

# SECTION 200

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CURBS, MEDIANS  
&  
ENTRANCE GUTTERS

STANDARD

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ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

TITLE

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION  
REFERENCE

2016 ROAD & BRIDGE STANDARDS

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VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 1 OF 1

200.01

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ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

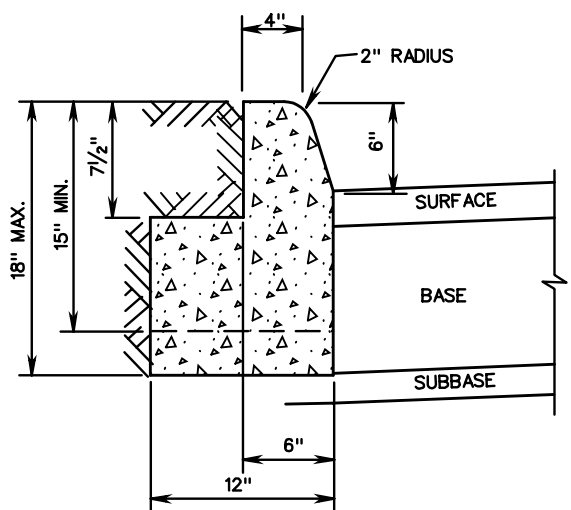
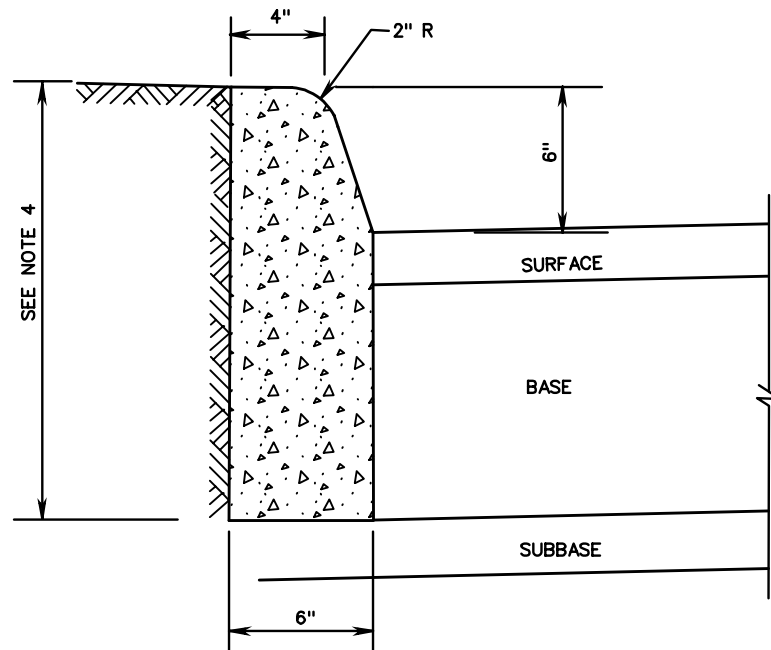
200.02

SPECIFICATION  
REFERENCE

VIRGINIA DEPARTMENT OF TRANSPORTATION

**NOTES:**

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (15" DEPTH) OR INCREASED AS MUCH AS 3" (21" 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 18" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-2 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-6 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL, IN THE SECTION ON GS URBAN STANDARDS.



**ACCEPTABLE ALTERNATIVE  
IF CURB IS EXTRUDED**

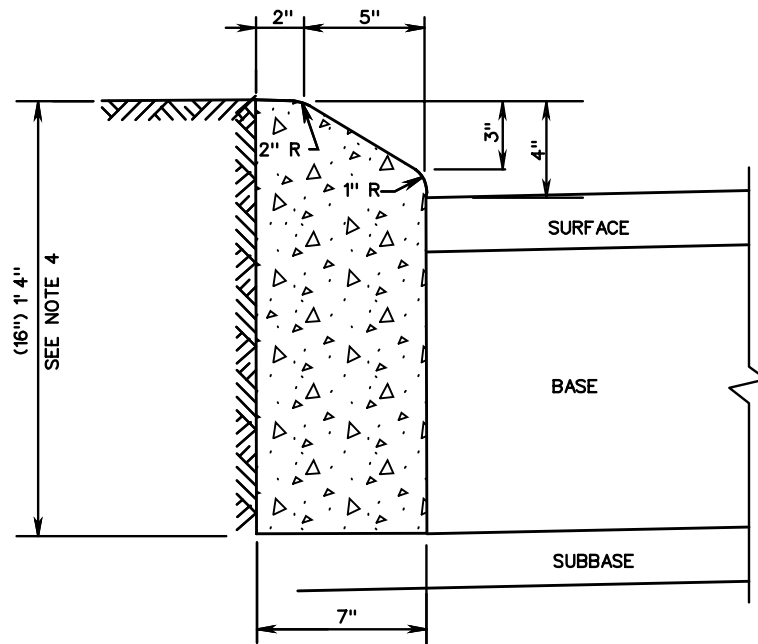
SPECIFICATION REFERENCE
105 502

**STANDARD 6" CURB**

VIRGINIA DEPARTMENT OF TRANSPORTATION

<b>VDOT</b> ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
	201.01

CG-3



**NOTES:**

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. CURB HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) WILL BE PAID FOR AS RADIAL CURB.
4. THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (13" DEPTH) OR INCREASED AS MUCH AS 3" (19" DEPTH) IN ORDER THAT THE BOTTOM OF THE CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT SUBSTRUCTURE. OTHERWISE, THE DEPTH IS TO BE 16" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.
5. CG-3 IS TO BE USED ON ROADWAYS MEETING THE REQUIREMENTS FOR CG-7 AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.
6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10' OR THE CHANGE IN STANDARDS CAN BE MADE AT REGULAR OPENINGS.



ROAD AND BRIDGE STANDARDS

**STANDARD 4" CURB**

SPECIFICATION REFERENCE

SHEET 1 OF 1

REVISION DATE

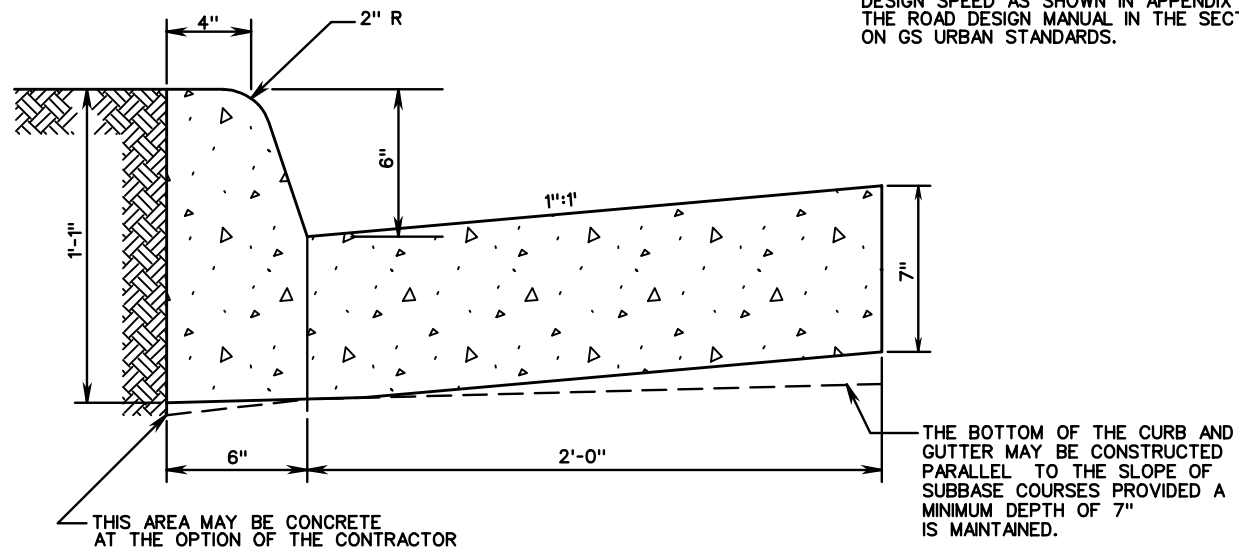
VIRGINIA DEPARTMENT OF TRANSPORTATION

201.02

105  
502

**NOTES:**

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAID FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB & GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-6 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL IN THE SECTION ON GS URBAN STANDARDS.



SPECIFICATION REFERENCE
105 502

**COMBINATION 6" CURB AND GUTTER**

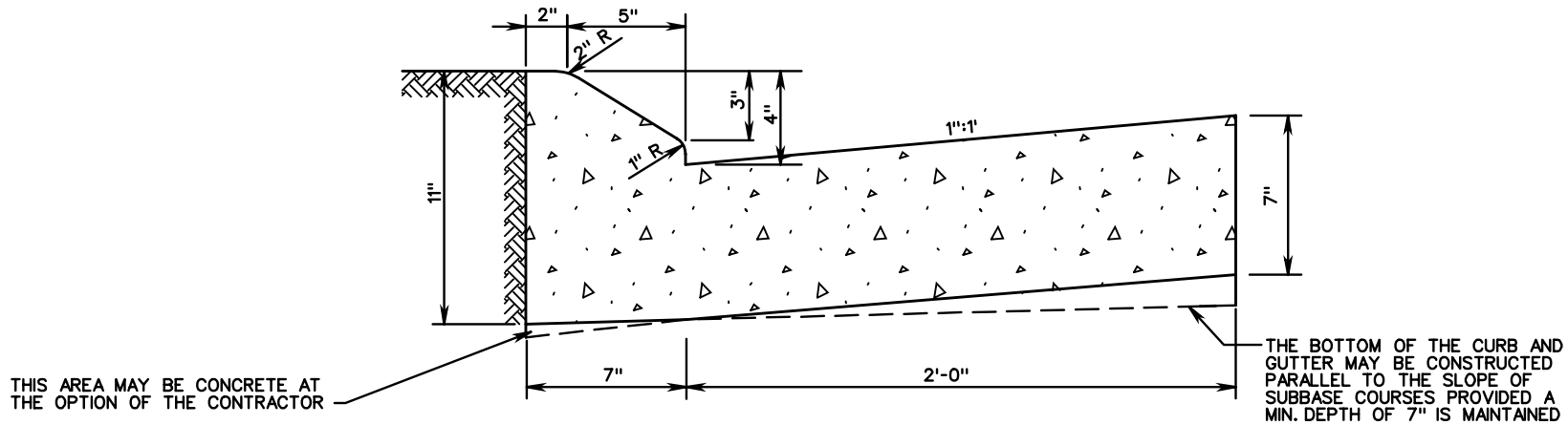
VIRGINIA DEPARTMENT OF TRANSPORTATION

<b>VDOT</b>	
ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
	201.03

CG-7

**NOTES:**

1. THIS ITEM MAY BE PRECAST OR CAST IN PLACE.
2. CONCRETE TO BE CLASS A3 IF CAST IN PLACE, 4000 PSI IF PRECAST.
3. COMBINATION CURB & GUTTER HAVING A RADIUS OF 300 FEET OR LESS (ALONG FACE OF CURB) SHALL BE PAID FOR AS RADIAL COMBINATION CURB & GUTTER.
4. FOR USE WITH STABILIZED OPEN-GRADED DRAINAGE LAYER, THE BOTTOM OF THE CURB AND GUTTER SHALL BE CONSTRUCTED PARALLEL TO THE SLOPE OF SUBBASE COURSES AND TO THE DEPTH OF THE PAVEMENT.
5. ALLOWABLE CRITERIA FOR THE USE OF CG-7 IS BASED ON ROADWAY CLASSIFICATION AND DESIGN SPEED AS SHOWN IN APPENDIX A OF THE VDOT ROAD DESIGN MANUAL IN THE SECTION ON URBAN GS STANDARDS.
6. WHEN THIS STANDARD IS TO BE TIED INTO EXISTING BARRIER CURB, THE TRANSITION IS TO BE MADE WITHIN 10' OR THE CHANGE IN STANDARDS CAN BE MADE AT REGULAR OPENINGS.
7. 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.



ROAD AND BRIDGE STANDARDS

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201.04

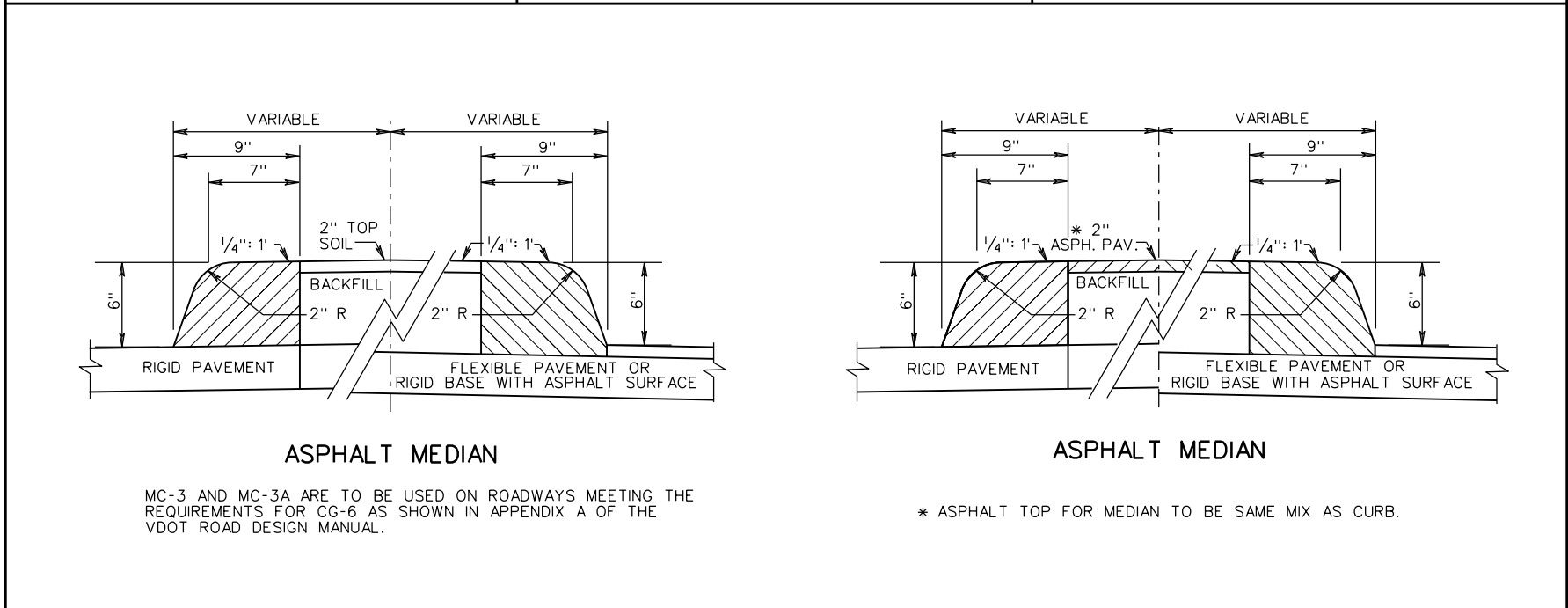
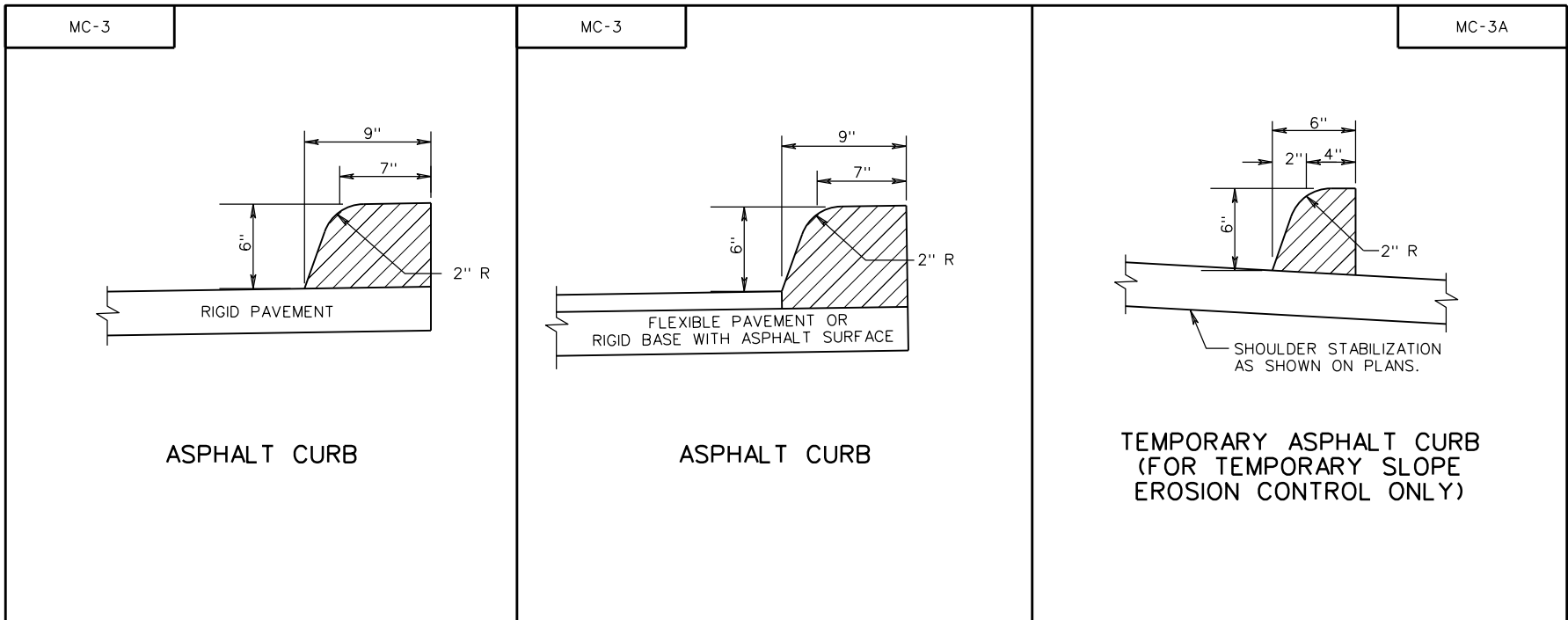
**COMBINATION 4" CURB AND GUTTER**

