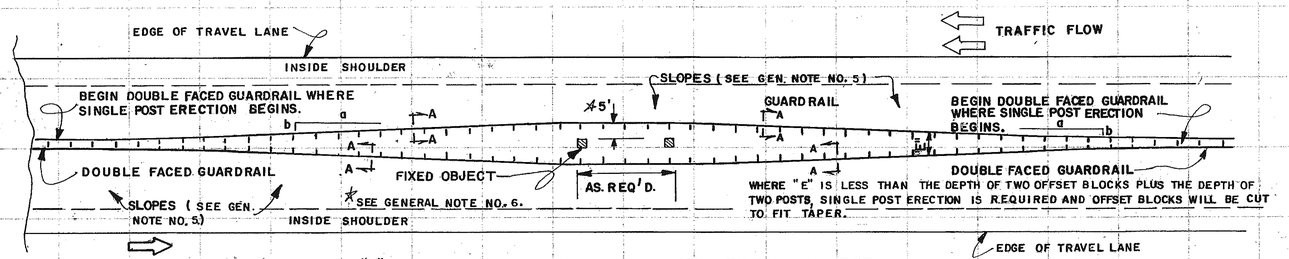
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	STP-M002-00(113)	70	80

GUARDRAIL LOCATIONS IN MEDIANS

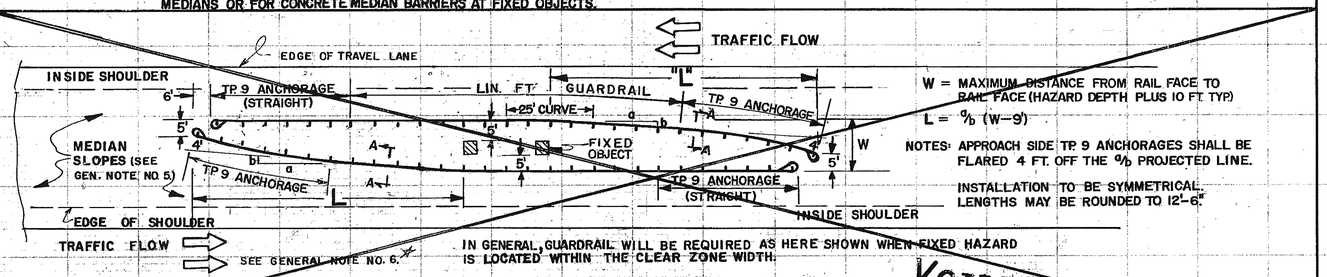
20 10 0 20 FT.
SCALE



WHERE "E" IS LESS THAN THE DEPTH OF TWO OFFSET BLOCKS PLUS THE DEPTH OF TWO POSTS, SINGLE POST ERECTION IS REQUIRED AND OFFSET BLOCKS WILL BE CUT TO FIT TAPER.

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.



W = MAXIMUM DISTANCE FROM RAIL FACE TO RAIL FACE (HAZARD DEPTH PLUS 10 FT. TYP.)

L = 9/b (W–9')

NOTES: APPROACH SIDE TP. 9 ANCHORAGES SHALL BE FLARED 4 FT. OFF THE 9/b PROJECTED LINE.

INSTALLATION TO BE SYMMETRICAL. LENGTHS MAY BE ROUNDED TO 12'-6".

IN GENERAL, GUARDRAIL WILL BE REQUIRED AS HERE SHOWN WHEN FIXED HAZARD IS LOCATED WITHIN THE CLEAR ZONE WIDTH.

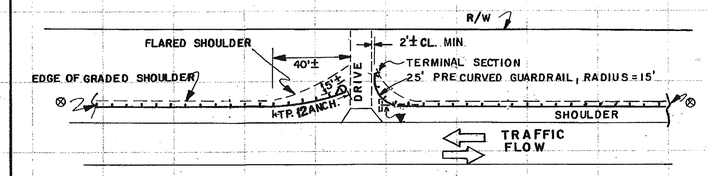
DESIGN "B" – NON-CONTINUOUS GUARDRAIL ON MEDIAN SLOPES AT FIXED OBJECTS

VOID (SEE STD. 4055)

NOTES: DO NOT USE DESIGN "B" WHERE MEDIAN SLOPES ARE TOO STEEP. (SEE GEN. NOTE No. 5)
DO NOT USE DESIGN "B" IF FLATTENING EXISTING SLOPES WOULD IMPAIR DRAINAGE.

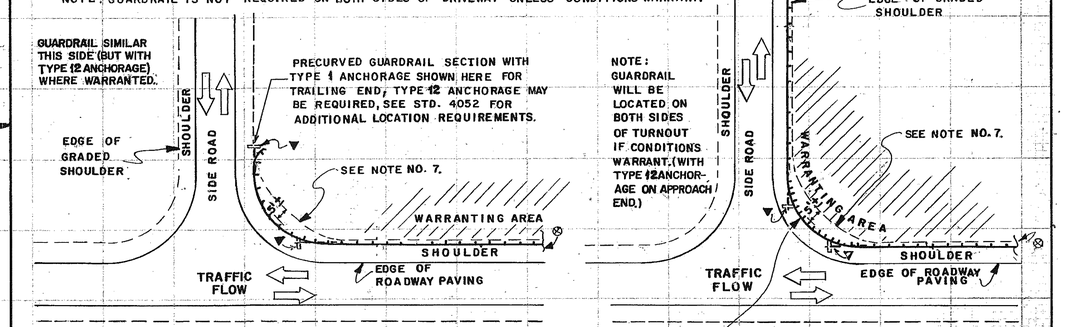
GUARDRAIL LOCATIONS AT TURNOUTS

NO SCALE



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

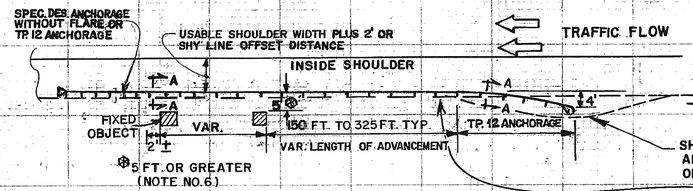
NOTE: GUARDRAIL IS NOT REQUIRED ON BOTH SIDES OF DRIVEWAY UNLESS CONDITIONS WARRANT.



