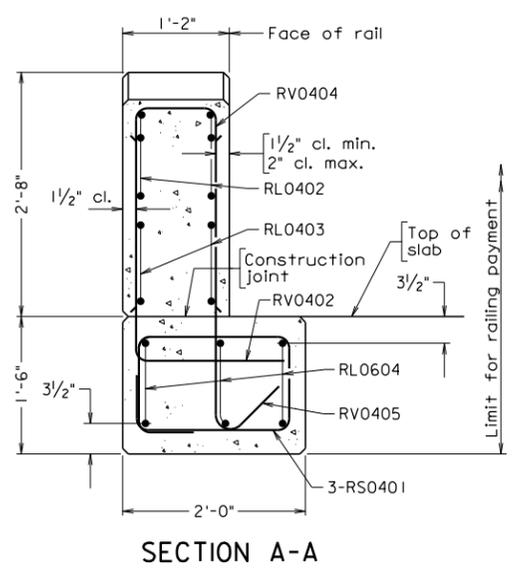
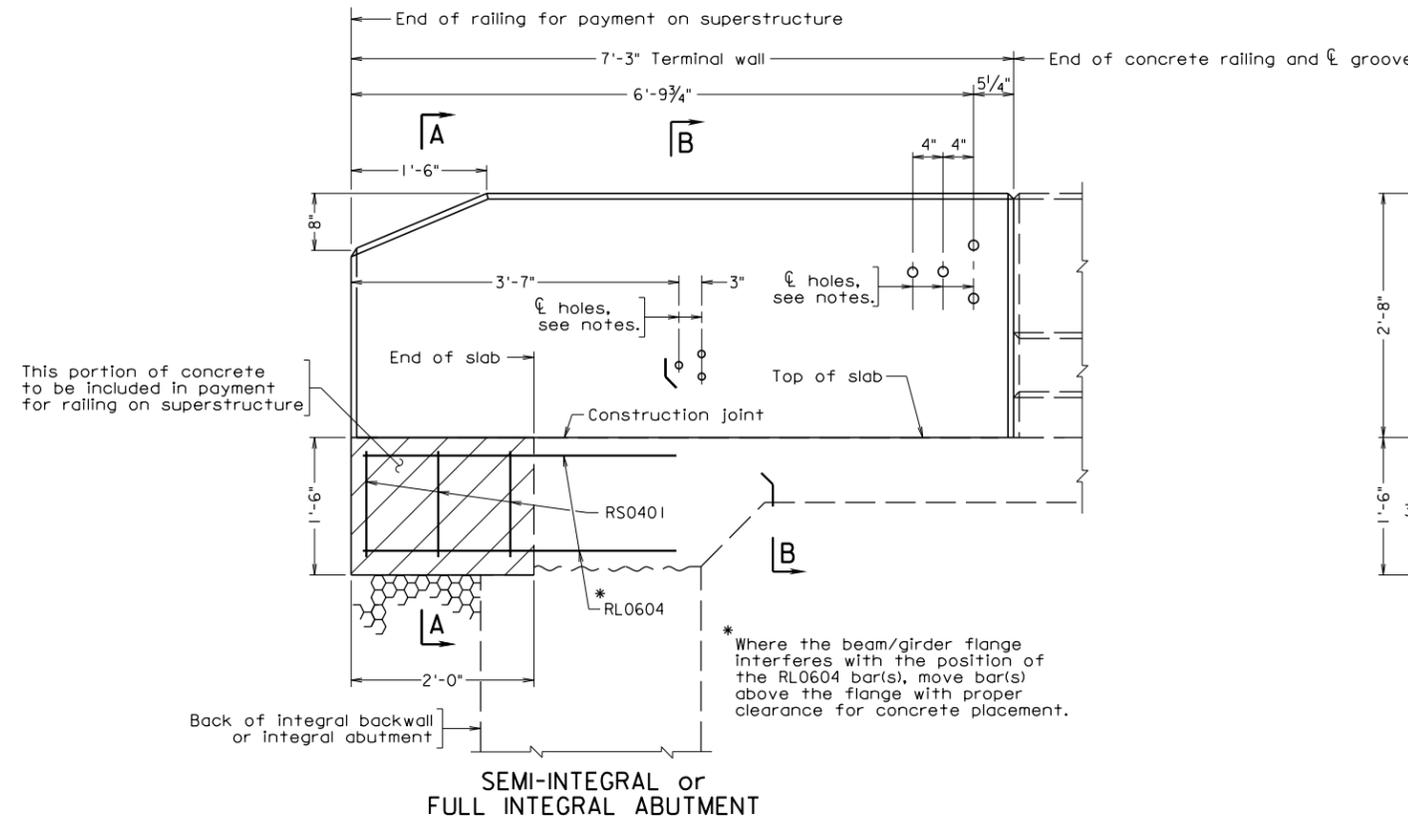