VIRGINIA DEPARTMENT OF TRANSPORTATION

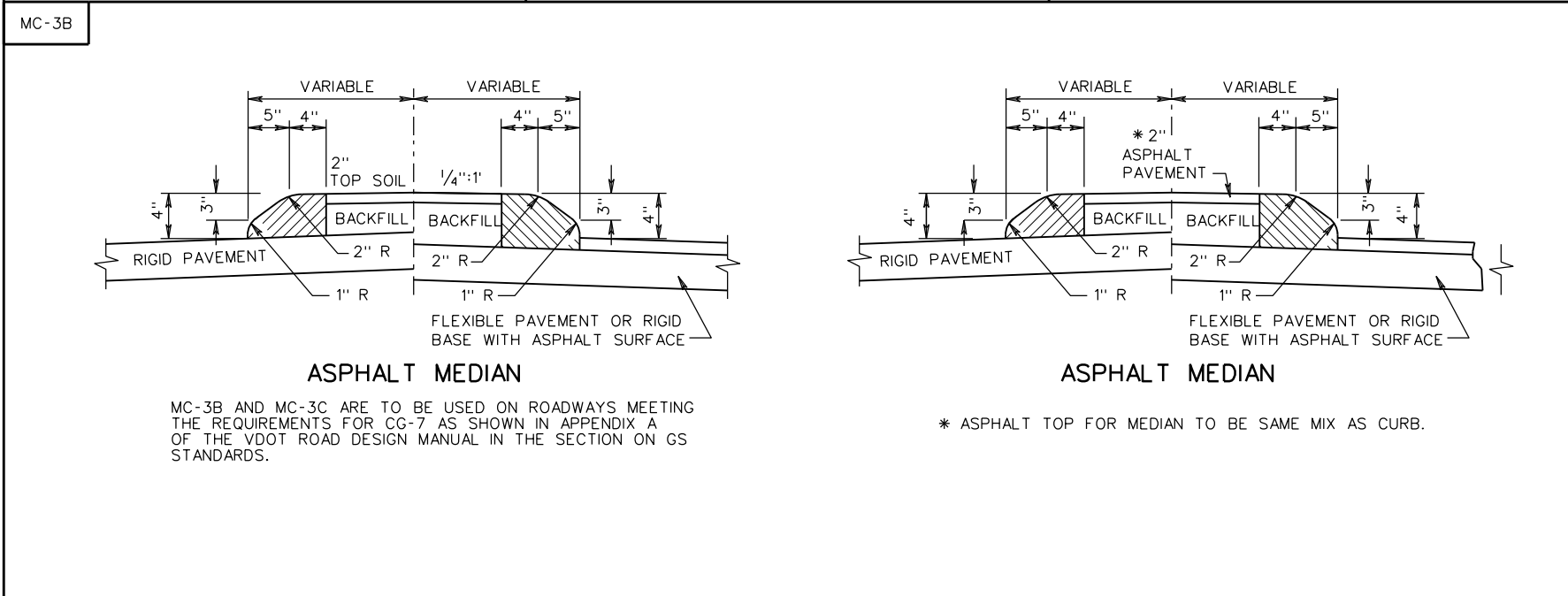
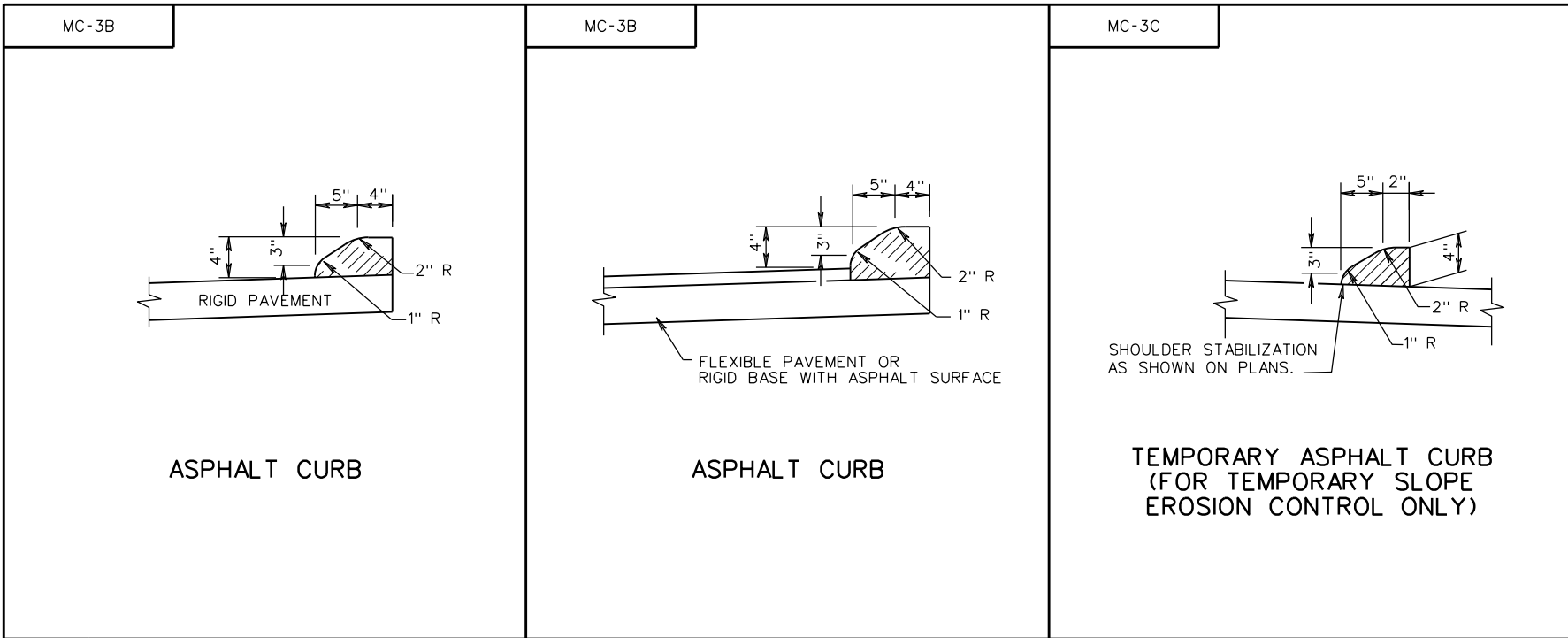
SPECIFICATION REFERENCE

105  
502





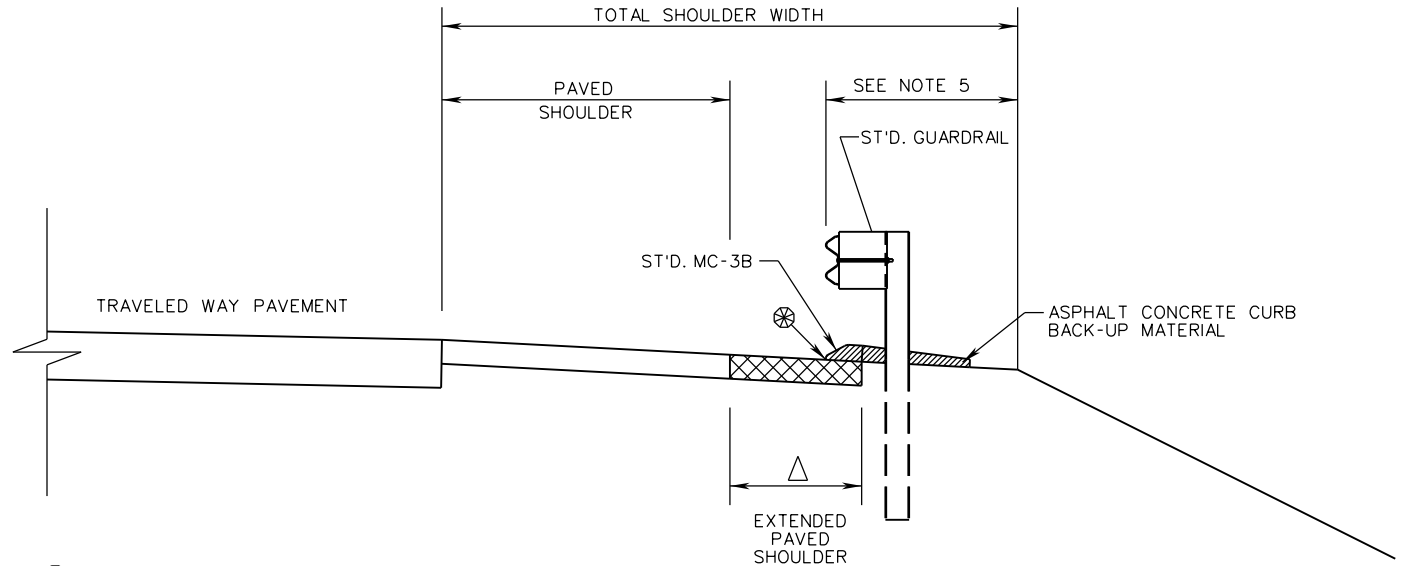
<p>SPECIFICATION REFERENCE</p>	<p><b>ASPHALT CONCRETE CURB AND MEDIAN</b> (FOR TEMPORARY OR PERMANENT INSTALLATION)</p> <p>VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	<p><b>VDOT</b> ROAD AND BRIDGE STANDARDS</p>
<p>502</p>		<p>REVISION DATE 07/16</p>
		<p>SHEET 1 OF 1 201.05</p>



 ROAD AND BRIDGE STANDARDS	<h2 style="margin: 0;">ASPHALT CONCRETE CURB AND MEDIAN</h2> <p style="margin: 0;">(FOR TEMPORARY OR PERMANENT INSTALLATION)</p> <p style="margin: 0; font-size: small;">VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	SPECIFICATION REFERENCE  502
SHEET 1 OF 2 201.06	REVISION DATE 07/16	

**NOTES**

1. STANDARD MC-3B REQUIRES THE PAVED SHOULDER TO EXTEND TO THE BACK OF CURB.
2. PAVED SHOULDER WIDTHS TO BE IN ACCORDANCE WITH THE PLANS, VDOT POLICY, OR AS DIRECTED BY THE ENGINEER.
3. THE PAVED SHOULDER AND THE EXTENDED PAVED SHOULDER SHALL BE PLACED SIMULTANEOUSLY.
4. FACE OF GUARDRAIL SHALL BE ALIGNED WITH FACE OF THE CURB.
5. DISTANCE FROM THE FACE OF RAIL TO THE HINGE POINT IN ACCORDANCE WITH THE GUARDRAIL STANDARD USED.
6. MC-3B CURB NOT PERMITTED WITHIN THE LIMITS OF ANY GUARDRAIL TERMINAL.



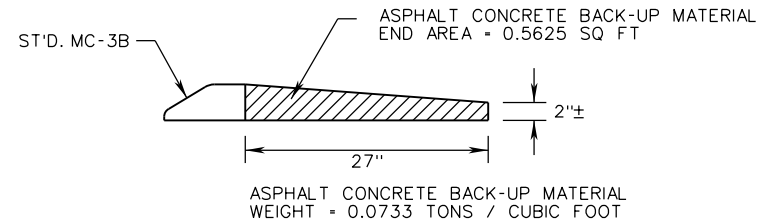
⊗ LIMIT OF SURFACE TREATMENT IF SHOULDER IS TO RECEIVE A PRIME & SEAL. THE PRIME AND SEAL IS TO BE APPLIED TO THE SHOULDER AFTER THE CURB HAS BEEN INSTALLED.

△ TO BE CONSTRUCTED WITH THE SAME MATERIAL AND TO THE SAME DEPTH AS THE PAVED SHOULDER.

**STANDARD GUARDRAIL & MC-3B ASPHALT CURB INSTALLATION**

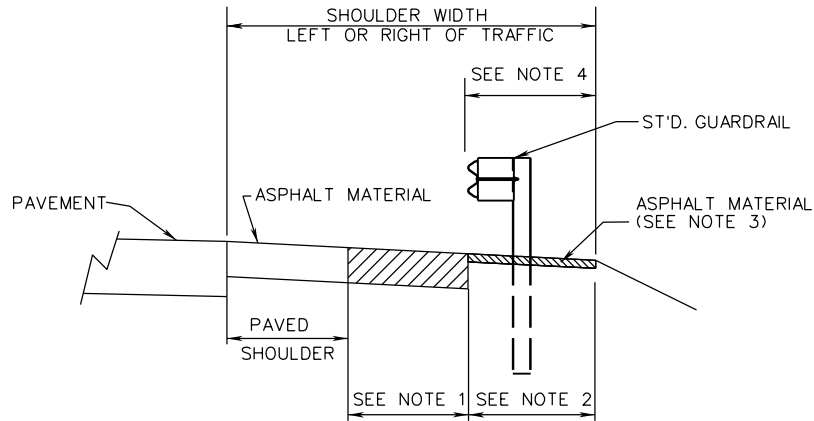
TO CALCULATE THE ASPHALT BACKUP MATERIAL

1. MULTIPLY THE LENGTH OF MC-3B BY THE END AREA WHICH RESULTS IN CUBIC FEET.
2. MULTIPLY CUBIC FEET BY 0.0733 TONS / CUBIC FOOT WHICH RESULTS IN TONS OF ASPHALT CONCRETE BACKUP MATERIAL.



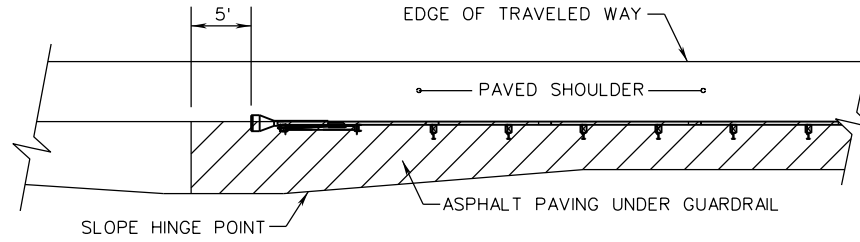
SPECIFICATION REFERENCE  105 502	A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE. <h3 style="margin: 0;">ASPHALT CONCRETE CURB</h3> <p style="margin: 0;">(ASPHALT BACKUP MATERIAL INSTALLATION)</p> VIRGINIA DEPARTMENT OF TRANSPORTATION	ROAD AND BRIDGE STANDARDS REVISION DATE 08/17 SHEET 2 OF 2 201.07
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MC-4

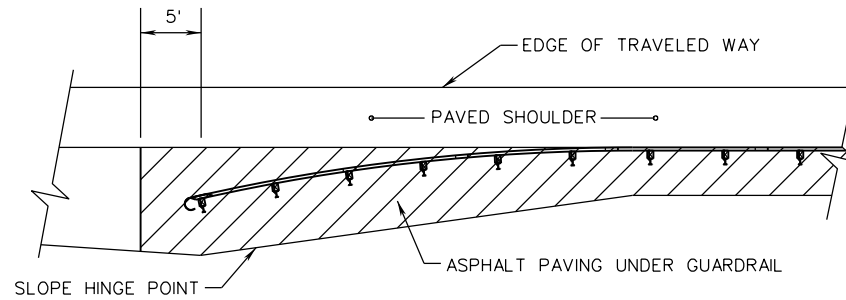


**ASPHALT PAVING UNDER GUARDRAIL**

(FOR USE WHERE ASPHALT CURB IS NOT REQUIRED)



**TANGENT TERMINALS**

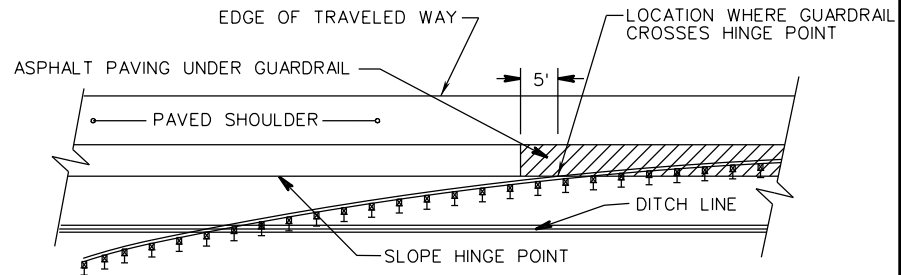


**FLARED TERMINALS**

**NOTES:**

1. CONSTRUCTED WITH THE SAME MATERIAL AND TO THE SAME DEPTH AS THE ROADWAY PAVED SHOULDER.
2. CONSTRUCTED WITH THE SAME ASPHALT MATERIALS AS THE PAVED SHOULDER FROM THE FACE OF RAIL TO THE SHOULDER HINGE POINT AT FOLLOWING DEPTHS:  
 ALLOWABLE DEPTHS OF ASPHALT MATERIAL  

SM-9.5A OR SM-12.5D	1.5"
OR	
IM-19.0A OR IM-19.0D	2"
3. MAXIMUM ALLOWABLE DEPTH FOR PAVING UNDER GUARDRAIL IS 2 INCHES.
4. DISTANCE FROM THE FACE OF RAIL TO THE HINGE POINT IN ACCORDANCE WITH THE GUARDRAIL STANDARD USED.
5. SEE GUARDRAIL OR GUARDRAIL TERMINAL STANDARD FOR INSTALLATION AND SITE PREPARATION REQUIREMENTS.



**BURIED IN BACKSLOPE TERMINAL**

METHODS FOR BEGINNING & ENDING ASPHALT PAVING UNDER GUARDRAIL AND GUARDRAIL TERMINALS.



ROAD AND BRIDGE STANDARDS

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REVISION DATE

201.08

08/17

A COPY OF THE ORIGINAL SEALED AND SIGNED DRAWING IS ON FILE IN THE CENTRAL OFFICE.

**ASPHALT PAVING UNDER GUARDRAIL**

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

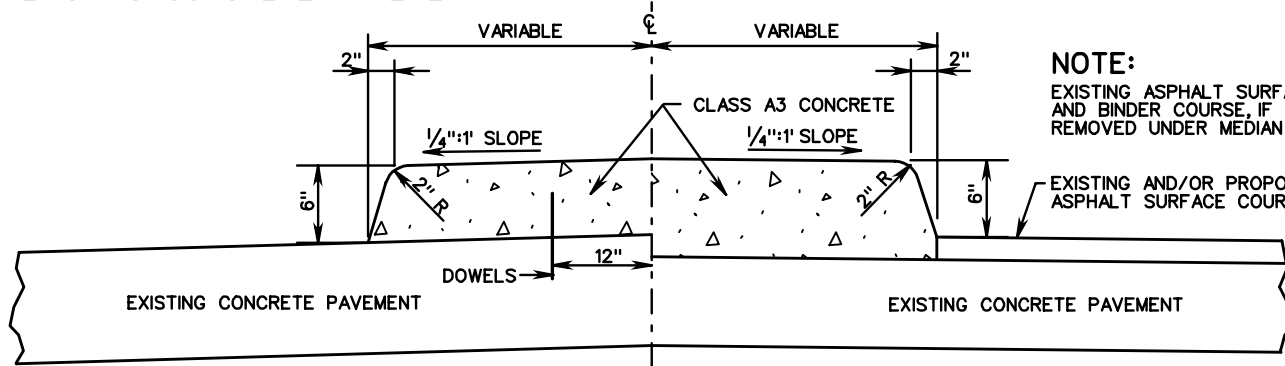
105  
502



MS-1

HALF SECTION ON EXISTING CONCRETE PAVEMENT

HALF SECTION ON EXISTING CONCRETE PAVEMENT WITH PROPOSED OR EXISTING ASPHALT PAVEMENT



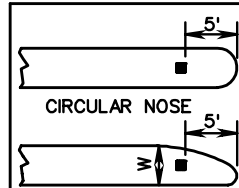
NOTE:

EXISTING ASPHALT SURFACE COURSE AND BINDER COURSE, IF ANY, TO BE REMOVED UNDER MEDIAN STRIP.

EXISTING AND/OR PROPOSED ASPHALT SURFACE COURSE

DOWEL SPACING LOGITUDINALLY AT 2'-0" C-C FROM NOSE TO FIRST JOINT.

WHEN ROADWAY DESIGN MEETS THE CRITERIA FOR CG-7 AS SHOWN IN APPENDIX A OF THE ROADWAY DESIGN MANUAL, IN THE GS STANDARDS SECTION, MEDIAN CURB IS TO BE IN ACCORDANCE WITH CG-3.



12" SQUARE HOLE FOR SIGN POST TO BE FORMED INTO INTRODUCED MEDIAN NOSES A MINIMUM OF 5' FROM THE NOSE.

W = 4' MINIMUM

WHEN MEDIAN IS INSTALLED OVER EXISTING PAVEMENT, HOLE FOR SIGN POST IS TO EXTENDED TO THE SUBBASE.

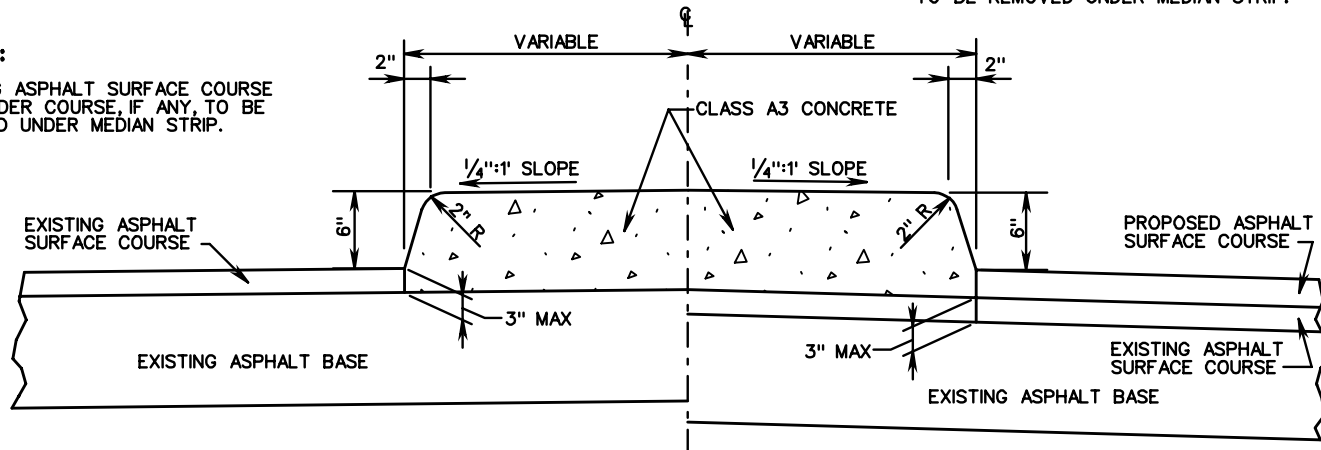
NON-SYMMETRICAL NOSE

ADDITIONAL HOLES OF ADEQUATE SIZE TO BE PROVIDED FOR SIGN POSTS, DELINEATOR POSTS, ETC. AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.

NOTE: EXISTING ASPHALT SURFACE COURSE AND BINDER COURSE, IF ANY, TO BE REMOVED UNDER MEDIAN STRIP.

NOTE:

EXISTING ASPHALT SURFACE COURSE AND BINDER COURSE, IF ANY, TO BE REMOVED UNDER MEDIAN STRIP.



HALF SECTION ON EXISTING FLEXIBLE PAVEMENT

HALF SECTION ON EXISTING FLEXIBLE PAVEMENT TO BE RESURFACED



ROAD AND BRIDGE STANDARDS

STANDARD SOLID CONCRETE RAISED MEDIAN STRIP

SPECIFICATION REFERENCE

SHEET 1 OF 1

REVISION DATE

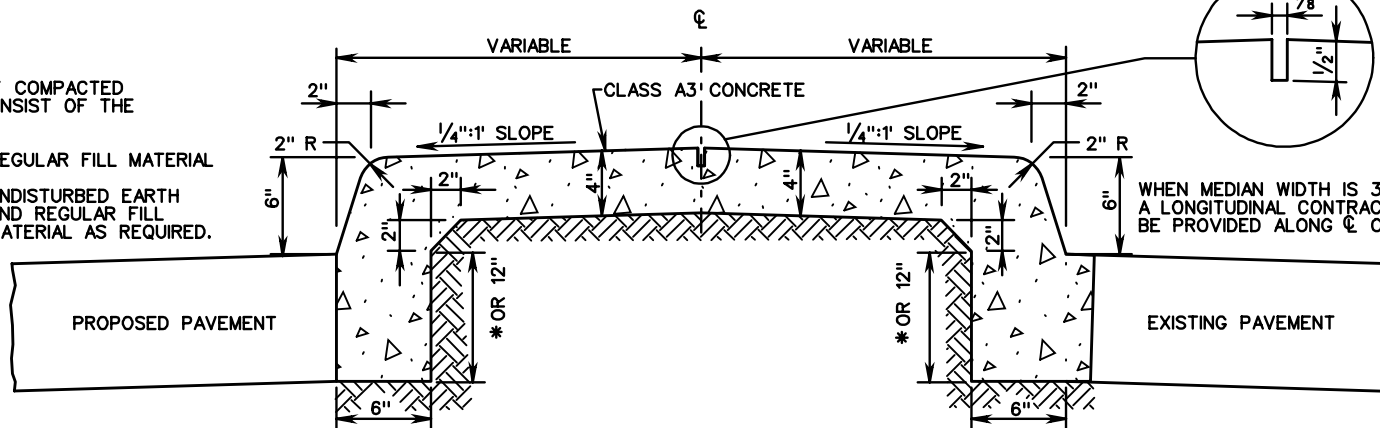
202.02

VIRGINIA DEPARTMENT OF TRANSPORTATION

502

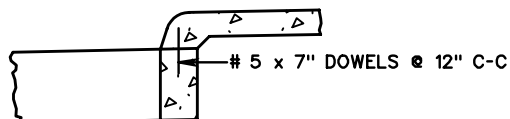
**NOTES:**

- (1) THOROUGHLY COMPACTED AREA TO CONSIST OF THE FOLLOWING:  
 IN FILLS - REGULAR FILL MATERIAL  
 IN CUTS - UNDISTURBED EARTH AND REGULAR FILL MATERIAL AS REQUIRED.

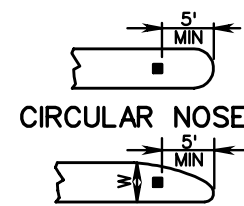
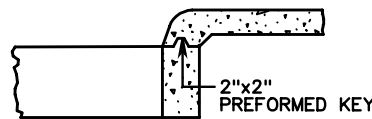


WHEN MEDIAN WIDTH IS 3 FEET OR GREATER, A LONGITUDINAL CONTRACTION JOINT SHALL BE PROVIDED ALONG  $\phi$  OF MEDIAN STRIP.

**SUGGESTED CONSTRUCTION METHOD IF TOP SLAB IS POURED SEPARATELY**



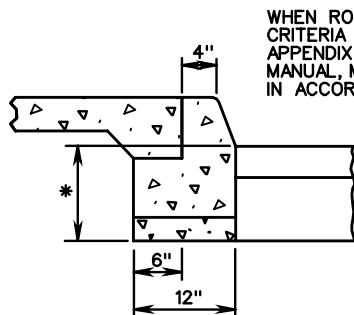
**ALTERNATE CONSTRUCTION METHOD IF TOP SLAB IS POURED SEPARATELY**



12" SQUARE HOLE FOR SIGN POST TO BE FORMED INTO INTRODUCED MEDIAN NOSES A MINIMUM OF 5' FROM THE NOSE.

W - 4' MIN

**NON-SYMMETRICAL NOSE**

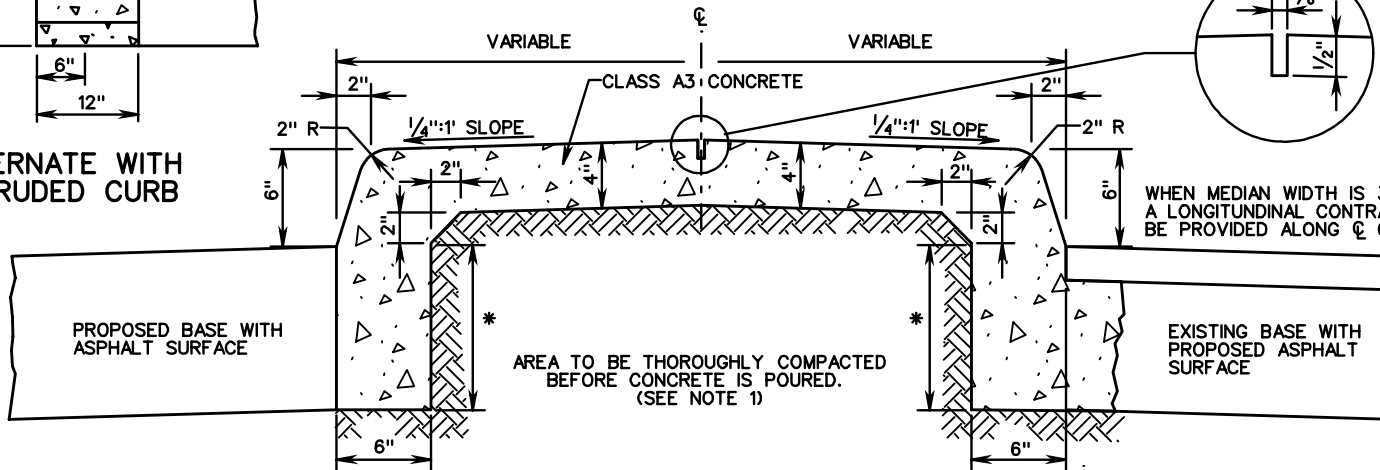


**ALTERNATE WITH EXTRUDED CURB**

WHEN ROADWAY DESIGN MEETS THE CRITERIA FOR CG-7 AS SHOWN IN APPENDIX A OF THE ROAD DESIGN MANUAL, MEDIAN CURB IS TO BE IN ACCORDANCE WITH STANDARD CG-3.

