
P.C. $=$ Point of Curvature
P.I. = Point of Intersection
P.T. = Point of Tangency
$\triangle=$ Central Angle or External Deflection Angle
D= Degree of Curve
$R=$ Radius of Curve
T = Tangent of Curve
L= Length of Curve (Circular Arc)
E = External of Curve
$\mathrm{M}=$ Mid Ordinate of Curve
LC = Long Chord
$L=\triangle R / 57.2958$
$D=5729.578 / R$
$\mathrm{T}=\mathrm{R} \tan (\triangle / 2)$
$\mathrm{E}=\mathrm{R}(\sec (\triangle / 2)-1)=\mathrm{R} \tan (\triangle / 2) \tan (\triangle / 4)$
$M=R(1-\cos (\triangle / 2))=(L C / 2) \tan (\triangle / 4)$
$L C=2 R \sin (\triangle / 2)=2 T \cos (\triangle / 2)$

Figure 4-01: Circular Horizontal Curve