STATE	FEDERAL AID	STATE	SHEET NO.
ROUTE	PROJECT	ROUTE	PROJECT
VA.			



Notes:

Plan dimensions shown are measured in the horizontal and vertical planes.

The Contractor shall determine all dimensions and details necessary for installation.

All concrete shall be Low Shrinkage Class A4 Modified.

All bevels for concrete shall be 3/4".

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

For details and reinforcing steel schedule of cast in place concrete railing, see sheet ...

Each terminal wall shall be cast as one piece.

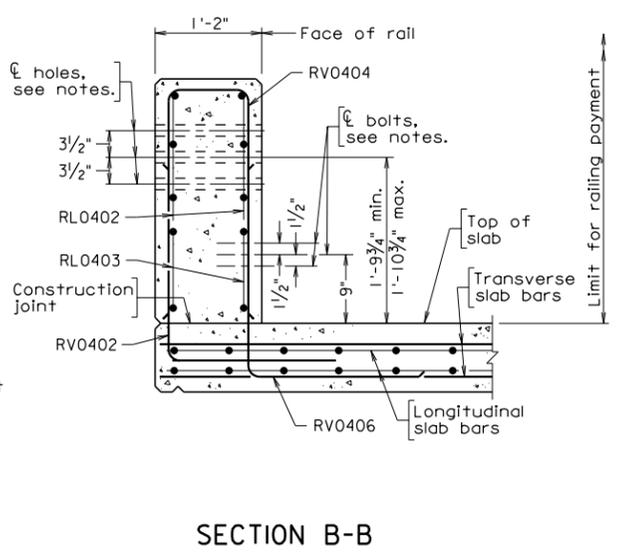
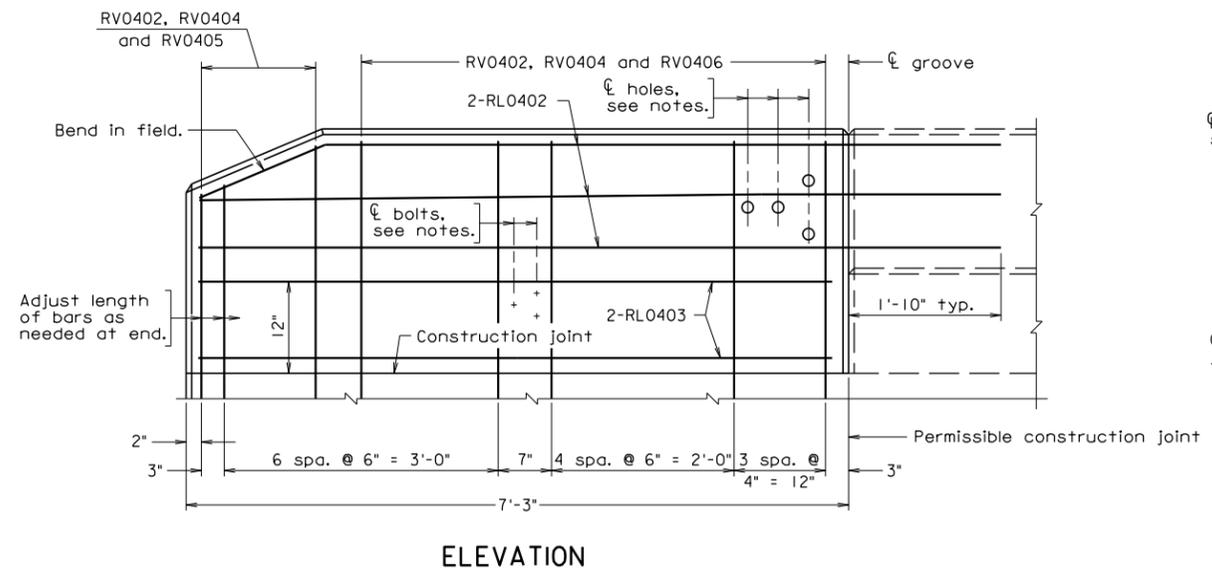
Terminal walls are detailed to take guardrail attachment GR-FOA-1.

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 and shall be drilled and installed when rub rail is attached.

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

REINFORCING STEEL SCHEDULE					
Mark	No.	Size	Pin ϕ	Length	Location
RV0402					
RV0404					
RV0405					
RV0406					
RS0401					
RL0402		#4		8'-11"	Terminal wall
RL0403		#4		6'-11"	Terminal wall
RL0604		#6		3'-6"	Terminal wall end support
RS0401		#4	3"	6'-2"	Terminal wall end support
RV0402		#4	3"	3'-7"	Terminal wall
RV0404		#4	3"	5'-9"	Terminal wall
RV0405		#4	3"		Terminal wall
RV0406		#4	3"		Terminal wall



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

BCR-8 05-18-2016 bcr8.dgn

Sealed and Signed by:
Prasad L. Nallaponteni
Lic. No. 033003
On the date of
May 18, 2016

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

COMMONWEALTH OF VIRGINIA DEPARTMENT OF TRANSPORTATION					
STRUCTURE AND BRIDGE DIVISION					
CAST-IN-PLACE TERMINAL WALL 32" KANSAS CORRAL					
No.	Description	Date	Designed: S&B, DIV	Date	Plan No.
			Drawn: S&B, DIV		Sheet No.
			Checked: S&B, DIV		
Revisions					BCR-8

**CAST-IN-PLACE CONCRETE RAILING
KANSAS CORRAL (2'-8")**

**TERMINAL WALL ON SUPERSTRUCTURE WITH FULL INTEGRAL OR
SEMI-INTEGRAL ABUTMENT**

NOTES TO DESIGNER:

Include this standard when using standard BCR-3 or BCR-4.

Terminal wall is detailed on the deck slab of a superstructure with full integral or semi-integral abutment. A 2'-0" wide section at the edge of superstructure is extended 2'-0" from the end of deck slab to support the end of the terminal wall. 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 slab extension at the corner of the end deck slab.

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:

SECTION A-A:

For projects with bituminous overlay, modify 2'-8" height of terminal wall so that this dimension will be established from top of overlay surface.

SECTION B-B:

For projects with bituminous overlay, modify the 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 corrosion resistant reinforcing steel note by adding the Class I, II or III. For additional information on corrosion resistant reinforcing steel (CRR), see Structure and Bridge Division Instructional and Informational Memorandum (current IIM-S&B-81).

Complete sheet number for cast-in-place concrete railing and for integral abutment.

REINFORCING STEEL SCHEDULE:

Add dimension and length for rebar RV0405 and RV0406.

For projects with bituminous overlay, modify rebar lengths to allow for dimension changes.

TITLE BLOCK:

Replace standard designation with plan number.

STANDARD BCR-8: NOTES TO DESIGNER

PART 3
DATE: 28Dec2016
SHEET 2 of 2
FILE NO. BCR-8-2