\*THE DEPTH OF CURB MAY BE REDUCED AS MUCH AS 3" (9" DEPTH) OR INCREASED AS MUCH AS 3" (15" DEPTH) IN ORDER THAT THE BOTTOM OF CURB WILL COINCIDE WITH THE TOP OF A COURSE OF THE PAVEMENT STRUCTURE. OTHERWISE, THE DEPTH IS TO BE 12" AS SHOWN. NO ADJUSTMENT IN THE PRICE BID IS TO BE MADE FOR A DECREASE OR AN INCREASE IN DEPTH.

ADDITIONAL HOLES OF ADEQUATE SIZE TO BE PROVIDED FOR SIGN POSTS, DELINEATOR POSTS, ETC. AS SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER.



WHEN MEDIAN WIDTH IS 3 FEET OR GREATER A LONGITUDINAL CONTRACTION JOINT SHALL BE PROVIDED ALONG  $\phi$  OF MEDIAN STRIP.

AREA TO BE THOROUGHLY COMPACTED BEFORE CONCRETE IS POURED. (SEE NOTE 1)

SPECIFICATION REFERENCE

502

**STANDARD SOLID CONCRETE RAISED MEDIAN STRIP**

VIRGINIA DEPARTMENT OF TRANSPORTATION

**VDOT**

ROAD AND BRIDGE STANDARDS

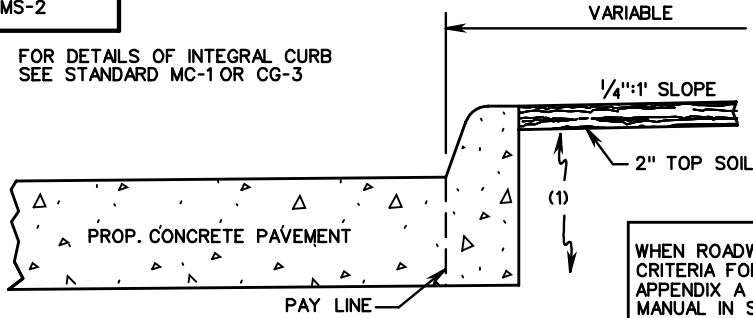
REVISION DATE

SHEET 1 OF 1

202.03

MS-2

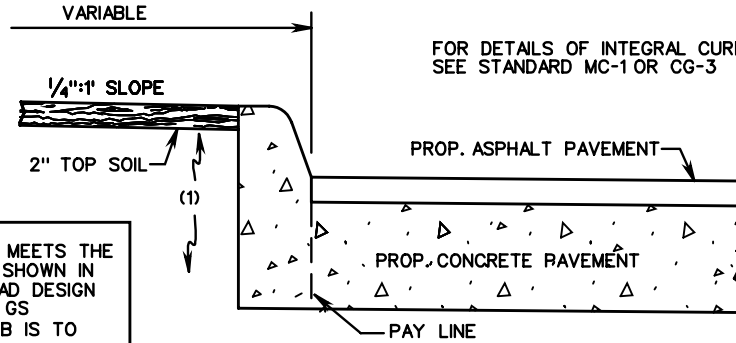
FOR DETAILS OF INTEGRAL CURB  
SEE STANDARD MC-1 OR CG-3



HALF SECTION WITH PROP.  
CONCRETE PAVEMENT

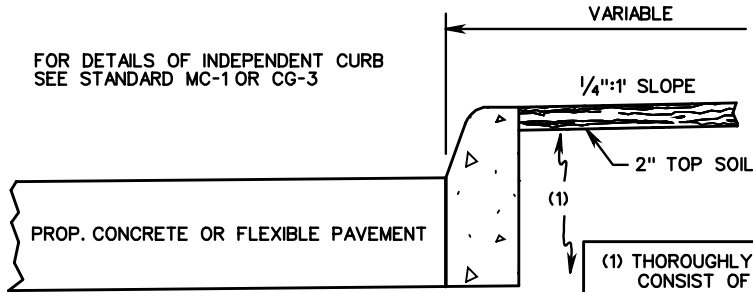
WHEN ROADWAY DESIGN MEETS THE  
CRITERIA FOR CG-7 AS SHOWN IN  
APPENDIX A OF THE ROAD DESIGN  
MANUAL IN SECTION ON GS  
STANDARDS, MEDIAN CURB IS TO  
BE IN ACCORDANCE WITH CG-3

FOR DETAILS OF INTEGRAL CURB  
SEE STANDARD MC-1 OR CG-3



HALF SECTION WITH PROP. CONCRETE  
BASE WITH ASPHALT TOP

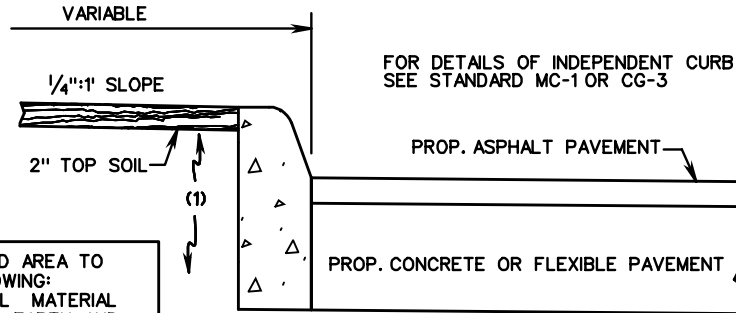
FOR DETAILS OF INDEPENDENT CURB  
SEE STANDARD MC-1 OR CG-3



HALF SECTION WITH PROP. CONCRETE  
OR FLEXIBLE PAVEMENT

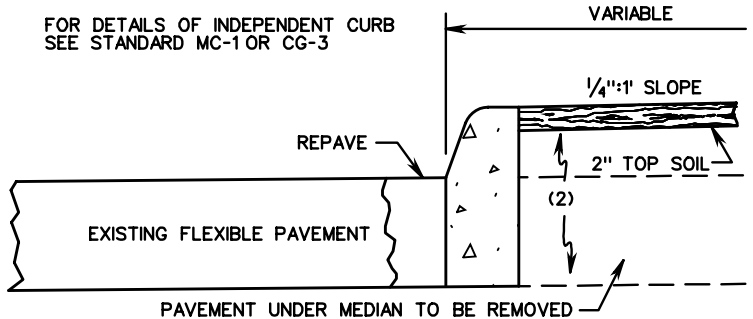
(1) THOROUGHLY COMPACTED AREA TO  
CONSIST OF THE FOLLOWING:  
IN FILLS - REGULAR FILL MATERIAL  
IN CUTS - UNDISTURBED EARTH AND  
REGULAR FILL MATERIAL,  
AS REQUIRED.  
(2) THOROUGHLY COMPACTED AREA TO  
CONSIST OF REGULAR FILL MATERIAL.

FOR DETAILS OF INDEPENDENT CURB  
SEE STANDARD MC-1 OR CG-3



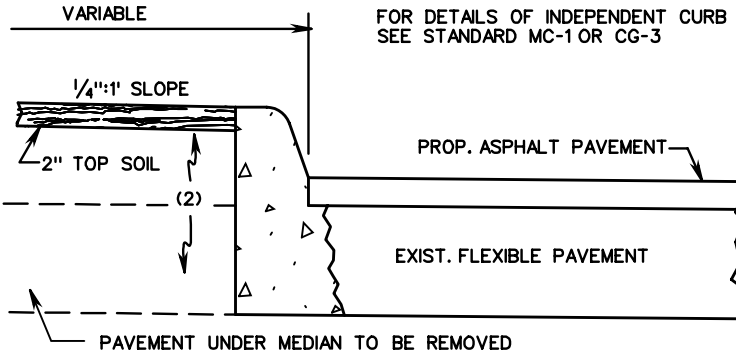
HALF SECTION WITH PROP. CONCRETE OR  
FLEXIBLE BASE WITH ASPHALT TOP

FOR DETAILS OF INDEPENDENT CURB  
SEE STANDARD MC-1 OR CG-3



HALF SECTION WITH EXISTING FLEXIBLE PAVEMENT

FOR DETAILS OF INDEPENDENT CURB  
SEE STANDARD MC-1 OR CG-3



HALF SECTION WITH EXIST. FLEXIBLE BASE  
WITH ASPHALT TOP



ROAD AND BRIDGE STANDARDS

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REVISION DATE

202.04

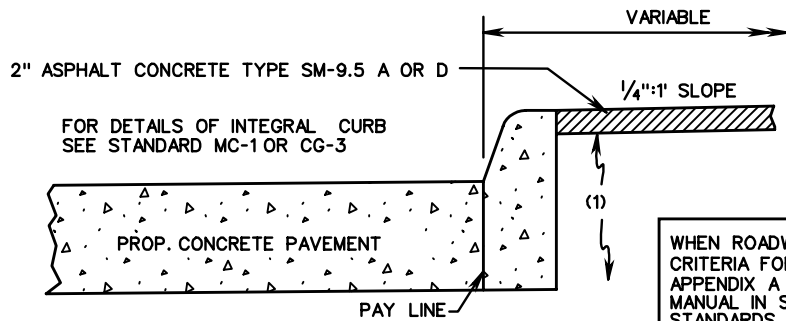
STANDARD RAISED GRASS MEDIAN STRIPS

VIRGINIA DEPARTMENT OF TRANSPORTATION

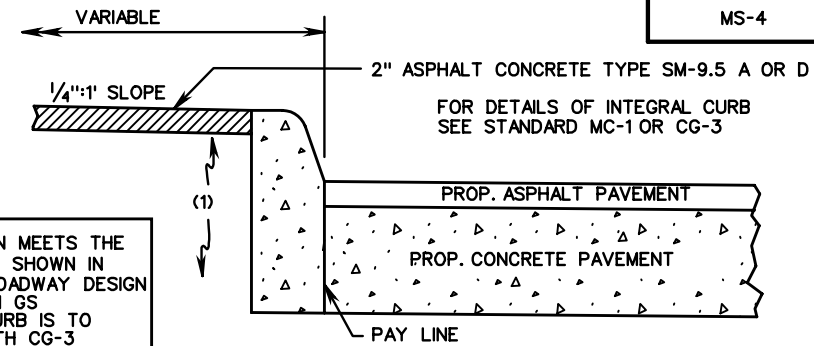
SPECIFICATION  
REFERENCE

502



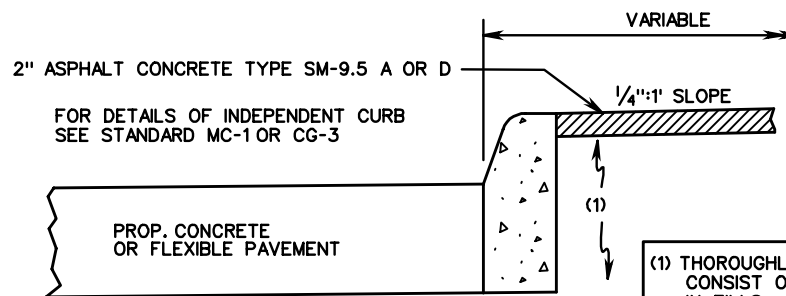


HALF SECTION WITH PROPOSED CONCRETE PAVEMENT

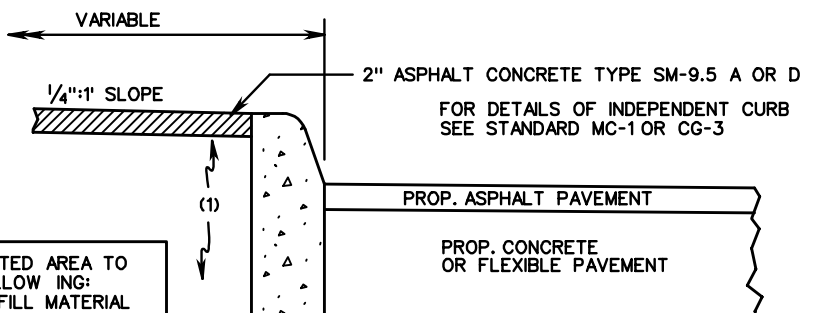


HALF SECTION WITH PROPOSED CONCRETE BASE WITH ASPHALT TOP

WHEN ROADWAY DESIGN MEETS THE CRITERIA FOR CG-7 AS SHOWN IN APPENDIX A OF THE ROADWAY DESIGN MANUAL IN SECTION ON GS STANDARDS, MEDIAN CURB IS TO BE IN ACCORDANCE WITH CG-3

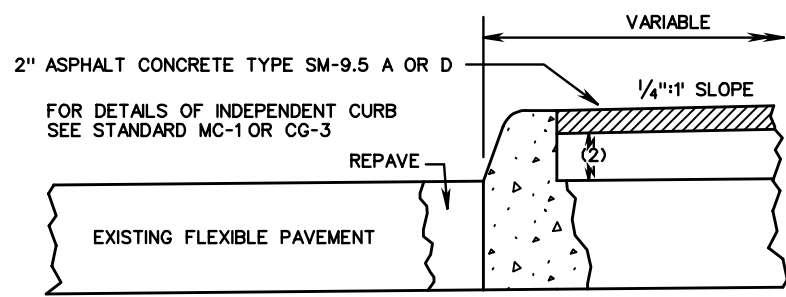


HALF SECTION WITH PROP. CONCRETE OR FLEXIBLE PAVEMENT

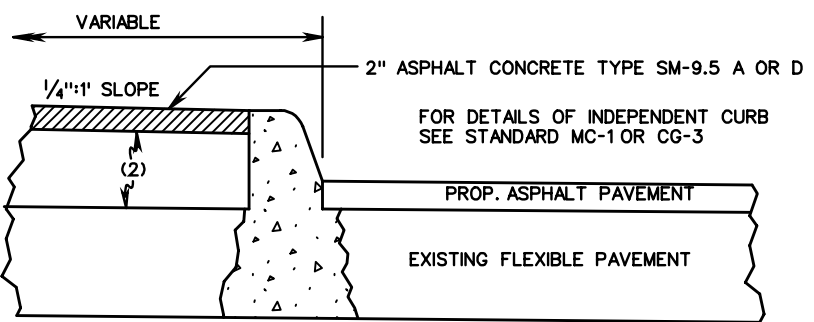


HALF SECTION WITH PROP. CONCRETE OR FLEXIBLE BASE WITH ASPHALT TOP

(1) THOROUGHLY COMPACTED AREA TO CONSIST OF THE FOLLOWING:  
 IN FILLS - REGULAR FILL MATERIAL  
 IN CUTS - UNDISTURBED EARTH AND REGULAR FILL MATERIAL, AS REQUIRED.  
 (2) THOROUGHLY COMPACTED AREA TO CONSIST OF REGULAR FILL MATERIAL.



