

BARRIER SYSTEM	VDOT STANDARD	BARRIER HEIGHT	MINIMUM OFFSET FROM HAZARD (MAXIMUM DYNAMIC DEFLECTION) (A)	POST SPACING	DIVIDED ROADWAY OR ONE-WAY TRAFFIC		UNDIVIDED ROADWAY OR TWO-WAY TRAFFIC	
					RUN-ON TERMINAL END TREATMENT	RUN-OFF TERMINAL END TREATMENT (B)	RUN-ON TERMINAL END TREATMENT	RUN-OFF TERMINAL END TREATMENT
<b>FLEXIBLE</b> (WEAK POST OR CABLE)	GR-3	27" to 28"	11'	16'-0"	GR-3	GR-3	GR-3	GR-3
	GR-8	32 1/4" (J)	7'	12'-6"	GR-6,7,9 (F)	GR-8, TY. II	GR-6,7,9 (C) (F)	GR-6,7,9 (C) (F)
	GR-8A	32 1/4" (J)	5'	6'-3"	GR-6,7,9 (F)	GR-8, TY. II	GR-6,7,9 (C) (F)	GR-6,7,9 (C) (F)
	GR-8B	32 1/4" (J)	4'	3'-1 1/2"	GR-6,7,9 (F)	GR-8, TY. II	GR-6,7,9 (C) (F)	GR-6,7,9 (C) (F)
	GR-8C	32 1/4" (J)	4'-6"	4'-2"	GR-6,7,9 (F)	GR-8, TY. II	GR-6,7,9 (C) (F)	GR-6,7,9 (C) (F)
	MB-5 (D)	32 1/4" (J)	7'	12'-6"	GR-9 (I)	GR-9 (I)	N/A	N/A
	MB-5 (D)	32 1/4" (J)	5'	6'-3"	GR-9 (I)	GR-9 (I)	N/A	N/A
<b>SEMI-RIGID</b> (STRONG POST)	GR-2	27 3/4" (J) (K)	3'	6'-3"	GR-6,7,9 (F)	GR-11 (J)	GR-6,7,9 (F)	GR-6,7,9 (F)
	GR-2A	27 3/4" (J) (K)	2'	3'-1 1/2"	GR-6,7,9 (F)	GR-11 (J)	GR-6,7,9 (F)	GR-6,7,9 (F)
	MB-3 (E)	27 3/4" (J) (K)	3'	6'-3"	GR-9 (I)	GR-9 (I)	N/A	N/A
<b>RIGID</b> (CONCRETE BARRIER)	MB-7D, 7E 7F, 12A, 12B, & 12C (H)	32"	0'	N/A	IMPACT ATTENUATOR (G)	N/A	IMPACT ATTENUATOR (G)	IMPACT ATTENUATOR (G)

**TABLE A-3-2**

**TYPICAL BARRIER/GUARDRAIL SELECTION AND PLACEMENT\***

**NOTES:**

- (A) The deflection zone of all GR-2, 3 & 8 systems will be measured from the back of the post and must be totally clear of any hazards in order to assure that the system will perform as tested. MB-3 & MB-5 will be measured from the face of rail closest to hazard.
- (B) The noted terminal and treatments apply when the terminal is installed outside the clear zone of opposing traffic. If run-off terminal is installed within the clear zone of opposing traffic, see note (C).
- (C) A transition from weak post system to strong post system (terminal) must be provided in accordance with St'd. GR-INS drawings to protect opposing traffic from impacting the opposite end of the terminal when it falls within the clear zone.
- (D) For use in wide, flat medians (> 30' width).
- (E) For use in narrow medians (approximately 10-30 feet width).
- (F) If more than a 200' of additional GR-2 is necessary to bury the end of the rail in the backslope (St'd. GR-6, terminal), use a St'd. GR-7 or GR-9 terminal. For St'd. GR-6 installations, St'd. GR-2 must be installed from the terminal to the beginning of the flare before introducing St'd. GR-8.
- (G) Concrete "turned down" terminals may be used for locations outside clear zone.
- (H) For use in medians 0-30 feet wide.
- (I) CAT-350 or Brakemaster-350 only. MB-5, 5A and 5B must be transitioned to MB-3 prior to terminal.
- (J) Vertical Height Tolerance for new installations, +/- 3/4".
- (K) Absolute Minimum Vertical Height for existing GR-2 after overlay is 26". (Maintenance projects only).

\* Rev. 3/11