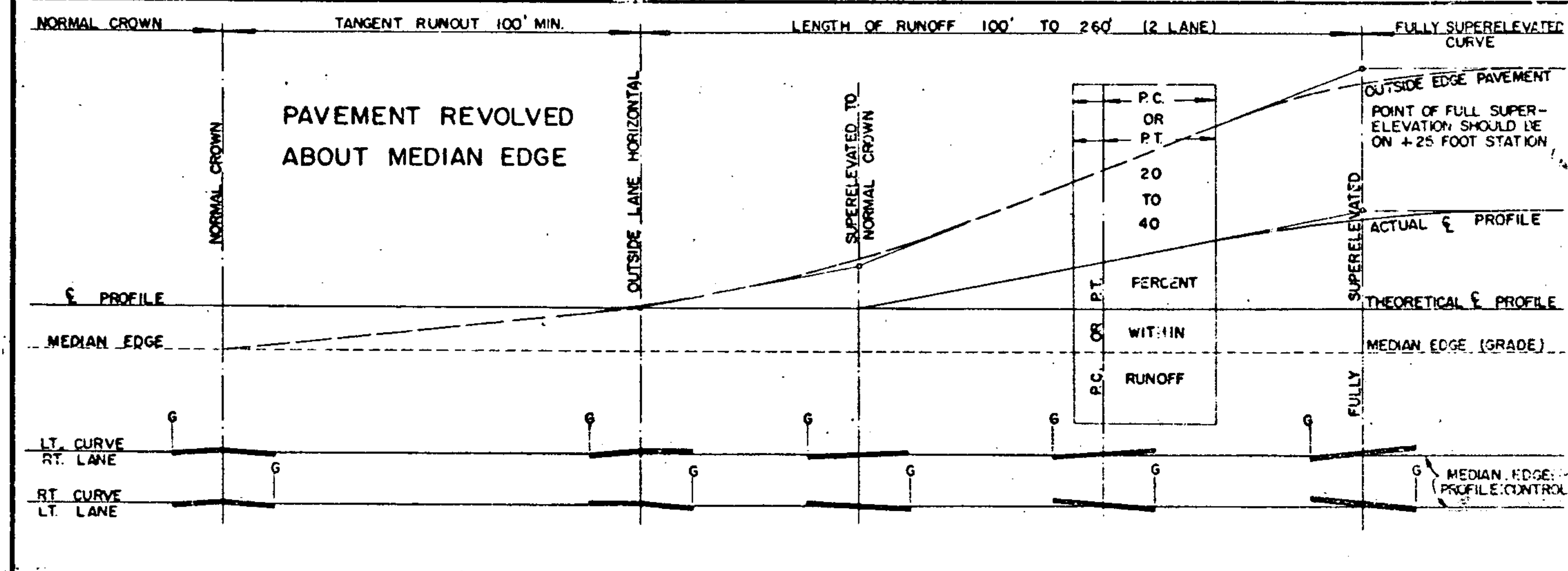
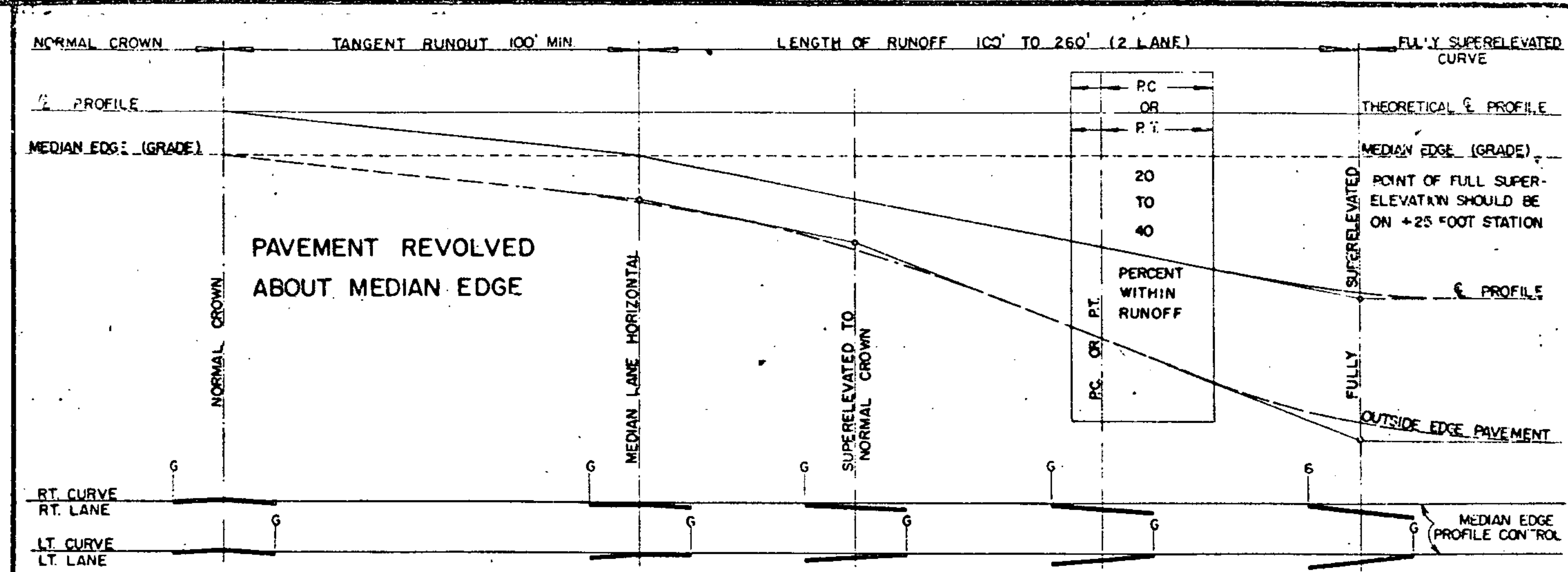
