

**DESIGN FACTORS FOR A DESIGN SPEED OF 40 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	Lt	Lr		
20000	2.1	120	120	120	120	120	120	120	120	120	120	120	120	120	
15000	2.1	120	120	120	120	120	120	120	120	120	120	120	120	120	
10000	2.1	120	120	120	120	120	120	120	120	120	120	120	120	120	
7000	2.1	120	120	120	120	120	120	120	40	120	120	120	120	120	
5000	2.1	120	120	120	120	120	120	120	120	120	120	120	120	120	
4000	2.1	120	120	120	120	120	120	120	120	120	120	120	120	120	
3000	2.2	115	120	115	120	115	120	115	120	115	120	115	120	120	
2500	2.4	105	120	105	120	105	120	105	120	105	120	105	120	120	
2250	2.5	101	120	101	120	101	120	101	120	101	120	101	120	120	
2000	2.7	94	120	94	120	94	120	94	120	94	120	94	120	120	
1750	2.8	90	120	90	120	90	120	90	120	90	120	90	120	120	
1500	3.0	84	120	84	120	84	120	84	120	84	120	98	140	120	
1300	3.2	79	120	79	120	79	120	79	120	92	140	92	140	120	
1150	3.3	77	120	77	120	77	120	77	120	90	140	90	140	120	
1000	3.5	72	120	72	120	72	120	84	140	84	140	96	160	120	
900	3.7	69	120	69	120	69	120	80	140	91	160	91	160	120	
800	3.8	67	120	67	120	67	120	78	140	89	160	89	160	120	
750	3.9	65	120	65	120	76	140	76	140	87	160	97	180	120	
700	3.9	65	120	65	120	76	140	76	140	87	160	97	180	120	
650	4.0	63	120	63	120	74	140	74	140	84	160	95	180	120	
600	4.0	63	120	63	120	74	140	74	140	84	160	95	180	120	
⊕563	4.0	63	120	63	120	74	140	74	140	84	160	95	180	120	

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 120 FEET.

⊕ MINIMUM ALLOWABLE RADIUS