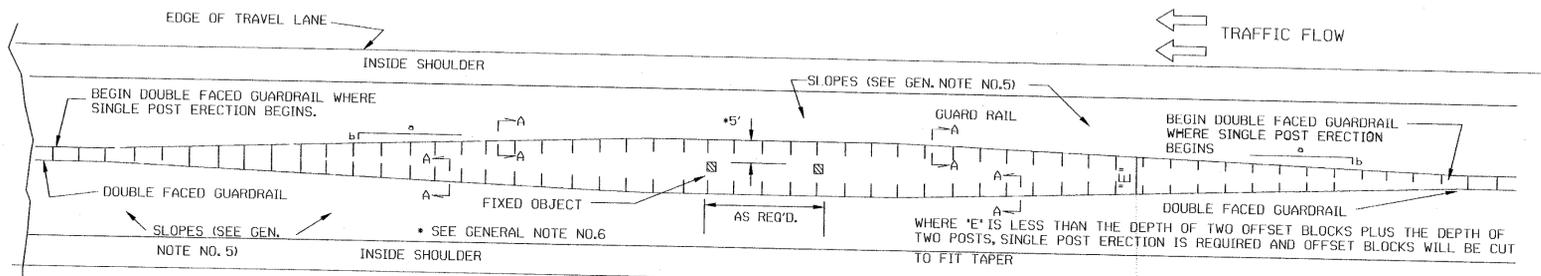
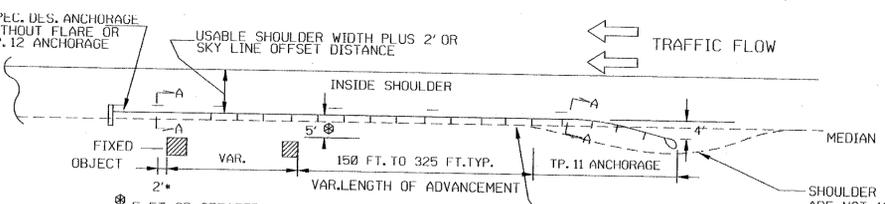


# GUARDRAIL LOCATIONS IN MEDIANS



**DESIGN "A" - CONTINUOUS GUARDRAIL AT FIXED OBJECT**

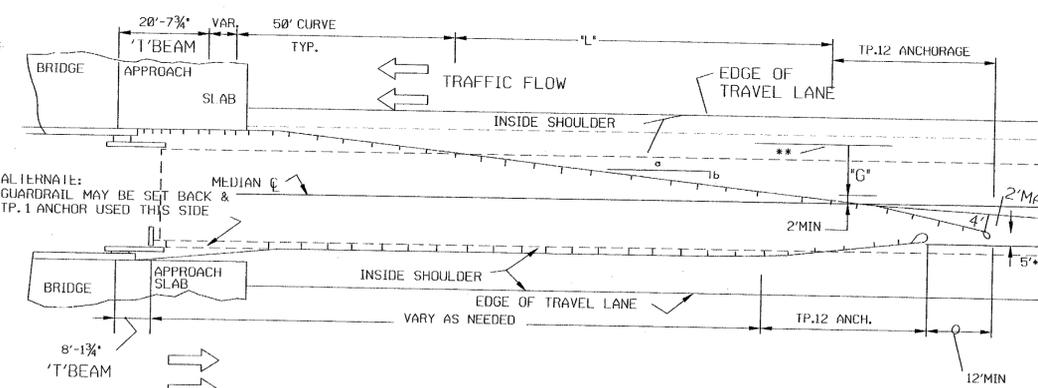
NOTE: DESIGN "A" IS OF LIMITED APPLICATION. SEE SEPARATE STANDARDS OR DETAILS FOR DOUBLE FACED GUARDRAIL ON INSIDE SHOULDERS OF MEDIANS OR FOR CONCRETE MEDIAN BARRIERS AT FIXED OBJECTS.



**DESIGN "C" - GUARDRAIL ON INSIDE SHOULDERS AT FIXED OBJECTS**

NOTE: GUARDRAIL PROTECTION SHALL BE REQUIRED ON BOTH SIDES OF OBJECT FOR DESIGN "C", UNLESS OTHERWISE SPECIFIED.