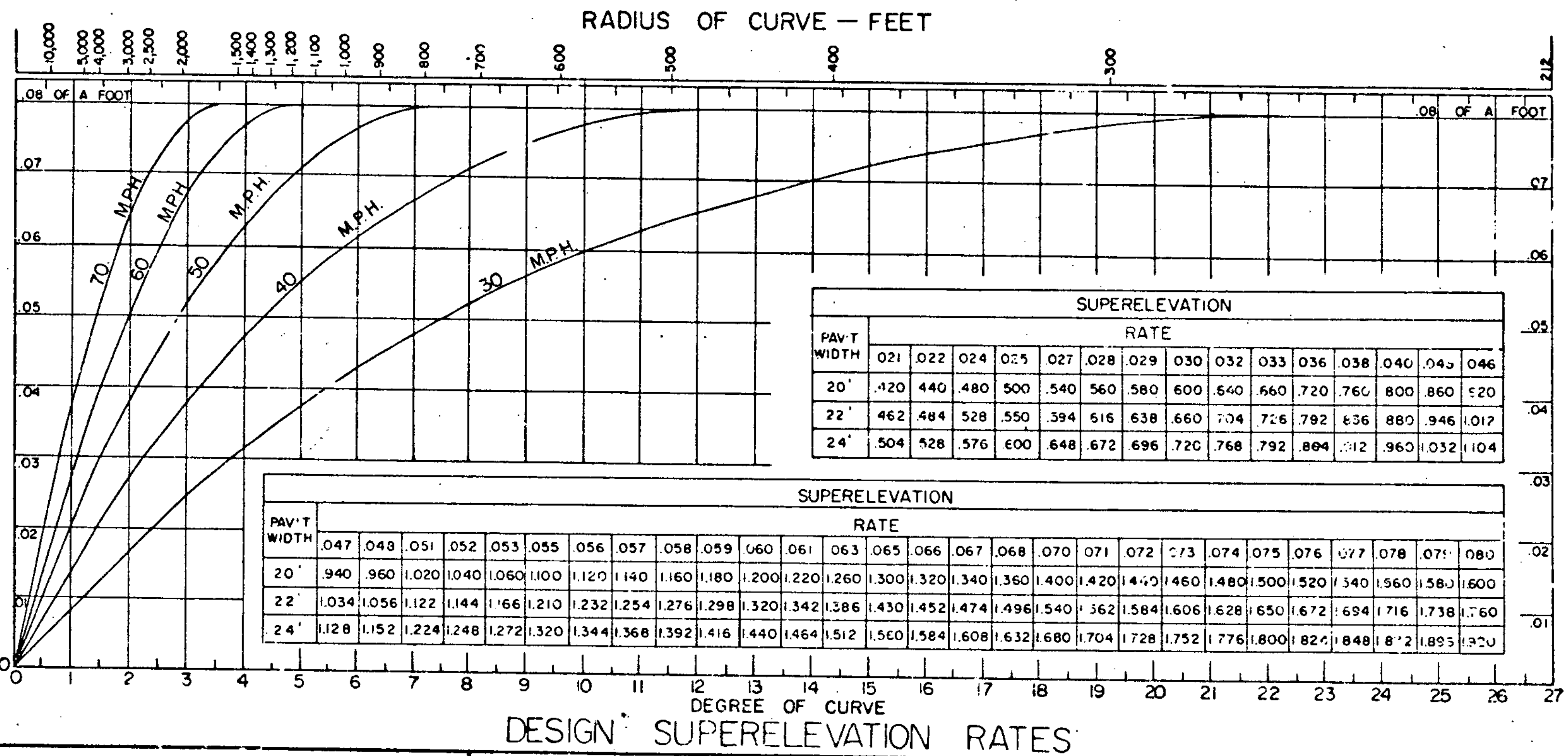


