

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

TC-5.11

DESIGN VELOCITY -50		DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMPS							
		1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			2 @ 12'		3 @ 12'		16 FT		18 FT	
		L _t	L _r	w	L _t	L _r	w	L _t	L _r	w	L _t	L _r	w	L _t	L _r	w	L _t	L _r	L _t	L _r	
8150	NC	0	2.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
6013	2	42	42	3	44	44	2	44	44	0	48	48	0	72	72	0	96	96	0	57	57
5703	2.1	43	45	3.1	45	47	2.1	44	47	0	48	51	0	72	76	0	96	101	0	57	59
5420	2.2	43	47	3.1	45	49	2.1	44	49	0	48	53	0	72	80	0	96	106	0	57	62
5162	2.3	43	49	3.1	45	51	2.1	44	51	0	48	56	0	72	83	0	96	111	0	57	65
4926	2.4	43	51	3.2	45	54	2.2	44	53	0	48	58	0	72	87	0	96	116	0	57	68
4708	2.5	43	53	3.2	45	56	2.2	44	55	0	48	60	0	72	90	0	96	120	0	57	71
4507	2.6	43	56	3.2	45	58	2.2	44	58	0	48	63	0	72	94	0	96	125	0	57	73
4320	2.7	43	58	3.3	45	61	2.3	44	60	0	48	65	0	72	98	0	96	130	0	57	76
4146	2.8	43	60	3.3	45	63	2.3	44	62	0	48	68	0	72	101	0	96	135	0	57	79
3985	2.9	43	62	3.3	45	65	2.3	44	64	0	48	70	0	72	105	0	96	140	0	57	82
3834	3	43	65	3.4	45	68	2.4	44	66	0	48	72	0	72	108	0	96	144	0	57	85
3692	3.1	43	67	3.4	45	70	2.4	44	69	0	48	75	0	72	112	0	96	149	0	57	88
3560	3.2	43	69	3.4	45	72	2.4	44	71	0	48	77	0	72	116	0	96	154	0	57	90
3434	3.3	43	71	3.5	45	75	2.5	44	73	0	48	80	0	72	119	0	96	159	0	57	93
3316	3.4	43	74	3.5	45	77	2.5	44	75	0	48	82	0	72	123	0	96	164	0	57	96
3205	3.5	43	76	3.5	45	79	2.5	44	77	0	48	84	0	72	126	0	96	168	0	57	99
3099	3.6	44	78	3.6	46	82	2.6	44	80	0	48	87	0	72	130	0	96	173	0	57	102
2999	3.7	44	80	3.6	46	84	2.6	44	82	0	48	89	0	72	134	0	96	178	0	57	104
2904	3.8	44	83	3.6	46	86	2.6	44	84	0	48	92	0	72	137	0	96	183	0	57	107
2814	3.9	76	147	3.7	46	89	2.7	44	86	0	48	94	0	72	141	0	96	188	0	57	110
2728	4	74	147	3.7	46	91	2.7	44	88	0	48	96	0	72	144	0	96	192	0	57	113
2646	4.1	72	147	3.8	46	94	2.8	44	91	0	48	99	0	72	148	0	96	197	0	57	116
2568	4.2	70	147	3.8	46	96	2.8	44	93	0	48	101	0	72	152	0	96	202	0	57	118
2493	4.3	69	147	3.8	46	99	2.8	44	95	0	48	104	0	72	155	0	96	207	0	57	121
2422	4.4	67	147	3.9	46	101	2.9	44	97	0	48	106	0	72	159	0	96	212	0	57	124
2353	4.5	66	147	3.9	46	104	2.9	44	99	0	48	108	0	72	162	0	96	216	0	57	127
2287	4.6	64	147	3.9	46	106	2.9	44	102	0	48	111	0	72	166	0	96	221	0	57	130
2224	4.7	63	147	4	46	109	3	48	113	2	48	113	0	72	170	0	96	226	0	57	132
2163	4.8	62	147	4	46	111	3	48	116	2	48	116	0	72	173	0	96	231	0	57	135
2104	4.9	60	147	4.1	47	114	3.1	49	119	2.1	48	118	0	72	177	0	96	236	0	57	138