NOTE: SEE SEPARATE STANDARDS FOR GUARDRAIL CONNECTIONS AND POST SPACINGS AT BRIDGE ENDS



**DESIGN "D" - GUARDRAIL AT BRIDGE ENDS IN/NARROW MEDIAN**

DESIGN "D" IS LIMITED FOR USE WHERE THE GRASSED MEDIAN AT BRIDGE APPROACHES IS ALMOST FLUSH (SLOPES NOTE STEEPER THAN 20:1) AND MEDIAN IS LESS THAN 38 FT. IN WIDTH FOR OTHER CONDITIONS, SEE STD. 4051 OR CONSTRUCTION DETAILS.

**SPECIAL NOTE:** FOR CONTINUOUS DOUBLE FACED GUARDRAIL ON THE INSIDE SHOULDER OF MEDIAN, SEE SEPARATE DETAILS.

ANY PORTION OF GUARDRAIL WITH THE BACK SIDE OF POST EXPOSED INSIDE THE CLEAR ZONE OF OPPOSING TRAFFIC SHALL BE DOUBLE FACED, EXCEPT FOR BREAK-AWAY POSTS.

FLARE RATE: DESIGN "A", "B", & "D"	
DESIGN SPEED (mph)	MAX. FLARE RATE a/b
70	15
60	13
50	11
40	9
30	7

\*\* PROJECTION FROM FACE OF GUARDRAIL AT BRIDGE END

"G" = DISTANCE FROM \*\* TO WITHIN 2' OF MEDIAN C

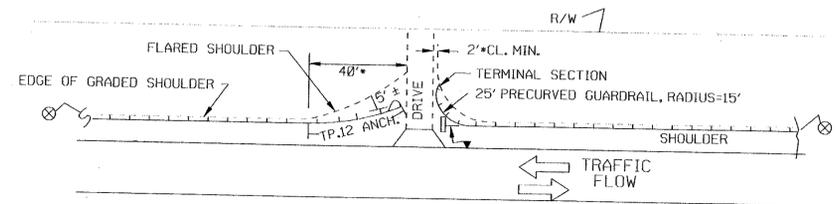
MIN "L" = "G"(a/b)-25'

FOR MINIMUM FLARE a/b SEE CHART AT TOP.

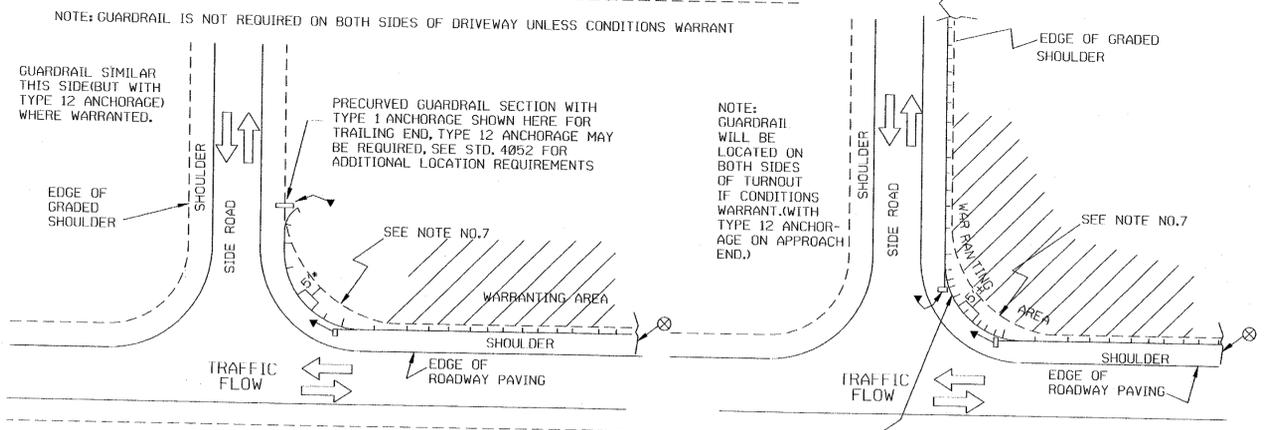
⊗ FOR WIDER MEDIANS, SEE STD. 4051

# GUARDRAIL LOCATIONS AT TURNOUTS

NO SCALE



NOTE: PRECURVED GUARDRAIL WILL BE REQUIRED WITH RADII LESS THAN 150'.



NOTE: GUARDRAIL IS NOT REQUIRED ON BOTH SIDES OF DRIVEWAY UNLESS CONDITIONS WARRANT

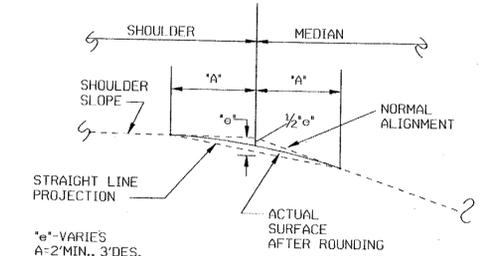
GUARDRAIL SIMILAR THIS SIDE (BUT WITH TYPE 12 ANCHORAGE) WHERE WARRANTED.

