

DESIGN FACTORS FOR A DESIGN SPEED OF 25 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY -25	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)												INTERCHANGE RAMP												
	WIDTH- 18 FT				WIDTH-20 FT				WIDTH-22 FT				WIDTH-24 FT				WIDTH-48 FT								
	1 e 9'			1 e 10'			1 e 11'			1 e 12'			2 e 12'			16 FT			18 FT						
	RADIUS(FT)	E(%)	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w		
2500	NC	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0.0	0	0	0	0		
1756	2.0	26	0.0	29	29	0.0	32	32	0.0	35	35	0.0	38	38	0.0	40	40	0.0	42	42	0.0	40	40	4.3	
1664	2.1	71	74	2.0	29	30	0.0	32	33	0.0	35	36	0.0	38	39	0.0	40	41	0.0	42	43	0.0	40	41	4.5
1579	2.2	68	74	2.0	29	32	0.0	32	35	0.0	35	38	0.0	40	44	0.0	44	48	0.0	44	48	0.0	40	44	4.8
1502	2.3	65	74	2.0	29	33	0.0	33	37	0.0	35	40	0.0	40	46	0.0	40	46	0.0	40	46	0.0	40	46	5.0
1431	2.4	62	74	2.1	29	35	0.0	32	38	0.0	35	42	0.0	40	48	0.0	40	48	0.0	40	48	0.0	40	48	5.2
1366	2.5	60	74	2.1	29	36	0.0	32	40	0.0	35	43	0.0	40	50	0.0	40	50	0.0	40	50	0.0	40	50	5.4
1306	2.6	57	74	2.1	29	38	0.0	32	41	0.0	35	45	0.0	40	52	0.0	40	52	0.0	40	52	0.0	40	52	5.6
1250	2.7	55	74	2.1	29	39	0.0	32	43	0.0	35	47	0.0	40	54	0.0	40	54	0.0	40	54	0.0	40	54	5.8
1198	2.8	53	74	2.2	29	40	0.0	32	44	0.0	35	48	0.0	40	56	0.0	40	56	0.0	40	56	0.0	40	56	6.0
1149	2.9	52	74	2.2	29	42	0.0	32	46	0.0	35	50	0.0	40	58	0.0	40	58	0.0	40	58	0.0	40	58	6.3
1104	3.0	50	74	2.2	29	43	0.0	32	48	0.0	35	52	0.0	40	60	0.0	40	60	0.0	40	60	0.0	40	60	6.5
1061	3.1	48	74	2.3	29	45	0.0	32	49	0.0	35	54	0.0	40	62	0.0	40	62	0.0	40	62	0.0	40	62	6.7
1021	3.2	47	74	2.3	29	46	0.0	32	51	0.0	35	55	0.0	40	64	0.0	40	64	0.0	40	64	0.0	40	64	6.9
983	3.3	45	74	2.3	29	48	0.0	32	52	0.0	35	57	0.0	40	66	0.0	40	66	0.0	40	66	0.0	40	66	7.1
948	3.4	44	74	2.4	29	49	0.0	32	54	0.0	35	59	0.0	40	68	0.0	40	68	0.0	40	68	0.0	40	68	7.3
914	3.5	43	74	2.4	29	50	0.0	32	55	0.0	35	60	0.0	40	70	0.0	40	70	0.0	40	70	0.0	40	70	7.5
882	3.6	42	74	2.4	29	52	0.0	32	57	0.0	35	62	0.0	40	72	0.0	40	72	0.0	40	72	0.0	40	72	7.8
852	3.7	40	74	2.5	29	53	0.0	32	59	0.0	35	64	0.0	40	74	0.0	40	74	0.0	40	74	0.0	40	74	8.0
823	3.8	39	74	2.5	29	55	0.0	32	60	0.0	35	66	0.0	40	76	0.0	40	76	0.0	40	76	0.0	40	76	8.2
795	3.9	38	74	2.6	29	56	0.0	32	62	0.0	35	67	0.0	40	78	0.0	40	78	0.0	40	78	0.0	40	78	8.4
769	4.0	37	74	2.6	29	58	0.0	32	63	0.0	35	69	0.0	40	80	0.0	40	80	0.0	40	80	0.0	40	80	8.6
744	4.1	37	74	2.6	29	59	0.0	32	65	0.0	35	71	0.0	40	82	0.0	40	82	0.0	40	82	0.0	40	82	8.8
720	4.2	36	74	2.7	29	60	0.0	32	66	0.0	35	72	0.0	40	84	0.0	40	84	0.0	40	84	0.0	40	84	9.0
696	4.3	35	74	2.7	29	62	0.0	32	68	0.0	35	74	0.0	40	86	0.0	40	86	0.0	40	86	0.0	40	86	9.3
674	4.4	34	74	2.7	29	63	0.0	32	70	0.0	35	76	0.0	40	88	0.0	40	88	0.0	40	88	0.0	40	88	9.5
652	4.5	33	74	2.8	29	65	0.0	32	71	0.0	35	78	0.0	40	90	0.0	40	90	0.0	40	90	0.0	40	90	9.7
632	4.6	33	74	2.8	29	66	0.0	32	73	0.0	35	79	0.0	40	92	0.0	40	92	0.0	40	92	0.0	40	92	9.9
