STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	0012722		

TAN θ = 1'-08'-45"
$\Delta = A - \theta$
$a = f + 24' + 28' + e$
$b = f + W$
$c = 12'$
$d = \frac{a}{\text{Tan. } A}$
$e = t \text{ Sin. } \theta$
$f = \frac{1}{2}$ MEDIAN WIDTH
$g = t \text{ Cos. } \theta$
$t = R \text{ Tan } \frac{\Delta}{2}$
W = WIDTH OF TRAVEL LANES

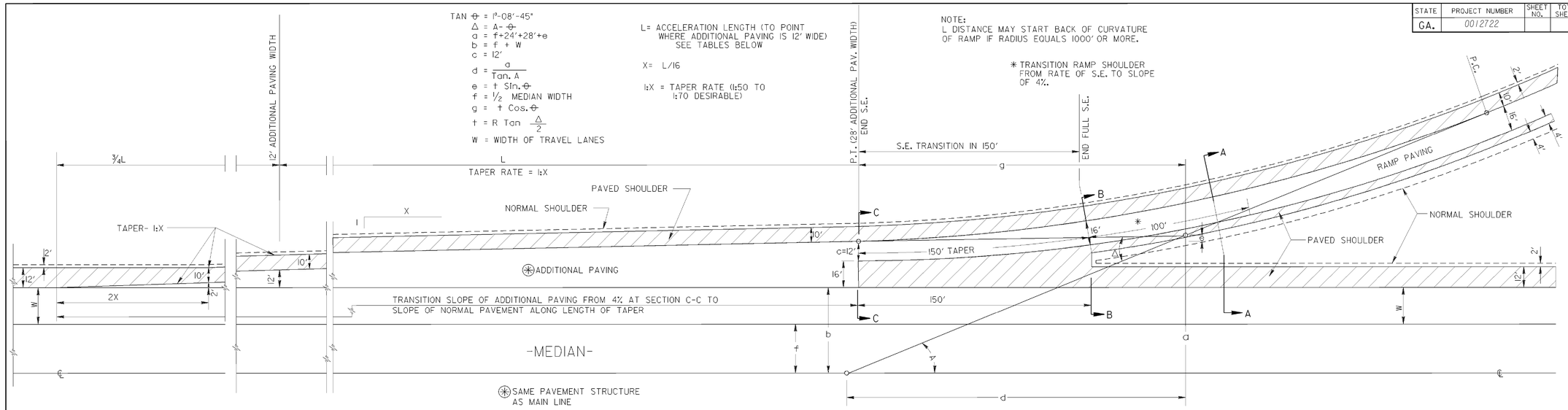
L= ACCELERATION LENGTH (TO POINT WHERE ADDITIONAL PAVING IS 12' WIDE) SEE TABLES BELOW

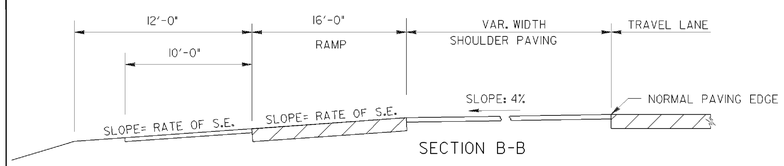
X= L/16

1:X = TAPER RATE (1:50 TO 1:70 DESIRABLE)

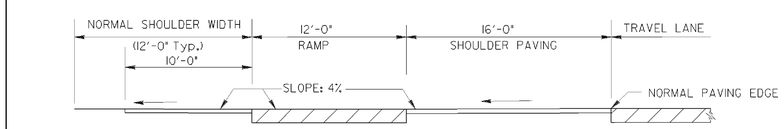
NOTE:
L DISTANCE MAY START BACK OF CURVATURE OF RAMP IF RADIUS EQUALS 1000' OR MORE.

* TRANSITION RAMP SHOULDER FROM RATE OF S.E. TO SLOPE OF 4%.

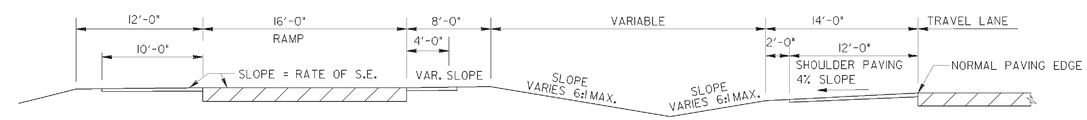




SECTION B-B



SECTION C-C



SECTION A-A

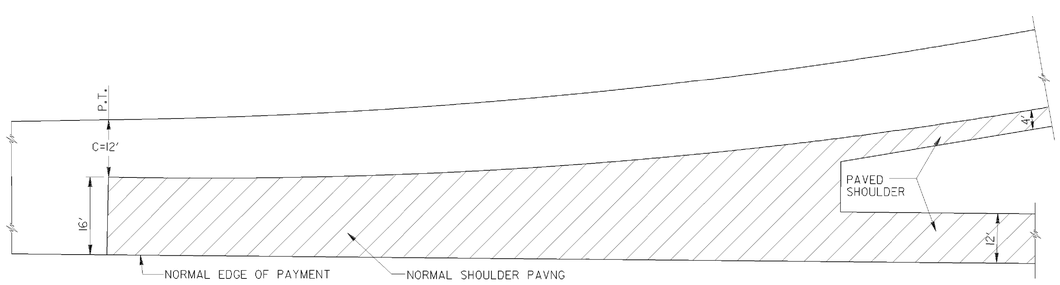
MAINLINE DESIGN SPEED (M.P.H.)	MIN. ACCEL LENGTH, L(FT.) FOR RAMP CURVE DESIGN (SPEED-MPH)				
	0	20	30	40	50
40	380	250	140	-	-
50	760	630	500	160	-
60	1170	1070	910	590	170
70	1590	1500	1330	1010	580

(FOR ENTRANCE TERMINAL GRADES, 2% OR LESS)

NOTE:
"L" VALUES LESS THAN 800' SHOULD BE INCREASED TO 800 FEET TO PROVIDE A TAPER OF 1:50.

	MAINLINE DESIGN SPEED (MPH)	ADJUSTMENT FACTORS FOR MINIMUM ACCELERATION LENGTHS (L)				
		RAMP CURVE DESIGN IN MPH				
		20	30	40	50	ALL SPEEDS
3% TO 4%	40	1.3	1.3	—	—	0.7
	50	1.3	1.4	1.4	—	0.65
	60	1.4	1.5	1.5	1.6	0.6
	70	1.5	1.6	1.7	1.8	0.6
5% TO 6%	40	1.5	1.5	—	—	0.6
	50	1.5	1.7	1.9	—	0.55
	60	1.7	1.9	2.2	2.5	0.5
	70	2.0	2.2	2.6	3.0	0.5
		UPGRADE				DOWNGRADE

(FOR ENTRANCE TERMINAL GRADES, OVER 2%)



DRAWING No. 40-0010

DATE	REVISION	BY

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

CONSTRUCTION DETAIL

DETAIL OF ENTRANCE RAMPS FOR INTERCHANGES

NO SCALE — REDRAWN APRIL 2011

NUMBER R-3

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