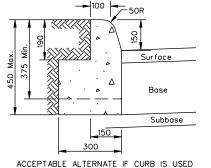


This item may be precast or cast in place.



suburban areas. If these design speeds are exceeded Standard CG-7 is required.

Curb having a radius of 90 m or less (along face of curb) will be paid for as radial

 $ext{ } ext{ } ext{The depth of curb may be reduced as much as 75 mm}$ (375 mm depth) or increased as much as 75 mm (525 mm depth) in order that the bottom of curb will coincide with the top of a course of the pavement substructure. Otherwise the depth is to be 450 mm as shown. No adjustment in the price bid is to be made for a decrease or an increase in depth.

SPECIFICATION REFERENCE 105 502

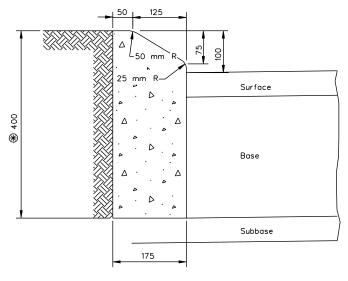
# STANDARD 150 mm CURB

VIRGINIA DEPARTMENT OF TRANSPORTATION

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS

201.01





#### Notes:

This item may be precast or cast in place.

Concrete to be Class 20 if cast in place, 30 MPa if precast.

Curb having a radius of 90 m or less (along face of curb) will be paid for as radial curb.

★ The depth of curb may be reduced as much as 75 mm (375 mm depth) or increased as much as 75 mm (525 mm depth) in order that the bottom of curb will coincide with the top of a course of the pavement substructure. Otherwise the depth is to be 450 mm as shown. No adjustment in the price bid is to be made for a decrease or an increase in depth.

When this standard is to be tied into existing barrier curb, the transition is to be made within 3.0 m or the change in standards made at regular openings.

This curb may be used with any design speed but is required when design speed is greater than 60 km/h on Rural highways and 70 km/h in developed urban & suburban areas.

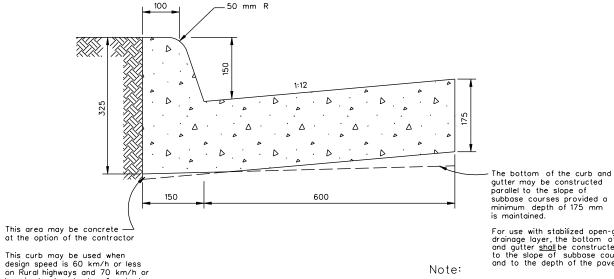
STANDARD 100 mm CURB

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

> 105 502

CG-6



gutter may be constructed parallel to the slope of subbase courses provided a minimum depth of 175 mm is maintained.

For use with stabilized open-graded drainage layer, the bottom of the curb and gutter <u>shall</u> be constructed parallel to the slope of subbase courses and to the depth of the pavement.

#### Note:

Combination curb & gutter having a radius of 90 m or less (along face of curb) shall be paid for as radial combination curb &

This item may be precast or cast in place. Concrete to be Class 20 if cast in place, 30 MPa if precast.

SPECIFICATION REFERENCE

less in developed urban & suburban

areas. If these design speeds are exceeded Standard CG-7 is required.

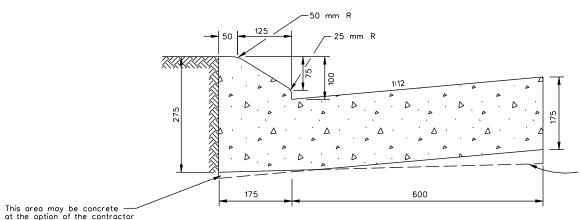
COMBINATION 150 mm CURB & GUTTER

105 502

VIRGINIA DEPARTMENT OF TRANSPORTATION

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS

201.03



The bottom of the curb and gutter may be constructed parallel to the slope of subbase courses provided a minimum. depth of 175 mm is maintained

For use with stabilized open-graded drainage layer, the bottom of the curb and gutter <u>shall</u> be constructed parallel to the slope of subbase courses and to the depth of the pavement

This curb may be used with any design speed but is required when design speed is greater than 60 km/h on Rural highways and 70 km/h in developed urban & suburban areas.