612	4.7	32	74	2.9	29	68	0.0	32	74	0.0	35	81	0.0	40	94	0.0	40	94	0.0	40	94	0.0	40	94	10.1
592	4.8	31	74	2.9	29	69	0.0	32	76	0.0	35	83	0.0	40	96	0.0	40	96	0.0	40	96	0.0	40	96	10.3
573	4.9	31	75	2.9	29	70	0.0	32	77	0.0	35	84	0.0	40	98	0.0	40	98	0.0	40	98	0.0	40	98	10.5
555	5.0	30	75	3.0	32	79	2.0	32	79	0.0	35	86	0.0	40	100	0.0	40	100	0.0	40	100	0.0	40	100	10.8
537	5.1	31	77	3.0	32	81	2.0	32	81	0.0	35	88	0.0	40	102	0.0	40	102	0.0	40	102	0.0	40	102	11.0
519	5.2	31	79	3.1	32	83	2.1	32	82	0.0	35	90	0.0	40	104	0.0	40	104	0.0	40	104	0.0	40	104	11.2
502	5.3	31	80	3.1	32	84	2.1	32	84	0.0	35	91	0.0	40	106	0.0	40	106	0.0	40	106	0.0	40	106	11.4
485	5.4	31	82	3.2	32	86	2.2	32	85	0.0	35	93	0.0	40	108	0.0	40	108	0.0	40	108	0.0	40	108	11.6
468	5.5	31	84	3.2	32	88	2.2	32	87	0.0	35	95	0.0	40	110	0.0	40	110	0.0	40	110	0.0	40	110	11.8
452	5.6	31	86	3.3	33	90	2.3	32	88	0.0	35	96	0.0	40	112	0.0	40	112	0.0	40	112	0.0	40	112	12.0
437	5.7	31	88	3.4	33	92	2.4	32	90	0.0	35	98	0.0	40	114	0.0	40	114	0.0	40	114	0.0	40	114	12.3
423	5.8	31	89	3.4	33	93	2.4	32	92	0.0	35	100	0.0	40	116	0.0	40	116	0.0	40	116	0.0	40	116	12.5
409	5.9	31	91	3.5	33	95	2.5	32	93	0.0	35	102	0.0	40	118	0.0	40	118	0.0	40	118	0.0	40	118	12.7
396	6.0	31	93	3.5	33	97	2.5	32	95	0.0	35	103	0.0	40	120	0.0	40	120	0.0	40	120	0.0	40	120	12.9
383	6.1	32	95	3.6	33	99	2.6	32	96	0.0	35	105	0.0	40	122	0.0	40	122	0.0	40	122	0.0	40	122	13.1
371	6.2	32	97	3.7	33	101	2.7	32	98	0.0	35	107	0.0	40	124	0.0	40	124	0.0	40	124	0.0	40	124	13.3
359	6.3	32	98	3.7	33	103	2.7	32	99	0.0	35	108	0.0	40	126	0.0	40	126	0.0	40	126	0.0	40	126	13.5
347	6.4	32	100	3.8	33	105	2.8	32	101	0.0	35	110	0.0	40	128	0.0	40	128	0.0	40	128	0.0	40	128	13.8
336	6.5	32	102	3.9	33	103	2.9	32	103	0.0	35	112	0.0	40	130	0.0	40	130	0.0	40	130	0.0	40	130	14.0
326	6.6	32	104	3.9	33	108	2.9	32	104	0.0	35	114	0.0	40	132	0.0	40	132	0.0	40	132	0.0	40	132	14.2
315	6.7	32	106	4.0	34	111	3.0	35	115	2.0	35	115	0.0	40	134	0.0	40	134	0.0	40	134	0.0	40	134	14.4
305	6.8	32	108	4.1	34	113	3.1	35	118	2.1	35	117	0.0	40	136	0.0	40	136	0.0	40	136	0.0	40	136	14.6
295	6.9	32	110	4.2	34	115	3.2	35	120	2.2	35	119	0.0	40	138	0.0	40	138	0.0	40	138	0.0	40	138	14.8
286	7.0	32	111	4.2	34	116	3.2	35	121	2.2	35	120	0.0	40	140	0.0	40	140	0.0	40	140	0.0	40	140	15.0
276	7.1	33	114	4.3	34	119	3.3	35	124	2.3	35	122	0.0	40	142	0.0	40	142	0.0	40	142	0.0	40	142	15.3
267	7.2	33	116	4.4	34	121	3.4	35	126	2.4	35	124	0.0	40	144	0.0	40	144	0.0	40	144	0.0	40	144	15.5
258	7.3	33	118	4.5	34	123	3.5	36	128	2.5	35	126	0.0	40	146	0.0	40	146	0.0	40	146	0.0	40	146	15.7
248	7.4	33	120	4.6	34	125	3.6	36	131	2.6	35	129	0.0	40	148	0.0	40	148	0.0	40	148	0.0	40	148	15.9
239	7.5	33	122	4.7	34	127	3.7	36	133	2.7	35	129	0.0	40	150	0.0	40	150	0.0	40	150	0.0	40	150	16.1
229	7.6	33	124	4.8	35	130	3.8	36	135	2.8	35	131	0.0	40	152	0.0	40	152	0.0	40	152	0.0	40	152	16.3
219	7.7	33	127	5.0	35	132	4.0	36	138	3.0	38	143	2.0	40	154	0.0	40	154	0.0	40	154	0.0	40	154	16.5
209	7.8																								