

DESIGN FACTORS FOR A DESIGN SPEED OF 40 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY=40		WIDTH=18 FT			WIDTH=20 FT			WIDTH=22 FT			WIDTH=24 FT			WIDTH=48 FT			WIDTH=72 FT		
		IGRDS EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)																	
		1 @ 9'			1 @ 10'			1 @ 11'			1 @ 12'			2 @ 12'			3 @ 12'		
RADIUS(FT)	E(%)	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w	Lt	Lr	w
20000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
15000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
10000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
7000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
5000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
4000	2.1	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0	120	120	0.0
3000	2.6	97	120	0.0	97	120	0.0	97	120	0.0	97	120	0.0	97	120	0.0	97	120	0.0
2500	3.1	27	120	3.0	29	120	2.0	82	120	0.0	82	120	0.0	82	120	0.0	95	140	0.0
2250	3.4	27	120	3.1	29	120	2.0	75	120	0.0	75	120	0.0	75	120	0.0	99	160	0.0
2000	3.7	27	120	3.2	29	120	2.2	69	120	0.0	69	120	0.0	69	120	0.0	91	160	0.0
1750	4.1	27	120	3.3	29	120	2.3	62	120	0.0	62	120	0.0	72	140	0.0	93	180	0.0
1500	4.6	27	120	3.4	29	120	2.4	55	120	0.0	55	120	0.0	74	160	0.0	92	200	0.0
1300	5.1	27	120	3.5	28	120	2.5	50	120	0.0	50	120	0.0	66	160	0.0	91	220	0.0
1150	5.5	27	120	3.7	28	120	2.7	45	120	0.0	45	120	0.0	68	180	0.0	90	240	0.0
1000	6.0	27	120	3.8	28	120	2.8	42	120	0.0	49	140	0.0	70	200	0.0	91	270	0.0
900	6.4	31	140	3.9	33	140	2.9	46	140	0.0	46	140	0.0	66	200	0.0	92	280	0.0
800	6.8	30	140	4.1	32	140	3.1	39	160	2.0	50	160	0.0	61	240	2.2	76	300	3.3
750	7.0	30	140	4.2	32	140	3.2	39	160	2.2	48	160	0.0	60	240	2.4	80	340	3.6
700	7.3	34	160	4.3	37	160	3.3	39	160	2.3	47	160	0.0	60	240	2.6	80	340	3.9
650	7.5	34	160	4.4	36	160	3.4	38	160	2.4	45	160	0.0	65	270	2.8	85	340	4.2
600	7.7	34	160	4.5	36	160	3.5	43	180	2.5	44	160	0.0	65	270	3.0	84	340	4.5
550	7.9	34	160	4.6	41	180	3.6	43	180	2.6	48	180	0.0	69	280	3.2	89	360	4.8
500	8.0	34	160	4.8	40	180	3.8	42	180	2.8	48	180	0.0	69	280	3.6	88	360	5.4
475	8.0	34	160	4.9	40	180	3.9	42	180	2.9	48	180	0.0	69	280	3.8	88	360	5.7
⊗ 465	8.0	33	160	5.0	40	180	4.0	42	180	3.0	44	180	2.0	68	280	4.0	88	360	6.0

NOTE:

Lt, Lr & w VALUES IN FEET.

⊗ MINIMUM ALLOWABLE RADIUS

FOR PAVEMENT WIDTHS GREATER THAN 72 FEET  
USE Lr VALUES DEVELOPED BY IGRDS.