

Curve Lay - Out By Deflection Angle

Low-Volume Road Design FE 346 Winter Quarter

CURVE RADIUS	DEFL ANGLE/ FOOT	DEFLECTION ANGLES FOR THREE CORD LENGTHS		
		DEGREES		
		<u>20 FT Cord</u>	<u>25 FT Cord</u>	<u>30 FT Cord</u>
40	42.9718	140	18º	20°
50	34.3775	110	14 ⁰	17º
60	28.6478	10	12	14
70	24.5553	8	10	12
80	21.4859	7	9	11
90	19.0986	6	8	10
100	17.1887	6º	70	9 0

EXAMPLE FOR RUNNING 50 FT RADIUS CURVE USING A 25 FT CORD

Note: The first deflection angle ONLY is 14⁰, all others are double at 28⁰. This is due to the fact that the 14⁰ defl. angle is turned from a line tangent to the curve (PC).

