Standard Drawing Guidance (do not show on plans):

In the available space, draw the entire elevation of the left barrier showing:
- Joint location and spacing
- The horizontal #5-R bars in each span specified by bar mark
- Number of vertical #5-R bars along the entire length of the barrier
- Span ranges

Adjust longitudinal dimensions note under elevation title as necessary.

If right barrier differs from left (typical with curved bridges), show both Elevation of Left Safety Barrier Curb and Elevation of Right Safety Barrier Curb. The longitudianl dimensions note can be relocated as the first note under the General Notes.

Add the four required dimensions to the following details:
- 1 in R-Bar Permissible Alternate Shape
- 3 in Section A-A

Modify accordingly the 19" dimension in R-Bar Permissible Alternate Shape and the 2.27 sq. ft. area in Section A-A for superelevated decks and nonstandard barrier heights.

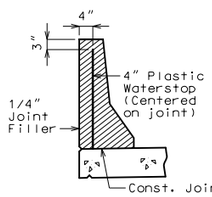
If a conduit is present in the left barrier, show and call out the conduit in Section A-A and add the following note to the General Notes:
Except for Section A-A, conduit is not shown for clarity.

Plastic waterstop detail and notes are required for all grade separations except over railroads and county roads. Remove if not required.

ELEVATION OF SAFETY BARRIER CURB

(Left barrier curb shown, right barrier curb similar)

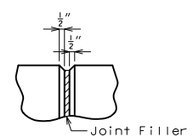
Longitudinal dimensions are horizontal.



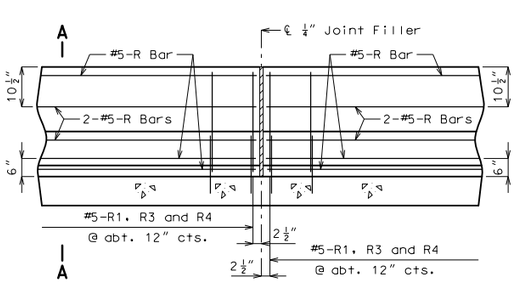
PLASTIC WATERSTOP DETAIL

Plastic waterstop shall be placed in all safety barrier curb filled joints, except structures with superelevation, use on all lower safety barrier curb joints only.

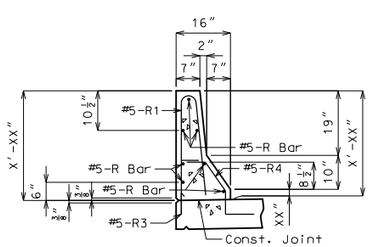
Cost of plastic waterstop, complete in place, will be considered completely covered by the contract unit price for Safety Barrier Curb.



FILLED JOINT DETAIL



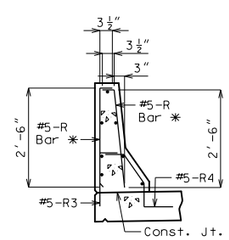
PART ELEVATION OF SAFETY BARRIER CURB (CAST-IN-PLACE CONVENTIONAL FORMING)

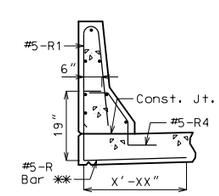


SECTION A-A

Use a minimum lap of 3'-1" for #5 horizontal safety barrier curb bars.

The cross-sectional area above the slab = 2.27 sq. ft.





R-BAR PERMISSIBLE ALTERNATE SHAPE

✳ The R1 bar may be separated into two bars as shown, at the contractor's option, only when slip forming is not used. (All dimensions are out to out.)

✳✳ The R3 bar and #5 bottom transverse slab bar in cantilever (P/S panels only) combination may be furnished as one bar as shown, at the contractor's option.

General Notes

Top of safety barrier curb shall be built parallel to grade with barrier curb joints (except at end bents) normal to grade.

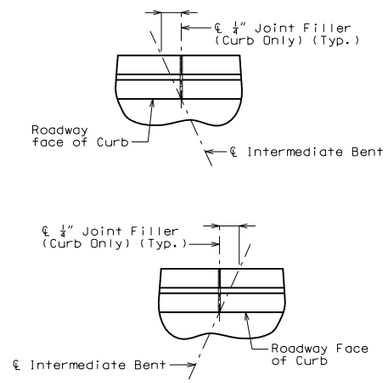
All exposed edges of safety barrier curb shall have either a 1/2-inch radius or a 3/8-inch bevel, unless otherwise noted.

Payment for all concrete and reinforcement, complete in place, will be considered completely covered by the contract unit price for Safety Barrier Curb per linear foot.

Concrete in the safety barrier curb shall be Class B-1.

Measurement of safety barrier curb is to the nearest linear foot for each structure, measured along the outside top of slab from end of wing to end of wing.

Concrete traffic barrier delineators shall be placed on top of the safety barrier curb as shown on Missouri Standard Plans 617.10 and in accordance with Sec 617. Delineators on bridges with two-lane, two-way traffic shall have retroreflective sheeting on both sides. Concrete traffic barrier delineators will be considered completely covered by the contract unit price for Safety Barrier Curb.



PART PLAN SHOWING SAFETY BARRIER CURB JOINT

DETAILS OF SAFETY BARRIER CURB

Detailed
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. of

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	
1/25/2017	
ROUTE ✳	STATE MO
DISTRICT BR	SHEET NO. ✳
COUNTY ✳	
JOB NO. ✳	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO. BAC 1	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.