When combination mountable curb and gutter is used, the Standard Entrance Gutters or Standard Connection for Street Intersections are to have the mountable curb configuration incorporated.

When this standard is to be tied into existing barrier curb, the transition is to be made within 3 m or the change in standards made at regular openings.

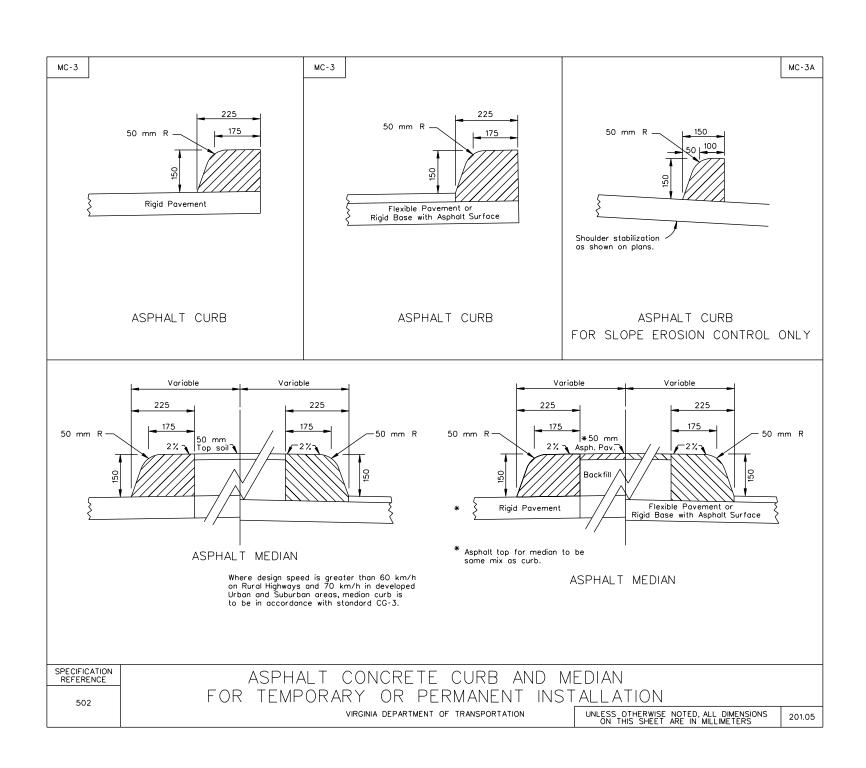
Note: Combination curb & gutter having a radius of 90 m or less (along face of curb) shall be paid for as radial combination curb & gutter.

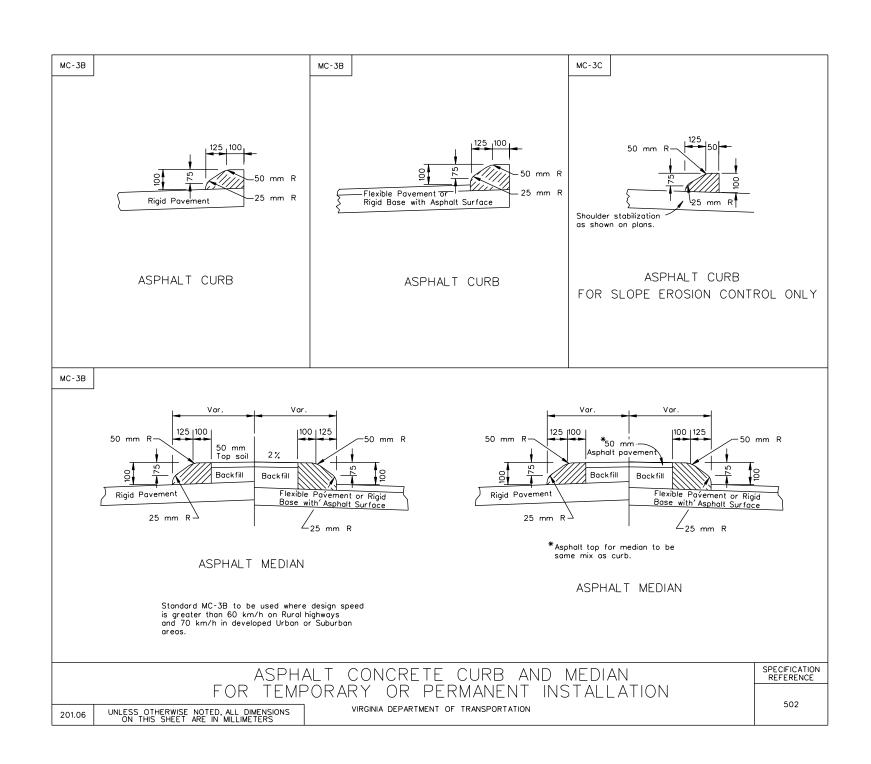
> This item may be precast or cast in place. Concrete to be Class 20 if cast in place, 30 MPa if precast.

