

S = SIGHT DISTANCE IN FEET

R = RADIUS OF $\mathcal{C}$ INSIDE LANE IN FEET

m = DISTANCE FROM $\mathcal{C}$ INSIDE LANE IN FEET

V = DESIGN SPEED FOR "S" IN M.P.H.

Angle is expressed in degrees.

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

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

Formula applies only when S is equal to or less than length of curve.

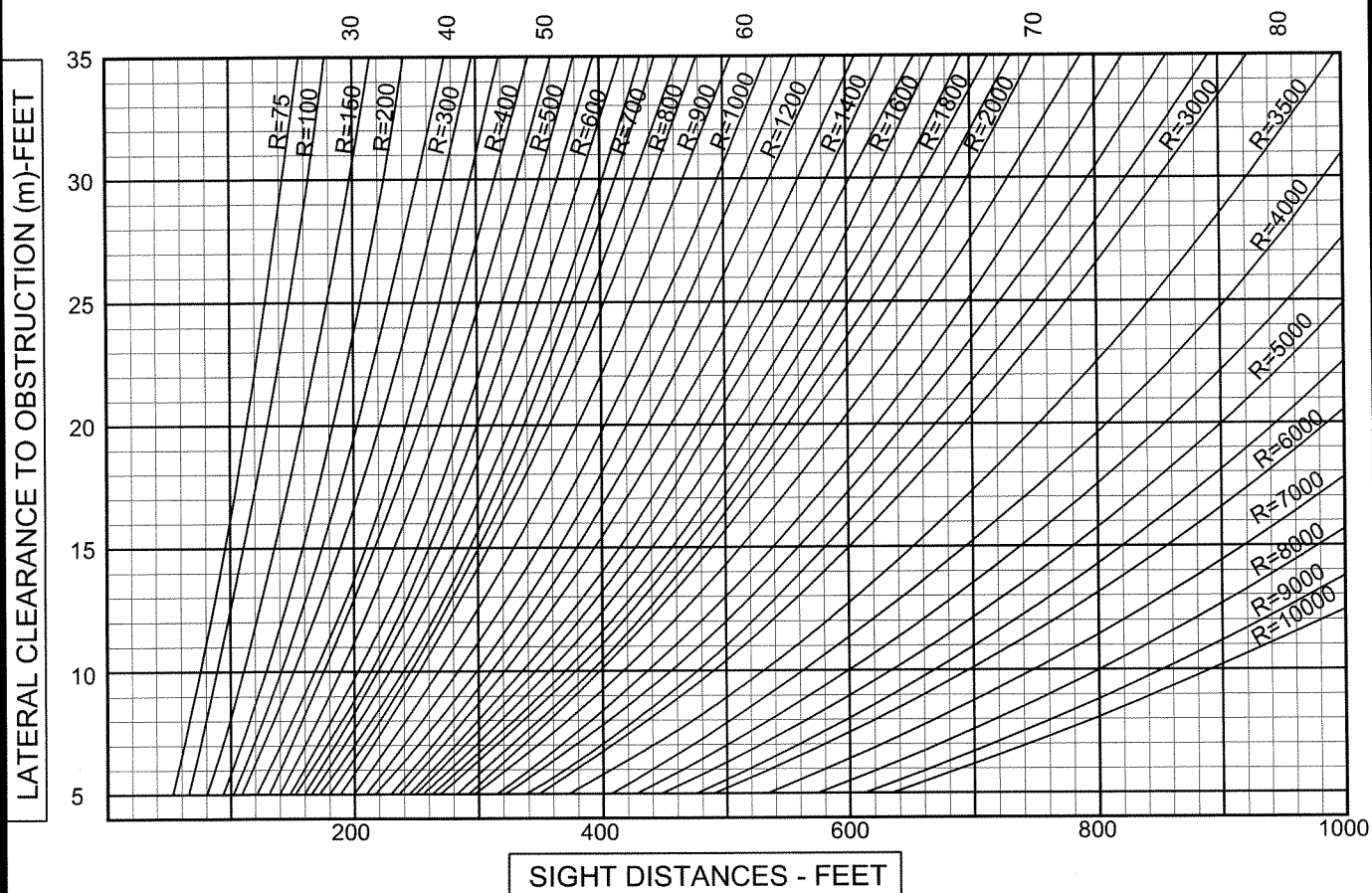
HEIGHT OF EYE - 3.50'

HEIGHT OF OBJECT - 0.50'

LINE OF SIGHT IS 2.0' ABOVE CENTERLINE
INSIDE LANE AT POINT OF OBSTRUCTION

DESIGN SPEED (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

DESIGN SPEED - MPH



CHG	DESCRIPTION	DATE	INITIAL
APPROVED <i>[Signature]</i>		DATE <i>1/20/03</i>	
CITY ENGINEER			

CITY OF THOUSAND OAKS
PUBLIC WORKS DEPARTMENT

STANDARD
STOPPING SIGHT DISTANCE
ON HORIZONTAL CURVES

PLATE NO.

3-9