

STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			

Notes:

All bevels for concrete on this sheet shall be 3/4". Rounded edges with 1" radius may be used in lieu of bevels along top of rail.

All reinforcing bars shall be Corrosion Resistant Reinforcing Steel, Class ...

Each terminal wall shall be cast as one piece.

The Contractor shall determine all details necessary for installation.

All concrete shall be Class A4.

For details of wingwall below construction joint, see abutment sheets.

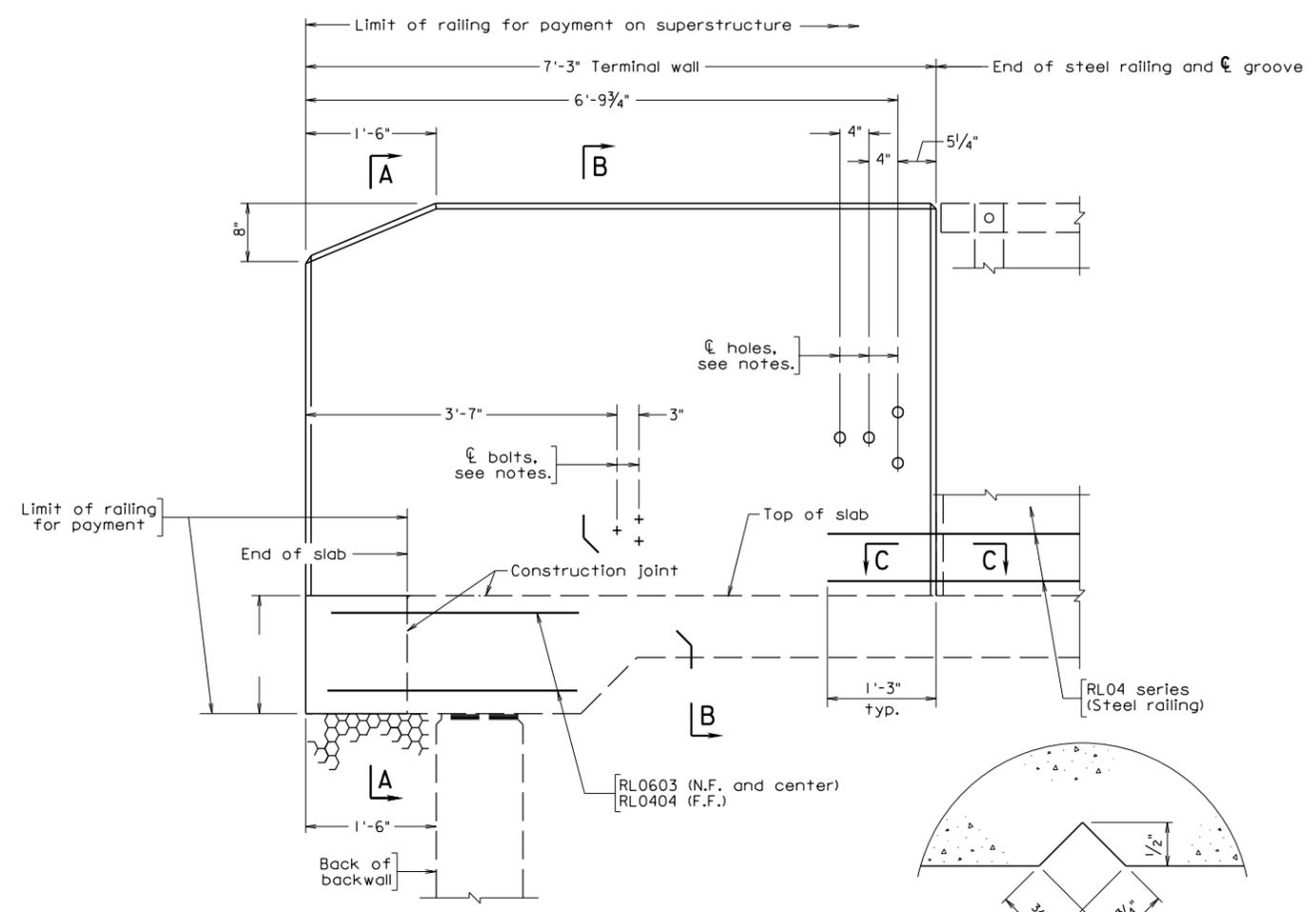
Terminal walls are detailed to take guardrail attachment GR-FOA-1.

Holes, where shown, shall be formed with sleeves of 1/2" diameter nominal pipe.

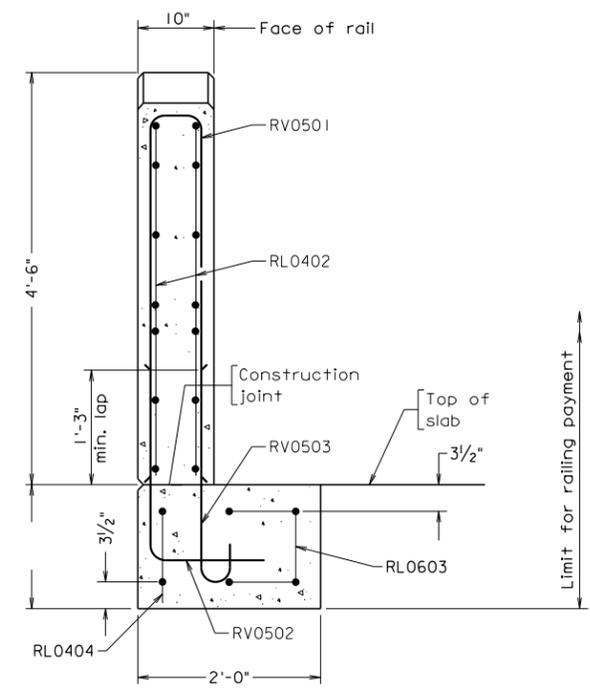
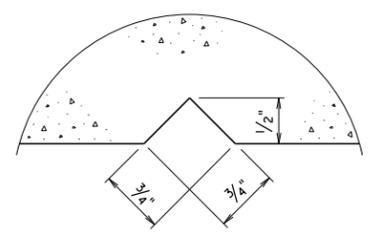
Bolts for guardrail attachment where shown shall be 5/8" diameter expansion anchor bolts 6" long to be drilled and installed when rub rail is attached.

For details and reinforcing steel schedule of steel railing, see sheet ...

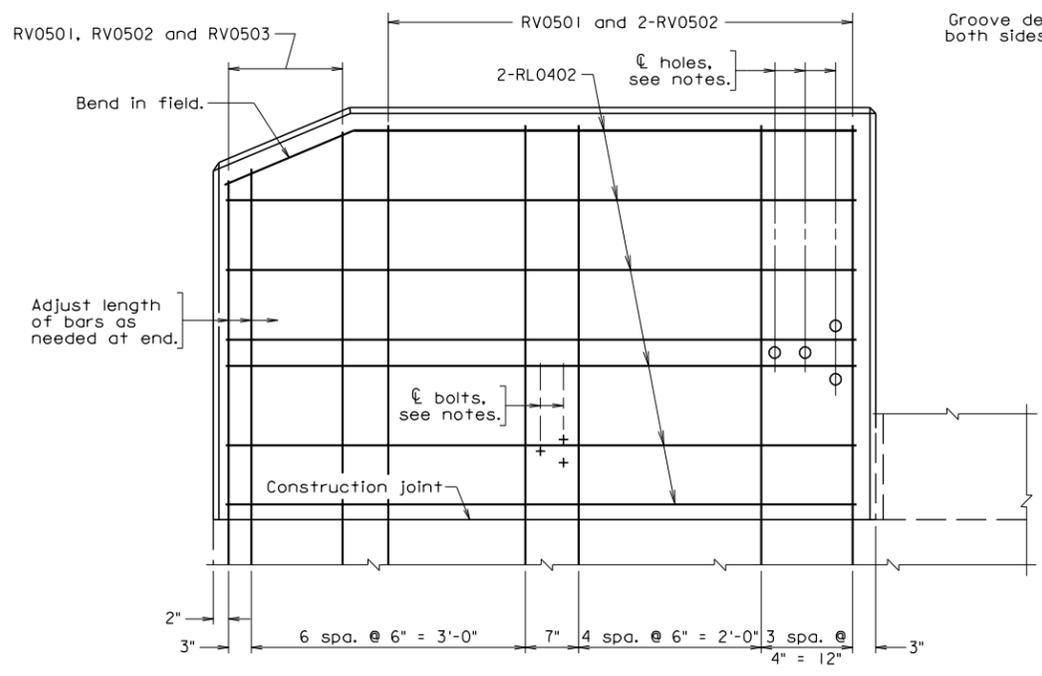
Bid item for terminal wall shall include concrete noted in plans and reinforcing steel indicated in Reinforcing Steel Schedule.



