

**SUPERELEVATION VALUES FOR PRESERVATION / REHABILITATION / REPLACEMENT (PRR) PROJECTS
RURAL - ROTATING ABOUT CENTER LINE**

POSTED SPEED		30 MPH				35 MPH				40 MPH				45 MPH				50 MPH				55 MPH				60 MPH				65 MPH				70 MPH					
Radius	Degree	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le	e (%)		Le								
		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES		MIN	DES									
23000	0°15'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	RC		67	NC	RC		70	NC	RC		75		
11500	0°30'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	RC		67	NC	RC		70	NC	RC		75		
8000	0°42'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	RC		67	NC	RC		70	NC	2.7		81		
7650	0°44'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	RC		67	NC	RC		70	NC	2.8		84		
7000	0°49'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	RC		67	NC	2.7		70	NC	3.1		99		
6000	0°57'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	2.8		75	NC	3.2		89	NC	3.6		108		
5730	1°00'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	RC		64	NC	3		80	NC	3.3		92	NC	3.7		111		
5000	1°08'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	RC		60	NC	2.9		74	NC	3.4		91	NC	3.8		108	NC	4.2		128		
4000	1°25'	NC	RC		46	NC	RC		48	NC	RC		52	NC	RC		56	NC	3		72	NC	3.5		89	NC	4.1		109	NC	4.6		128	RC	5.2	75	156		
3000	1°54'	NC	RC		46	NC	RC		48	NC	2.7		56	NC	3.3		73	NC	3.9		94	NC	4.6		117	NC	5.3		141	RC	6	70	167	RC	6.8	75	204		
2985	2°00'	NC	RC		46	NC	RC		48	NC	2.8		58	NC	3.4		76	NC	4.1		98	NC	4.8		123	NC	5.6		149	RC	6.2	70	173	RC	7.0	75	210		
1910	3°00'	NC	RC		46	NC	3.2		62	NC	4		83	NC	4.8		107	NC	5.7		137	NC	6.7		171	RC	7.7	67	205	4	8.7	106	243	7.2	9.7	216	291		
1430	4°00'	NC	3.3		60	NC	4.1		79	NC	5.1		108	NC	6.1		138	NC	7.2		173	RC	8.3	64	212	4.9	9.5	131	253	9	10	243	279	10	10	300	300		
1146	5°00'	NC	3.9		71	NC	5		97	NC	6.1		128	NC	7.2		160	RC	8.4	60	202	4.7	9.4	120	240	9.0	10.0	240	267	10		279							
1000	5°43'	NC	4.4		80	NC	5.5		106	NC	6.7		139	RC	7.9	56	176	RC	9.1	60	218	7.3	9.9	186	253	10		267											
955	5°59'	NC	4.6		84	NC	5.7		110	NC	6.9		143	RC	8.2	56	182	3.5	9.3	64	223	8.2	10	209	255														
950	6°00'	NC	4.6		84	NC	5.8		112	NC	7		145	RC	8.2	56	182	3.6	9.3	68	223	8.3		212															
900	6°21'	NC	4.6		87	NC	6		116	NC	7.2		149	RC	8.4	56	187	4.6	9.5	110	228	9.5		243															
850	6°44'	NC	5		91	NC	6.2		120	NC	7.5		155	RC	8.7	56	193	5.7	9.7	137	233	10		255															
818	7°00'	NC	5.2		95	NC	6.4		124	NC	7.7		159	RC	8.9	56	198	6.5	9.8	156	235																		
800	7°09'	NC	5.2		95	NC	6.5		126	NC	7.8		161	RC	9	56	200	6.9	9.9	168	238																		
750	7°38'	NC	5.5		100	NC	6.8		132	RC	8.1	52	168	3.1	9.3	69	207	8.3	10	199	240																		
716	8°00'	NC	5.7		104	NC	7		135	RC	8.3	52	172	3.9	9.5	87	211	9.4		226																			
700	8°11'	NC	5.8		105	NC	7.1		137	RC	8.4	52	174	4.4	9.6	98	213	9.9		238																			
650	8°48'	NC	6.1		111	NC	7.4		143	RC	8.8	52	182	5.9	9.8	131	218	10		240																			
636	9°00'	NC	6.2		113	NC	7.5		145	RC	8.9	52	184	6.3	9.9	140	220																						
600	9°32'	NC	6.4		116	NC	7.7		149	RC	9.1	52	188	7.8	10	169	222																						
573	10°00'	NC	6.6		120	NC	7.9		153	2.7	9.3	56	192	8.7		193																							
550	10°25'	NC	6.8		124	NC	8.1		157	3.5	9.5	72	197	9.7		216																							
521	11°00'	NC	7		127	RC	8.4	48	163	4.6	9.7	95	201	10		222																							
500	11°27'	NC	7.1		129	RC	8.6	48	166	5.4	9.8	112	203																										
477	12°00'	NC	7.3		133	RC	8.8	48	170	6.5	9.9	134	205																										
450	12°43'	NC	7.6		138	RC	9	48	174	7.8	10	161	207																										
441	13°00'	NC	7.6		138	RC	9.1	48	176	8.3		172																											
410	13°58'	NC	7.9		144	RC	9.4	48	182	10		207																											
408	14°00'	NC	8		145	RC	9.4	48	182																														
400	14°19'	NC	8		145	RC	9.5	48	184																														
398	16°00'	NC	8.5		155	4.9	9.8	95	190																														
318	18°00'	RC	9	45	164	7.8	10	151	194																														
286	20°00'	RC	9.4	45	171	10		194																															
250	22°55'	4.1	9.8	75	178																																		
200	28°38'	10	10	182	182																																		

