



South Carolina
Department of Transportation

August 25, 1998

INSTRUCTIONAL BULLETIN NO. 98-8

SUBJECT: Bridge End Curb and Flume - Updated
EFFECTIVE DATE: August 25, 1998
SUPERSEDES: Instructional Bulletin No. 96-12 - Bridge End Curb and Flume
RE: None

**Superseded
by 2002-4**

Standard Drawing 721-1 has been changed to provide a "Concrete Curb (9" x 15") "in lieu of Bituminous Curb" at bridge ends. This has resulted in a change of Instructional Bulletin 95-14 as noted below.

Use "Bridge End Concrete Curb (9" x 15") and Flume" on all bridge ends where concrete curb and gutter with flume is not provided by bridge plans. Bid items as shown on Standard Drawing No. 721-1 should be calculated and included in the General Construction Note.

Asphalt Concrete Surface Course of the same type used on the roadway shall be used for shoulder paving at an application rate of 275 kg/m² (500 lbs/SY).

Liquid Asphalt Binder PG 64-22 is included in Asphalt Concrete Surface Course for Ditch Paving.

EXAMPLE FOR TWO BRIDGE ENDS (FOUR CORNERS) ON TANGENT NORMAL CROWN

Inclusion Note:

Concrete Curb (9" x 15")	8 m (26 LF) for Bridge Ends
Hand Placed Rip Rap	40 t (40 Tons) for Bridge Flume Ends
Geotextile for Erosion Control Under Rip Rap (Class 2) Type_____	80 m ² (80 S. Y.) to be under placed Hand Placed Rip Rap
*Asphalt Concrete Surface Course	51 t (54 Tons) for Drives 15t (16), Leveling 23 t (25) and Bridge Ends 13 t (13)
*Liquid Asphalt Binder PG 64-22	3 t (3 Tons) for Drives, Leveling & Bridge Ends
#Asphalt Conc. Surf. Course For Ditch Paving	3 t (3 Tons) For Flumes

* These quantities vary according to shoulder width.
 #This quantity varies according to fill height and slope.



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Note For Plan Sheet (To Be Placed On One Corner Only)

Construct Shoulder Paving, Bridge End
Concrete Curb (9" x 15") And Flume With Riprap
^ Erect Thrie Beam Bridge Connector and an approved end terminal
(Typical Four Corners)

^Bridge end protection note may be modified to fit varying end treatment conditions.

EXAMPLE FOR TWO BRIDGE ENDS (FOUR CORNERS) ON CURVE - SUPERELEVATED

Inclusion Note:

Concrete Curb (9" x 15")	4 m (13 LF) for Bridge Ends
Hand Placed Rip Rap	20 t (20 Tons) for Bridge Flume Ends
Geotextile for Erosion Control Under Rip Rap (Class 2) Type_____	40 m ² (40 S. Y.) to be placed under Hand Placed Rip Rap
*Asphalt Concrete Surface Course	51 t (54 Tons) for Drives 15t (16), Leveling 23 t (25) and Bridge Ends 13 t (13)
*Liquid Asphalt Binder PG64-22	3 t (3 Tons) for Drives, Leveling & Bridge Ends
#Asphalt Conc. Surf. Course For Ditch Paving	2 t (2 Tons) For Flumes

*These quantities vary according to shoulder width.
#This quantity varies according to fill height and slope.

Note For Plan Sheet (To Be Placed On One Corner Only)

Construct Shoulder Paving, Bridge End

Concrete Curb (9" x 15") and Flume with Riprap.
^ Erect Thrie Beam Bridge Connector and an approved end terminal.
(Typical Four Corners)

^Bridge end protection note may be modified to fit varying end treatment conditions.

Do not place "Bridge End Concrete Curb and Flume" on the high side of a superelevated bridge. Paved shoulder will be included on high side of superelevation.

Approved: _____
E. S. Eargle
Road Design Engineer

ESE:adf

cc:
Federal Proj. Dev. Engr. Pratt
"C" Proj. Dev. Engr. Kneece