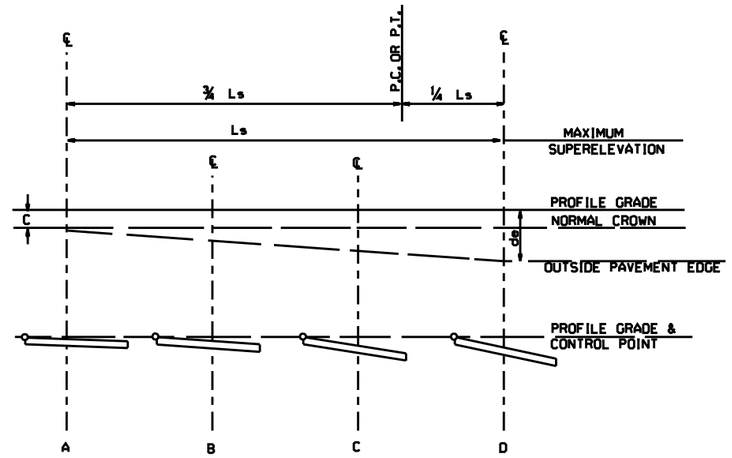
SUPERELEVATION TABLE FOR ONE - WAY TRAFFIC

DEGREE OF CURVE	30 MPH			40 MPH			50 MPH			55 MPH			60 MPH			65 MPH			70 MPH		
	e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)		e	Ls (FT)	
		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE		MINIMUM	DESIRABLE
0° 15'	N.C.			N.C.			N.C.			N.C.			N.C.			N.C.			N.C.		
0° 30'	N.C.			N.C.			N.C.			N.C.			N.C.			N.C.			N.C.		
0° 45'	N.C.			N.C.			R.C.			0.022			0.023			0.025			0.028		
1° 00'	N.C.			N.C.			0.021			0.026			0.030			0.033			0.037		
1° 15'	N.C.			R.C.			0.025			0.032			0.037			0.041			0.046		
1° 30'	N.C.			0.021			0.031	200		0.037	225		0.043	250		0.048	250		0.054	275	
1° 45'	N.C.			0.025	175		0.036			0.043			0.049			0.055			0.062		
2° 00'	R.C.			0.028			0.040			0.048			0.055			0.062			0.070		
2° 15'	R.C.			0.031			0.046		300	0.053			0.061			0.069	265		0.078	300	
2° 30'	0.021			0.034			0.049			0.058			0.067			0.075	280		0.085	315	400
2° 45'	0.023			0.037			0.053			0.063			0.072			0.081	300		0.091	335	
3° 00'	0.026	150		0.040		250	0.057			0.067	230		0.077	260		0.087	315		0.096	350	450
3° 15'	0.027			0.043			0.061			0.072	245		0.082	275		0.090	325	400	0.098	360	
3° 30'	0.029			0.046			0.065	205		0.076	255		0.086	285		0.095	340		0.100	360	
3° 45'	0.031		250	0.049			0.069	215		0.080	265		0.090	295	400	0.097	345				
4° 00'	0.033			0.051			0.072	225		0.083	270		0.093	305		0.099	350				
4° 30'	0.037			0.056			0.078	240		0.087	280		0.096	315							
5° 00'	0.040			0.061			0.083	250		0.091	295	400	0.098	320							
5° 30'	0.043			0.066	185		0.088	260		0.094	300										
6° 00'	0.046			0.070	190		0.092	270		0.096	305										
6° 30'	0.050			0.074	200		0.095	280	350	0.100	315										
7° 00'	0.053			0.078	210		0.098	285													
7° 30'	0.056			0.081	215		0.099	290													
8° 00'	0.058			0.084	220		0.100	290													
8° 30'	0.061			0.087	225	300															
9° 00'	0.063			0.089	230																
10° 00'	0.068	160		0.094	235																
11° 00'	0.072	170		0.097	250																
12° 00'	0.076	175		0.099	250																
13° 00'	0.080	180		0.100	250																
14° 00'	0.083	190																			
15° 00'	0.086	195																			
16° 00'	0.089	200																			
17° 00'	0.091	200																			
18° 00'	0.093	205																			
19° 00'	0.095	210																			
20° 00'	0.097	215	300																		
21° 00'	0.098	215																			
22° 00'	0.099	215																			
23° 00'	0.099	215																			
24° 00'	0.100	220																			