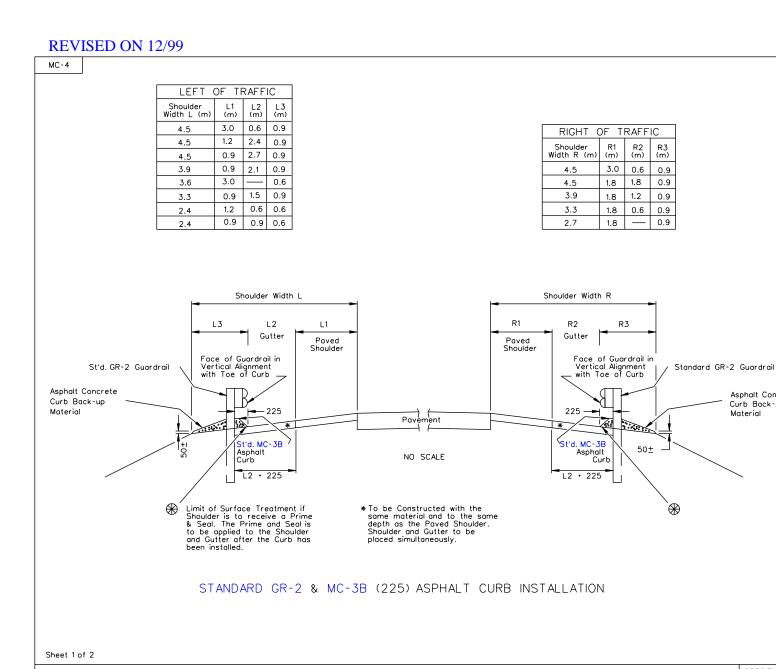
COMBINATION 100 mm CURB & GUTTER

105 502

SPECIFICATION REFERENCE







ASPHALT CURB AND GUTTER & ASPHALT PAVING UNDER GUARDRAIL Asphalt Concrete

**SPECIFICATION** 

REFERENCE

Curb Back-up

Material

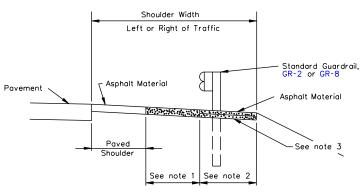
VIRGINIA DEPARTMENT OF TRANSPORTATION

201.07

UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS

#### Note:

See Standard GR-2 and GR-8 details here-on for Guardrail Placement Details.



#### ASPHALT PAVING UNDER GUARDRAIL

(For Use Where Asphalt Curb Is Not Required)

#### Notes:

- To be Constructed with the same material and to the same depth as the Paved Shoulder.
- To be Constructed with the same Asphalt Materials as the Paved Shoulder to the following depths:

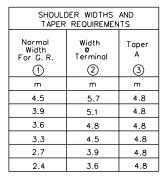
Allowable Depths of Asphalt Material

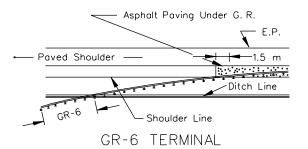
IM-1A or 1B 50 mm Minimum BM-2 75 mm Minimum BM-3 100 mm Minimum

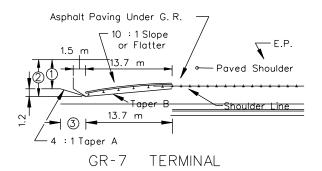
 Depth of Asphalt material may be extended at the Contractor's option to coincide with the bottom of the Paved Shoulder course at no increase in the quantity of Asphalt Material computed using the above specified depth

Additional 1.5 m Asphalt Paving beyond point where guardrail crosses Shoulder Line.