HALF SECTION WITH EXISTING FLEXIBLE PAVEMENT



HALF SECTION WITH EXISTING FLEXIBLE BASE WITH ASPHALT TOP

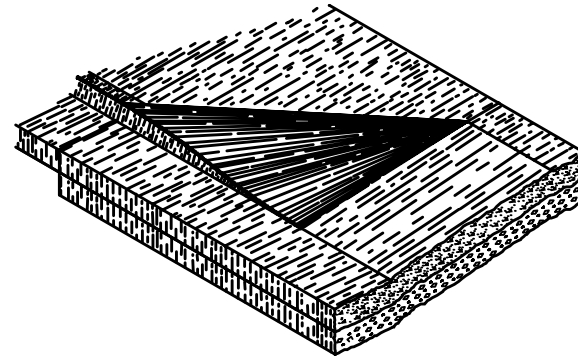
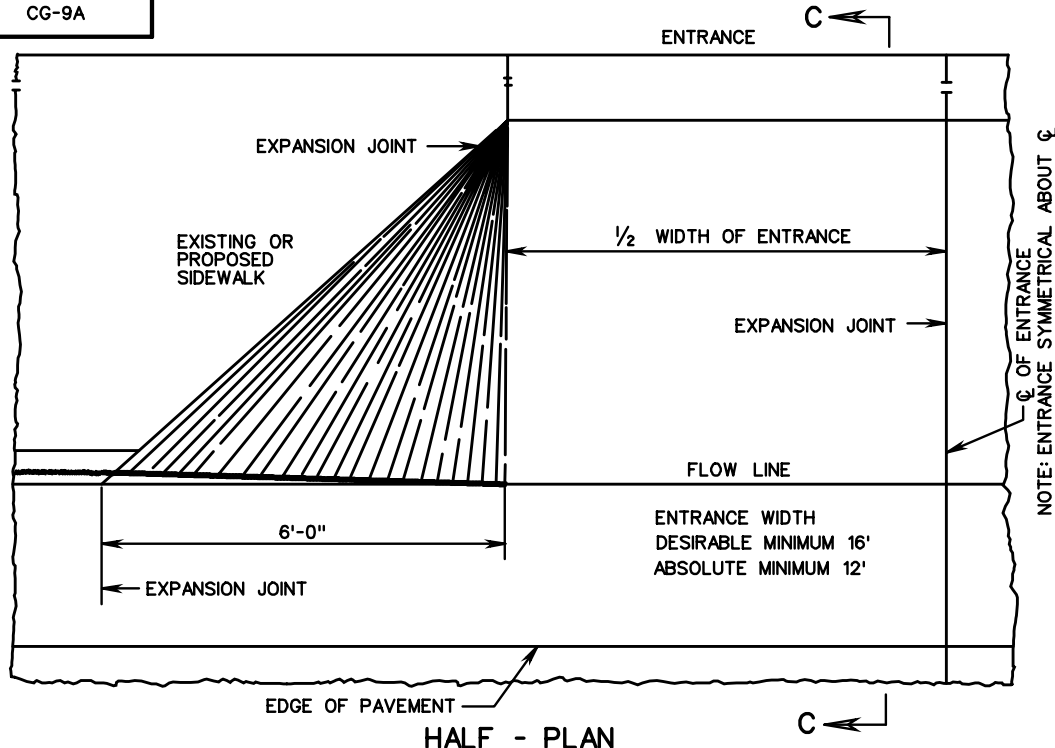
NOTE: THE ASPHALT CONCRETE SURFACE SLAB IS TO CONFORM TO THE CURRENT ROAD & BRIDGE SPECIFICATIONS FOR SM-9.5 A OR D MATERIAL EXCEPT THAT THE MINIMUM BITUMEN CONTENT IS TO BE 6.5%.

SPECIFICATION REFERENCE
502

**STANDARD RAISED ASPHALT MEDIAN**  
 (WITH P.C. CONCRETE CURB)  
 VIRGINIA DEPARTMENT OF TRANSPORTATION

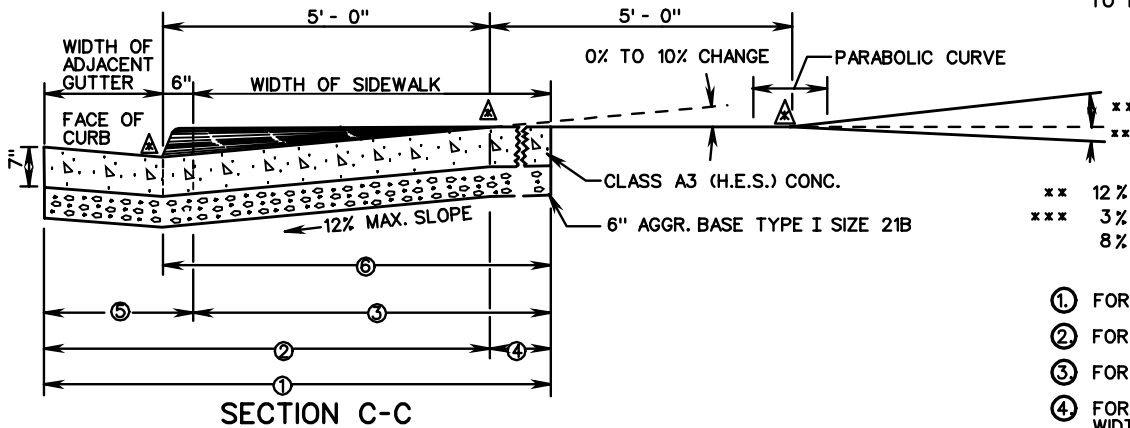
<b>VDOT</b>	
ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
	202.05

CG-9A



ISOMETRIC VIEW

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.



- \*\* 12% MAXIMUM INCREASE IN SLOPE AT MINIMUM 10' INTERVALS
- \*\*\* 3% MAXIMUM DECREASE IN SLOPE FOR FIRST 10' INTERVAL AND 8% MAXIMUM DECREASE FOR SUCCEEDING MINIMUM 10' INTERVALS

- ① FOR SIDEWALK, CURB AND GUTTER - BUILT CONCURRENTLY.
- ② FOR INITIAL CURB AND GUTTER ONLY.
- ③ FOR INITIAL SIDEWALK ONLY - 7" SIDEWALK TO BE DIPPED.
- ④ FOR PEDESTRIAN ACCESS ROUTE - MINIMUM 4'-0" TRAVERSABLE WIDTH IS REQUIRED WITH A MAXIMUM 2% CROSS SLOPE.
- ⑤ FOR CURB AND GUTTER ONLY - AFTER INITIAL SIDEWALK.
- ⑥ FOR CURB AND SIDEWALK ONLY - WITHOUT GUTTER.
- △ INDICATES POINT OF GRADE CHANGE.



ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

203.01

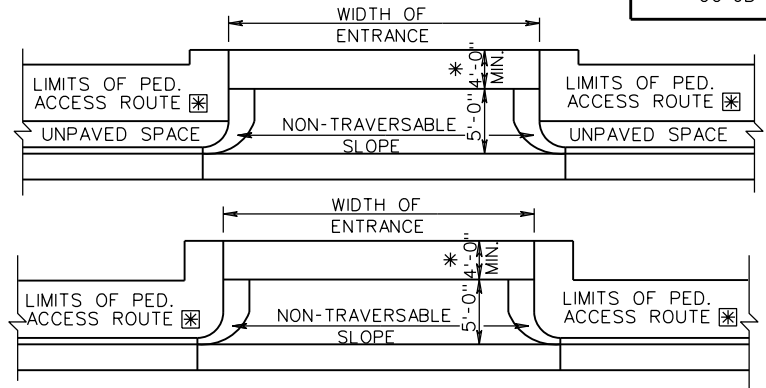
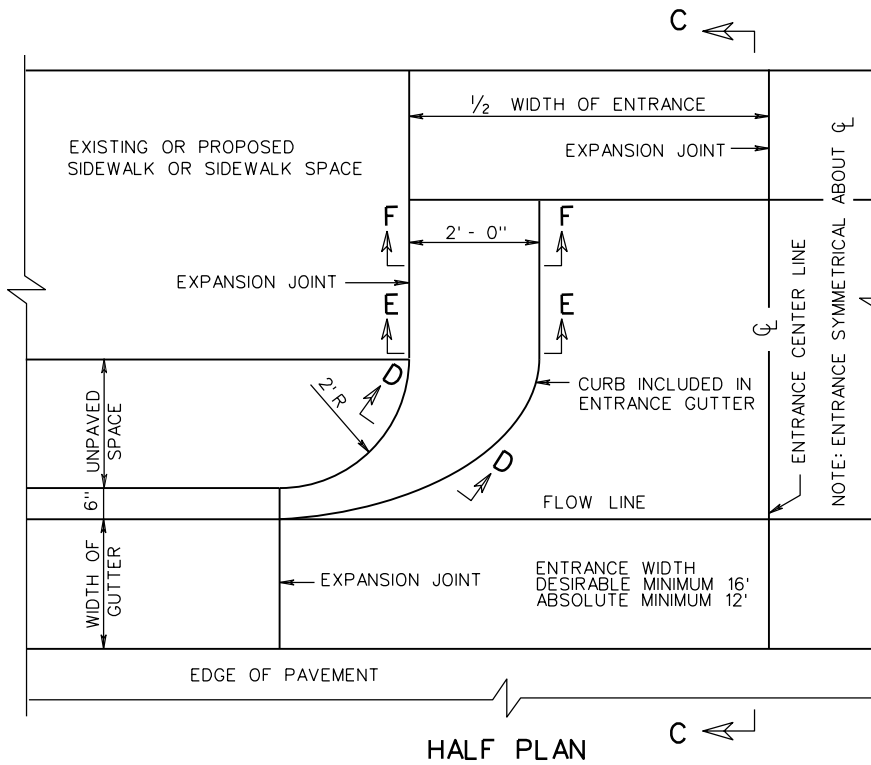
# STANDARD ENTRANCE GUTTER WITH FLARED OPENING

(FOR USE ACROSS SIDEWALK)

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

502

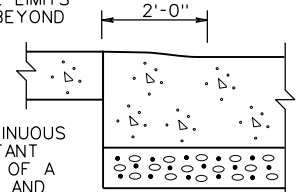


**PEDESTRIAN ACCESS ROUTE DETAIL WITH & WITHOUT UNPAVED SPACE**

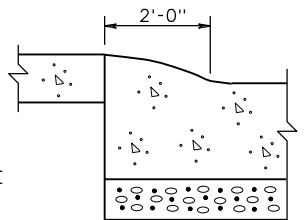
ADDITIONAL RIGHT-OF-WAY IS REQUIRED IF THE LIMITS OF PEDESTRIAN ACCESS ROUTE  $\boxtimes$  EXTEND BEYOND EXISTING OR PROPOSED VDOT RIGHT-OF-WAY.

$\boxtimes$  PEDESTRIAN ACCESS ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS. IF ACCESS ROUTE IS ADJACENT TO BACK OF CURB, MINIMUM WIDTH SHOULD BE 6'.

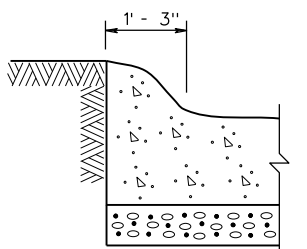
\* IF PEDESTRIAN ACCESS ROUTES  $\boxtimes$  ARE BEING PROVIDED, A MINIMUM 4' TRAVERSABLE WIDTH IS REQUIRED WITH A MAX. 2% CROSS SLOPE.



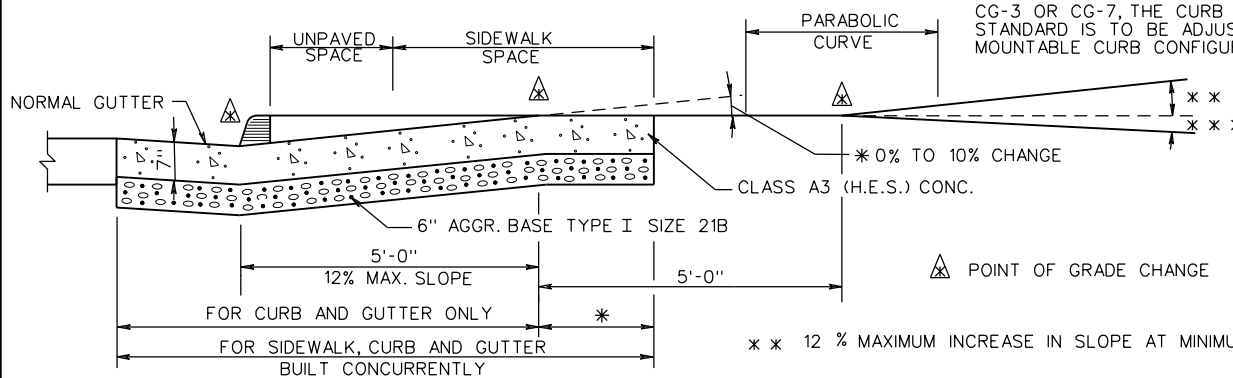
**SECTION F-F**



**SECTION E-E**



**SECTION D-D**



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.

- \* 0% TO 10% CHANGE
- \*\* 12% MAXIMUM INCREASE IN SLOPE AT MINIMUM 10' INTERVALS
- \*\*\* 3% MAXIMUM DECREASE IN SLOPE FOR FIRST 10' INTERVAL AND 8% MAXIMUM DECREASE FOR SUCCEEDING MINIMUM 10' INTERVALS

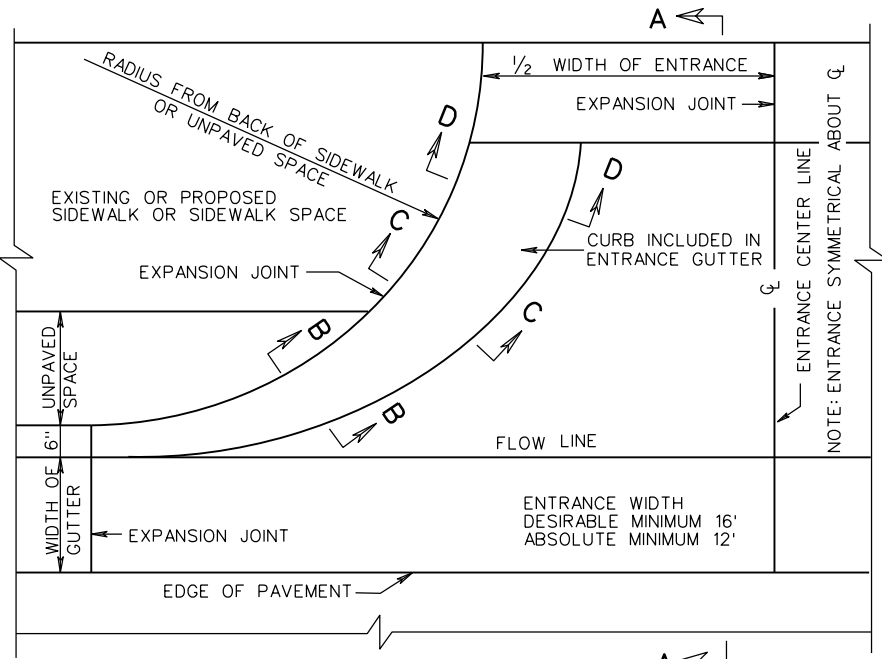
SPECIFICATION REFERENCE
502

**STANDARD ENTRANCE GUTTER**

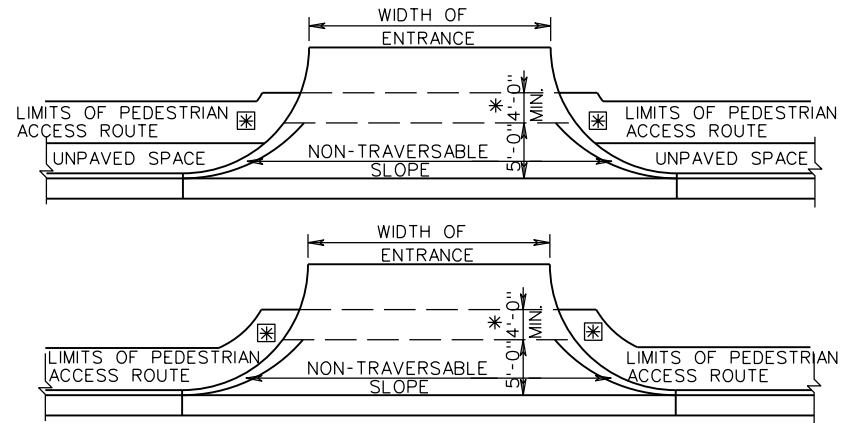
VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
07/15	203.02

CG-9D



HALF PLAN



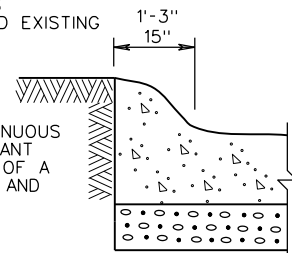
PEDESTRIAN ACCESS ROUTE DETAILS WITH & WITHOUT UNPAVED SPACE

ADDITIONAL RIGHT-OF-WAY IS REQUIRED IF THE LIMITS OF PEDESTRIAN ACCESS ROUTE  $\boxtimes$  EXTEND BEYOND EXISTING OR PROPOSED VDOT RIGHT-OF-WAY.

