

TC-5.01

DESIGN FACTORS FOR A DESIGN SPEED OF 30 MPH (RURAL) USING E = 8% MAX.

DESIGN VELOCITY =30	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)										INTERCHANGE RAMPS							
	WIDTH=18 FT		WIDTH=20 FT		WIDTH=22 FT		WIDTH=24 FT		WIDTH=48 FT		16 FT		18 FT					
	1 @ 9'	1 @ 10'	1 @ 11'	1 @ 12'	1 @ 12'	2 @ 12'	2 @ 12'	2 @ 12'	2 @ 12'	2 @ 12'	CR	LS	CR	LS				
RADIUS(FT) E(%)	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	
3500	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2402	2.0	28	28	0.0	31	31	0.0	34	34	0.0	37	37	0.0	43	43	0.0	45	45
2276	2.1	28	29	0.0	31	32	0.0	34	35	0.0	37	39	0.0	43	45	0.0	45	48
2161	2.2	28	30	0.0	31	34	0.0	34	37	0.0	37	40	0.0	43	47	0.0	45	50
2056	2.3	28	32	0.0	31	35	0.0	34	39	0.0	37	42	0.0	43	50	0.0	45	52
1960	2.4	84	100	2.0	31	37	0.0	34	40	0.0	37	44	0.0	43	52	0.0	45	54
1871	2.5	80	100	2.0	31	38	0.0	34	42	0.0	37	46	0.0	43	54	0.0	45	57
1789	2.6	77	100	2.0	31	40	0.0	34	44	0.0	37	48	0.0	43	56	0.0	45	59
1713	2.7	75	100	2.1	31	41	0.0	34	45	0.0	37	50	0.0	43	58	0.0	45	61
1643	2.8	72	100	2.1	31	43	0.0	34	47	0.0	37	51	0.0	43	60	0.0	45	63
1577	2.9	69	100	2.1	31	44	0.0	34	49	0.0	37	53	0.0	43	62	0.0	45	66
1515	3.0	67	100	2.1	31	46	0.0	34	50	0.0	37	55	0.0	43	64	0.0	45	68
1457	3.1	65	100	2.2	31	47	0.0	34	52	0.0	37	57	0.0	43	67	0.0	45	70
1403	3.2	63	100	2.2	31	49	0.0	34	54	0.0	37	59	0.0	43	69	0.0	45	72
1352	3.3	61	100	2.2	31	50	0.0	34	55	0.0	37	60	0.0	43	71	0.0	45	75
1303	3.4	59	100	2.3	31	52	0.0	34	57	0.0	37	62	0.0	43	73	0.0	45	77
1258	3.5	58	100	2.3	31	54	0.0	34	59	0.0	37	64	0.0	43	75	0.0	45	79
1214	3.6	56	100	2.3	31	55	0.0	34	60	0.0	37	66	0.0	43	77	0.0	45	81
1173	3.7	55	100	2.3	31	57	0.0	34	62	0.0	37	68	0.0	43	79	0.0	45	84
1134	3.8	53	100	2.4	31	58	0.0	34	64	0.0	37	70	0.0	43	82	0.0	45	86
1097	3.9	52	100	2.4	31	60	0.0	34	65	0.0	37	71	0.0	43	84	0.0	45	88
1061	4.0	50	100	2.4	31	61	0.0	34	67	0.0	37	73	0.0	43	86	0.0	45	90
1028	4.1	49	100	2.5	31	63	0.0	34	69	0.0	37	75	0.0	43	88	0.0	45	93
995	4.2	48	100	2.5	31	64	0.0	34	70	0.0	37	77	0.0	43	90	0.0	45	95
964	4.3	47	100	2.5	31	66	0.0	34	72	0.0	37	79	0.0	43	92	0.0	45	97
934	4.4	46	100	2.6	31	67	0.0	34	74	0.0	37	80	0.0	43	94	0.0	45	99
905	4.5	45	100	2.6	31	69	0.0	34	75	0.0	37	82	0.0	43	96	0.0	45	102
877	4.6	44	100	2.6	31	70	0.0	34	77	0.0	37	84	0.0	43	99	0.0	45	104
851	4.7	43	100	2.7	31	72	0.0	34	79	0.0	37	86	0.0	43	101	0.0	45	106
825	4.8	42	100	2.7	31	73	0.0	34	80	0.0	37	88	0.0	43	103	0.0	45	108
