

DESIGN FACTORS FOR A DESIGN SPEED OF 25 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	Lt	Lr				
2500	NC	0	0	0	0	0	0	0	0	0	0	0	0						
1407	2.0	35	35	43	43	52	52	58	58	63	63	69	69						
1299	2.1	35	36	43	45	52	54	58	60	63	66	69	72						
1195	2.2	35	38	43	48	52	57	58	63	63	70	69	76						
1094	2.3	35	40	43	50	52	60	58	66	63	73	69	79						
990	2.4	35	42	43	52	52	62	58	69	63	76	69	83						
883	2.5	35	43	43	54	52	65	58	72	63	79	69	86						
793	2.6	35	45	43	56	52	67	58	75	63	82	69	90						
718	2.7	35	47	43	58	52	70	58	78	63	85	69	93						
654	2.8	35	48	43	60	52	72	58	80	63	88	69	96						
598	2.9	35	50	43	63	52	75	58	83	63	92	69	100						
548	3.0	35	52	43	65	52	78	58	86	63	95	69	103						
505	3.1	35	54	43	67	52	80	58	89	63	98	69	107						
466	3.2	35	55	43	69	52	83	58	92	63	101	69	110						
430	3.3	35	57	43	71	52	85	58	95	63	104	69	114						
397	3.4	35	59	43	73	52	88	58	98	63	107	69	117						
367	3.5	35	60	43	75	52	90	58	100	63	110	69	120						
339	3.6	35	62	43	78	52	93	58	103	63	114	69	124						
311	3.7	35	64	43	80	52	96	58	106	63	117	69	127						
284	3.8	35	66	43	82	52	98	58	109	63	120	69	131						
255	3.9	35	67	43	84	52	101	58	112	63	123	69	134						
204	4.0	35	69	43	86	52	103	58	115	63	126	69	138						

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.

SPECIFICATION REFERENCE

**TRANSITION CURVES - URBAN
25 MPH DESIGN SPEED**

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT	
ROAD AND BRIDGE STANDARDS	
REVISION DATE	SHEET 1 OF 1
802.25	