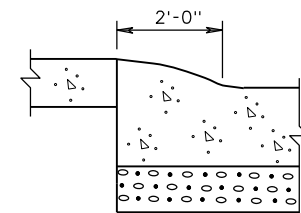
$\boxtimes$  PEDESTRIAN ACCESS ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.

\* IF PEDESTRIAN ACCESS ROUTES  $\boxtimes$  ARE BEING PROVIDED, A MINIMUM 4' TRAVERSABLE WIDTH IS REQUIRED WITH A MAX. 2% CROSS SLOPE.

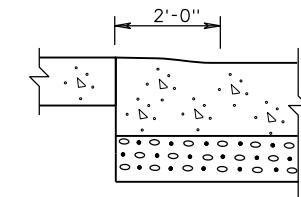
WHEN USED IN CONJUNCTION WITH STANDARD CG-3 OR CG-7, THE CURB FACE ON THIS STANDARD IS TO BE ADJUSTED TO MATCH THE MOUNTABLE CURB CONFIGURATION.



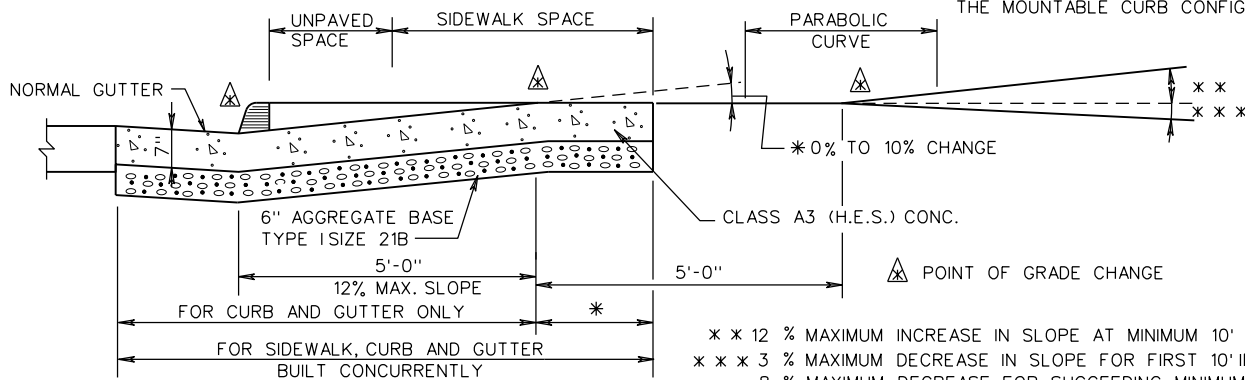
SECTION B-B



SECTION C-C



SECTION D-D



SECTION A-A



ROAD AND BRIDGE STANDARDS

STANDARD ENTRANCE GUTTER

SPECIFICATION REFERENCE

SHEET 1 OF 1

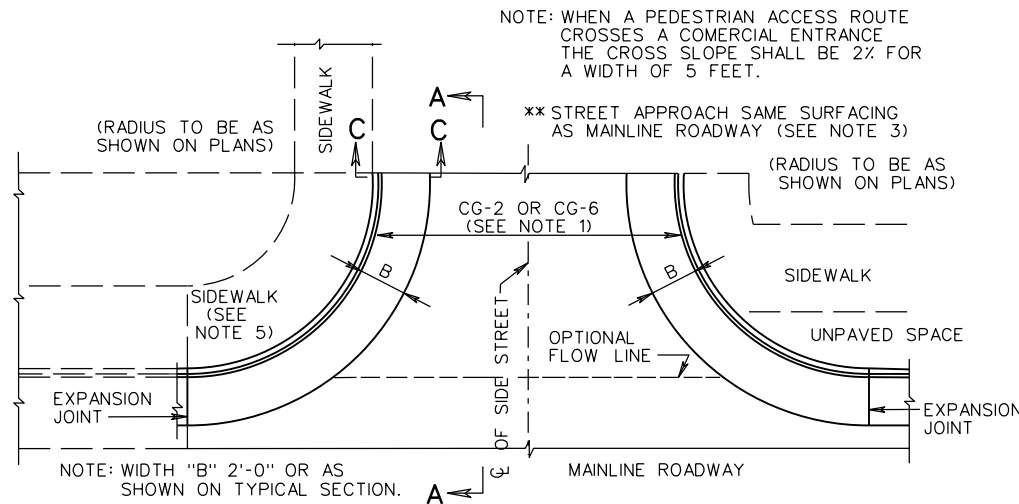
REVISION DATE

502

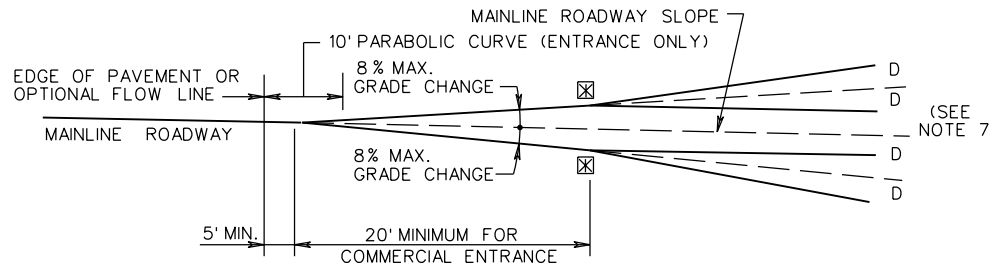
203.03

07/15

VIRGINIA DEPARTMENT OF TRANSPORTATION

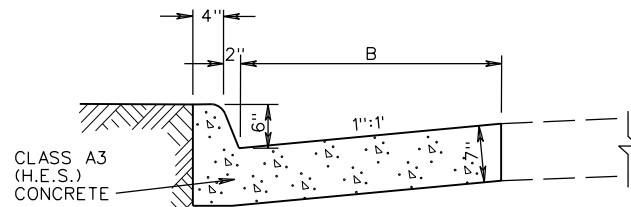


PLAN VIEW



☒ CONSTRUCT GRADE CHANGES WITH A PARABOLIC CURVE.

SECTION A - A



SECTION C-C

GENERAL NOTES

1. 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.
2. SEE STANDARD CG-12 FOR CURB RAMP DESIGN TO BE USED WITH THIS STANDARD.
3. 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.)
4. RADIAL CURB OR COMBINATION CURB AND GUTTER SHALL NOT BE CONSTRUCTED BEYOND THE R/W LINE EXCEPT FOR REPLACEMENT PURPOSES.

ENTRANCE NOTES

5. 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 7". (SEE CG-13)
6. PLANS ARE TO INDICATE WHEN CONSTRUCTION OF A FLOW LINE IS REQUIRED TO PROVIDE POSITIVE DRAINAGE ACROSS THE ENTRANCE.
7. THE DESIRABLE AND MAXIMUM ENTRANCE GRADE CHANGES "D" ARE LISTED IN THE ALLOWABLE ENTRANCE GRADE TABLE. THESE VALUES ARE NOT APPLICABLE TO STREET CONNECTIONS.

INTERSECTION NOTES

8. WHEN CG-11 IS USED FOR STREET CONNECTIONS, THE CONNECTION MUST BE DESIGNED IN ACCORDANCE WITH AASHTO POLICY AND THE APPLICABLE REQUIREMENTS OF THE VDOT ROAD DESIGN MANUAL, INCLUDING STOPPING SIGHT DISTANCE AND K VALUE REQUIREMENTS.
9. OPTIONAL FLOWLINE MAY REQUIRE WARPING OF A PORTION OF GUTTER TO PROVIDE POSITIVE DRAINAGE ACROSS THE INTERSECTION.

ALLOWABLE ENTRANCE GRADE CHANGES

ENTRANCE VOLUME		GRADE CHANGE "D"	
		DESIRABLE	MAXIMUM
HIGH	MORE THAN 1500 VPD	0 %	3 %
MEDIUM	500-1500 VPD	≤ 3 %	6 %
LOW	LESS THAN 500 VPD	≤ 6 %	8 %

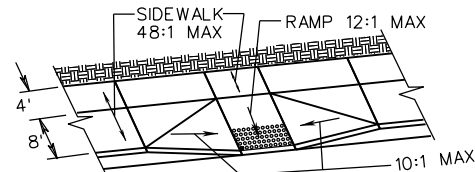
NOTE: ALLOWABLE ENTRANCE GRADE TABLE IS NOT APPLICABLE TO STREET CONNECTIONS

SPECIFICATION REFERENCE  502	<h2 style="margin: 0;">METHOD OF TREATMENT</h2> <h3 style="margin: 0;">(CONNECTION FOR STREET INTERSECTIONS AND COMMERCIAL ENTRANCES)</h3> <p style="margin: 0; font-size: small;">VIRGINIA DEPARTMENT OF TRANSPORTATION</p>	ROAD AND BRIDGE STANDARDS REVISION DATE 07/15 SHEET 1 OF 1 203.04
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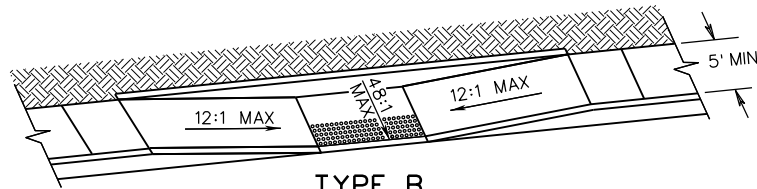
**GENERAL NOTES:**

1. THE DETECTABLE WARNING SHALL BE PROVIDED BY TRUNCATED DOMES.
2. DETECTABLE WARNING SHALL BE FROM THE MATERIALS APPROVED LIST FOR DETECTABLE WARNING SURFACES. PRODUCTS NOT LISTED SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION FOR CG-12 DETECTABLE WARNING SURFACE AND SHALL BE SUBMITTED TO THE STANDARDS AND SPECIAL DESIGN SECTION FOR APPROVAL.
3. SLOPING SIDES OF CURB RAMP MAY BE POURED MONOLITHICALLY WITH RAMP FLOOR OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
4. IF RAMP FLOOR IS PRECAST, HOLES MUST BE PROVIDED FOR DOWEL BARS SO THAT ADJOINING FLARED SIDES CAN BE CAST IN PLACE AFTER PLACEMENT OF PRECAST RAMP FLOOR. PRECAST CONCRETE SHALL BE CLASS A-4.
5. REQUIRED BARS ARE TO BE NO. 5 X 8" PLACED 1' CENTER TO CENTER ALONG BOTH SIDES OF THE RAMP FLOOR, MID-DEPTH OF RAMP FLOOR. MINIMUM CONCRETE COVER 1/2".
6. CURB / CURB AND GUTTER SLOPE TRANSITIONS ADJACENT TO CURB RAMPS ARE INCLUDED IN PAYMENT FOR CURB / CURB AND GUTTER.
7. CURB RAMPS ARE TO BE LOCATED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THEY ARE TO BE PROVIDED AT INTERSECTIONS WHEREVER AN ACCESSIBLE ROUTE WITHIN THE RIGHT OF WAY OF A HIGHWAY FACILITY CROSSES A CURB REGARDLESS OF WHETHER SIDEWALK IS EXISTING, PROPOSED, OR NONEXISTENT. THEY MUST BE LOCATED WITHIN PEDESTRIAN CROSSWALKS AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER, AND SHOULD NOT BE LOCATED BEHIND VEHICLE STOP LINES, EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. ACCESSIBLE ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS.
8. RAMPS MAY BE PLACED ON RADIAL OR TANGENTIAL SECTIONS PROVIDED THAT THE CURB OPENING IS PLACED WITHIN THE LIMITS OF THE CROSSWALK AND THAT THE SLOPE AT THE CONNECTION OF THE CURB OPENING IS PERPENDICULAR TO THE CURB.
9. TYPICAL CONCRETE SIDEWALK IS 4" THICK. WHEN THE ENTRANCE RADIUS CANNOT ACCOMMODATE THE TURNING REQUIREMENTS OF ANTICIPATED HEAVY TRUCK TRAFFIC, REFER TO STANDARD CG-13, COMMERCIAL ENTRANCE (HEAVY TRUCK TRAFFIC) FOR CONCRETE DEPTH.
10. WHEN CURB RAMPS ARE USED IN CONJUNCTION WITH A SHARED USE PATH, THE MINIMUM WIDTH SHALL BE THE WIDTH OF THE SHARED USE PATH.
11. WHEN ONLY ONE CURB RAMP IS PROVIDED FOR TWO CROSSINGS (DIAGONAL), A 4' x 4' LANDING AREA SHALL BE PROVIDED TO MANEUVER A WHEELCHAIR INTO THE CROSSWALK WITHOUT GOING INTO THE TRAVELWAY. THIS 4' x 4' LANDING AREA MAY INCLUDE THE GUTTER PAN.
12. ALL CASES WHERE CURB RAMPS INTERSECT A RADIAL SECTION OF CURB AT ENTRANCES OR STREET CONNECTIONS THE DETECTABLE WARNING SURFACE SHALL HAVE A FACTORY RADIUS OR BE FIELD-MODIFIED AS RECOMMENDED BY THE MANUFACTURER TO MATCH THE BACK OF CURB.

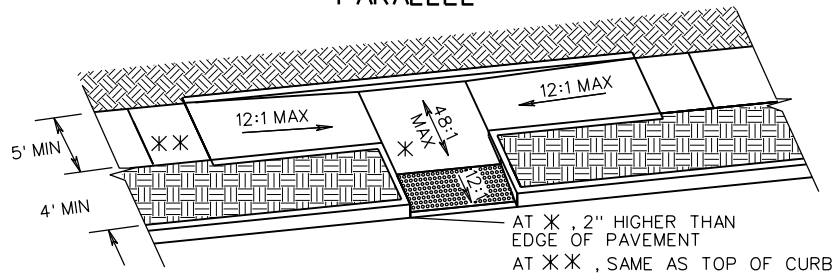
NOTE: COMPONENTS OF CURB RAMPS CONSIST OF THE FOLLOWING:  
 HYDRAULIC CEMENT SIDEWALK (DEPTH IN INCHES, AREA IN SQUARE YARDS)  
 CURB WHEN REQUIRED (CG-2 OR CG-3 IN LINEAR FEET)  
 DETECTABLE WARNING SURFACE (AREA IN SQUARE YARDS)  
 EACH OF THE ABOVE ITEMS IS A SEPARATE PAY ITEM AND SHOULD BE SUMMARIZED FOR EACH CURB CUT RAMP.



