STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.		279	311

NHS-M002-00(434)

$\tan\theta = 1°08'45''$

$\Delta = A - \theta$

$a = f + 24 + 28 + e$

$b = f + W$

$C = 12'$

$d = \frac{a}{\tan A}$

$e = t \sin\theta$

$f = \frac{1}{2}$ Median Width

$g = t \cos\theta$

$t = R \tan\frac{\Delta}{2}$

W = Width of Travel Lanes

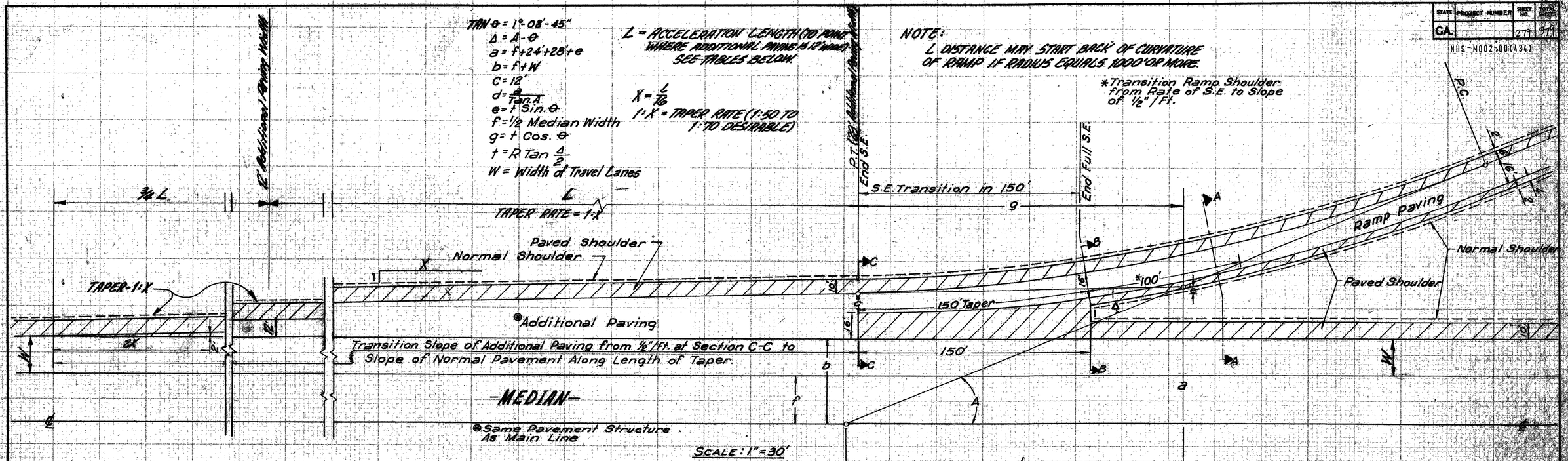
L = Acceleration Length (to) Road (Where additional lanes is 12' wide) See Tables Below.

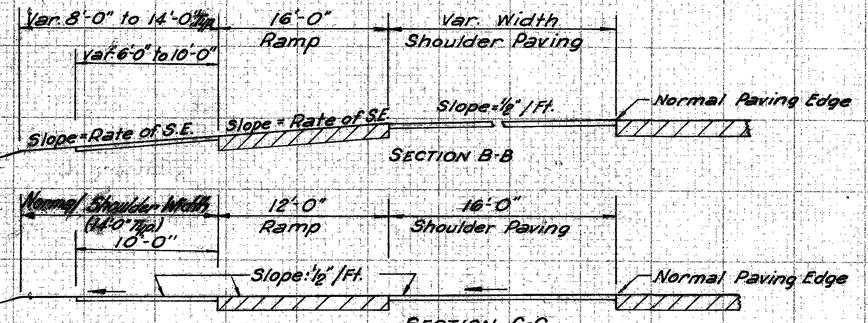
$X = \frac{L}{70}$

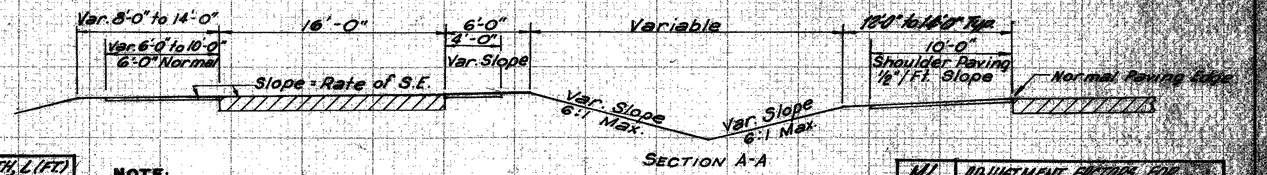
$1{:}X$ = Taper Rate (1:50 to 1:70 Desirable)

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 ½"/Ft.







M.P.H. DESIGN SPEED (MPH)	MIN. RECD. LENGTH L (FT.) FOR RAMP CURVE DESIGN (SPEED-MPH)				
	0	20	30	40	50
40	390	250	140	—	—
50	760	630	500	160	—
60	1170	1070	940	590	170
70	1690	1500	1390	1010	580

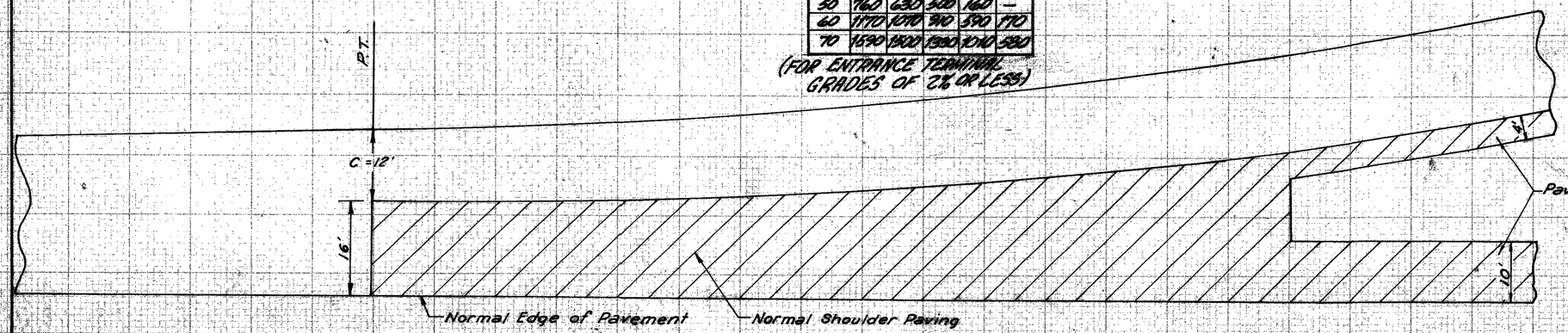
(FOR ENTRANCE TERMINAL GRADES OF 2% OR LESS)

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

M.P.H. DESIGN SPEED (MPH)	ADJUSTMENT FACTORS FOR MIN. RECD. LENGTHS (L) FOR RAMP CURVE DESIGN (SPEED-MPH)				
	20	30	40	50	% GRADE
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
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

% GRADE — MPH DESIGN

(FOR ENTRANCE TERMINAL GRADES OVER 2%)



DETAIL OF ENTRANCE RAMPS FOR INTERCHANGES

8-5-94
3-16-73

Drawing No. 66-1363(5) Rev.