

TC-5

DESIGN FACTORS FOR A DESIGN SPEED OF 70 MPH (RURAL) USING E= 8% MAX.

DESIGN VELOCITY=70		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(%)	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w	CR	LS	w
20000	2.1	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0
15000	2.1	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0	220	220	0.0
10000	2.2	210	220	0.0	210	220	0.0	210	220	0.0	210	220	0.0	210	220	0.0	210	220	0.0
7000	3.0	154	220	0.0	154	220	0.0	154	220	0.0	154	220	0.0	154	220	0.0	154	220	0.0
5000	4.1	113	220	0.0	113	220	0.0	113	220	0.0	113	220	0.0	113	220	0.0	134	260	0.0
4000	5.0	93	220	0.0	93	220	0.0	93	220	0.0	93	220	0.0	101	240	0.0	126	300	0.0
3000	6.3	74	220	0.0	74	220	0.0	74	220	0.0	74	220	0.0	100	300	0.0	127	380	0.0
2500	7.2	49	220	3.6	52	220	2.6	65	220	0.0	65	220	0.0	100	340	0.0	129	440	0.0
2250	7.6	48	220	3.7	51	220	2.7	61	220	0.0	67	240	0.0	100	360	0.0	128	460	0.0
2000	8.0	48	220	3.9	56	240	2.9	58	220	0.0	63	240	0.0	95	360	0.0	126	480	0.0
⊗ 1821	8.0	45	220	4.0	55	240	3.0	58	240	2.0	63	240	0.0	95	360	0.0	126	480	0.0

NOTE:

CR, LS & w VALUES IN FEET.

⊗ MINIMUM ALLOWABLE RADIUS

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