

Maine Department of Transportation

Highway Program

Design Guidance

Title: Curb Type and Mold Usage

Issue Date: January 17, 2019

Discipline: Highway Engineering

Originator: Jonathan French, P.E.

Approved By: Bradford Foley, P.E.

Background:

Curbs are often used on urban streets and occasionally on rural highways to control drainage, delineate the pavement edge, channelize vehicular movements and to provide separation between vehicles and pedestrians. MaineDOT has adopted the following guidance for curb usage:

Guidance:

Types:

The following types of curbs are utilized by MaineDOT:

Type 1 – Vertical Granite Curb

Type 3 – Bituminous Curb

Type 5 – Sloped Granite Curb

Concrete Slipform Curb

Type 1 – Vertical granite curb is to be used typically in urban areas, business and historic districts and downtown areas where there is on-street parking, and/or high through and turning volumes are present, as well as areas that have existing vertical granite curb. If Type 1 curb is used, a geometric plan must be provided in the plan set for curb layout locations.

.

Type 3 – Bituminous curbs are typically used in urban and rural areas with box sections, low volume residential box sections, low volume residential streets or roadways, and under guardrail on the low side of superelevated sections if necessary. There are three mold shapes that can be used:

- Mold 1 – Vertical curb used adjacent to sidewalks
- Mold 2 – Sloped curb for all applications other than directly adjacent to sidewalks, islands and for design speeds equal to or lower than 45 MPH
- Mold 3 – Sloped curb for all applications where the design speed is greater than 45 MPH and for use under guardrail.

Type 5 – Sloped granite curb is typically used adjacent to raised islands or on curb radii where there is a heavy truck turning movement. Type 5 curb can also be utilized adjacent to truck aprons at a specific slope to provide a mountable curb. If Type 5 curb is used, a geometric plan must be provided in the plan set for curb layout locations.

Concrete Slipform Curb – This type of curb can be used in all applications where granite and bituminous curb are utilized. There are six mold shapes that can be used:

- Mold 1 – Vertical curb to be used adjacent to sidewalks
- Mold 2 – Sloped curb for all applications other than directly adjacent to sidewalks, islands and for design speeds equal to or lower than 45 MPH
- Mold 3 – Sloped curb for all applications where the design speed is greater than 45 MPH and for use under guardrail.
- Mold 4 – Sloped curb for use on the exterior of roundabout central islands
- Mold 5 – Sloped curb to be used adjacent to raised islands
- Mold 6 – Sloped curb to be used adjacent to truck aprons

Refer to the [MaineDOT Standard Details](#) for all curb mold dimensions.