2047	5	59	147	4.1	47	116	3.1	49	121	2.1	48	120	0	72	180	0	96	240	0	57	141
1992	5.1	58	147	4.1	47	118	3.1	49	123	2.1	48	123	0	72	184	0	96	245	0	57	144
1939	5.2	57	147	4.2	47	121	3.2	49	126	2.2	48	125	0	72	188	0	96	250	0	57	146
1888	5.3	56	147	4.2	47	123	3.2	49	129	2.2	48	128	0	72	191	0	96	255	0	57	149
1838	5.4	55	147	4.3	47	126	3.3	49	132	2.3	48	130	0	72	195	0	96	260	0	57	152
1790	5.5	54	147	4.3	47	129	3.3	49	134	2.3	48	132	0	72	198	0	96	264	0	57	155
1743	5.6	53	147	4.4	47	132	3.4	49	137	2.4	48	135	0	72	202	0	96	269	0	57	158
1698	5.7	52	147	4.4	47	134	3.4	49	140	2.4	48	137	0	72	206	0	96	274	0	57	160
1653	5.8	51	147	4.5	47	137	3.5	49	143	2.5	48	140	0	72	209	0	96	279	0	57	163
1610	5.9	50	147	4.5	47	139	3.5	49	145	2.5	48	142	0	72	213	0	96	284	0	57	166
1568	6	49	147	4.5	47	141	3.5	49	147	2.5	48	144	0	72	216	0	96	288	0	57	169
1527	6.1	49	147	4.6	48	144	3.6	50	151	2.6	48	147	0	72	220	0	96	293	0	57	172
1487	6.2	48	147	4.6	48	147	3.6	50	153	2.6	48	149	0	72	224	0	96	298	0	57	175
1448	6.3	47	147	4.7	48	150	3.7	50	156	2.7	48	152	0	72	227	0	96	303	0	57	177
1410	6.4	46	147	4.8	48	153	3.8	50	159	2.8	48	154	0	72	231	0	96	308	0	57	180
1372	6.5	46	149	4.8	48	155	3.8	50	162	2.8	48	156	0	72	234	0	96	312	0	57	183
1336	6.6	47	152	4.9	48	158	3.9	50	165	2.9	48	159	0	72	238	0	96	317	0	57	186
1300	6.7	46	154	4.9	48	161	3.9	50	167	2.9	48	161	0	72	242	0	96	322	0	57	189
1265	6.8	47	157	5	48	164	4	50	170	3	52	177	2	84	286	4	112	381	6	57	191
1230	6.9	47	159	5	48	166	4	50	173	3	52	180	2	84	290	4	112	387	6	57	194
1196	7	47	162	5.1	49	169	4.1	51	176	3.1	53	183	2.1	85	297	4.2	113	395	6.3	57	197
1162	7.1	47	165	5.2	49	172	4.2	51	179	3.2	53	187	2.2	86	303	4.4	114	404	6.6	57	200
1128	7.2	47	168	5.3	49	175	4.3	51	183	3.3	53	190	2.3	86	309	4.6	115	412	6.9	57	203
1094	7.3	47	171	5.3	49	178	4.3	51	185	3.3	53	192	2.3	86	314	4.6	115	418	6.9	57	205
1059	7.4	48	174	5.4	49	181	4.4	51	188	3.4	53	196	2.4	87	320	4.8	116	427	7.2	57	208
1024	7.5	48	177	5.5	50	184	4.5	51	192	3.5	53	199	2.5	87	327	5	116	435	7.5	57	211
988	7.6	48	180	5.6	50	187	4.6	52	195	3.6	54	203	2.6	88	333	5.2	117	444	7.8	57	214
950	7.7	48	183	5.7	50	191	4.7	52	198	3.7	54	206	2.7	89	340	5.4	118	453	8.1	57	217
908	7.8	48	186	5.8	50	194	4.8	52	202	3.8	54	210	2.8	89	347	5.6	119	462	8.4	57	219
860	7.9	49	190	6	51	198	5	52	206	4	54	214	3	90	356	6	120	474	9	57	222
760	8	49	196	6.4	51	204	5.4	53	212	4.4	55	220	3.4	93	370	6.8	124	493	10.2	57	225



ROAD AND BRIDGE STANDARDS

SHEET 1 OF 1

REVISION DATE

803.38

TRANSITION CURVES - RURAL

50 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE