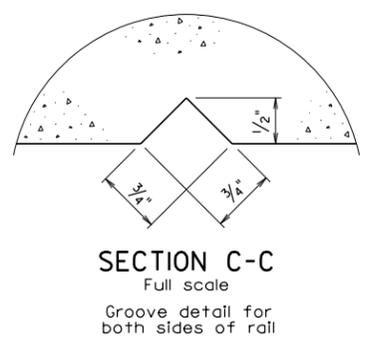
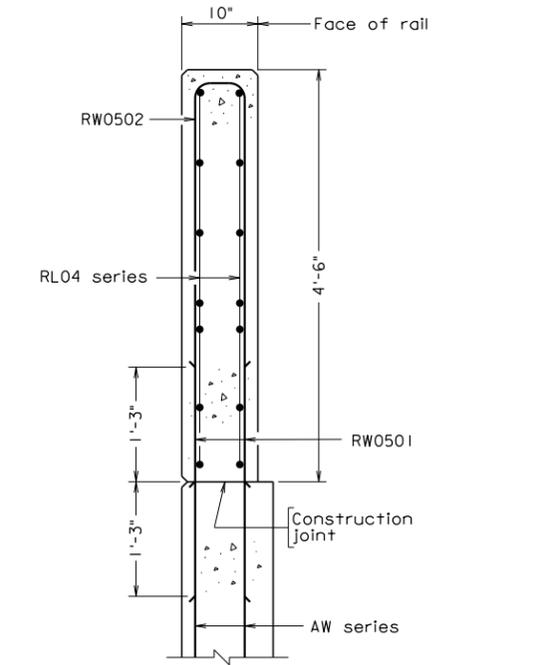
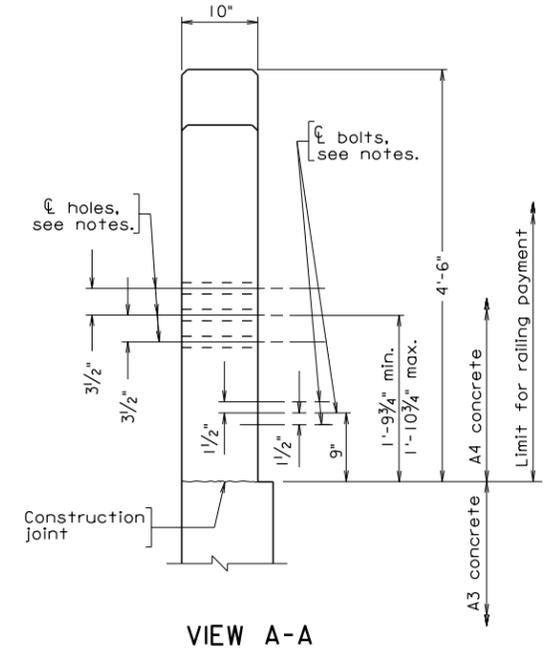
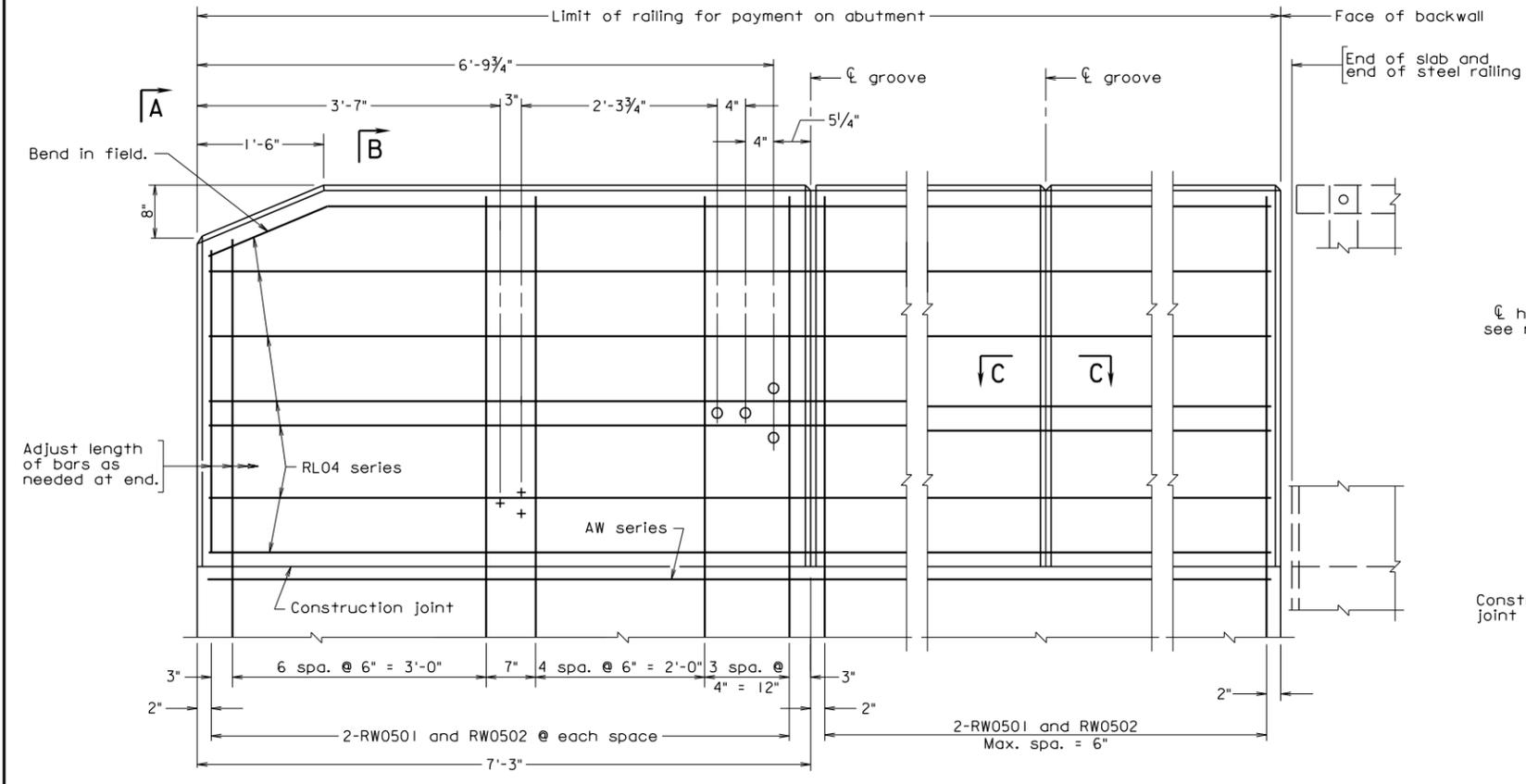


