are not permitted.

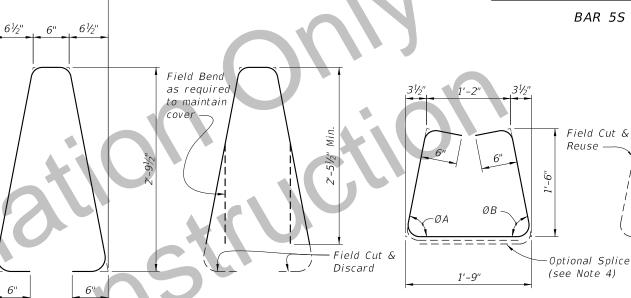


ØA and ØB shall be 90° if Contractor elects to place railing perpendicular to the deck, and approach slabs.

BILL OF REINFORCING STEEL			
MARK	SIZE	LENGTH	
R	5	7'-2"	
S	5	As Reqd.	
W	5	5'-10"	

Length as Required

BAR 5S



TRANSITION STIRRUP BAR 5R

(5 required per Railing

End Transition)

STIRRUP BAR 5W

TRANSITION STIRRUP BAR 5W To Be Field Cut (10 required per Railing End Transition)

ØA or ØB

to match

Typ. Bars

10"

REINFORCING STEEL NOTES:

STIRRUP BAR 5R

1'-7"

- 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 5S may be continuous or spliced at the construction joints. Bar splices for Bars 5S shall be a minimum of 2'-2".
- 4. At the Contractor's option, Bars 5W may be fabricated as a two piece bar with a 1'-2" lap splice of the bottom legs.

Pre-cured Silicone Sealant 4" wide (Typ.) (Typ.)

DETAIL "B" - SECTION AT INTERMEDIATE OPEN JOINT

NTERMEDIATE JOINT SEAL NOTES:

- 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. Include the cost of the Pre-cured Silicone Sealant in the Contract Unit Price for the Traffic Railing.

ESTIMATED TRAFFIC RAILING QUANTITIES			
ITEM	UNIT	QUANTITY	
Concrete	CY/LF	0.159	
Reinforcing Steel	LB/LF	23.99	

(The above quantities are based on a crowned roadway, with a 2% cross slope)

REVISION 07/01/16

DEVELOPMENTAL **DESIGN STANDARDS**

TRAFFIC RAILING - (MEDIAN 36" SINGLE-SLOPE)

INDEX NO. D426

SHEET NO. 4 of 4