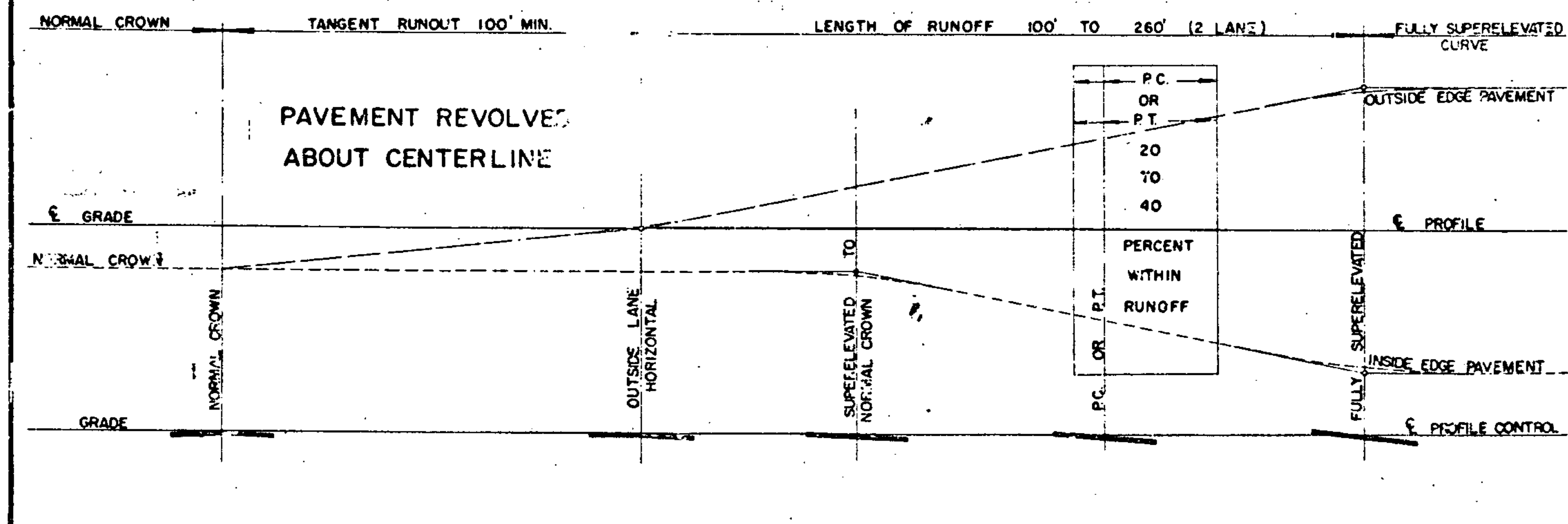
DEGREE OF CURVE	RADIUS	V = 30 M.P.H.		V = 40 M.P.H.		V = 50 M.P.H.		V = 60 M.P.H.		V = 65 M.P.H.		V = 70 M.P.H.		V = 75 M.P.H.		V = 80 M.P.H.									
		e	L - FEET	e	L - FEET	e	L - FEET	e	L - FEET	e	L - FEET	e	L - FEET	e	L - FEET	e	L - FEET								
0° 15'	22918'	NC	0	0	NC	0	0	NC	0	0	NC	0	0	NC	0	0	RC	240	240						
0° 30'	11459'	NC	0	0	NC	0	0	RC	175	175	RC	190	190	RC	200	200	.022	220	220	.024	240	240			
0° 45'	7639'	NC	0	0	NC	0	0	RC	150	150	.022	175	175	.025	190	190	.029	200	200	.032	220	220	.036	240	240
1° 00'	5730'	NC	0	0	RC	125	125	.021	125	125	.030	150	150	.041	175	175	.046	190	200	.053	200	240	.060	220	240
1° 30'	3820'	RC	100	100	.027	125	125	.038	150	150	.051	175	175	.057	190	250	.065	200	290	.072	230	340	.076	250	380
2° 00'	2865'	RC	100	100	.033	125	125	.046	150	170	.060	175	240	.066	190	290	.073	220	330	.078	250	370	.080	260	400
2° 30'	2292'	.021	100	100	.038	125	125	.053	150	190	.067	180	270	.073	210	320	.078	230	350	.080	250	380	.080	260	400
3° 00'	1910'	.025	100	100	.043	125	140	.058	150	210	.073	200	300	.077	220	330	.080	240	360	.080	250	380	D MAX = 2.5°		
3° 30'	1637'	.028	100	100	.047	125	150	.063	150	230	.077	210	310	.079	230	340	.080	240	360	D MAX = 3.0°					
4° 00'	1432'	.032	100	100	.055	125	170	.071	170	260	.080	220	320	D MAX = 3.5°											
5° 00'	1146'	.038	100	100	.061	130	190	.077	180	280	D MAX = 4.5°														
6° 00'	955'	.043	100	120	.067	140	210	.079	190	280	D MAX = 5.0°														
7° 00'	819'	.048	100	130	.071	150	220	D MAX = 7.5°																	
8° 00'	716'	.052	100	140	.075	160	240																		
9° 00'	637'	.056	100	150																					
10° 00'	573'	.059	110	160																					
11° 00'	521'	.063	110	170																					
12° 00'	477'	.066	120	180																					
13° 00'	441'	.068	120	180																					
14° 00'	409'	.070	130	190	D MAX = 12.5°																				
16° 00'	358'	.074	130	200																					
18° 00'	318'	.077	140	210																					
20° 00'	286'	.079	140	210																					
22° 00'	260'	.080	140	220																					