STATE	FEDERAL AID	STATE	SHEET NO.
VA.	PROJECT	ROUTE	PROJECT



TERMINAL WALL ELEVATION U-BACK WING

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.

REINFORCING STEEL SCHEDULE						
Mark	Size	No.	Length	Pin ϕ	Location	
RW0501	#5		2'-6"	—	Terminal wall and U-back wing	
RW0502	#5		9'-0"	3 3/4"	Terminal wall and U-back wing	
RL04	#4			—	Terminal wall and U-back wing	

Dimensions in bending diagram are out-to-out of bars.

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-5
			Checked: S&B...DIV		

BR27T-5 12-14-2012 br27t5.dgn

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

54"-BR27_ STEEL RAILING

BR27T-SERIES

TERMINAL WALL ON ABUTMENT U-BACK WING

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-14, BR27C-15 or BR27D-10 and when terminal wall is detailed on abutment U-back wing. This standard, without the details and notes for guardrail attachment, may be included with BR27C-13 and BR27D-9 when used in conjunction with an inside traffic barrier to provide a 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.

AW series bars are included in abutment reinforcement.

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

VIEW A-A:

For projects with bituminous overlay, modify vertical dimension 9" and the range (1'-9 $\frac{3}{4}$ " min. – 1'-10 $\frac{3}{4}$ " max.) for location of bolts and 4'-6" height of terminal wall so that these dimensions will be established from top of overlay surface.

SECTION B-B:

For projects with bituminous overlay, modify vertical dimension 4'-6" so that this dimension 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 and reinforcing steel schedule of steel railing.

STANDARD BR27T-5: NOTES TO DESIGNER

VOL. V - PART 3
DATE: 14Dec2012
SHEET 2 of 3
FILE NO. BR27T-5-2

54'-BR27_ STEEL RAILING

BR27T-SERIES

TERMINAL WALL ON ABUTMENT U-BACK WING

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

REINFORCING STEEL SCHEDULE:

Add length for rebar RL04 series.

For projects with bituminous overlay bituminous, adjust dimension and length of rebar RW0502.

TITLE BLOCK:

Replace standard designation with Plan No.