PRECURVED GUARDRAIL SECTIONS IN FRONT OF WARRANTING AREA SHALL REQUIRE ADDITIONAL POST. SPACING SHALL BE 3'-1½" O.C.

▼-TYPE 12 ANCHORAGE

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



SHOULDER FLARE IS REQUIRED IF SLOPES ARE NOT 10:1 OR FLATTER. (SEE DETAIL "B" ON STD. 4051 OR 4052).

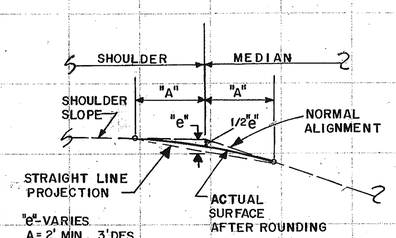
ANY PORTION OF GUARDRAIL WITH THE BACK SIDE OF POST EXPOSED INSIDE THE CLEAR ZONE OF OPPOSING TRAFFIC SHALL BE DOUBLE FACED, EXCEPT FOR BREAK-AWAY POSTS.

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.

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

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



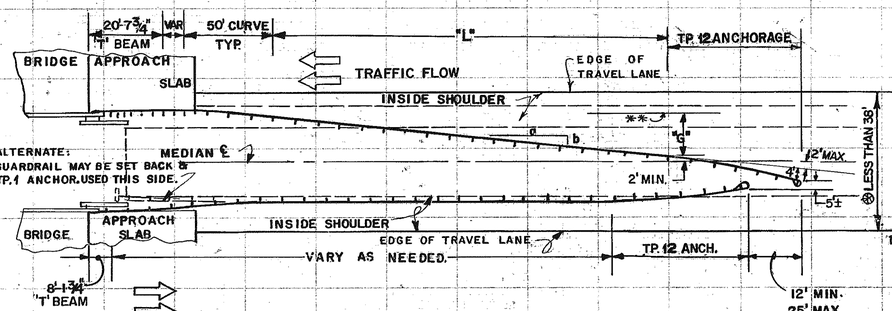
DETAIL OF SHOULDER ROUNDING

(TYPICAL FOR EXISTING GUARDRAIL INSTALLATIONS ON 6:1 OR ON 8:1 SLOPE)

GENERAL NOTES:

1. SPECIFICATIONS: GEORGIA STANDARD, CURRENT EDITION, AND SUPPLEMENTS THERETO.
2. FOR DETAILS OF GUARDRAIL HARDWARE, POST, AND OFFSET BLOCKS, SEE STANDARDS 4010 AND 4011 A.
3. FOR DETAILS OF GUARDRAIL ANCHORAGES, SEE SEPARATE STANDARDS OR CONSTRUCTION DETAILS AS APPLICABLE.
4. FOR DETAILS OF DOUBLE FACED GUARDRAIL ATTACHED TO OR TERMINATED AT CONCRETE MEDIAN BARRIER, SEE STANDARD 4940.
5. NEGATIVE SLOPES IN FRONT OF GUARDRAIL AND ALL ANCHORAGES SHALL BE 10:1, OR FLATTER, FOR ALL NEW INSTALLATIONS.
6. 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'-1½" 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.
7. 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.

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



** PROJECTION FROM FACE OF GUARDRAIL AT BRIDGE END

"G" = DISTANCE FROM ** TO WITHIN 2' OF MEDIAN ℄.

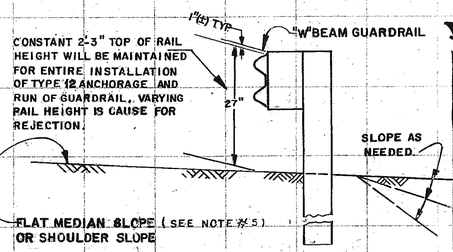
MIN "L" = "G"(9/b) – 25'

FOR MINIMUM FLARE 9/b SEE CHART AT TOP.

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 NOT STEEPER THAN 20:1) AND MEDIAN IS LESS THAN 38 FT. IN WIDTH. FOR OTHER CONDITIONS, SEE STD. 4051 OR CONSTRUCTION DETAILS.

⊗ FOR WIDER MEDIANS, SEE STD. 4051.



SECTION A-A

(SHOWN FOR "W" BEAM GUARDRAIL)

R.M.U.	CHG. TP. 11 TO TP. 12	11-17-97
R.M.U.	CHG. TP. 9 TO TP. 11	1-17-95
R.M.U.	DES. B TO STD. 4055	10-4-93
R.M.U.	REV. NOTE 5	12-17-92
R.M.U.	REV. DES. "B" & "D"	6-11-90
R.M.U.	REV. NOTES 2, 3, & 5	5-22-89
R.M.U.	REV. DES. B & C REQMT.	10-9-87

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.U. (SUBMITTED) Floyd E. Hardy
DRW. R.M.U. STATE ROAD & AIRPORT DESIGN ENGR.
TRA. GME
CHK. R.K.C. (APPROVED) Hal Reagan
STATE HIGHWAY ENGINEER

NUMBER 4022A

FORM EF00003