

TC-5.11

NOTE: Lr, Lt & w VALUES IN FEET. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, Lr, AND w VALUES. WIDENING SHOWN IS BASED ON A WB-62 DESIGN VEHICLE.

**DESIGN FACTORS FOR A DESIGN SPEED OF 60 MPH (RURAL) USING E= 8% MAX.**

DESIGN VELOCITY +60	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMPS			
	WIDTH=22 FT			WIDTH=24 FT			WIDTH=48 FT			WIDTH=72 FT			16 FT		18 FT	
	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	Lt	Lr
11500	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8480	2	49	49	54	54	0	80	80	0	107	107	0	63	63	67	67
8048	2.1	49	52	0	54	56	0	80	84	0	107	112	0	63	66	67
7654	2.2	49	54	0	54	59	0	80	88	0	107	118	0	63	70	67
7294	2.3	49	57	0	54	62	0	80	92	0	107	123	0	63	73	67
6965	2.4	49	59	0	54	64	0	80	96	0	107	128	0	63	76	67
6661	2.5	49	62	0	54	67	0	80	100	0	107	134	0	63	79	67
6381	2.6	49	64	0	54	70	0	80	104	0	107	139	0	63	82	67
6121	2.7	49	66	0	54	72	0	80	108	0	107	144	0	63	85	67
5879	2.8	49	69	0	54	75	0	80	112	0	107	150	0	63	88	67
5654	2.9	49	71	0	54	78	0	80	116	0	107	155	0	63	91	67
5444	3	49	74	0	54	80	0	80	120	0	107	160	0	63	95	67
5247	3.1	49	76	0	54	83	0	80	124	0	107	166	0	63	98	67
5063	3.2	49	79	0	54	86	0	80	128	0	107	171	0	63	101	67
4889	3.3	49	81	0	54	88	0	80	132	0	107	176	0	63	104	67
4725	3.4	49	84	0	54	91	0	80	136	0	107	182	0	63	107	67
4571	3.5	49	86	0	54	94	0	80	140	0	107	187	0	63	110	67
4424	3.6	49	88	0	54	96	0	80	144	0	107	192	0	63	113	67
4286	3.7	49	91	0	54	99	0	80	148	0	107	198	0	63	117	67
3587	4.3	49	106	0	54	115	0	80	172	0	107	230	0	63	135	67
3488	4.4	49	108	0	54	118	0	80	176	0	107	235	0	63	139	67
3394	4.5	49	110	0	54	120	0	80	180	0	107	240	0	63	142	67
3303	4.6	49	113	0	54	123	0	80	184	0	107	246	0	63	145	67
3216	4.7	49	115	0	54	126	0	80	188	0	107	251	0	63	148	67
3133	4.8	49	118	0	54	128	0	80	192	0	107	256	0	63	151	67
3053	4.9	49	120	0	54	131	0	80	196	0	107	262	0	63	154	67
2975	5	49	123	0	54	136	0	80	200	0	107	267	0	63	157	67
2901	5.1	49	125	0	54	139	0	80	204	0	107	272	0	63	160	67
2829	5.2	49	128	0	54	142	0	80	208	0	107	278	0	63	164	67
2759	5.3	49	130	0	54	144	0	80	212	0	107	283	0	63	167	67
2692	5.4	49	132	0	54	147	0	80	216	0	107	288	0	63	170	67
2627	5.5	54	147	2	54	150	0	80	220	0	107	294	0	63	173	67
2565	5.6	54	150	2	54	152	0	80	224	0	107	299	0	63	176	67
2504	5.7	54	152	2	54	155	0	80	228	0	107	304	0	63	179	67
2445	5.8	54	156	2.1	54	158	0	80	232	0	107	310	0	63	182	67
2387	5.9	54	158	2.1	54	158	0	80	236	0	107	315	0	63	186	67
2332	6	54	161	2.1	54	160	0	80	240	0	107	320	0	63	189	67
2277	6.1	54	165	2.2	54	163	0	80	244	0	107	326	0	63	192	67
2225	6.2	54	167	2.2	54	166	0	80	248	0	107	331	0	63	195	67
2173	6.3	54	170	2.2	54	168	0	80	252	0	107	336	0	63	198	67
2122	6.4	54	173	2.3	54	171	0	80	256	0	107	342	0	63	201	67
2072	6.5	54	176	2.3	54	174	0	80	260	0	107	347	0	63	204	67
2022	6.6	54	179	2.3	54	176	0	80	264	0	107	352	0	63	208	67
1974	6.7	55	182	2.4	54	179	0	80	268	0	107	358	0	63	211	67
1925	6.8	55	185	2.4	54	182	0	80	272	0	107	363	0	63	214	67
1877	6.9	55	188	2.5	54	184	0	80	276	0	107	368	0	63	217	67
1830	7	55	191	2.5	54	187	0	80	280	0	107	374	0	63	220	67
1782	7.1	55	195	2.6	54	190	0	80	284	0	107	379	0	63	223	67
1735	7.2	55	197	2.6	54	192	0	80	288	0	107	384	0	63	226	67
1687	7.3	55	201	2.7	54	195	0	80	292	0	107	390	0	63	229	67
1638	7.4	55	204	2.7	54	198	0	80	296	0	107	395	0	63	233	67
1588	7.5	56	207	2.8	54	200	0	80	300	0	107	400	0	63	236	67
1537	7.6	56	210	2.8	54	203	0	80	304	0	107	406	0	63	239	67
1482	7.7	56	214	2.9	54	206	0	80	308	0	107	411	0	63	242	67
1422	7.8	56	217	3	58	226	2	87	338	4	116	451	6	63	245	67
1350	7.9	56	221	3.1	58	230	2.1	87	344	4.2	116	459	6.3	63	248	67
1204	8	57	226	3.4	59	235	2.4	88	352	4.8	118	470	7.2	63	251	67



ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

803.40

01/13

**TRANSITION CURVES - RURAL  
60 MPH DESIGN SPEED**

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE