DESIGN SPEED (M.P.H.) | SIGHT DISTANCE (FEET)
---|---
20 | 125
25 | 165
30 | 200
35 | 240
40 | 275
45 | 315
50 | 350
55 | 440
60 | 525
65 | 600
70 | 750

S = SIGHT DISTANCE IN FEET
R = RADIUS OF C INSIDE LANE IN FEET
m = DISTANCE FROM C INSIDE LANE IN FEET
V = DESIGN SPEED FOR "S" IN M.P.H.

\[
\begin{align*}
\text{ANGLE IS EXPRESSED IN DEGREES} \\
\text{FORMULA APPLIES ONLY WHEN S IS EQUAL TO OR LESS THAN LENGTH OF CURVE.}
\end{align*}
\]

\[
m = R \left[ 1 - \cos \left( \frac{28.65S}{R} \right) \right]
\]

\[
S = \frac{R}{28.65} \left[ \cos^{-1} \left( \frac{R - m}{R} \right) \right]
\]

HEIGHT OF EYE - 3.50'
HEIGHT OF OBJECT - 0.50'
LINE OF SIGHT IS 2.0' ABOVE CENTERLINE INSIDE LANE AT POINT OF OBSTRUCTION

DESIGN SPEED - MPH

SIGHT DISTANCES - FEET

CITY OF THOUSAND OAKS
PUBLIC WORKS DEPARTMENT

STANDARD STOPPING SIGHT DISTANCE ON HORIZONTAL CURVES