

DESIGN FACTORS FOR A DESIGN SPEED OF 20 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY -20 RADIUS(FT)	WIDTH- 18 FT			WIDTH-20 FT			WIDTH-22 FT			WIDTH-24 FT			WIDTH-24 FT			WIDTH-48 FT			INTERCHANGE RAMPS															
	DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)									DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)									DESIGN SOFTWARE EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)															
	1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			1 @ 12'			2 @ 12'			16 FT			18 FT												
E(%)	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	
1800	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	0	0	0	
1213	2.0	59	59	2.0	28	28	0.0	30	30	0.0	33	33	0.0	33	33	0.0	49	49	0.0	39	39	0.0	39	39	0.0	41	41	0.0	39	39	0.0	41	41	0.0
1148	2.1	57	59	2.1	28	29	0.0	30	32	0.0	33	35	0.0	33	35	0.0	49	52	0.0	39	40	0.0	39	40	0.0	41	43	0.0	39	40	0.0	41	43	0.0
1090	2.2	54	59	2.1	28	30	0.0	30	33	0.0	33	36	0.0	33	36	0.0	49	54	0.0	39	42	0.0	39	42	0.0	41	45	0.0	39	44	0.0	41	47	0.0
1036	2.3	52	59	2.1	28	32	0.0	30	35	0.0	33	38	0.0	33	38	0.0	49	56	0.0	39	44	0.0	39	44	0.0	41	47	0.0	39	44	0.0	41	47	0.0
987	2.4	50	59	2.2	28	33	0.0	30	36	0.0	33	39	0.0	33	39	0.0	49	59	0.0	39	46	0.0	39	46	0.0	41	49	0.0	39	46	0.0	41	49	0.0
941	2.5	48	59	2.2	28	34	0.0	30	38	0.0	33	41	0.0	33	41	0.0	49	61	0.0	39	48	0.0	39	48	0.0	41	51	0.0	39	48	0.0	41	51	0.0
899	2.6	46	59	2.3	28	36	0.0	30	39	0.0	33	43	0.0	33	43	0.0	49	64	0.0	39	50	0.0	39	50	0.0	41	53	0.0	39	52	0.0	41	55	0.0
860	2.7	44	59	2.3	28	37	0.0	30	41	0.0	33	44	0.0	33	44	0.0	49	66	0.0	39	52	0.0	39	52	0.0	41	55	0.0	39	52	0.0	41	55	0.0
824	2.8	43	59	2.3	28	38	0.0	30	42	0.0	33	46	0.0	33	46	0.0	49	69	0.0	39	54	0.0	39	54	0.0	41	57	0.0	39	54	0.0	41	57	0.0
790	2.9	41	59	2.4	28	40	0.0	30	44	0.0	33	48	0.0	33	48	0.0	49	71	0.0	39	56	0.0	39	56	0.0	41	59	0.0	39	56	0.0	41	59	0.0
759	3.0	40	59	2.4	28	41	0.0	30	45	0.0	33	49	0.0	33	49	0.0	49	73	0.0	39	58	0.0	39	58	0.0	41	61	0.0	39	58	0.0	41	61	0.0
729	3.1	39	59	2.5	28	42	0.0	30	47	0.0	33	51	0.0	33	51	0.0	49	76	0.0	39	60	0.0	39	60	0.0	41	63	0.0	39	60	0.0	41	63	0.0
701	3.2	37	59	2.5	28	44	0.0	30	48	0.0	33	52	0.0	33	52	0.0	49	78	0.0	39	61	0.0	39	61	0.0	41	65	0.0	39	61	0.0	41	65	0.0
674	3.3	36	59	2.5	28	45	0.0	30	50	0.0	33	54	0.0	33	54	0.0	49	81	0.0	39	63	0.0	39	63	0.0	41	67	0.0	39	63	0.0	41	67	0.0
650	3.4	35	59	2.6	28	46	0.0	30	51	0.0	33	56	0.0	33	56	0.0	49	83	0.0	39	65	0.0	39	65	0.0	41	69	0.0	39	65	0.0	41	69	0.0
626	3.5	34	59	2.6	28	48	0.0	30	53	0.0	33	57	0.0	33	57	0.0	49	86	0.0	39	67	0.0	39	67	0.0	41	71	0.0	39	67	0.0	41	71	0.0
604	3.6	33	59	2.7	28	49	0.0	30	54	0.0	33	59	0.0	33	59	0.0	49	88	0.0	39	69	0.0	39	69	0.0	41	73	0.0	39	69	0.0	41	73	0.0
582	3.7	32	59	2.7	28	50	0.0	30	55	0.0	33	60	0.0	33	60	0.0	49	90	0.0	39	71	0.0	39	71	0.0	41	75	0.0	39	71	0.0	41	75	0.0
562	3.8	32	59	2.8	28	52	0.0	30	57	0.0	33	62	0.0	33	62	0.0	49	93	0.0	39	73	0.0	39	73	0.0	41	77	0.0	39	73	0.0	41	77	0.0