D MAX = 24° 45' | D MAX = 13° 15' | D MAX = 8° 15' | D MAX = 6° 30' | D MAX = 5° 15' | D MAX = 4° 15' | D MAX = 3° 30'



ONE-WAY TRAFFIC
INSIDE LANE

SUPERELEVATION FORMULA = $S = -\frac{L(de+C)}{Ls} - C$

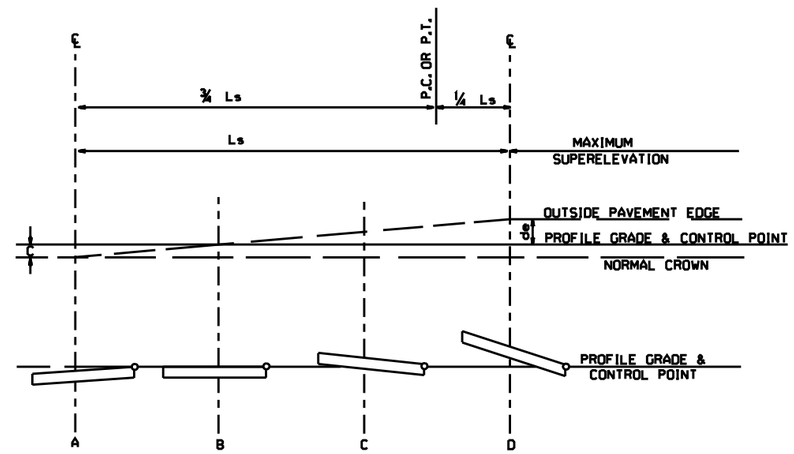
ABBREVIATIONS

NC - NORMAL CROWN
RC - REVERSE CROWN, SUPERELEVATION AT NORMAL CROWN SLOPE
S - SUPERELEVATION
L - DISTANCE FROM BEGINNING OF SUPERELEVATION TRANSITION TO ANY POINT (FT.)
d - WIDTH OF PAVEMENT
e - MAXIMUM RATE OF SUPERELEVATION (FT. PER FT.)
Ls - LENGTH OF SUPERELEVATION TRANSITION (FT.)
C - NORMAL CROWN (FT.)

GENERAL NOTES

1. ON PAVEMENT WITH ONE-WAY TRAFFIC, THE SUPERELEVATION SHALL BE REVOLVED ON THE PROFILE GRADE POINT.
2. SUPERELEVATION VALUES SHOWN ON THE CROSS SECTIONS ARE VALUES (+) OR (-) TO BE ADDED OR SUBTRACTED FROM THE POINT OF CONTROL.
3. LENGTHS FOR Ls MAY BE ROUNDED IN MULTIPLES OF 25 FT. OR 50 FT. TO PERMIT SIMPLER CALCULATIONS.
4. MINIMUM Ls VALUES MAY BE USED FOR RAMPS; DESIRABLE VALUES SHALL APPLY TO MAIN LANES.
5. DIVIDED PAVEMENTS WIDER THAN 4 LANES SHALL HAVE ADDITIONAL TRANSITION LENGTHS AS FOLOWS;

6 LANE DIVIDED---------+20%
8 LANE DIVIDED---------+50%



ONE-WAY TRAFFIC
OUTSIDE LANE

SUPERELEVATION FORMULA = $S = +\frac{L(de+C)}{Ls} - C$

DATE	REVISION	DATE FILMED
01-09-87	ISSUED	678-1-15-87

ARKANSAS STATE HIGHWAY COMMISSION

TABLES AND METHOD OF SUPERELEVATION FOR ONE-WAY TRAFFIC

STANDARD DRAWING SE-1