For additional design and placement information see sheet 1 0 f 2.







Methods for Beginning & Ending Asphalt Paving under Guardrail and Guardrail installation site preparation requirements for GR-7.

Sheet 2 of 2

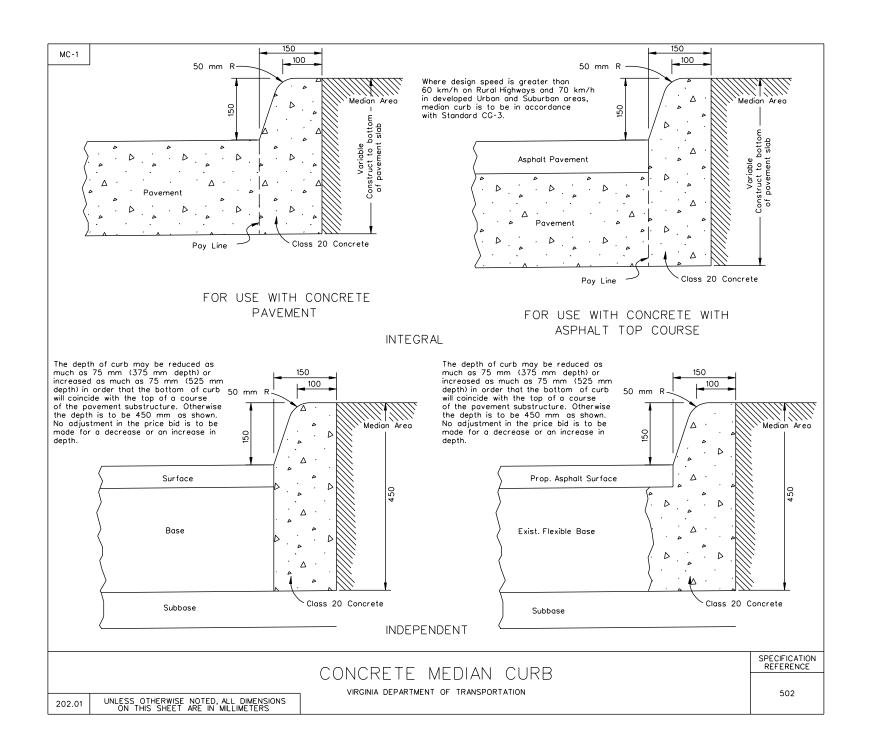
SPECIFICATION REFERENCE

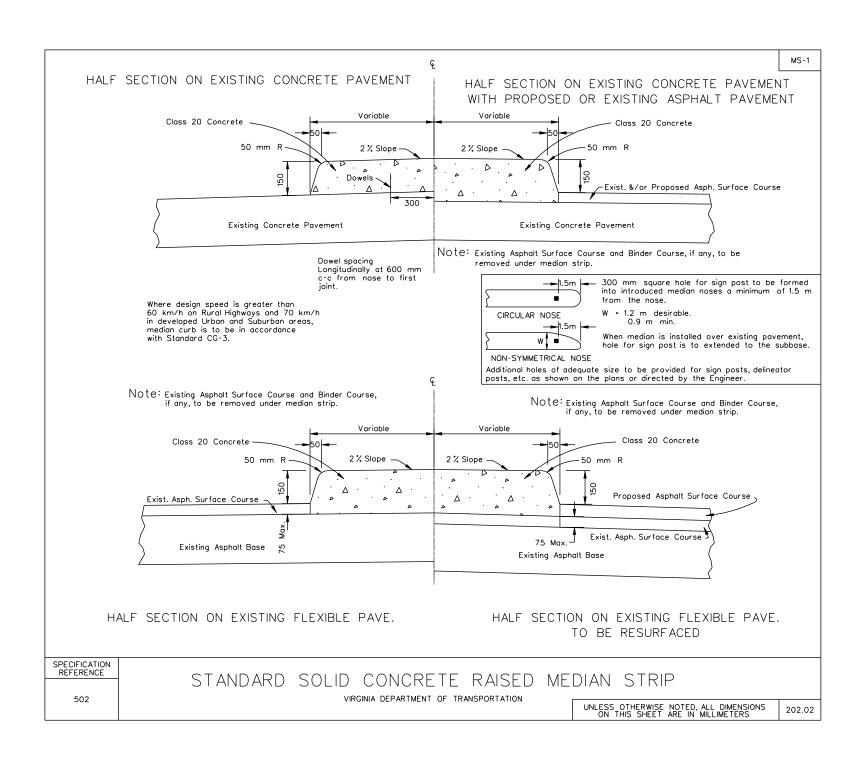
# ASPHALT CURB AND GUTTER & ASPHALT PAVING UNDER GUARDRAIL

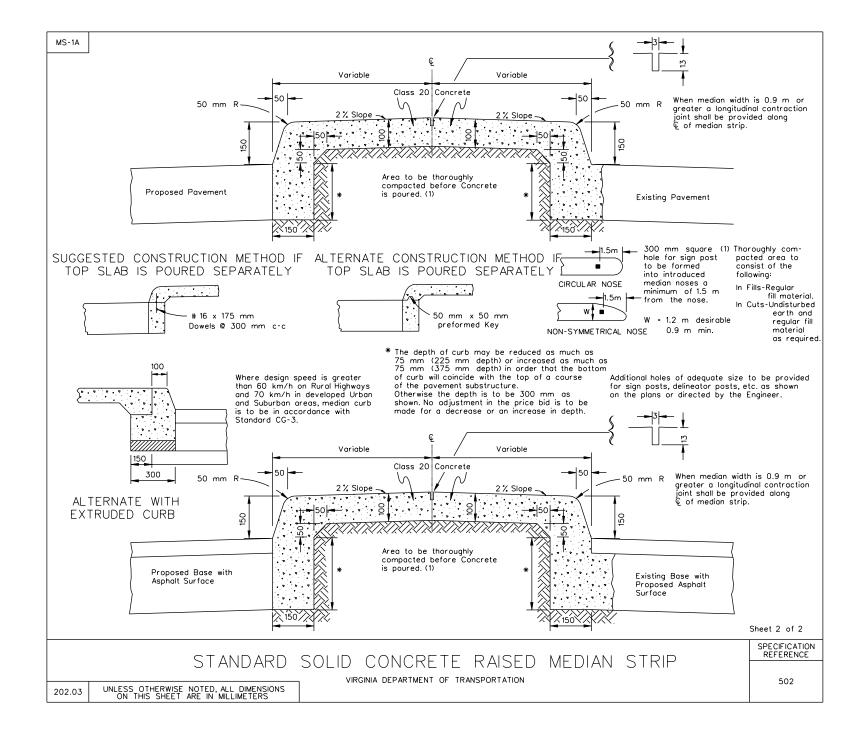
VIRGINIA DEPARTMENT OF TRANSPORTATION