543	3.9	31	59	2.8	28	53	0.0	30	58	0.0	33	64	0.0	33	64	0.0	49	95	0.0	39	75	0.0	39	75	0.0	41	79	0.0	39	75	0.0	41	79	0.0
524	4.0	30	59	2.9	28	55	0.0	30	60	0.0	33	66	0.0	33	66	0.0	49	98	0.0	39	77	0.0	39	77	0.0	41	81	0.0	39	77	0.0	41	81	0.0
506	4.1	29	59	2.9	28	56	0.0	30	61	0.0	33	67	0.0	33	67	0.0	49	100	0.0	39	79	0.0	39	79	0.0	41	83	0.0	39	79	0.0	41	83	0.0
489	4.2	29	60	3.0	30	63	2.0	30	63	0.0	33	69	0.0	33	69	0.0	49	103	0.0	39	80	0.0	39	80	0.0	41	85	0.0	39	80	0.0	41	85	0.0
473	4.3	29	62	3.0	30	64	2.0	30	64	0.0	33	70	0.0	33	70	0.0	49	105	0.0	39	82	0.0	39	82	0.0	41	87	0.0	39	82	0.0	41	87	0.0
457	4.4	29	63	3.0	30	66	2.0	30	66	0.0	33	72	0.0	33	72	0.0	49	108	0.0	39	84	0.0	39	84	0.0	41	89	0.0	39	84	0.0	41	89	0.0
442	4.5	29	65	3.1	31	68	2.1	30	67	0.0	33	73	0.0	33	73	0.0	49	110	0.0	39	86	0.0	39	86	0.0	41	92	0.0	39	86	0.0	41	92	0.0
427	4.6	29	66	3.2	30	69	2.2	30	69	0.0	33	75	0.0	33	75	0.0	49	112	0.0	39	88	0.0	39	88	0.0	41	94	0.0	39	88	0.0	41	94	0.0
413	4.7	29	68	3.2	31	71	2.2	30	70	0.0	33	77	0.0	33	77	0.0	49	115	0.0	39	90	0.0	39	90	0.0	41	96	0.0	39	90	0.0	41	96	0.0
399	4.8	30	70	3.3	31	73	2.3	30	72	0.0	33	78	0.0	33	78	0.0	49	117	0.0	39	92	0.0	39	92	0.0	41	98	0.0	39	92	0.0	41	98	0.0
385	4.9	29	71	3.3	31	74	2.3	30	73	0.0	33	80	0.0	33	80	0.0	49	120	0.0	39	94	0.0	39	94	0.0	41	100	0.0	39	94	0.0	41	100	0.0
372	5.0	30	73	3.4	31	76	2.4	30	75	0.0	33	82	0.0	33	82	0.0	49	122	0.0	39	96	0.0	39	96	0.0	41	102	0.0	39	96	0.0	41	102	0.0
358	5.1	30	75	3.5	31	78	2.5	30	76	0.0	33	83	0.0	33	83	0.0	49	125	0.0	39	98	0.0	39	98	0.0	41	104	0.0	39	98	0.0	41	104	0.0
345	5.2	30	76	3.5	31	80	2.5	30	78	0.0	33	85	0.0	33	85	0.0	49	127	0.0	39	100	0.0	39	100	0.0	41	106	0.0	39	100	0.0	41	106	0.0
332	5.3	30	78	3.6	31	81	2.6	30	79	0.0	33	86	0.0	33	86	0.0	49	129	0.0	39	101	0.0	39	101	0.0	41	108	0.0	39	101	0.0	41	108	0.0
320	5.4	30	80	3.7	31	83	2.7	30	81	0.0	33	88	0.0	33	88	0.0	49	132	0.0	39	103	0.0	39	103	0.0	41	110	0.0	39	103	0.0	41	110	0.0
308	5.5	30	82	3.8	31	85	2.8	30	82	0.0	33	90	0.0	33	90	0.0	49	134	0.0	39	105	0.0	39	105	0.0	41	112	0.0	39	105	0.0	41	112	0.0
297	5.6	30	83	3.9	32	87	2.9	30	84	0.0	33	91	0.0	33	91	0.0	49	137	0.0	39	107	0.0	39	107	0.0	41	114	0.0	39	107	0.0	41	114	0.0
286	5.7	30	85	3.9	32	89	2.9	30	85	0.0	33	93	0.0	33	93	0.0	49	139	0.0	39	109	0.0	39	109	0.0	41	116	0.0	39	109	0.0	41	116	0.0
276	5.8	30	87	4.0	32	91	3.0	30	86	0.0	33	95	0.0	33	95	0.0	49	141	0.0	39	111	0.0	39	111	0.0	41	118	0.0	39	111	0.0	41	118	0.0
266	5.9	31	89	4.1	32	93	3.1	30	88	0.0	33	97	0.0	33	97	0.0	49	143	0.0	39	113	0.0	39	113	0.0	41	120	0.0	39	113	0.0	41	120	0.0
258	6.0	30	90	4.2	32	95	3.2	30	90	0.0	33	99	0.0	33	99	0.0	49	145	0.0	39	115	0.0	39	115	0.0	41	122	0.0	39	115	0.0	41	122	0.0
248	6.1	31	92	4.3	32	97	3.3	34	101	2.3	33	99	0.0	33	99	0.0	55	165	2.6	39	117	0.0	39	117	0.0	41	124	0.0	39	117	0.0	41	124	0.0
240	6.2	31	94	4.4	32	99	3.4	34	103	2.4	33	101	0.0	33	101	0.0	55	169	2.8	39	119	0.0	39	119	0.0	41	126	0.0	39	119	0.0	41	126	0.0
232	6.3	31	96	4.5	33	101	3.5																											