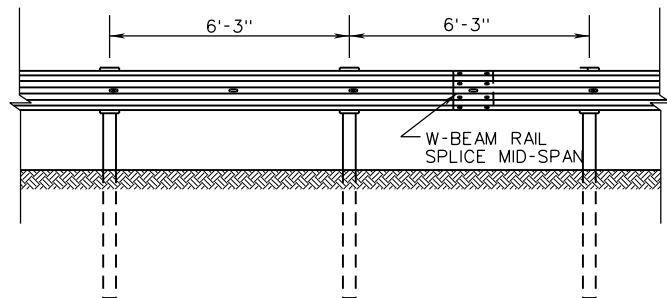


TRAFFIC DIRECTION FOR RAIL LAP AS SHOWN

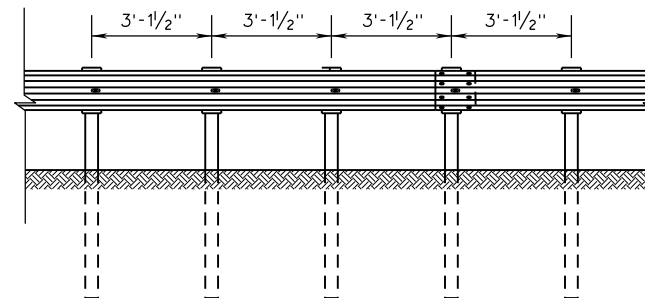
(SEE NOTE 7)



GR-MGS1

(6'-3" POST SPACING)

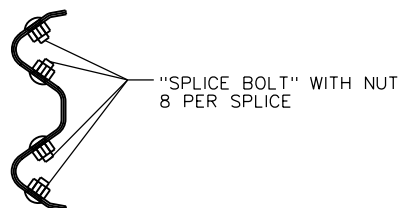
MIN. DISTANCE FROM FACE OF RAIL TO FIXED OBJECT = 60"



GR-MGS1A

(3'-1/2" POST SPACING)

MIN. DISTANCE FROM FACE OF RAIL TO FIXED OBJECT = 48"



SPLICE DETAIL

RAIL SPLICE SHALL BE PLACED MID-SPAN FOR STANDARD POST SPACING (6'-3")

DESIGN SPEED	FLARE RATES		
	INSIDE SHY LINE		BEYOND SHY LINE
	SHY LINE LS	FLARE RATE	FLARE RATE
70	9'	30:1	15:1 *
60	8'	26:1	14:1 *
50	6.5'	21:1	11:1 *
40	5'	16:1	8:1 *
30	4'	13:1	7:1 *

* SUGGESTED MAXIMUM FLARE RATE FOR SEMI-RIGID BARRIER SYSTEMS.

NOTES:

- GUARDRAIL LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND CAN BE ADJUSTED DURING CONSTRUCTION IF AND AS DIRECTED BY THE ENGINEER.
- FOR DETAILS OF POST AND BLOCKOUTS SEE SHEET NO. 506.05.
- FOR DETAILS OF RAIL ELEMENT, AND ASSOCIATED HARDWARE SEE SHEETS 506.01 AND 506.02.
- RAIL ELEMENTS WITH RADII LESS THAN OR EQUAL TO 150 FEET SHALL BE SHOP CURVED AND PAID FOR AS RADIAL GR-MGS1, OR 1A.
- ALL GR-MGS1 AND GR-MGS1A RAIL SHALL BE MAINTAINED AT A HEIGHT OF 30" MIN - 32" MAX AS MEASURED PER STANDARD GR-INS.
- ALL GUARDRAIL POSTS SHALL BE SET PLUMB. POST SHALL NOT BE SET WITH A VARIATION OF MORE THAN 1/8" PER FOOT FROM VERTICAL. W-BEAM, BLOCKOUTS, AND POSTS SHALL BE SET AND ALIGNED WITHOUT ALTERATION OR FORCE, AS PER SECTION 505 OF THE SPECIFICATIONS.
- ALL W-BEAM RAILS SHALL BE LAPPED IN THE DIRECTION OF VEHICULAR TRAVEL FOR THE FINISHED ROADWAY.
- ADJUSTING EXISTING GUARDRAIL TO MEET THE MGS1 STANDARD IS NOT PERMITTED.

DESCRIPTION	ITEM CODE
GUARDRAIL GR-MGS1	13280 LF
GUARDRAIL GR-MGS1A	13281 LF
GUARDRAIL GR-MGS1, 9' POST	13282 LF
GUARDRAIL RADIAL GR-MGS1	13283 LF
GUARDRAIL RADIAL GR-MGS1A	13284 LF
GUARDRAIL RADIAL GR-MGS1, 9' POST	13285 LF

SPECIFICATION REFERENCE
221
236
505

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

MIDWEST GUARDRAIL SYSTEM
(STANDARD AND REDUCED POST SPACING)

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT	
ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 2
NEW 02/17	506.04