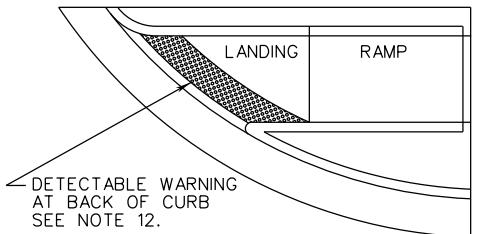
**TYPE A  
PERPENDICULAR**



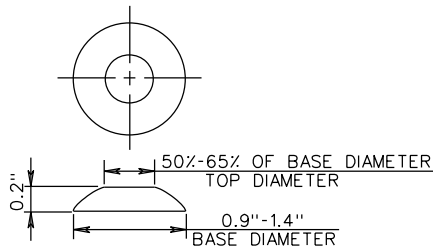
**TYPE B  
PARALLEL**



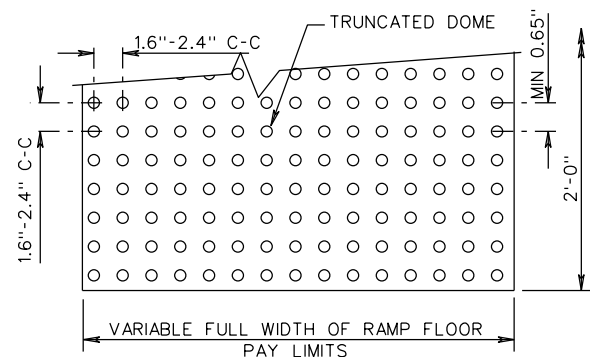
**TYPE C  
PARALLEL & PERPENDICULAR**



**DETECTABLE WARNING  
INSTALLED ON A RADIUS**



**TRUNCATED DOME  
DETAIL**



**DETECTABLE WARNING  
DETAIL**

<b>VDOT</b>	
ROAD AND BRIDGE STANDARDS	
SHEET 1 OF 5	REVISION DATE
203.05	07/15

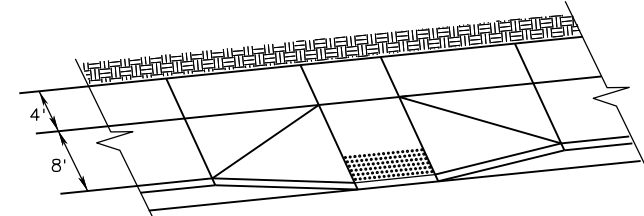
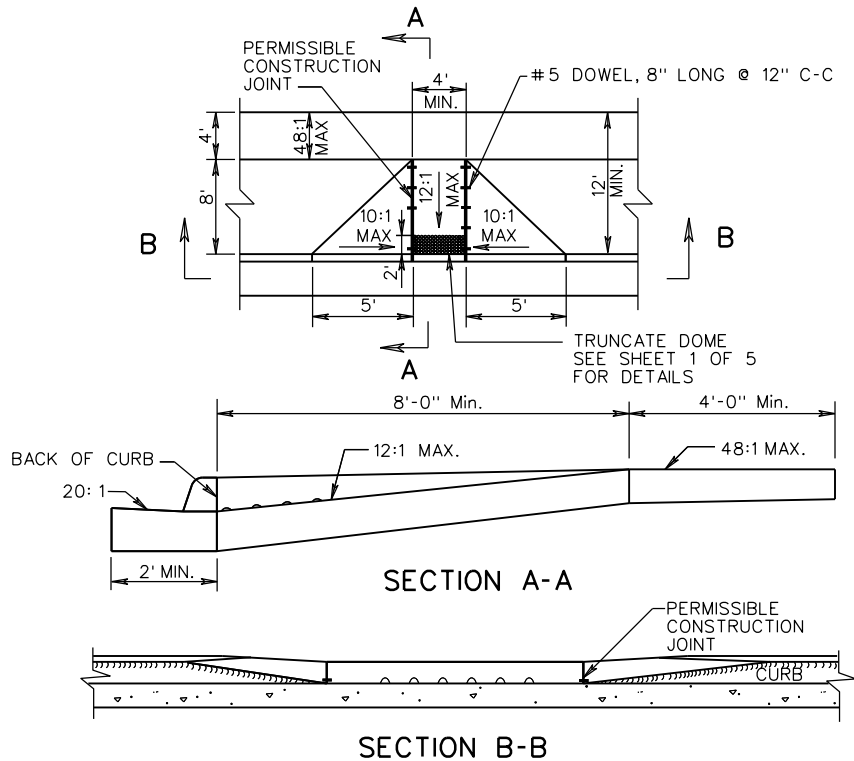
**CG-12 DETECTABLE WARNING SURFACE**

**(GENERAL NOTES)**

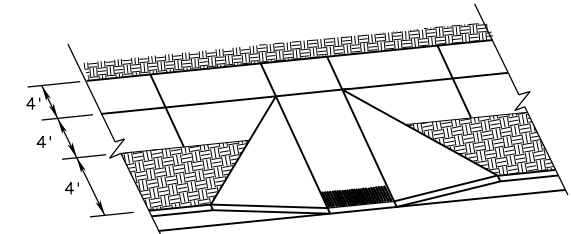
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION  
REFERENCE

105  
502

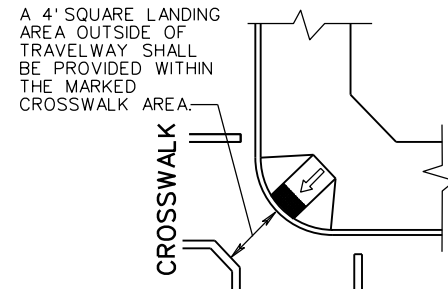
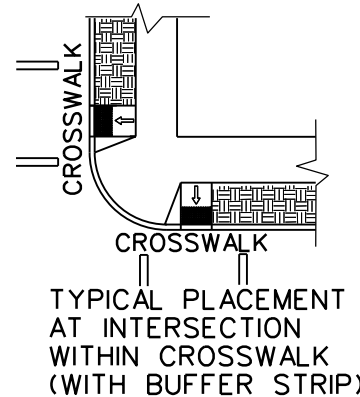
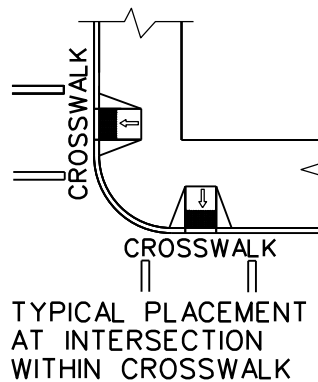


TYPICAL DESIGN

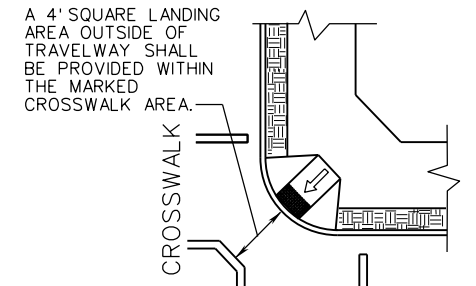


TYPE A WITH BUFFER STRIP

NOTES:  
 FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.  
 THIS DESIGN TO BE USED FOR CONSTRUCTION THAT INCORPORATES WIDER SIDEWALK. LANDING (4' WIDE) REQUIRED AT TOP OF CURB RAMP. MINIMUM CURB RAMP LENGTH 8 FEET FOR NEW CONSTRUCTION.



DIAGONAL PLACEMENT



DIAGONAL PLACEMENT WITH BUFFER STRIP

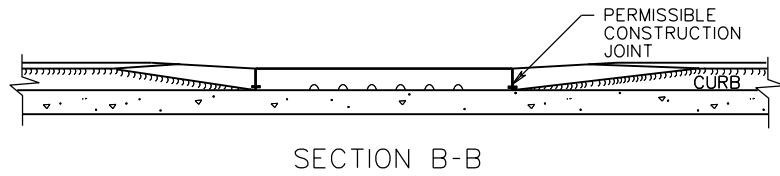
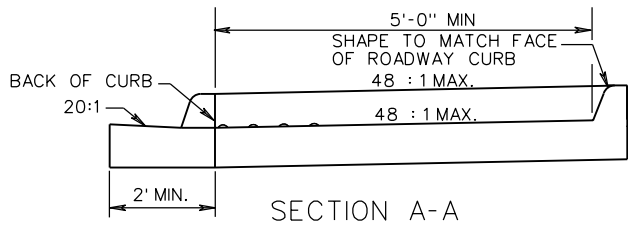
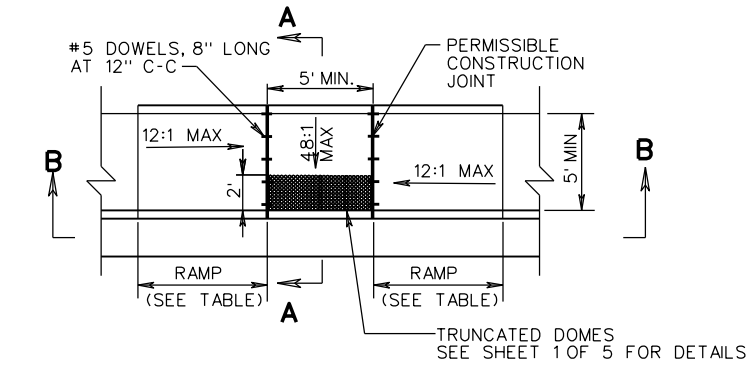
SPECIFICATION REFERENCE
105 502

CG-12 DETECTABLE WARNING SURFACE  
 TYPE A (PERPENDICULAR) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 2 OF 5
07/15	203.06

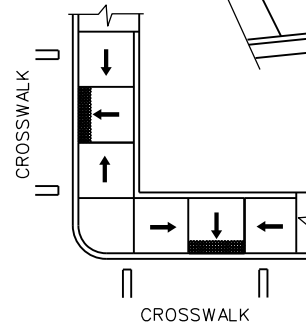
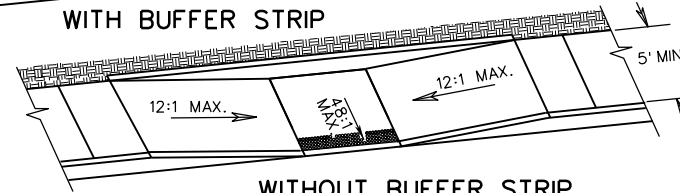
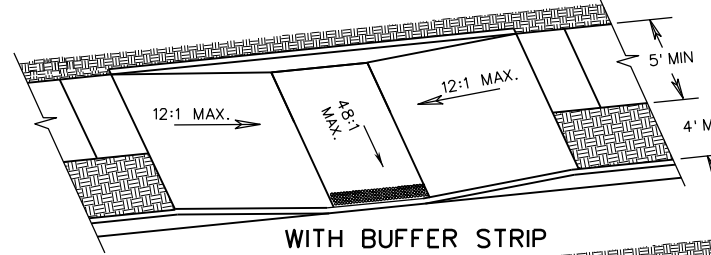
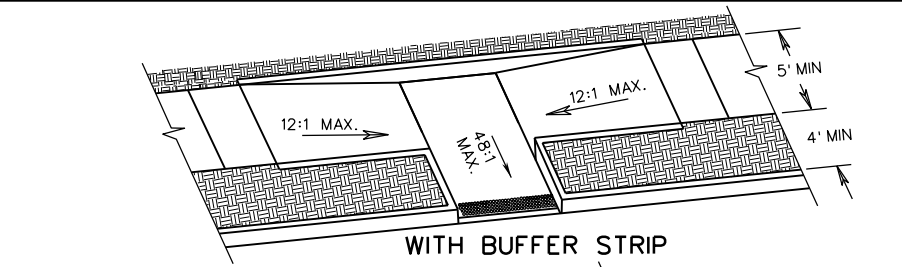
CG-12



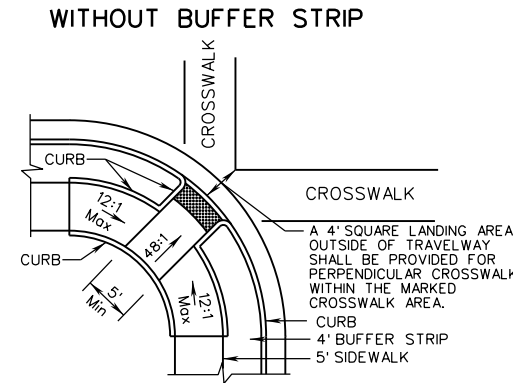
NOTES: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.

THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

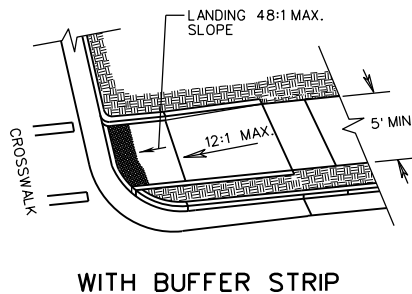
TYPE B PARALLEL APPLICATION		
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	4	6
1	5	7
2	5	8
3	6	9
4	8	12
5	10	15
6	14	15



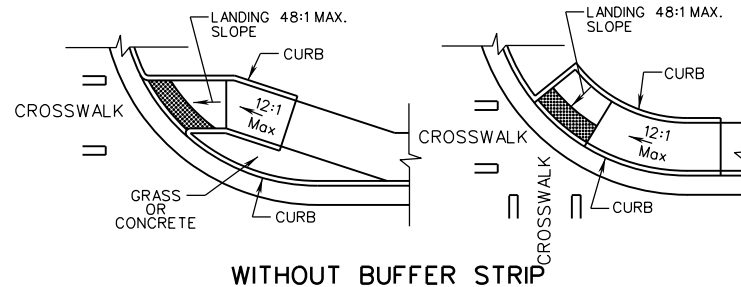
TYPICAL PLACEMENT AT INTERSECTION WITHIN CROSSWALK



DIAGONAL PLACEMENT



WITH BUFFER STRIP



WITHOUT BUFFER STRIP



ROAD AND BRIDGE STANDARDS

SHEET 3 OF 5

REVISION DATE

203.07

07/16

CG-12 DETECTABLE WARNING SURFACE

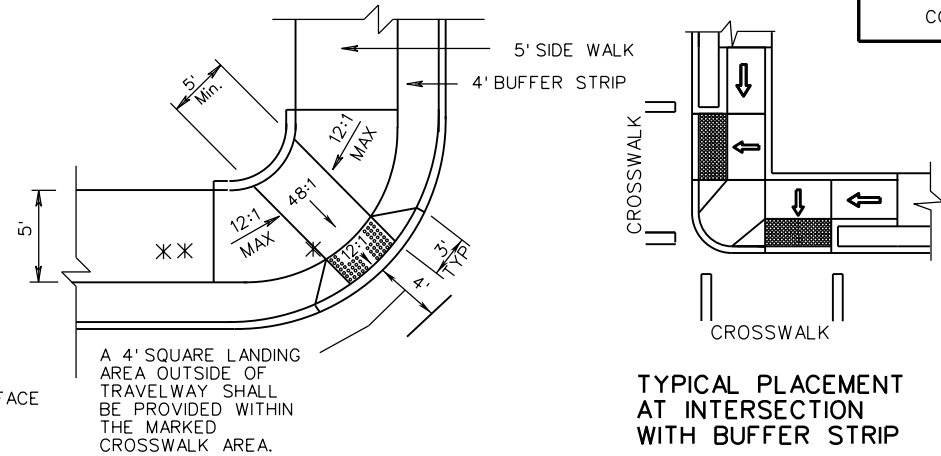
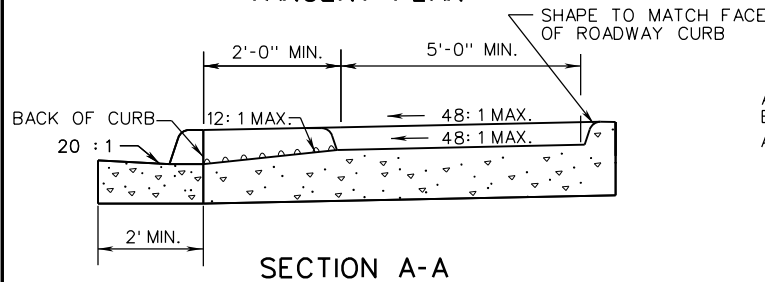
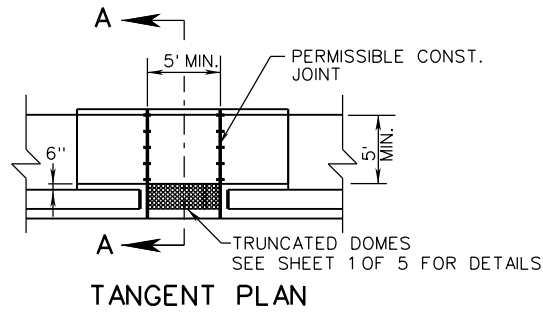
TYPE B (PARALLEL) APPLICATION

VIRGINIA DEPARTMENT OF TRANSPORTATION

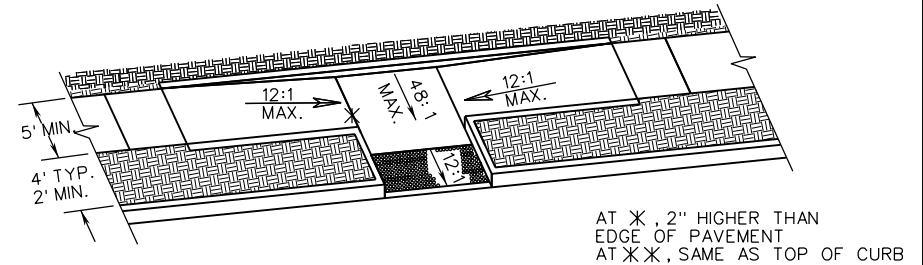
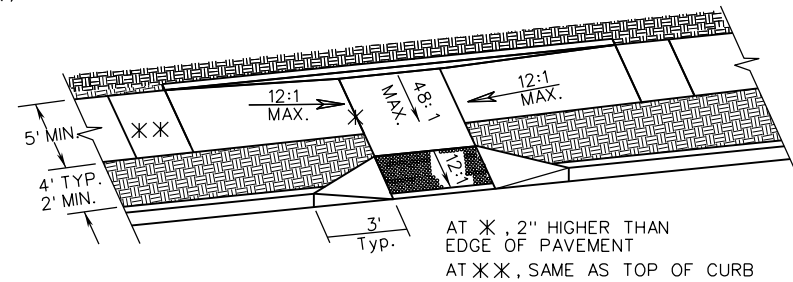
SPECIFICATION REFERENCE

105  
502





AT ✕, 2" HIGHER THAN EDGE OF PAVEMENT  
 AT ✕✕, SAME AS TOP OF CURB



NOTES: FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.