NOTE: GUARDRAIL WILL BE LOCATED ON BOTH SIDES OF TURNOUT IF CONDITIONS WARRANT (WITH TYPE 12 ANCHORAGE ON APPROACH END.)

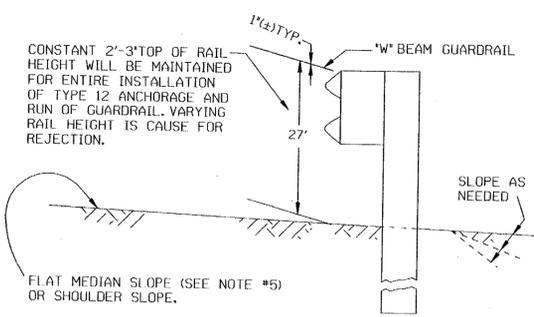
PRECURVED GUARDRAIL SECTIONS IN FRONT OF WARRANTING AREA SHALL REQUIRE ADDITIONAL POST. SPACING SHALL BE 3'-1 1/2" O.C.

▼ TYPE 1 ANCHORAGE

⊗ EXTENDED GUARDRAIL TO HAVE ANCHORAGE OR ATTACHMENT PER APPLICABLE STANDARD DETAILS.



**DETAIL OF SHOULDER ROUNDING**  
(TYPICAL FOR EXISTING GUARDRAIL INSTALLATIONS ON 6:1 OR ON 8:1 SLOPE)



**SECTION A-A**  
(SHOWN FOR "W" BEAM GUARDRAIL)

### GENERAL NOTES:

- SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
- FOR DETAILS OF GUARDRAIL HARDWARE, POST, AND OFFSET BLOCKS, SEE STANDARDS 4010 AND 4011 A.
- FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE SEPARATE STANDARDS, OR CONSTRUCTION DETAILS AS APPLICABLE.
- FOR DETAILS OF DOUBLE FACED GUARDRAIL ATTACHED TO OR TERMINATED AT CONCRETE MEDIAN BARRIER, SEE STANDARD 4940.
- NEGATIVE SLOPES IN FRONT OF GUARDRAIL AND ALL ANCHORAGES SHALL BE 10:1, OR FLATTER, FOR ALL NEW INSTALLATIONS.
- OFFSET BETWEEN FACE OF GUARDRAIL AND FACE OF FIXED OBJECT SHALL BE 5 FT. DESIRABLE, 4'-3" MINIMUM. WHERE AN OFFSET OF AT LEAST 4'-3" CANNOT BE OBTAINED, DOUBLE POST SPACINGS (3'-1 1/2" O.C.) IN FRONT OF OBJECT PLUS A MINIMUM OF 7 SUCH SPACINGS IN ADVANCE OF OBJECT IS REQUIRED WITH A 3 FT. MINIMUM OFFSET.
- WHERE PRECURVED GUARDRAIL IS INSTALLED AROUND RADII AT INTERSECTING SIDE ROADS, THE SHOULDER AREA BACK OF THE GUARDRAIL IS TO BE WIDENED AS SHOWN ABOVE WITH THE OFFSET BETWEEN THE TRAVEL LANE AND GUARDRAIL REMAINING APPROXIMATELY CONSTANT.

REV.	NO.	DATE	DESCRIPTION
3-25-03	REV. ANCH. AT TURNOUTS		
6-30-98	REDRAWN		
11-17-97	CHG. TP. 11 TO TP. 12		
1-17-95	CHG. TP. 9 TO TP. 11		
10-4-93	DES. B. TO STD. 4055		
2-17-92	REV. NOTE 5		
6-1-90	REV. DES. 'B' & 'D'		
5-22-89	REV. NOTES 2, 3, & 6		
10-9-87	REV. DES. B & C RECDT		

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

STANDARD  
GUARDRAIL LOCATIONS IN MEDIANS  
GUARDRAIL LOCATIONS AT TURNOUTS

SCALE: AS SHOWN

REV. & REDR.: DECEMBER, 1984

DES. R.M.L. (SUBMITTED)  
DRW. R.M.L. STATE ROAD & AIRPORT DESIGN ENGR.  
TRA. G.M.E. (APPROVED)  
CHK. R.K.C. STATE HIGHWAY ENGINEER

NUMBER  
4022A