

Curbs

Design Manual
Chapter 3
Cross Sections

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 Revised: 09-24-20

This section provides guidelines for the design of curbs on primary highways.

General Curb Design Information

The Department recognizes three curb designs:

- 6-inch standard curbs.
- 4-inch sloped curbs.
- 6-inch sloped curbs.

Details of these curb designs can be found in [PV-102](#) or the [6000 series](#) of Road Design Details.

The use of other curb designs is discouraged, but may be necessary where site conditions dictate. For projects at spot locations, it is acceptable to use a curb design that perpetuates the design that is predominant in the adjacent roadway sections.

A design speed greater than 45 mph is considered “high-speed” when designing curbs. If possible, curbs should not be used in high-speed locations.

Guardrail alongside curbs should be avoided. Instead of using guardrail, every effort should be made to remove fixed objects or relocate them outside the clear zone. If there is no other alternative to using guardrail, refer to Section [8C-2](#) for guidance on placing guardrail alongside curbs.

Curbs for stop sign islands should match the design of the curb used on the mainline. For rural roadways, use a 4-inch sloped curb.

Curb Placement

The location of the face of curb in relation to the edge of traveled way may effect the lateral placement of a moving vehicle because drivers tend to shy away from curbs. Table 1 provides guidance for locating curbs.

Table 1: Curb Offsets.

Roadway/Lane type	Number of basic lanes	Curb offset*	
		Preferred	Acceptable
Low speed urban roadways (design speed ≤ 45 mph)	2	3.5	Face of curb located at the outer edge of the traveled way
	4	2.5	
Continuous raised medians and channelized left turn lanes	-	2.5	
Right turn lanes	-	Face of curb located at the outer edge of the right turn lane	
Expressway/Freeways	-	Face of curb located at the outer edge of the paved shoulder	
Interstate	-		

*Curb offset measured from the back of curb to the edge of the traveled way

Curb Transitions

Sloped curbs are wider than the 6 inch standard curb. When transitioning from sloped curb to standard curb or from standard curb to sloped curb, maintain the back of curb and transition the gutter line as shown in Figure 1.

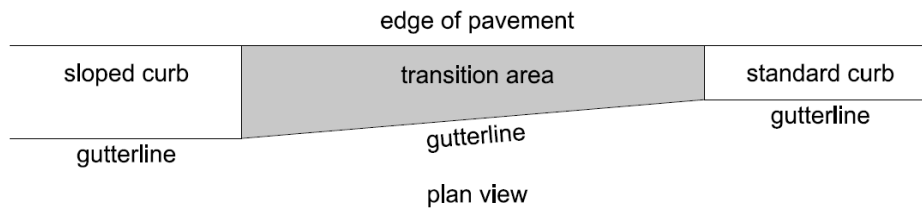


Figure 1: Standard to sloped curb transition.

Chronology of Changes to Design Manual Section:

003C-002 Curbs

9/24/2020 Revised
Add guidance for maintaining back of curb when transitioning from standard to sloped curb and visa versa.

6/25/2019 Revised
Updated hyperlinks.
Updated header logo and text.

9/13/2012 Revised
Update SRP references. Include a table of curb offsets. Remove information already in 1C-1.

1/23/2004
Previously Updated.