

DESIGN FACTORS FOR A DESIGN SPEED OF 80 km/h (RURAL) USING E-8% MAX.

DESIGN VELOCITY -80	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMPS										
	WIDTH= 5.4 m			WIDTH=6.0 m			WIDTH=6.6 m			WIDTH=7.2 m			WIDTH=14.4 m			WIDTH=21.6 m			WIDTH				
	1 e 2.7 m		1 e 3.0 m		1 e 3.3 m		1 e 3.6 m		2 e 3.6 m		3 e 3.6 m		4.8 m		5.4 m		Lr		Lt		w		
2500	NC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1794	2.0	11	11	12	12	14	14	14	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
1701	2.1	11	12	13	13	14	14	14	15	16	16	16	16	16	16	16	16	16	16	16	16	16	
1617	2.2	11	12	14	14	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16	
1541	2.3	11	13	14	14	16	16	16	15	17	17	17	17	17	17	17	17	17	17	17	17	17	
1470	2.4	11	13	15	15	16	16	16	15	18	18	18	18	18	18	18	18	18	18	18	18	18	
1405	2.5	11	14	15	15	17	17	17	15	18	18	18	18	18	18	18	18	18	18	18	18	18	
1345	2.6	11	15	16	16	18	18	18	15	19	19	19	19	19	19	19	19	19	19	19	19	19	
1289	2.7	11	15	17	17	18	18	18	15	20	20	20	20	20	20	20	20	20	20	20	20	20	
1238	2.8	11	16	18	18	19	19	19	15	21	21	21	21	21	21	21	21	21	21	21	21	21	
1190	2.9	11	16	18	18	20	20	20	15	21	21	21	21	21	21	21	21	21	21	21	21	21	
1144	3.0	11	17	19	19	20	20	20	15	22	22	22	22	22	22	22	22	22	22	22	22	22	
1102	3.1	11	17	19	19	21	21	21	15	23	23	23	23	23	23	23	23	23	23	23	23	23	
1063	3.2	11	18	20	20	22	22	22	15	24	24	24	24	24	24	24	24	24	24	24	24	24	
1025	3.3	11	18	20	20	22	22	22	15	24	24	24	24	24	24	24	24	24	24	24	24	24	
990	3.4	11	19	21	21	23	23	23	15	25	25	25	25	25	25	25	25	25	25	25	25	25	
957	3.5	11	19	21	21	24	24	24	15	26	26	26	26	26	26	26	26	26	26	26	26	26	
926	3.6	11	20	22	22	24	24	24	15	26	26	26	26	26	26	26	26	26	26	26	26	26	
896	3.7	11	20	22	23	24	24	24	15	27	27	27	27	27	27	27	27	27	27	27	27	27	
868	3.8	11	21	23	23	25	25	25	15	28	28	28	28	28	28	28	28	28	28	28	28	28	
851	3.9	11	22	24	24	26	26	26	15	29	29	29	29	29	29	29	29	29	29	29	29	29	
850	3.9	24	45	0.7	12	24	24	24	15	29	29	29	29	29	29	29	29	29	29	29	29	29	
841	3.9	24	45	0.7	12	24	24	24	15	29	29	29	29	29	29	29	29	29	29	29	29	29	
815	4.0	23	45	0.7	12	24	24	24	15	29	29	29	29	29	29	29	29	29	29	29	29	29	
791	4.1	22	45	0.7	12	25	25	25	15	30	30	30	30	30	30	30	30	30	30	30	30	30	
768	4.2	22	45	0.7	12	26	26	26	15	31	31	31	31	31	31	31	31	31	31	31	31	31	
745	4.3	21	45	0.7	12	26	26	26	15	31	31	31	31	31	31	31	31	31	31	31	31	31	
724	4.4	21	45	0.7	12	27	27	27	15	32	32	32	32	32	32	32	32	32	32	32	32	32	
704	4.5	20	45	0.7	12	27	27	27	15	33	33	33	33	33	33	33	33	33	33	33	33	33	
684	4.6	20	45	0.7	12	28	28	28	15	34	34	34	34	34	34	34	34	34	34	34	34	34	
665	4.7	20	45	0.7	12	29	29	29	15	34	34	34	34	34	34	34	34	34	34	34	34	34	
647	4.8	19	45	0.7	12	29	29	29	15	35	35	35	35	35	35	35	35	35	35	35	35	35	