800	4.9	41	100	2.7	31	75	0.0	34	82	0.0	37	90	0.0	43	105	0.0	45	111
775	5.0	40	100	2.8	31	76	0.0	34	84	0.0	37	91	0.0	43	107	0.0	45	113
752	5.1	40	100	2.8	31	78	0.0	34	85	0.0	37	93	0.0	43	109	0.0	45	115
729	5.2	39	100	2.8	31	79	0.0	34	87	0.0	37	95	0.0	43	111	0.0	45	117
706	5.3	38	100	2.9	31	81	0.0	34	89	0.0	37	97	0.0	43	114	0.0	45	120
684	5.4	38	100	2.9	31	82	0.0	34	90	0.0	37	99	0.0	43	116	0.0	45	122
663	5.5	37	100	3.0	37	100	2.0	34	92	0.0	37	100	0.0	43	118	0.0	45	124
641	5.6	36	100	3.0	36	100	2.0	34	94	0.0	37	102	0.0	43	120	0.0	45	126
621	5.7	36	100	3.0	36	100	2.0	34	95	0.0	37	104	0.0	43	122	0.0	45	129
602	5.8	35	100	3.1	35	100	2.1	34	97	0.0	37	106	0.0	43	124	0.0	45	131
583	5.9	34	100	3.1	34	100	2.1	34	99	0.0	37	108	0.0	43	126	0.0	45	133
565	6.0	34	100	3.2	34	101	2.2	34	100	0.0	37	110	0.0	43	128	0.0	45	135
548	6.1	33	100	3.2	34	103	2.2	34	102	0.0	37	111	0.0	43	131	0.0	45	138
531	6.2	33	101	3.3	34	105	2.3	34	104	0.0	37	113	0.0	43	133	0.0	45	140
515	6.3	33	102	3.3	34	107	2.3	34	105	0.0	37	115	0.0	43	135	0.0	45	142
499	6.4	33	104	3.4	35	109	2.4	34	107	0.0	37	117	0.0	43	137	0.0	45	144
484	6.5	33	106	3.4	35	111	2.4	34	109	0.0	37	119	0.0	43	139	0.0	45	147
469	6.6	33	108	3.5	35	113	2.5	34	110	0.0	37	120	0.0	43	141	0.0	45	149
455	6.7	33	110	3.5	35	115	2.5	34	112	0.0	37	122	0.0	43	143	0.0	45	151
441	6.8	33	112	3.6	35	117	2.6	34	114	0.0	37	124	0.0	43	146	0.0	45	153
427	6.9	33	113	3.6	35	119	2.6	34	115	0.0	37	126	0.0	43	148	0.0	45	156
414	7.0	34	116	3.7	35	121	2.7	34	117	0.0	37	128	0.0	43	150	0.0	45	158
400	7.1	34	118	3.8	35	123	2.8	34	119	0.0	37	130	0.0	43	152	0.0	45	160
387	7.2	34	119	3.8	35	125	2.8	34	120	0.0	37	131	0.0	43	154	0.0	45	162
374	7.3	34	122	3.9	35	127	2.9	34	122	0.0	37	133	0.0	43	156	0.0	45	165
361	7.4	34	124	4.0	35	129	3.0	37	135	2.0	37	135	0.0	43	158	0.0	45	167
348	7.5	34	126	4.1	36	132	3.1	37	137	2.1	37	137	0.0	43	160	0.0	45	169
334	7.6	34	128	4.2	36	134	3.2	37	140	2.2	37	139	0.0	43	163	0.0	45	171
320	7.7	35	131	4.3	36	136	3.3	37	142	2.3	37	140	0.0	43	165	0.0	45	174
305	7.8	35	133	4.4	36	139	3.4	38	145	2.4	37	142	0.0	43	167	0.0	45	176
287	7.9	35	135	4.5	36	141	3.5	38	147	2.5	37	144	0.0	43	169	0.0	45	178
251	8.0	35	139	4.9	37	145	3.9	38	151	2.9	37	146	0.0	43	171	0.0	45	180

NOTE: CR, LS & w VALUES IN FEET. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, CR, LS, AND w VALUES.

SPECIFICATION REFERENCE

TRANSITION CURVES - RURAL
30 MPH DESIGN SPEED