

DESIGN FACTORS FOR A DESIGN SPEED OF 20 MPH  
(URBAN) USING E= 4% MAX.

RADIUS (FEET)	E (%)	PAVEMENT WIDTH											
		24 FT		36 FT		48 FT		60 FT		66 FT		72 FT	
		IGRDS EQUIVALENTS (NUMBER OF LANES AT LANE WIDTH)											
		1 @ 12'		1.5 @ 12'		2 @ 12'		3 @ 10'		3 @ 11'		3 @ 12'	
		Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr	Lt	Lr
20000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
15000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
10000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
7000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
5000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
4000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
3000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
2500	2.1	100	100	100	100	100	100	100	100	100	100	100	100
2250	2.1	100	100	100	100	100	100	100	100	100	100	100	100
2000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
1750	2.1	100	100	100	100	100	100	100	100	100	100	100	100
1500	2.1	100	100	100	100	100	100	100	100	100	100	100	100
1300	2.1	100	100	100	100	100	100	100	100	100	100	100	100
1150	2.1	100	100	100	100	100	100	100	100	100	100	100	100
1000	2.1	100	100	100	100	100	100	100	100	100	100	100	100
900	2.1	100	100	100	100	100	100	100	100	100	100	100	100
800	2.3	92	100	92	100	92	100	92	100	92	100	92	100
750	2.3	92	100	92	100	92	100	92	100	92	100	92	100
700	2.4	88	100	88	100	88	100	88	100	88	100	88	100
650	2.5	84	100	84	100	84	100	84	100	84	100	84	100
600	2.5	84	100	84	100	84	100	84	100	84	100	84	100
550	2.6	81	100	81	100	81	100	81	100	81	100	81	100
500	2.7	78	100	78	100	78	100	78	100	78	100	78	100
475	2.7	78	100	78	100	78	100	78	100	78	100	78	100
450	2.8	75	100	75	100	75	100	75	100	75	100	75	100
425	2.8	75	100	75	100	75	100	75	100	75	100	75	100
400	2.9	73	100	73	100	73	100	73	100	73	100	73	100
375	3.0	70	100	70	100	70	100	70	100	70	100	70	100
350	3.1	68	100	68	100	68	100	68	100	68	100	68	100
325	3.1	68	100	68	100	68	100	68	100	68	100	68	100
300	3.2	66	100	66	100	66	100	66	100	66	100	79	120
280	3.3	64	100	64	100	64	100	64	100	64	100	77	120
265	3.4	62	100	62	100	62	100	62	100	62	100	75	120
250	3.5	60	100	60	100	60	100	60	100	72	120	72	120
235	3.5	60	100	60	100	60	100	60	100	72	120	72	120
220	3.6	59	100	59	100	59	100	59	100	70	120	70	120
205	3.7	57	100	57	100	57	100	57	100	69	120	69	120
190	3.8	56	100	56	100	56	100	67	120	67	120	78	140
175	3.9	54	100	54	100	54	100	65	120	65	120	76	140
160	3.9	54	100	54	100	54	100	65	120	65	120	76	140
145	4.0	53	100	53	100	53	100	63	120	63	120	74	140
130	4.0	53	100	53	100	53	100	63	120	63	120	74	140
⊗127	4.0	53	100	53	100	53	100	63	120	63	120	74	140

NOTE:

Lt AND Lr VALUES IN FEET.

FOR PAVEMENT WIDTHS GREATER THAN 72 FEET  
USE Lr VALUES DEVELOPED BY IGRDS WITH AN  
ABSOLUTE MINIMUM Lr OF 100 FEET.

⊗ MINIMUM ALLOWABLE RADIUS