THE SELECTION OF CURB TYPE AND THE CONFIGURATION OF THE BUFFER STRIP MAY VARY TO MEET EXISTING FIELD CONDITIONS AND ROADWAY GEOMETRICS PROVIDING THE DIMENSIONS AND SLOPES ARE AS NOTED.

THIS COMBINED (PARALLEL & PERPENDICULAR) DESIGN CAN BE USED WITH ADJOINING BUFFER STRIP. LANDING AT BOTTOM OF TWO SLOPING SIDES WITH 5' X 5' MIN. DIMENSIONS. THE SHORT PERPENDICULAR RUN TO THE STREET CAN BE PROTECTED BY A LANDSCAPED SETBACK OR CONNECTED TO THE SIDEWALK WITH A WARPED SURFACE.

TYPE C PARALLEL & PERPENDICULAR APPLICATION		
ROADWAY GRADE IN PERCENT	MINIMUM RAMP LENGTH IN FEET	
	4" CURB	6" CURB
0	2	4
1	2	5
2	3	5
3	3	6
4	4	8
5	5	10
6	7	14
7	13	15
8	15	15

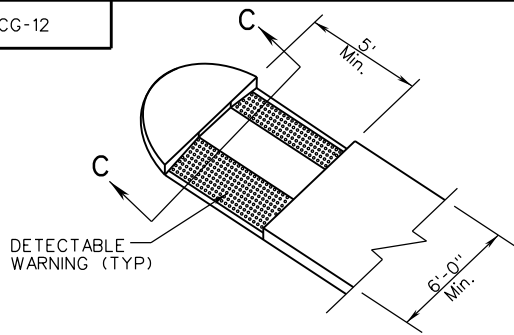
THE REQUIRED LENGTH OF A PARALLEL RAMP IS LIMITED TO 15 FEET, REGARDLESS OF THE SLOPE.

SPECIFICATION REFERENCE
105 502

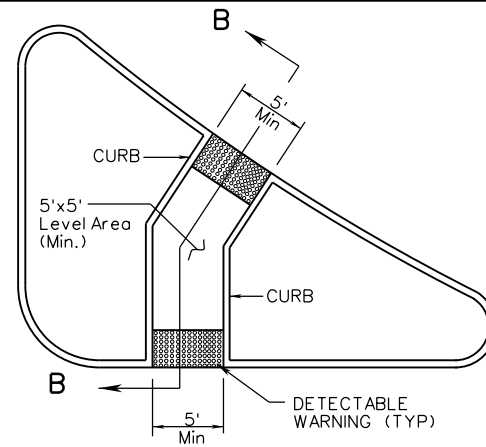
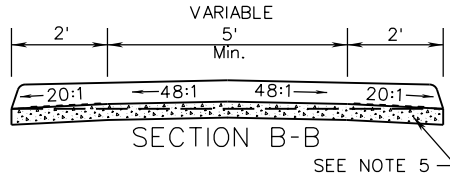
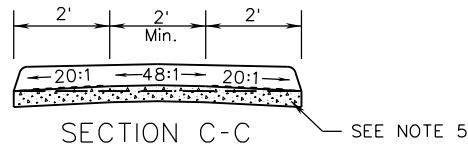
CG-12 DETECTABLE WARNING SURFACE  
 TYPE C (PARALLEL & PERPENDICULAR) APPLICATION  
 VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT ROAD AND BRIDGE STANDARDS	
REVISION DATE 07/15	SHEET 4 OF 5 203.08

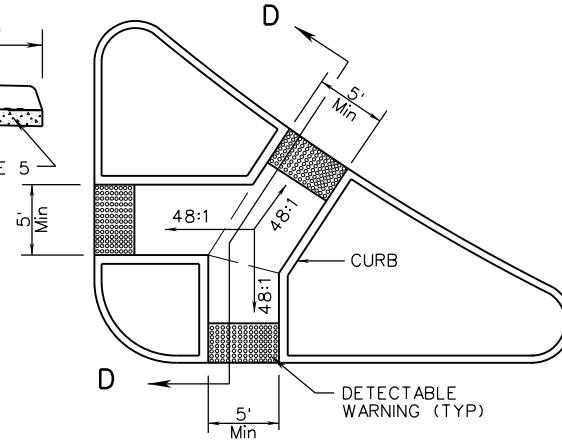
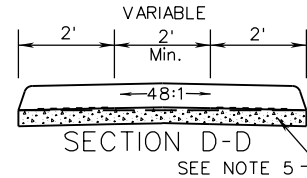
CG-12



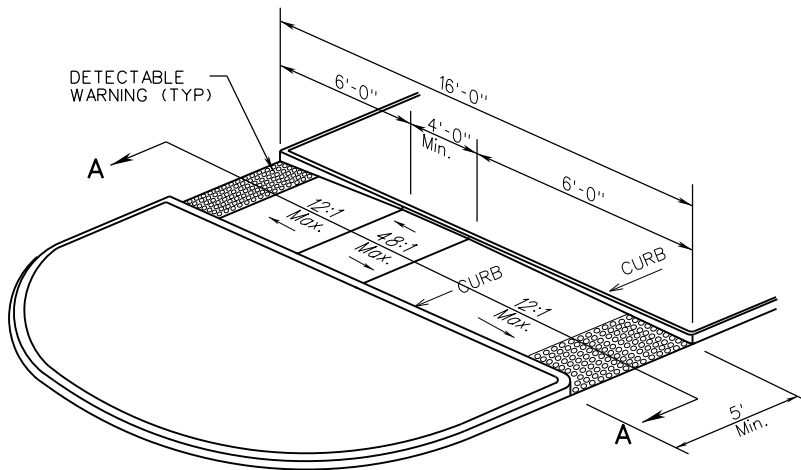
MEDIAN WITH CUT-THROUGH  
TYPE M2



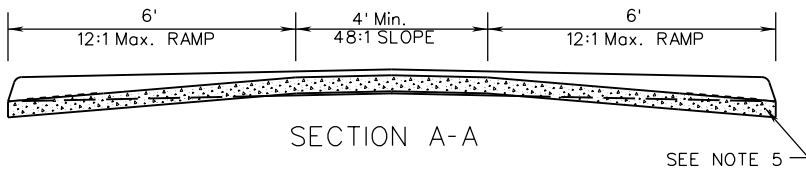
REFUGE ISLAND WITH RAMPS  
TYPE RI1



REFUGE ISLAND CUT - THROUGH  
TYPE RI2



MEDIAN WITH RAMP  
TYPE M1



NOTES:

- FOR GENERAL NOTES ON THE DETECTABLE WARNING SURFACE, SEE SHEET 1 OF 5.
- CURB SHALL BE SHAPED TO MATCH THE FACE OF ROADWAY CURB.
- SEE ROADWAY PLANS FOR MEDIAN AND REFUGE ISLAND DIMENSIONS
- RAMPS AND CUT THROUGH'S SHALL BE ALIGNED WITH CROSSWALKS.
- THE RAMPS AND CUT THROUGH'S SHALL BE INSTALLED AND PAID FOR AS 4" HYDRAULIC CEMENT CONCRETE SIDEWALK IN ACCORDANCE WITH SECTION 504 OF THE ROAD & BRIDGE SPECIFICATIONS. EXCAVATION OF MATERIAL FOR THE INSTALLATION OF THE SIDEWALK SHALL BE INCLUDED IN THE PRICE BID FOR 4" HYDRAULIC CEMENT CONCRETE SIDEWALK.
- CUT THROUGH'S LESS THAN 6' IN WIDTH SHALL NOT HAVE DETECTABLE WARNINGS INSTALLED.



ROAD AND BRIDGE STANDARDS

SHEET 5 OF 5

REVISION DATE

203.09

7/12

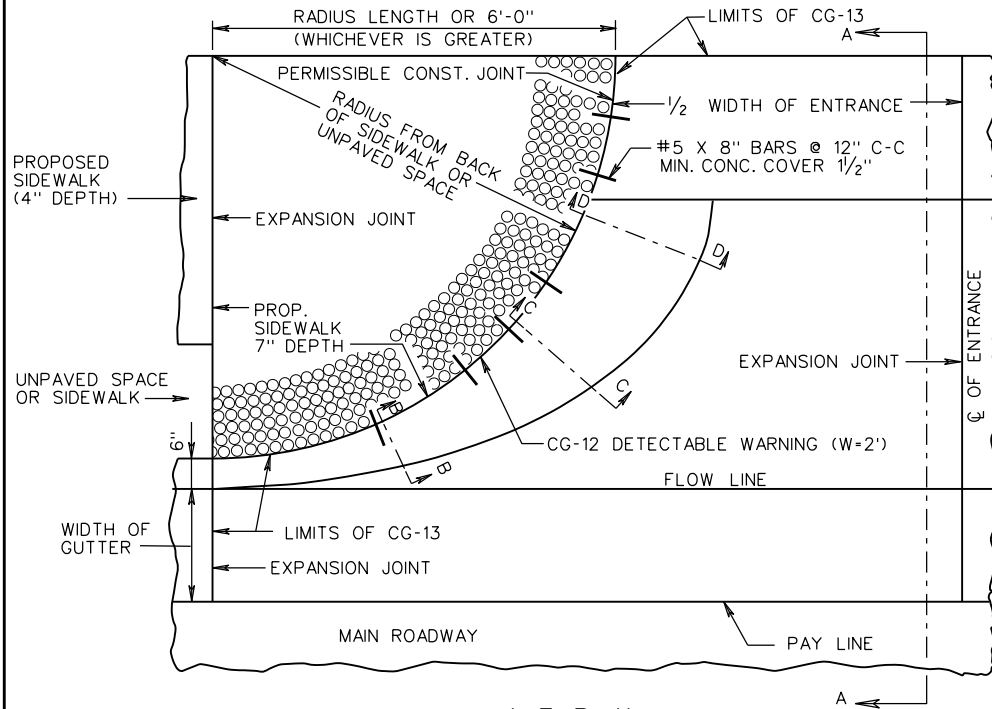
CG-12 DETECTABLE WARNING SURFACE

MEDIAN AND REFUGE ISLAND APPLICATIONS

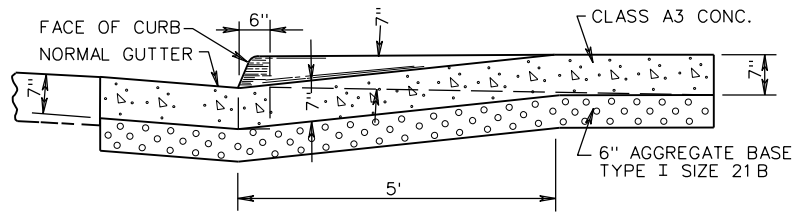
VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

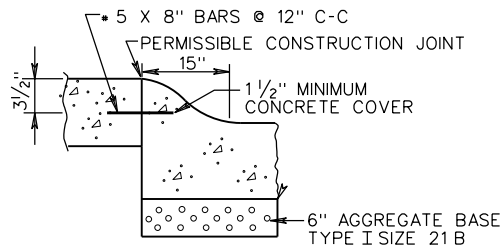
105  
502



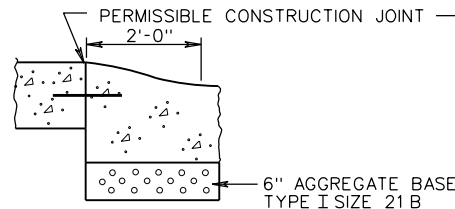
HALF PLAN



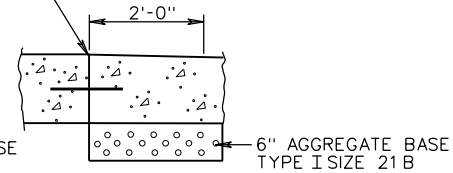
SECTION A-A



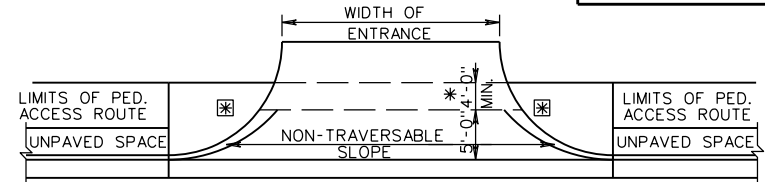
SECTION B-B



SECTION C-C



SECTION D-D



**PEDESTRIAN ACCESS ROUTE DETAIL**

ADDITIONAL RIGHT-OF-WAY IS REQUIRED IF THE LIMITS OF PEDESTRIAN ACCESS ROUTE  EXTEND BEYOND EXISTING OR PROPOSED VDOT RIGHT-OF WAY.

PEDESTRIAN ACCESS ROUTES PROVIDE A CONTINUOUS UNOBSTRUCTED, STABLE, FIRM AND SLIP RESISTANT PATH CONNECTING ALL ACCESSIBLE ELEMENTS OF A FACILITY THAT CAN BE APPROACHED, ENTERED AND USED BY PEDESTRIANS. IF ACCESS ROUTE IS ADJACENT TO BACK OF CURB, MINIMUM WIDTH SHOULD BE 6'.

\* IF PEDESTRIAN ACCESS ROUTES  ARE BEING PROVIDED, A MINIMUM 4' TRAVERSABLE WIDTH IS REQUIRED WITH MAX. 2% CROSS SLOPE.

NOTES:

1. PROPOSED 7" SIDEWALK IS TO BE POURED MONOLITHICALLY WITH ENTRANCE OR BY USING PERMISSIBLE CONSTRUCTION JOINT WITH REQUIRED BARS.
2. PROPOSED 7" SIDEWALK TO BE CLASS A-3 CONCRETE.
3. REQUIRED BARS ARE TO BE NO. 5X8" PLACED 1' CENTER TO CENTER ALONG BACK OF CURB, MID-DEPTH OF SIDEWALK. MINIMUM CONCRETE COVER 1 1/2".
4. ALL DETAILS AND DIMENSIONS NOT SHOWN ARE THE SAME AS STANDARD CG-9D.
5. THIS DESIGN MAY ALSO BE APPLIED TO OTHER ENTRANCE STANDARDS AS THE NEED ARISES.
6. 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.
7. SEE STANDARD CG-12 FOR DETECTABLE WARNING DETAILS.

SPECIFICATION REFERENCE
502

**COMMERCIAL ENTRANCE**  
(HEAVY TRUCK TRAFFIC ANTICIPATED)

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

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203.10

STANDARD

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ROAD AND BRIDGE STANDARDS

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REFERENCE