630	4.9	19	45	0.7	12	30	30	30	15	36	36	36	36	36	36	36	36	36	36	36	36	36	
613	5.0	18	45	0.7	12	30	30	30	15	36	36	36	36	36	36	36	36	36	36	36	36	36	
596	5.1	18	45	0.8	12	31	31	31	15	37	37	37	37	37	37	37	37	37	37	37	37	37	
581	5.2	18	45	0.8	12	32	32	32	15	38	38	38	38	38	38	38	38	38	38	38	38	38	
565	5.3	17	45	0.8	12	32	32	32	15	39	39	39	39	39	39	39	39	39	39	39	39	39	
551	5.4	17	45	0.8	12	33	33	33	15	39	39	39	39	39	39	39	39	39	39	39	39	39	
536	5.5	17	45	0.8	12	33	33	33	15	40	40	40	40	40	40	40	40	40	40	40	40	40	
523	5.6	17	45	0.8	12	34	34	34	15	41	41	41	41	41	41	41	41	41	41	41	41	41	
509	5.7	16	45	0.8	12	35	35	35	15	42	42	42	42	42	42	42	42	42	42	42	42	42	
496	5.8	16	45	0.8	12	35	35	35	15	42	42	42	42	42	42	42	42	42	42	42	42	42	
483	5.9	16	45	0.8	12	36	36	36	15	43	43	43	43	43	43	43	43	43	43	43	43	43	
470	6.0	15	45	0.8	12	36	36	36	15	44	44	44	44	44	44	44	44	44	44	44	44	44	
458	6.1	15	45	0.8	12	37	37	37	15	44	44	44	44	44	44	44	44	44	44	44	44	44	
446	6.2	15	45	0.8	12	38	38	38	15	45	45	45	45	45	45	45	45	45	45	45	45	45	
435	6.3	15	45	0.8	12	38	38	38	15	46	46	46	46	46	46	46	46	46	46	46	46	46	
424	6.4	15	45	0.8	12	39	39	39	15	47	47	47	47	47	47	47	47	47	47	47	47	47	
412	6.5	14	45	0.9	14	45	0.6	14	43	0.0	15	47	0.0	22	70	0.0	29	93	0.0	17	54	18	58
402	6.6	14	45	0.9	14	45	0.6	14	44	0.0	15	48	0.0	22	71	0.0	29	94	0.0	17	55	18	59
391	6.7	14	45	0.9	14	45	0.6	14	45	0.0	15	49	0.0	22	72	0.0	29	96	0.0	17	56	18	60
380	6.8	14	45	0.9	14	45	0.6	14	45	0.0	15	49	0.0	22	74	0.0	29	97	0.0	17	57	18	61
370	6.9	14	45	0.9	14	46	0.6	14	46	0.0	15	50	0.0	22	75	0.0	29	100	0.0	17	59	18	63
360	7.0	13	45	0.9	14	47	0.6	14	47	0.0	15	51	0.0	22	76	0.0	29	101	0.0	17	60	18	64
350	7.1	13	45	0.9	14	47	0.6	14	47	0.0	15	52	0.0	22	77	0.0	29	103	0.0	17	61	18	65
340	7.2	13	46	0.9	14	48	0.6	14	48	0.0	15	52	0.0	22	78	0.0	29	104	0.0	17	61	18	65
329	7.3	13	46	0.9	14	49	0.6	14	49	0.0	15	53	0.0	22	79	0.0	29	106	0.0	17	62	18	66
319	7.4	13	47	0.9	14	49	0.6	14	49	0.0	15	54	0.0	22	80	0.0	29	107	0.0	17	63	18	67
309	7.5	13	48	1.0	14	51	0.7	14	50	0.0	15	54	0.0	22	81	0.0	29	108	0.0	17	64	18	68
298	7.6	13	49	1.0	14	51	0.7	14	51	0.0	15	55	0.0	22	83	0.0	29	110	0.0	17	64	18	69
286	7.7	13	50	1.0	14	52	0.7	14	51	0.0	15	56	0.0	22	84	0.0	29	111	0.0	17	65	18	70
274	7.8	13	50	1.0	14	53	0.7	14	52	0.0	15	57	0.0	22	85	0.0	29	113	0.0	17	66	18	71
259	7.9	13	51	1.0	14	53	0.7	14	53	0.0	15	57	0.0	22	86	0.0	29	114	0.0	17	67	18	72
230	8.0	13	52	1.1	14	55	0.8	14	53	0.0	15	58	0.0	22	87	0.0	31	122	0.6	17	68	18	72

NOTE: Lt, Lr & w VALUES IN METERS. LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, Lr, AND w VALUES.

SPECIFICATION REFERENCE

TRANSITION CURVES - RURAL
80 km/h DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION