

DESIGN FACTORS FOR A DESIGN SPEED OF 30 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY-30		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	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
15000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
10000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
7000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
5000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
4000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
3000	2.1	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
2500	2.1	22	100	3.8	23	100	2.8	100	100	0.0	100	100	0.0	100	100	0.0	100	100	0.0
2250	2.2	22	100	3.9	23	100	2.9	96	100	0.0	96	100	0.0	96	100	0.0	96	100	0.0
2000	2.4	21	100	4.0	23	100	3.0	24	100	2.0	88	100	0.0	88	100	0.0	88	100	0.0
1750	2.7	21	100	4.0	23	100	3.0	24	100	2.0	78	100	0.0	78	100	0.0	78	100	0.0
1500	3.1	21	100	4.1	23	100	3.1	24	100	2.1	68	100	0.0	68	100	0.0	68	100	0.0
1300	3.5	21	100	4.3	23	100	3.3	24	100	2.3	60	100	0.0	60	100	0.0	60	100	0.0
1150	3.8	21	100	4.4	23	100	3.4	24	100	2.4	56	100	0.0	56	100	0.0	67	120	0.0
1000	4.2	21	100	4.5	22	100	3.5	24	100	2.5	50	100	0.0	50	100	0.0	60	120	0.0
900	4.6	21	100	4.6	22	100	3.6	24	100	2.6	46	100	0.0	46	100	0.0	64	140	0.0
800	4.9	21	100	4.7	22	100	3.7	24	100	2.7	43	100	0.0	43	100	0.0	60	140	0.0
750	5.2	21	100	4.8	22	100	3.8	24	100	2.8	41	100	0.0	41	100	0.0	57	140	0.0
700	5.4	21	100	4.9	22	100	3.9	23	100	2.9	39	100	0.0	39	100	0.0	63	160	0.0
650	5.6	20	100	5.0	22	100	4.0	23	100	3.0	29	120	2.0	45	120	0.0	60	160	2.0
600	5.9	20	100	5.1	22	100	4.1	28	120	3.1	29	120	2.1	43	120	0.0	46	180	2.2
550	6.1	20	100	5.2	26	120	4.2	28	120	3.2	29	120	2.2	42	120	0.0	45	180	2.4
500	6.4	24	120	5.4	26	120	4.4	27	120	3.4	29	120	2.4	40	120	0.0	50	200	2.8
475	6.6	24	120	5.5	26	120	4.5	27	120	3.5	33	140	2.5	39	120	0.0	50	200	3.0
450	6.8	24	120	5.5	26	120	4.5	27	120	3.5	33	140	2.5	44	140	0.0	50	200	3.0
425	7.0	24	120	5.7	25	120	4.7	32	140	3.7	33	140	2.7	42	140	0.0	54	220	3.4
400	7.1	24	120	5.8	30	140	4.8	31	140	3.8	33	140	2.8	42	140	0.0	54	220	3.6
375	7.3	24	120	5.9	29	140	4.9	31	140	3.9	33	140	2.9	41	140	0.0	54	220	3.8
350	7.5	27	140	6.0	29	140	5.0	31	140	4.0	33	140	3.0	39	160	2.0	54	220	4.0
325	7.7	27	140	6.2	29	140	5.2	30	140	4.2	37	160	3.2	39	160	2.2	58	240	4.4
300	7.9	27	140	6.4	29	140	5.4	35	160	4.4	37	160	3.4	39	160	2.4	58	240	4.8
280	8.0	27	140	6.6	33	160	5.6	35	160	4.6	37	160	3.6	38	160	2.6	57	240	5.2
265	8.0	26	140	6.7	32	160	5.7	35	160	4.7	36	160	3.7	38	160	2.7	57	240	5.4
⊕ 250	8.0	26	140	6.9	32	160	5.9	34	160	4.9	36	160	3.9	43	180	2.9	61	260	5.8

NOTE:
CR, LS & w VALUES IN FEET.

⊕ MINIMUM ALLOWABLE RADIUS