

Guardrail Inspection Checklist

Inspector:		Phone No.:		Email:		
Route No.:		Route Name:			Date:	
Latitude/Longitude:		From Milepost/Milepoint/Station:		To Milepost/Milepoint/Station:		
District No. and County:		Type of Inspection: <div style="text-align: center;"> <input type="checkbox"/> Repair/Maintenance <input type="checkbox"/> New/Upgrade </div>				
Is guardrail warranted? Yes No		Direction: NB SB EB WB		Outside Median Other (Specify) _____		
Has site been located for public & private utilities? Yes No			Are overhead conflicts present? Yes No			
LONGITUDINAL GUARDRAIL	Slope in front of guardrail? 10:1 or flatter Other (Specify): _____		Does barrier need to be reset? Yes No		Remarks	
	Width of flat slope (10:1) behind the posts?		Does this meet state standards? Yes No	If no; what special design has been used?		
	Is barrier flared? No Yes	Is flare rate appropriate?(see figure 1.1) Yes No (Specify) _____		Remarks		
	Type of guardrail?(Check all that apply) W-Beam Thrie Beam Other (Specify) _____			Type of blocks?	Block size?	
	Length of posts?(If Known)		Type of post?(Check all that apply) Wood Steel Other (Specify) _____		Remarks	
	What is the post spacing?		Are there posts on the splices? No Yes		Remarks	
	Height of guardrail?	Are washers used on face of standard rail? No Yes		Remarks		
	Are rail connections lapped correctly? Yes No		All bolts are in place and nuts are tight? Yes No			
	Name of Terminal		Manufacturer of Terminal		Manufacturer Checklist used? Yes No N/A	
TERMINALS	Type of terminal? Tangent Flared Other		Appropriate (or Proper) grading? Yes No		Remarks	
	Remarks/Notes					
ANCHORAGE TO RIGID OBJECT	Structural connection adequate? Yes No N/A		List Deficiency(s)		Remarks (Identify anchorage type)	
	Post size/spacing correct? Yes Other; specify _____		Rail Nested? Yes No		Remarks	
	Appropriate snag prevention? Yes No N/A		Specify method used? Curb Rubrail Other (Specify) _____ Special Blockouts Flared Rigid Barrier			
	Remarks/Notes					

DAMAGED GUARDRAIL	Is there damaged longitudinal guardrail that requires repair?			Is there damaged end terminals that require repair?			Is there damaged anchorage to rigid objects that requires repair?			
	Yes	No	N/A	Yes	No	N/A	Yes	No	N/A	
	Type of damaged longitudinal guardrail?				Length of damaged guardrail?			Number of damaged posts/blocks?		
	W-Beam	Thrie Beam	Other; specify _____							
	Does end terminal require complete replacement?						Does anchorage to rigid object require complete replacement?			
Yes	No	N/A		Yes	No	N/A				
Remarks/Notes (Please list all required materials for repair on attached sheet)										

MODIFICATIONS/COMMENTS

Figure 1.1 - Suggested Flare Rates for Barrier Design (AASHTO Roadside Design Guide)

(Note: Some state guidelines may override this, please check with local authority to verify proper flare rate for application)

Design Speed		Flare Rate for Barrier Inside Shy Line	Flare Rate for Barrier at or Beyond Shy Line	
km/h	[mph]		A	B
110	[70]	30:1	20:1	15:1
100	[60]	26:1	18:1	14:1
90	[55]	24:1	16:1	12:1
80	[50]	21:1	14:1	11:1
70	[45]	18:1	12:1	10:1
60	[40]	16:1	10:1	8:1
50	[30]	13:1	8:1	7:1

Notes:

- A = Suggested maximum flare rate for rigid barrier system.
- B = Suggested maximum flare rate for semi-rigid barrier system.
- The MGS has been tested in accordance with NCHRP Report 350 TL-3 at 5:1 flare.
- Flatter flare rates for the MGS installations also are acceptable. The MGS should be installed using the flare rates shown or flatter for semi-rigid barriers beyond the shy line when installed in rock formations.