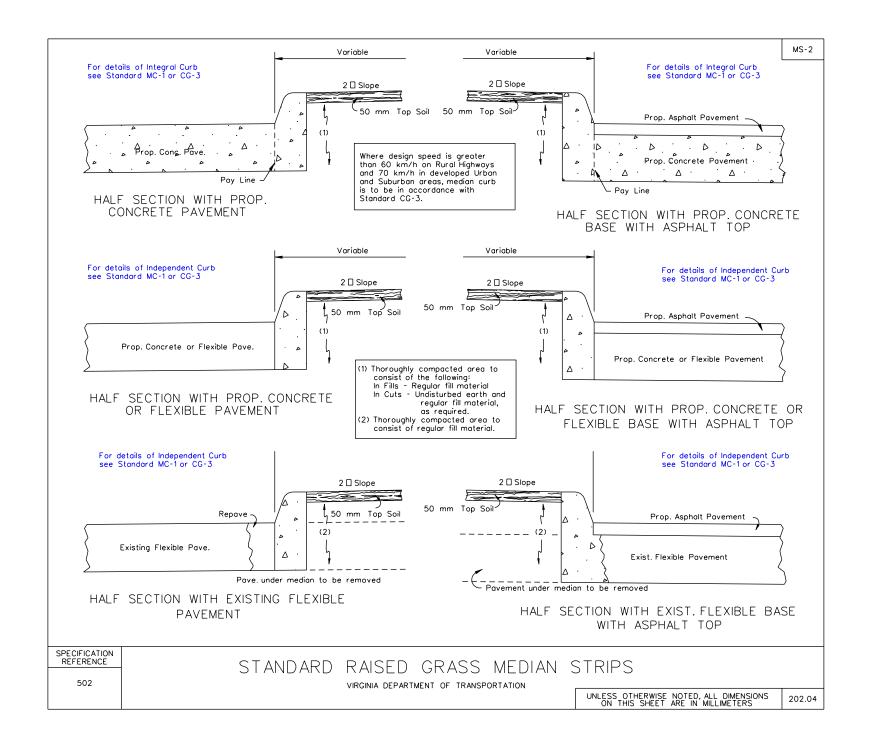
UNLESS OTHERWISE NOTED, ALL DIMENSIONS ON THIS SHEET ARE IN MILLIMETERS

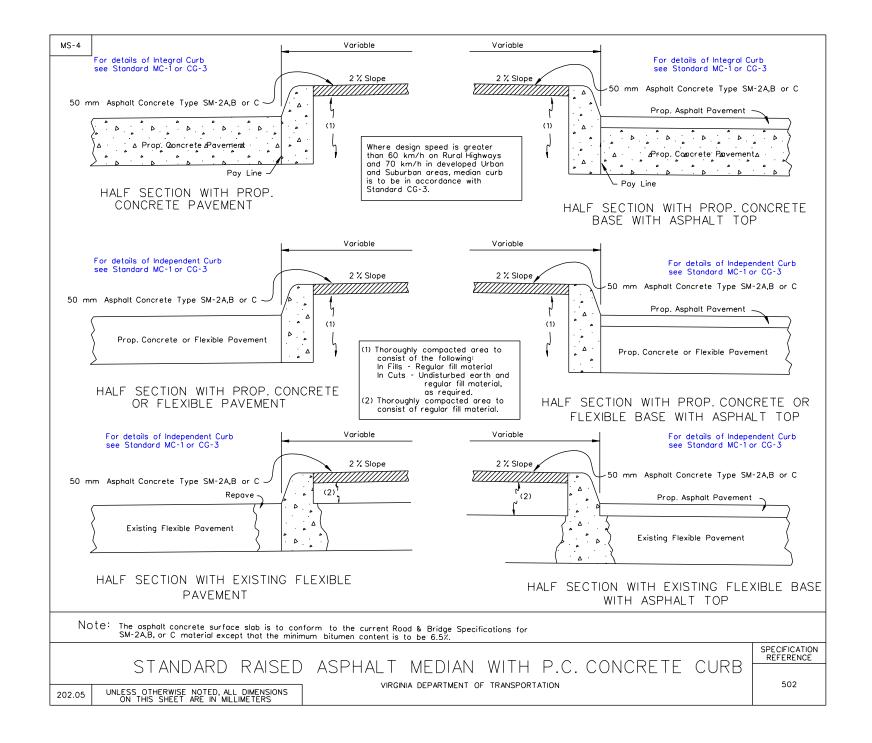
201.08



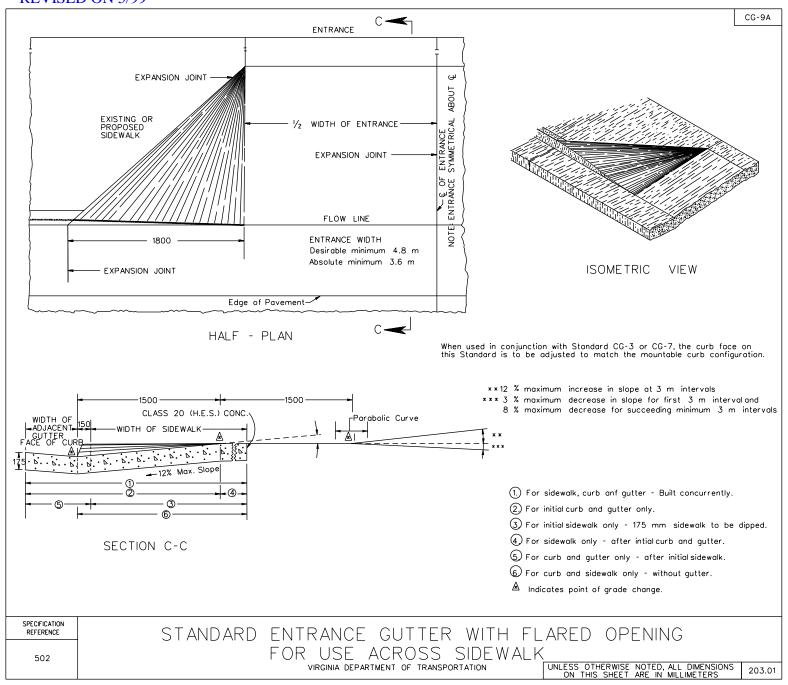


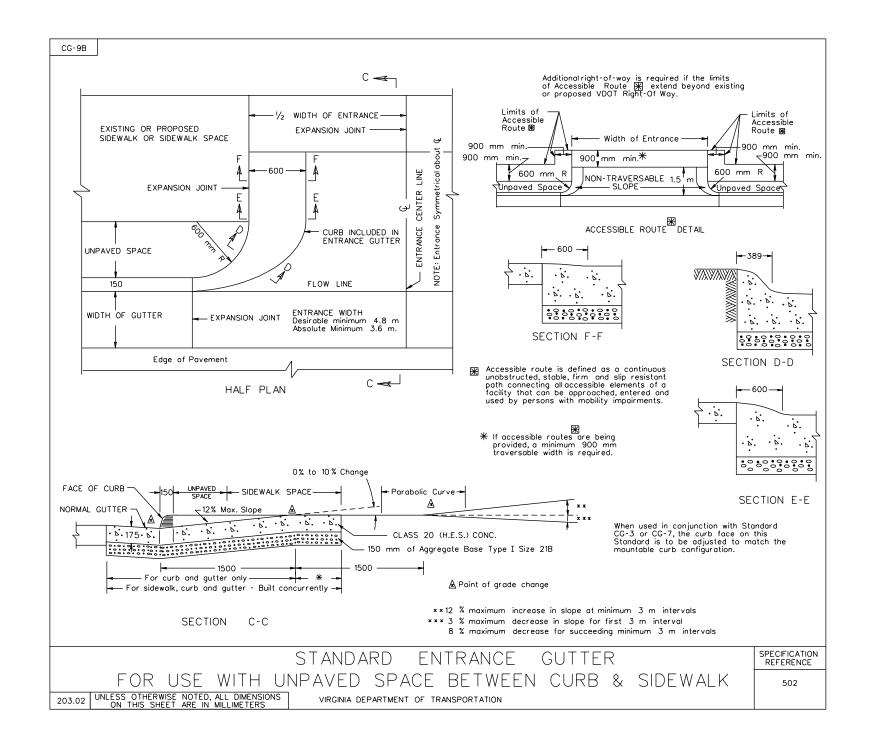




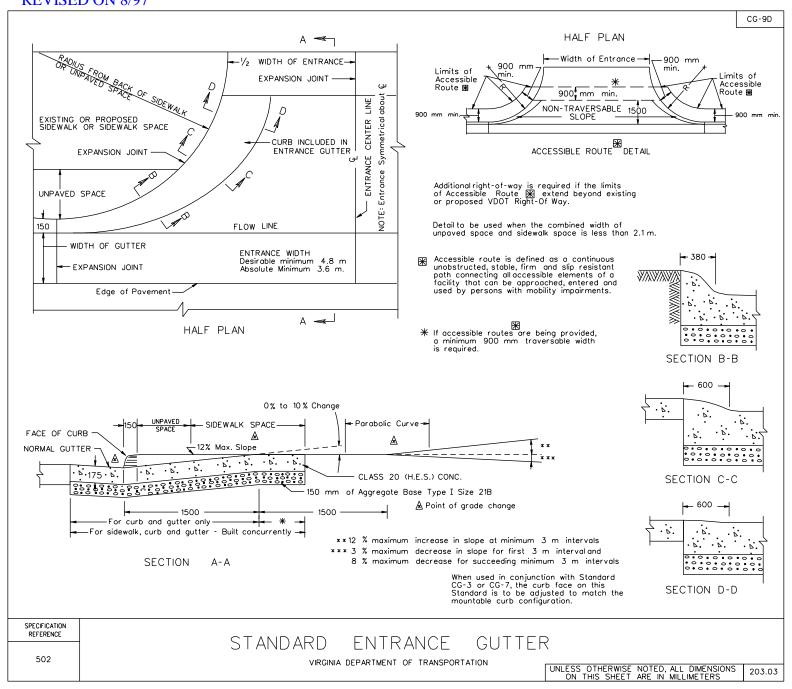


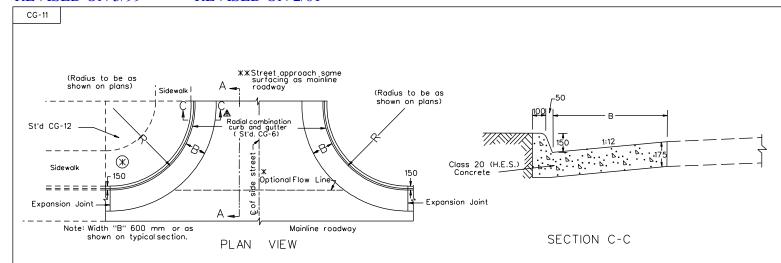
## **REVISED ON 5/99**



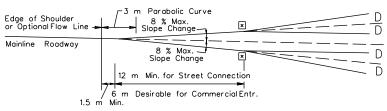


### **REVISED ON 8/97**





■ Construct Grade changes with a parabolic curve.



SECTION A - A Guidelines for Grade Change D

Entrance Volume	Desirable	Maximum
High (more than 1500 VPD)	0 %	3 %
Medium (500-1500 VPD)	≤3 %	6 %
Low (less than 500 VPD)	≤6%	8 %

When the entrance radii cannot accommodate the turning requirements of anticipated heavy truck traffic, the depth for sidewalk & curb ramps within the limits of the radii should be increased to 175 mm.

When St'd. CG-11 is used for entrances built in conjunction with VDOT projects, please note the following:

- \* \* Mainline pavement shall be constructed to the R/W line (except any subgrade stabilization required for mainline pavement which can be omitted in the entrance.)
- A Radial curb or combination curb and gutter shall not be constructed beyond the R/W line except for replacement purposes.

When used in conjunction with Standard CG-3 or CG-7, the curb face on this Standard is to be adjusted to match the mountable curb configuration.

See Standard CG-12 for Curb Ramp design to be used with this Standard.

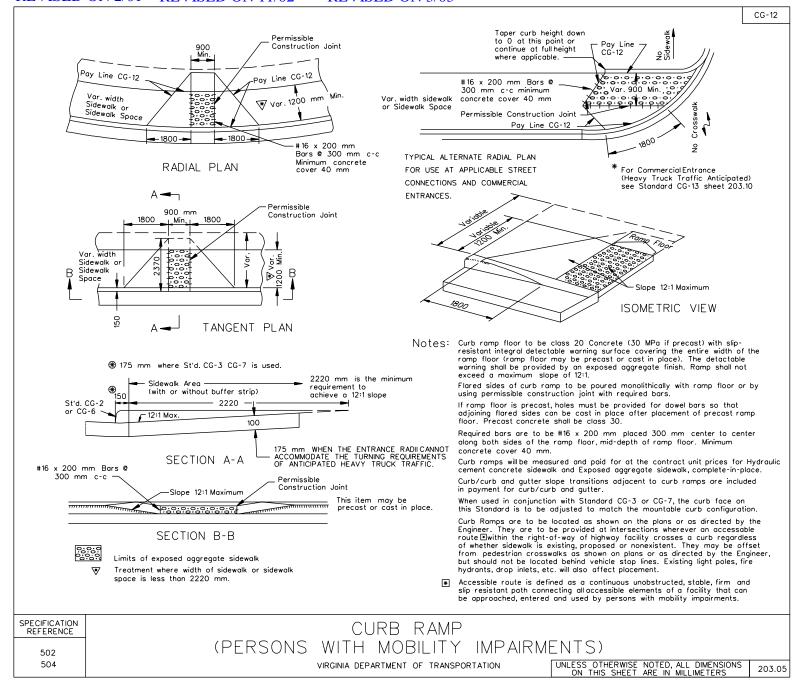
 $\mathbb X$  Optional flowline may be used for entrances in cut sections.

Optional flowline may require warping of a portion of gutter to preclude ponding of water.

	METHOD OF TREATMENT-
CON	NECTION FOR STREET INTERSECTIONS
MENCIONE	AND COMMERCIAL ENTRANCES
IMENSIONS FTERS	VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

502



#### **REVISED ON 3/03**

