

**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						16 FT						18 FT					
	1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			1 @ 12'			2 @ 12'			2 @ 12'			16 FT			18 FT																	
	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	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	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	44	44	0.0	46	46	0.0	48	48	0.0												
1664	2.1	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	44	45	0.0	46	47	0.0	48	49	0.0												
1579	2.2	68	74	2.0	29	32	0.0	32	35	0.0	35	38	0.0	38	41	0.0	40	43	0.0	42	45	0.0	44	47	0.0	46	49	0.0	48	51	0.0											
1502	2.3	65	74	2.0	29	33	0.0	33	37	0.0	35	40	0.0	38	43	0.0	40	45	0.0	42	47	0.0	44	49	0.0	46	51	0.0	48	53	0.0											
1431	2.4	62	74	2.1	29	35	0.0	32	38	0.0	35	42	0.0	38	45	0.0	40	48	0.0	42	50	0.0	44	52	0.0	46	54	0.0	48	57	0.0											
1366	2.5	60	74	2.1	29	36	0.0	32	40	0.0	35	43	0.0	38	46	0.0	40	49	0.0	42	51	0.0	44	52	0.0	46	55	0.0	48	60	0.0											
1306	2.6	57	74	2.1	29	38	0.0	32	41	0.0	35	45	0.0	38	47	0.0	40	50	0.0	42	51	0.0	44	53	0.0	46	56	0.0	48	62	0.0											
1250	2.7	55	74	2.1	29	39	0.0	32	43	0.0	35	47	0.0	38	49	0.0	40	51	0.0	42	52	0.0	44	54	0.0	46	57	0.0	48	63	0.0											
1198	2.8	53	74	2.2	29	40	0.0	32	44	0.0	35	48	0.0	38	50	0.0	40	52	0.0	42	53	0.0	44	55	0.0	46	58	0.0	48	65	0.0											
1149	2.9	52	74	2.2	29	42	0.0	32	46	0.0	35	50	0.0	38	52	0.0	40	53	0.0	42	54	0.0	44	56	0.0	46	60	0.0	48	67	0.0											
1104	3.0	50	74	2.2	29	43	0.0	32	48	0.0	35	52	0.0	38	54	0.0	40	54	0.0	42	55	0.0	44	57	0.0	46	61	0.0	48	69	0.0											
1061	3.1	48	74	2.3	29	45	0.0	32	49	0.0	35	54	0.0	38	56	0.0	40	55	0.0	42	56	0.0	44	58	0.0	46	62	0.0	48	71	0.0											
1021	3.2	47	74	2.3	29	46	0.0	32	51	0.0	35	55	0.0	38	57	0.0	40	56	0.0	42	57	0.0	44	59	0.0	46	63	0.0	48	73	0.0											
983	3.3	45	74	2.3	29	48	0.0	32	52	0.0	35	57	0.0	38	59	0.0	40	57	0.0	42	58	0.0	44	60	0.0	46	64	0.0	48	75	0.0											
948	3.4	44	74	2.4	29	49	0.0	32	54	0.0	35	59	0.0	38	60	0.0	40	58	0.0	42	59	0.0	44	61	0.0	46	65	0.0	48	77	0.0											
914	3.5	43	74	2.4	29	50	0.0	32	55	0.0	35	60	0.0	38	62	0.0	40	59	0.0	42	60	0.0	44	62	0.0	46	66	0.0	48	79	0.0											
882	3.6	42	74	2.4	29	52	0.0	32	57	0.0	35	62	0.0	38	64	0.0	40	60	0.0	42	61	0.0	44	63	0.0	46	67	0.0	48	81	0.0											
852	3.7	40	74	2.5	29	53	0.0	32	59	0.0	35	64	0.0	38	66	0.0	40	61	0.0	42	62	0.0	44	64	0.0	46	68	0.0	48	83	0.0											
823	3.8	39	74	2.5	29	55	0.0	32	60	0.0	35	66	0.0	38	67	0.0	40	62	0.0	42	63	0.0	44	65	0.0	46	69	0.0	48	85	0.0											
795	3.9	38	74	2.6	29	56	0.0	32	62	0.0	35	67	0.0	38	69	0.0	40	63	0.0	42	64	0.0	44	66	0.0	46	70	0.0	48	87	0.0											
769	4.0	37	74	2.6	29	58	0.0	32	63	0.0	35	69	0.0	38	71	0.0	40	64	0.0	42	65	0.0	44	67	0.0	46	71	0.0	48	89	0.0											
744	4.1	37	74	2.6	29	59	0.0	32	65	0.0	35	71	0.0	38	72	0.0	40	65	0.0	42	66	0.0	44	68	0.0	46	72	0.0	48	91	0.0											
720	4.2	36	74	2.7	29	60	0.0	32	66	0.0	35	72	0.0	38	74	0.0	40	66	0.0	42	67	0.0	44	69	0.0	46	73	0.0	48	93	0.0											
696	4.3	35	74	2.7	29	62	0.0	32	68	0.0	35	74	0.0	38	76	0.0	40	67	0.0	42	68	0.0	44	70	0.0	46	74	0.0	48	95	0.0											
674	4.4	34	74	2.7	29	63	0.0	32	70	0.0	35	76	0.0	38	78	0.0	40	68	0.0	42	69	0.0	44	71	0.0	46	75	0.0	48	97	0.0											
652	4.5	33	74	2.8	29	65	0.0	32	71	0.0	35	78	0.0	38	80	0.0	40	69	0.0	42	70	0.0	44	72	0.0	46	76	0.0	48	99	0.0											
632	4.6	33	74	2.8	29	66	0.0	32	73	0.0	35	79	0.0	38	81	0.0	40	70	0.0	42	71	0.0	44	73	0.0	46	77	0.0	48	101	0.0											
612	4.7	32	74	2.9	29	68	0.0	32	74	0.0	35	81	0.0	38	83	0.0	40	71	0.0	42	72	0.0	44	74	0.0	46	78	0.0	48	103	0.0											
592	4.8	31	74	2.9	29	69	0.0	32	76	0.0	35	83	0.0	38	85	0.0	40	72	0.0	42	73	0.0	44	75	0.0	46	79	0.0	48	105	0.0											
573	4.9	31	75	2.9	29	70	0.0	32	77	0.0	35	84	0.0	38	86	0.0	40	73	0.0	42	74	0.0	44	76	0.0	46	80	0.0	48	107	0.0											
555	5.0	30	75	3.0	32	79	2.0	32	79	0.0	35	86	0.0	38	88	0.0	40	74	0.0	42	75	0.0	44	77	0.0	46	81	0.0	48	109	0.0											
537	5.1	31	77	3.0	32	81	2.0	32	81	0.0	35	88	0.0	38	90	0.0	40	75	0.0	42	76	0.0	44	78	0.0	46	82	0.0	48	111	0.0											
519	5.2	31	79	3.1	32	83	2.1	32	82	0.0	35	90	0.0	38	91	0.0	40	76	0.0	42	77	0.0	44	79	0.0	46	83	0.0	48	113	0.0											
502	5.3	31	80	3.1	32	84	2.1	32	84	0.0	35	91	0.0	38	93	0.0	40	77	0.0	42	78	0.0	44	80	0.0	46	84	0.0	48	115	0.0											
485	5.4	31	82	3.2	32	86	2.2	32	85	0.0	35	93	0.0	38	95	0.0	40	78	0.0	42	79	0.0	44	81	0.0	46	85	0.0	48	117	0.0											
468	5.5	31	84	3.2	32	88	2.2	32	87	0.0	35	95	0.0	38	97	0.0	40	79	0.0	42	80	0.0	44	82	0.0	46	86	0.0	48	119	0.0											
452	5.6	31	86	3.3	33	90	2.3	32	88	0.0	35	96	0.0	38	99	0.0	40	80	0.0	42	81	0.0	44	83	0.0	46	87	0.0	48	121	0.0											
437	5.7	31	88	3.4	33	92	2.4	32	90	0.0	35	98	0.0	38	100	0.0	40	81	0.0	42	82	0.0	44	84	0.0	46	88	0.0	48	123	0.0											
423	5.8	31	89	3.4	33	93	2.4	32	92	0.0	35	100	0.0	38	102	0.0	40	82	0.0	42	83	0.0	44	85	0.0	46	89	0.0	48	125	0.0											
409	5.9	31	91	3.5	33	95	2.5	32	93	0.0	35	102	0.0	38	104	0.0	40	83	0.0	42	84	0.0	44	86	0.0	46	90	0.0	48	127	0.0											
396	6.0	31	93	3.5	33	97	2.5	32	95	0.0	35	103	0.0	38	106	0.0	40	84	0.0	42	85	0.0	44	87	0.0	46	91	0.0	48	129	0.0											
383	6.1	32	95	3.6	33	99	2.6	32	96	0.0	35	105	0.0	38	108	0.0	40	85	0.0	42	86	0.0	44	88	0.0	46	92	0.0	48	131	0.0											
371	6.2	32	97	3.7	33	101	2.7	32	98	0.0	35	107	0.0	38	110	0.0	40	86	0.0	42	87	0.0	44	89	0.0	46	93	0.0	48	133	0.0											
359	6.3	32	98	3.7	33	103	2.7	32	99	0.0	35	108	0.0	38	112	0.0	40	87	0.0	42	88	0.0	44	90	0.0	46	94	0.0	48	135	0.0											
347	6.4	32	100	3.8	33	105	2.8	32	101	0.0	35	110	0.0	38	114	0.0	40	88	0.0	42	89	0.0	44	91	0.0	46	95	0.0	48	137	0.0											
336	6.5	32	102	3.8	33	103	2.9	32	103	0.0	35	112	0.0	38	116	0.0	40	89	0.0	42	90	0.0	44	92	0.0	46	96	0.0	48	139	0.0											
326	6.6	32	104	3.9	33	108	2.9	32	104	0.0	35	114	0.0	38	118	0.0	40	90	0.0	42	91	0.0	44	93	0.0	46	97	0.0	48	141	0.0											
315	6.7	32	106	4.0	34	111	3.0	35	115	0.0	35	115	0.0	38	120	0.0	40	91	0.0	42	92	0.0	44																			