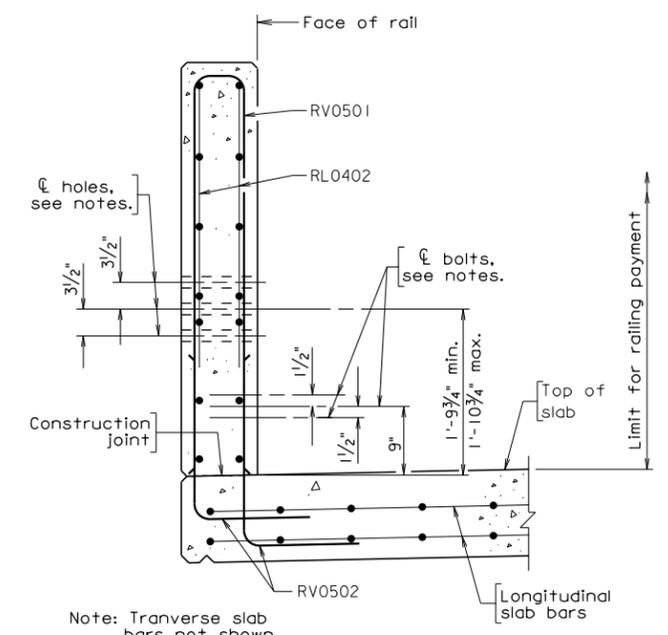
DECK SLAB EXTENSION ABUTMENT



SECTION A-A



TERMINAL WALL



SECTION B-B

REINFORCING STEEL SCHEDULE

RV0501	RV0502	RV0503			
Mark	Size	No.	Pin ø	Length	Location
RL0402	#4			6'-11"	Terminal wall
RL0603	#6			4'-0"	Terminal wall end support
RL0404	#4			4'-0"	Terminal wall end support
RV0501	#5		3 3/4"	9'-0"	Terminal wall
RV0502	#5		3 3/4"	3'-0"	Terminal wall
RV0503	#5		3 3/4"		Terminal wall

Dimensions in bending diagram are out-to-out of bars, except as shown.

br27t8.dgn

12-14-2012

BR27T-8

Sealed and Signed by:
Julius F.J. Volgyi Jr.
Lic. No. 010487
On the date of
December 14, 2012

A copy of the original sealed and signed standard drawing is on file in the Central Office.

VDOT S&B DIVISION
RICHMOND, VA
STRUCTURAL ENGINEER

Scale: 1" = 1'-0" unless otherwise noted.

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COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
54" BR27C/BR27D TERMINAL WALL					
No.	Description	Date	Designed: S&B, DIV	Date	Plan No.
			Drawn: S&B, DIV		BR27T-8
			Checked: S&B, DIV		
Revisions					

54"-BR27_ STEEL RAILING

BR27T-SERIES

TERMINAL WALL ON SUPERSTRUCTURE WITH DECK SLAB EXTENSION

NOTES TO DESIGNER:

The BR27_steel railing uses the BR27T-series for concrete terminal walls in conjunction with the BR27C or BR27D series.

This concrete terminal wall standard has a height of 4'-6" from the roadway surface.

Include this standard when using standard BR27C series (BR27C-13 thru BR27C-15) or BR27D series (BR27D-9 and BR27D-10) with terminal wall on superstructure with deck slab extension.

Terminal wall is detailed on the deck slab extension of a superstructure or a slab span. A 2'-0" wide section on inside of superstructure (for BR27C-13 and BR27D-9) or at the edge of superstructure (for BR27C-14, BR27C-15 and BR27D-10) is extended further from the end of deck slab to an overall distance of 1'-6" from the end of the terminal wall to the back of the abutment backwall. This concrete section and the terminal wall shall be part of the steel railing for payment. The superstructure plan would need to be adjusted to reflect the location of the slab extension at the end of the deck slab. This standard may be modified by omitting the details and notes for guardrail attachment when used as an on outside of structure in conjunction with an inside traffic barrier for the shared use path (SUP). For geometrics of SUP, see Office Practice, Vol. V-Part 2, Chapter 6, sheets 4-10 to 4-16.

It is the Contractor's responsibility to determine the number of reinforcing bars required as well as any details or dimensions. Therefore, these items are to be left blank in the Reinforcing Steel Schedule.

Transverse bars and longitudinal bars of the deck slab or slab span are included in the Superstructure Reinforcing Steel Schedule.

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD:

ELEVATION:

Provide dimension for terminal wall end support.

SECTION A-A:

For projects with bituminous overlay, modify 4'-6" height of terminal wall so that this dimension will be established from top of overlay surface.

Provide dimension for terminal wall end support.

54"-BR27_ STEEL RAILING

BR27T-SERIES

TERMINAL WALL ON SUPERSTRUCTURE WITH DECK SLAB EXTENSION

ADD THE FOLLOWING NOTES, DIMENSIONS, DETAILS, ETC. TO STANDARD: (cont'd)

SECTION B-B:

For projects with bituminous overlay, modify vertical dimension 9" and the range (1'-9³/₄" min. – 1'- 10³/₄" max.) for location of bolts so that these dimensions will be established from top of overlay surface.

NOTES:

Complete first note by adding the Class I, II or III of corrosion resistant reinforcing steel required. For additional information on corrosion resistant reinforcing steels (CRR), see Structure and Bridge Division Memorandum (current IIM-S&B-81).

Complete sheet no. for details of deck slab extension.

Complete sheet no. for details and reinforcing steel schedule of steel railing.

REINFORCING STEEL SCHEDULE:

Add dimension and length for rebar RV0503.

TITLE BLOCK:

Replace standard designation with Plan No.

STANDARD BR27T-8: NOTES TO DESIGNER

VOL. V - PART 3
DATE: 07Aug2012
SHEET 3 of 3
FILE NO. BR27T-8-3