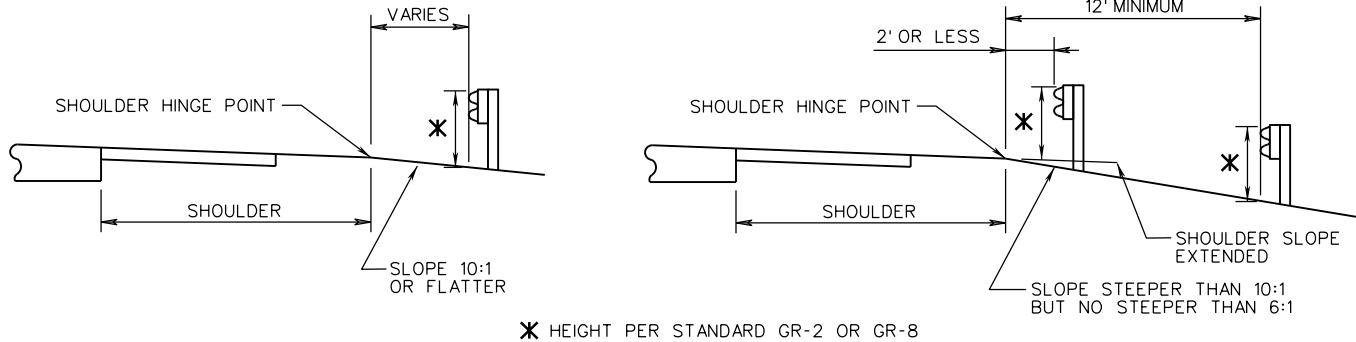


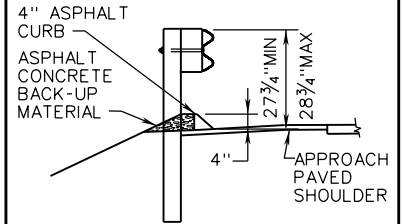
GR-INS



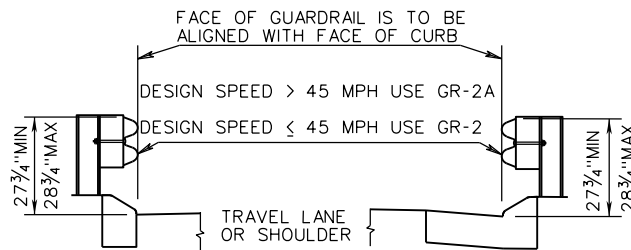
MEASURING GUARDRAIL HEIGHT ON FRONT SLOPE RELATIVE TO SHOULDER HINGE POINT

FACE OF GUARDRAIL IS TO BE ALIGNED WITH FACE OF CURB.  
 DESIGN SPEED > 45 MPH  
 USE GR-2A

DESIGN SPEED ≤ 45 MPH  
 USE GR-2.



ASPHALT CURB SECTION



GR-2 INSTALLATION WITH CG-3 OR CG-7 CURB

FOR GUARDRAIL DESIGN POLICIES USING CURB & GUTTER OR URBAN DESIGNS WITH SIDEWALK OR SIDEWALK SPACE SEE APPENDIX I OF THE ROAD DESIGN MANUAL

TABLE I

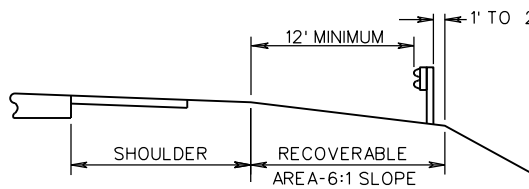
NORMAL GUARDRAIL LOCATION-THROUGH TRAFFIC LANES LEFT OF TRAFFIC

TOTAL SHOULDER WIDTH (S) (PAVED & GRADED)	PAVED SHOULDER WIDTH (P <sub>S</sub> ) (SEE NOTE)	OFFSET FROM EDGE OF TRAVELED WAY TO FACE OF GUARDRAIL (O)
17'	12'	14'
15'	3', 4', or 10'	12'
13'	3', 4', or 8'	10'
11'	3' or 4'	8'
9'	3' or 4'	6'
8'	3' or 4'	5'
7'	0 or 2'	4'
5'	0	2'

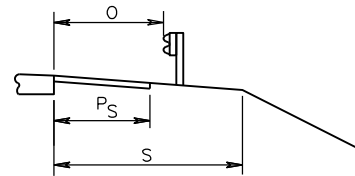
TABLE II

NORMAL GUARDRAIL LOCATION-THROUGH TRAFFIC LANES RIGHT OF TRAFFIC

TOTAL SHOULDER WIDTH (S) (PAVED & GRADED)	PAVED SHOULDER WIDTH (P <sub>S</sub> ) (SEE NOTE)	OFFSET FROM EDGE OF TRAVELED WAY TO FACE OF GUARDRAIL (O)
17'	12'	14'
15'	6' or 10'	12'
13'	8'	10'
11'	3', 4' or 6'	8'
9'	0, 3', or 4'	6'
8'	0 or 3'	5'
7'	0 or 2'	4'
5'	0	2'



GUARDRAIL LOCATION ON RECOVERABLE SLOPE



NOTE:  
 PAVED SHOULDER WIDTHS SHOWN ARE MINIMUM. THE PAVED SHOULDER MAY BE EXTENDED TO THE FACE OF THE RAIL THE PAVED WIDTH USED SHALL BE IN ACCORDANCE WITH THE ROADWAY CLASSIFICATION AS DEFINED IN THE ROAD DESIGN MANUAL.

SEE STANDARD MC-4 FOR PAVING UNDER GUARDRAIL.

NORMAL GUARDRAIL LOCATION

SPECIFICATION REFERENCE

221  
505

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

W-BEAM GUARDRAIL INSTALLATION CRITERIA

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

07/15

SHEET 6 OF 8

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