V - ASSUMED DESIGN SPEED
e - RATE OF SUPERELEVATION
L - MINIMUM LENGTH OF RUNOFF OF SPIRAL CURVE
NC - NORMAL CROWN SECTION
RC - REMOVE ADVERSE CROWN, SUPERELEVATE AT NORMAL CROWN SLOPE
SPIRALS DESIRABLE BUT NOT AS ESSENTIAL ABOVE HEAVY LINE
LENGTHS ROUNDED IN MULTIPLES OF 25 OR 50 FEET PERMIT SIMPLER CALCULATIONS
LENGTH OF RUNOFF FOR A 4 LANE HIGHWAY IS BASED ON A ROADWAY WITH 16 FEET OR LESS MEDIAN

BANKING FOR CURVES NOT LISTED IN TABLES MAY BE DETERMINED FROM GRAPH.
DESIGN VALUES FOR RATE OF SUPERELEVATION AND MINIMUM LENGTH OF RUNOFF



TANGENT RUNOUT: CONSISTS OF MAKING THE LANE OR LANES ON THE OUTSIDE OF THE CURVE, HORIZONTAL WITH THE CENTERLINE, USING 100' MIN. WHERE THE NORMAL CROWN IS APPROXIMATELY 1/4 INCH PER FOOT.
LENGTH OF RUNOFF: FROM 60 TO 80 PERCENT OF THE LENGTH OF RUNOFF PREFERABLY SHOULD BE LOCATED ON THE TANGENT AT CURVES.
CURVES WITH SPIRALS: THE LENGTH OF THE SPIRAL AND THE LENGTH OF RUNOFF ARE THE SAME IN DISTANCE.
BREAKS IN PROFILES FOR PAVEMENT EDGES SHOULD BE ROUNDED IN FINAL DESIGN BY INSERTION OF VERTICAL CURVES. THE MINIMUM VERTICAL CURVE LENGTH IN FEET CAN BE USED NUMERICALLY EQUAL TO THE DESIGN SPEED IN M.P.H.



REVISIONS AND CORRECTIONS

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BANKING TABLES

VERMONT
DEPARTMENT
OF HIGHWAYS
STANDARD

B-1