

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

DESIGN VELOCITY=25		WIDTH-16 FT			WIDTH-18 FT			WIDTH-20 FT			WIDTH-22 FT			WIDTH-24 FT			WIDTH-48 FT		
		IGRDS EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)																	
		1 @ 8'			1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			2 @ 12'		
RADIUS(FT)	E(%)	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w
20000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
15000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
10000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
7000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
5000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
4000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
3000	2.1	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
2500	2.1	18	80	3.7	19	80	2.7	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
2250	2.1	17	80	3.8	19	80	2.8	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
2000	2.1	17	80	3.9	19	80	2.9	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
1750	2.1	17	80	3.9	19	80	2.9	80	80	0.0	80	80	0.0	80	80	0.0	80	80	0.0
1500	2.4	17	80	4.0	18	80	3.0	20	80	2.0	70	80	0.0	70	80	0.0	70	80	0.0
1300	2.7	17	80	4.1	18	80	3.1	20	80	2.1	63	80	0.0	63	80	0.0	63	80	0.0
1150	2.9	17	80	4.2	18	80	3.2	19	80	2.2	58	80	0.0	58	80	0.0	58	80	0.0
1000	3.3	17	80	4.3	18	80	3.3	19	80	2.3	51	80	0.0	51	80	0.0	64	100	0.0
900	3.6	17	80	4.4	18	80	3.4	19	80	2.4	47	80	0.0	47	80	0.0	59	100	0.0
800	3.9	17	80	4.5	18	80	3.5	19	80	2.5	44	80	0.0	44	80	0.0	54	100	0.0
750	4.1	17	80	4.6	18	80	3.6	19	80	2.6	41	80	0.0	41	80	0.0	62	120	0.0
700	4.3	17	80	4.7	18	80	3.7	19	80	2.7	40	80	0.0	40	80	0.0	59	120	0.0
650	4.6	17	80	4.8	18	80	3.8	19	80	2.8	37	80	0.0	37	80	0.0	55	120	0.0
600	4.8	17	80	4.9	18	80	3.9	19	80	2.9	35	80	0.0	44	100	0.0	62	140	0.0
550	5.1	16	80	5.0	18	80	4.0	23	100	3.0	25	100	2.0	42	100	0.0	36	140	2.0
500	5.3	20	80	5.1	22	100	4.1	23	100	3.1	24	100	2.1	39	100	0.0	41	160	2.2
475	5.5	20	100	5.2	22	100	4.2	23	100	3.2	24	100	2.2	39	100	0.0	40	160	2.4
450	5.7	20	100	5.3	22	100	4.3	23	100	3.3	24	100	2.3	37	100	0.0	40	160	2.6
425	5.8	20	100	5.4	22	100	4.4	23	100	3.4	24	100	2.4	37	100	0.0	40	160	2.8
400	6.0	20	100	5.5	21	100	4.5	23	100	3.5	29	120	2.5	42	120	0.0	45	180	3.0
375	6.2	20	100	5.6	21	100	4.6	27	120	3.6	29	120	2.6	41	120	0.0	45	180	3.2
350	6.4	20	100	5.8	25	120	4.8	27	120	3.8	28	120	2.8	40	120	0.0	44	180	3.6
325	6.7	24	120	5.9	25	120	4.9	27	120	3.9	28	120	2.9	38	120	0.0	49	200	3.8
300	6.9	23	120	6.1	25	120	5.1	27	120	4.1	33	140	3.1	34	140	2.1	49	200	4.2
280	7.1	23	120	6.3	25	120	5.3	31	140	4.3	32	140	3.3	34	140	2.3	48	200	4.6
265	7.3	23	120	6.4	29	140	5.4	31	140	4.4	32	140	3.4	34	140	2.4	53	220	4.8
250	7.4	23	120	6.6	29	140	5.6	30	140	4.6	32	140	3.6	34	140	2.6	53	220	5.2
235	7.6	26	140	6.8	28	140	5.8	30	140	4.8	32	140	3.8	38	160	2.8	52	220	5.6
220	7.7	26	140	7.0	28	140	6.0	30	140	5.0	36	160	4.0	38	160	3.0	52	220	6.0
205	7.9	26	140	7.2	28	140	6.2	34	160	5.2	36	160	4.2	38	160	3.2	56	240	6.4
190	8.0	26	140	7.4	28	140	6.4	34	160	5.4	35	160	4.4	37	160	3.4	56	240	6.8
175	8.0	25	140	7.7	27	140	6.7	33	160	5.7	35	160	4.7	37	160	3.7	55	240	7.4
171	8.0	25	140	7.8	27	140	6.8	33	160	5.8	35	160	4.8	37	160	3.8	55	240	7.6

NOTE:
CR, LS & w VALUES IN FEET.

⊗ MINIMUM ALLOWABLE RADIUS