Notes:
 Table layout is based on rounded Radius and/or Degree. Interpolation is acceptable to obtain superelevation values.
 Values are based on 12' lanes and are for rotating one lane only. Runout and Runoff should be increased 50% if rotating two lanes.
 Runout should occur in the tangent section prior to applying runoff.
 50% - 90% of runoff length (Lr) should occur before the PC or after PT.
 Exceptions to the minimum values may be made with proper justification by the Project Engineer and noted on the As-Built Plans.
 When existing foreslope rates can be maintained within existing right-of-way, desirable values should be used.
 R min is limiting radius.
 Superelevation rate should not exceed 8% for Districts 04 & 05.
 If curve advisory speed < rwy posted speed minus 15 mph, low cost safety improvements shall be considered.

e = RATE OF SUPERELEVATION (%)
 Lr = DESIRED LENGTH OF SUPERELEVATION RUNOFF (FT)
 MPH = MILES PER HOUR
 NC = NORMAL CROWN
 RC = REVERSE CROWN
 f = SIDE FRICTION FACTOR

ALL LENGTHS IN TABLE ARE GIVEN IN FEET

SUPERELEVATION TRANSITION LENGTH, L1 = TANGENT RUNOUT + SUPERELEVATION RUNOFF, Lr

NOTES:

THE DESIRED VALUES ARE IN ACCORDANCE WITH THE LATEST LADOTD DESIGN GUIDELINES AND SHALL BE USED WHERE FEASIBLE. IF CONSTRAINTS DO NOT ALLOW THE USE OF THESE FACTORS, THEN THE HIGHEST PRACTICAL LESSOR VALUE MAY BE USED. MINIMUM VALUES WILL BE BASED ON THE EXISTING CONDITIONS OF THE ROADWAY. IF THE EXISTING CONDITIONS ARE USED, THEY MUST BE IDENTIFIED PRIOR TO ANY CHANGES OF THE EXISTING SURFACE AND APPROVED BY THE PROJECT ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE DEGREE OF ALL CURVES AND FOR THE ACCURACY OF THE PROPOSED CURVE LAYOUT(S). THE CONTRACTOR SHALL SUBMIT THE CURVE LAYOUT(S) TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO COMMENCING WORK.

ALL WORK SHALL BE PAID FOR UNDER BID ITEM 740-01-00100, CONSTRUCTION LAYOUT.

PRRSV-01-CL		SUPERELEVATION VALUES					DESIGNED CHECKED	PARISH	SHEET NO.	
							DETAILED CHECKED	CONTROL SECTION		
							DATE SHEET	04-15-11		STATE PROJECT
		RURAL PRR PROJECTS					NO.	DATE		REVISION DESCRIPTION