

DESIGN FACTORS FOR A DESIGN SPEED OF 55 MPH (RURAL) USING E = 8% MAX.		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		
		1 @ 11'			1 @ 12'			2 @ 12'			3 @ 12'		Lr	Lt	Lr	Lt	
DESIGN VELOCITY +55	RADIUS(FT)	E(%)	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w
			9720	NC		0	0	0	0	0	0	0	0	0	0	0	0
7190	2		47	47	0	52	52	0	77	77	0	103	103	0	60	60	64
6821	2.1		47	50	0	52	54	0	77	81	0	103	108	0	60	63	64
6485	2.2		47	52	0	52	57	0	77	85	0	103	113	0	60	66	64
6179	2.3		47	54	0	52	59	0	77	89	0	103	118	0	60	69	64
5897	2.4		47	57	0	52	62	0	77	92	0	103	123	0	60	72	64
5638	2.5		47	59	0	52	64	0	77	96	0	103	128	0	60	75	64
5399	2.6		47	61	0	52	67	0	77	100	0	103	133	0	60	78	64
5177	2.7		47	64	0	52	69	0	77	104	0	103	138	0	60	80	64
4972	2.8		47	66	0	52	72	0	77	108	0	103	143	0	60	83	64
4779	2.9		47	68	0	52	75	0	77	112	0	103	149	0	60	86	64
4600	3		47	71	0	52	77	0	77	115	0	103	154	0	60	89	64
4432	3.1		47	73	0	52	80	0	77	119	0	103	159	0	60	92	64
4274	3.2		47	75	0	52	82	0	77	123	0	103	164	0	60	95	64
4125	3.3		47	78	0	52	85	0	77	127	0	103	169	0	60	98	64
3986	3.4		47	80	0	52	87	0	77	131	0	103	174	0	60	101	64
3853	3.5		47	82	0	52	90	0	77	135	0	103	179	0	60	104	64
3728	3.6		47	85	0	52	92	0	77	138	0	103	184	0	60	107	64
3610	3.7		47	87	0	52	95	0	77	142	0	103	189	0	60	110	64
3498	3.8		47	89	0	52	98	0	77	146	0	103	195	0	60	113	64
3391	3.9		47	92	0	52	100	0	77	150	0	103	200	0	60	116	64
3289	4		47	94	0	52	103	0	77	154	0	103	205	0	60	119	64
3192	4.1		47	96	0	52	105	0	77	158	0	103	210	0	60	122	64
3100	4.2		47	99	0	52	108	0	77	161	0	103	215	0	60	125	64
3011	4.3		47	101	0	52	110	0	77	165	0	103	220	0	60	128	64
2927	4.4		47	103	0	52	113	0	77	169	0	103	225	0	60	131	64
2846	4.5		47	106	0	52	115	0	77	173	0	103	230	0	60	134	64
2768	4.6		47	108	0	52	118	0	77	177	0	103	235	0	60	137	64
2693	4.7		47	110	0	52	120	0	77	180	0	103	240	0	60	140	64
2621	4.8		47	113	0	52	123	0	77	184	0	103	246	0	60	143	64
2552	4.9		47	115	0	52	126	0	77	188	0	103	251	0	60	146	64
2486	5		47	118	0	52	128	0	77	192	0	103	256	0	60	149	64
2421	5.1		52	131	2	52	131	0	77	196	0	103	261	0	60	152	64
2359	5.2		52	133	2	52	133	0	77	200	0	103	266	0	60	155	64
2299	5.3		52	136	2	52	136	0	77	203	0	103	271	0	60	158	64
2241	5.4		52	139	2.1	52	138	0	77	207	0	103	276	0	60	160	64
2185	5.5		52	142	2.1	52	141	0	77	211	0	103	281	0	60	163	64
2130	5.6		52	145	2.2	52	143	0	77	215	0	103	286	0	60	166	64
2077	5.7		52	147	2.2	52	146	0	77	219	0	103	292	0	60	169	64
2026	5.8		52	150	2.2	52	149	0	77	223	0	103	297	0	60	172	64
1976	5.9		52	153	2.3	52	151	0	77	226	0	103	302	0	60	175	64
1927	6		52	156	2.3	52	154	0	77	230	0	103	307	0	60	178	64
1880	6.1		52	158	2.3	52	156	0	77	234	0	103	312	0	60	181	64
1833	6.2		52	161	2.4	52	159	0	77	238	0	103	317	0	60	184	64
1788	6.3		52	164	2.4	52	161	0	77	242	0	103	322	0	60	187	64
1743	6.4		53	167	2.5	52	164	0	77	246	0	103	327	0	60	190	64
1700	6.5		53	170	2.5	52	166	0	77	249	0	103	332	0	60	193	64
1657	6.6		53	173	2.6	52	169	0	77	253	0	103	338	0	60	196	64
1615	6.7		53	176	2.6	52	172	0	77	257	0	103	343	0	60	199	64
1573	6.8		53	179	2.7	52	174	0	77	261	0	103	348	0	60	202	64
1532	6.9		53	182	2.7	52	177	0	77	265	0	103	353	0	60	205	64
1491	7		53	185	2.8	52	179	0	77	269	0	103	358	0	60	208	64
1450	7.1		53	188	2.8	52	182	0	77	272	0	103	363	0	60	211	64
1409	7.2		53	191	2.9	52	184	0	77	276	0	103	368	0	60	214	64
1369	7.3		54	195	3	56	202	2	83	303	4	111	404	6	60	217	64
1327	7.4		54	197	3	56	205	2	83	308	4	111	410	6	60	220	64
1285	7.5		54	201	3.1	56	209	2.1	84	313	4.2	112	417	6.3	60	223	64
1241	7.6		54	204	3.2	56	212	2.2	84	318	4.4	112	424	6.6	60	226	64
1195	7.7		54	208	3.3	56	216	2.3	84	324	4.6	112	431	6.9	60	229	64
1145	7.8		55	211	3.4	57	220	2.4	85	329	4.8	113	439	7.2	60	232	64
1085	7.9		55	215	3.5	57	223	2.5	85	335	5	113	446	7.5	60	235	64
964	8		55	220	3.8	58	229	2.8	86	343	5.6	115	457	8.4	60	238	64

TC-5.11

NOTE: Lt, Lr & 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.

TRANSITION CURVES - RURAL
55 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION



ROAD AND BRIDGE STANDARDS

REVISION DATE SHEET 1 OF 1

01/13

803.39