

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	
		DESIGN SOFTWARE 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
4770	NC	0	0	0	0	0	0	0	0	0	0	0	0
3245	2.0	42	42	52	52	63	63	69	69	76	76	83	83
3009	2.1	42	44	52	55	63	66	69	73	76	80	83	87
2787	2.2	42	46	52	57	63	69	69	76	76	84	83	92
2575	2.3	42	48	52	60	63	72	69	80	76	88	83	96
2367	2.4	42	50	52	63	63	75	69	83	76	92	83	100
2155	2.5	42	52	52	65	63	78	69	87	76	95	83	104
1954	2.6	42	54	52	68	63	81	69	90	76	99	83	108
1782	2.7	42	56	52	70	63	84	69	94	76	103	83	112
1633	2.8	42	58	52	73	63	87	69	97	76	107	83	116
1502	2.9	42	60	52	75	63	90	69	100	76	110	83	120
1385	3.0	42	63	52	78	63	94	69	104	76	114	83	125
1281	3.1	42	65	52	81	63	97	69	107	76	118	83	129
1187	3.2	42	67	52	83	63	100	69	111	76	122	83	133
1100	3.3	42	69	52	86	63	103	69	114	76	126	83	137
1020	3.4	42	71	52	88	63	106	69	118	76	129	83	141
946	3.5	42	73	52	91	63	109	69	121	76	133	83	145
875	3.6	42	75	52	94	63	112	69	125	76	137	83	149
806	3.7	42	77	52	96	63	115	69	128	76	141	83	154
738	3.8	42	79	52	99	63	118	69	132	76	145	83	158
664	3.9	42	81	52	101	63	122	69	135	76	148	83	162
536	4.0	42	83	52	104	63	125	69	138	76	152	83	166

NOTE:

Lt AND Lr VALUES IN FEET.

FOR PAVEMENT WIDTHS GREATER THAN 72 FEET USE Lr VALUES DEVELOPED BY THE DESIGN SOFTWARE.

LISTED RADIUS IS THE MINIMUM ALLOWABLE RADIUS FOR THE CORRESPONDING E, Lt, AND Lr VALUES.



ROAD AND BRIDGE STANDARDS

TRANSITION CURVES - URBAN
40 MPH DESIGN SPEED

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE

SHEET 1 OF 1

REVISION DATE

803.28