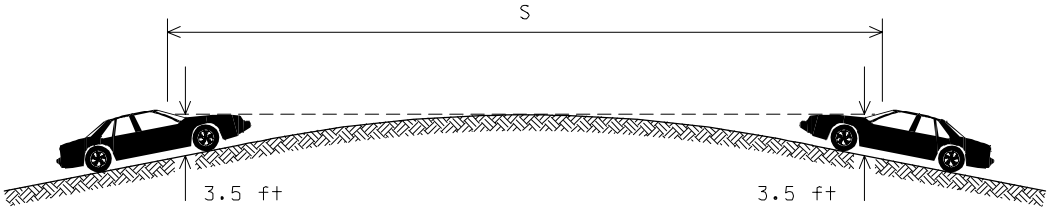
CHAPTER IV
DETAIL DESIGN



DESIGN SPEED (mph)	OPERATIONAL SIGHT DISTANCE 3.5′ TO 3.5′
30	500
40	600
50	800
55	900
60	1000
65	1100
70	1200

HEIGHT OF EYE	3.5 ft.
HEIGHT OF OBJECT	3.5 ft.

$S < L : L = AS^2 / 2800$

$S = (2800 * L / A)^{\frac{1}{2}}$

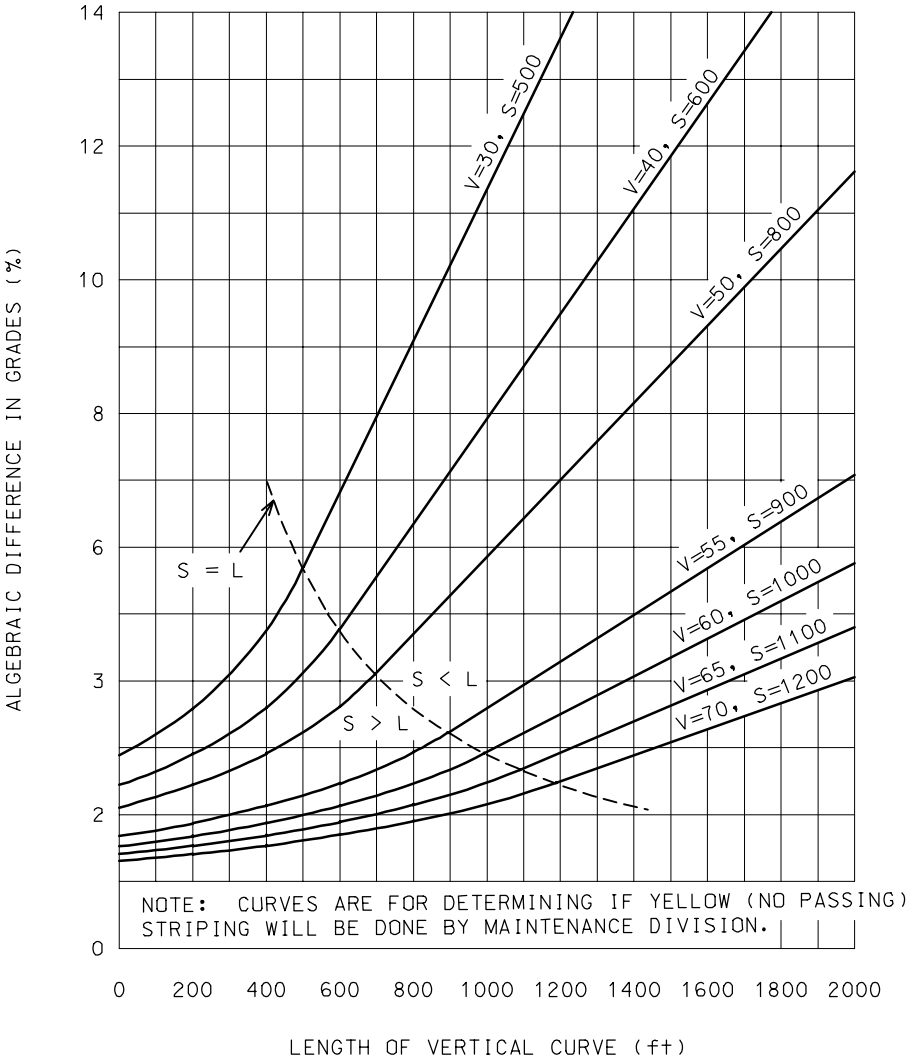
$S > L : L = 2S - (2800 / A)$

$S = (L + 2800 / A) / 2$

L = LENGTH OF VERTICAL CURVE (ft)

A = ALGEBRAIC DIFFERENCE IN GRADE (%)

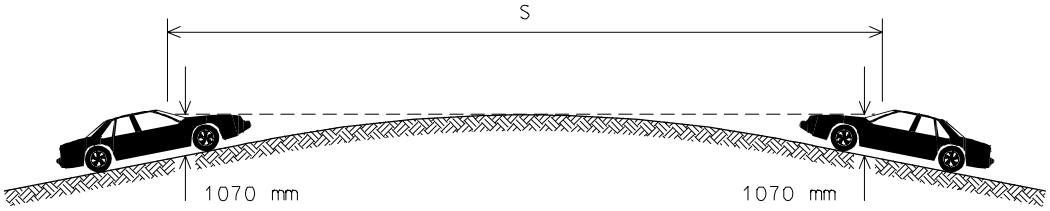
S = SIGHT DISTANCE (ft)



Operational Sight Distance

Figure 4-04.6

CHAPTER IV
DETAIL DESIGN



DESIGN SPEED km/h	OPERATIONAL SIGHT DISTANCE 1070 mm TO 1070 mm
50	160
60	180
70	210
80	250
90	280
100	320
110	360
120	400

HEIGHT OF EYE 1070 mm
HEIGHT OF OBJECT 1070 mm

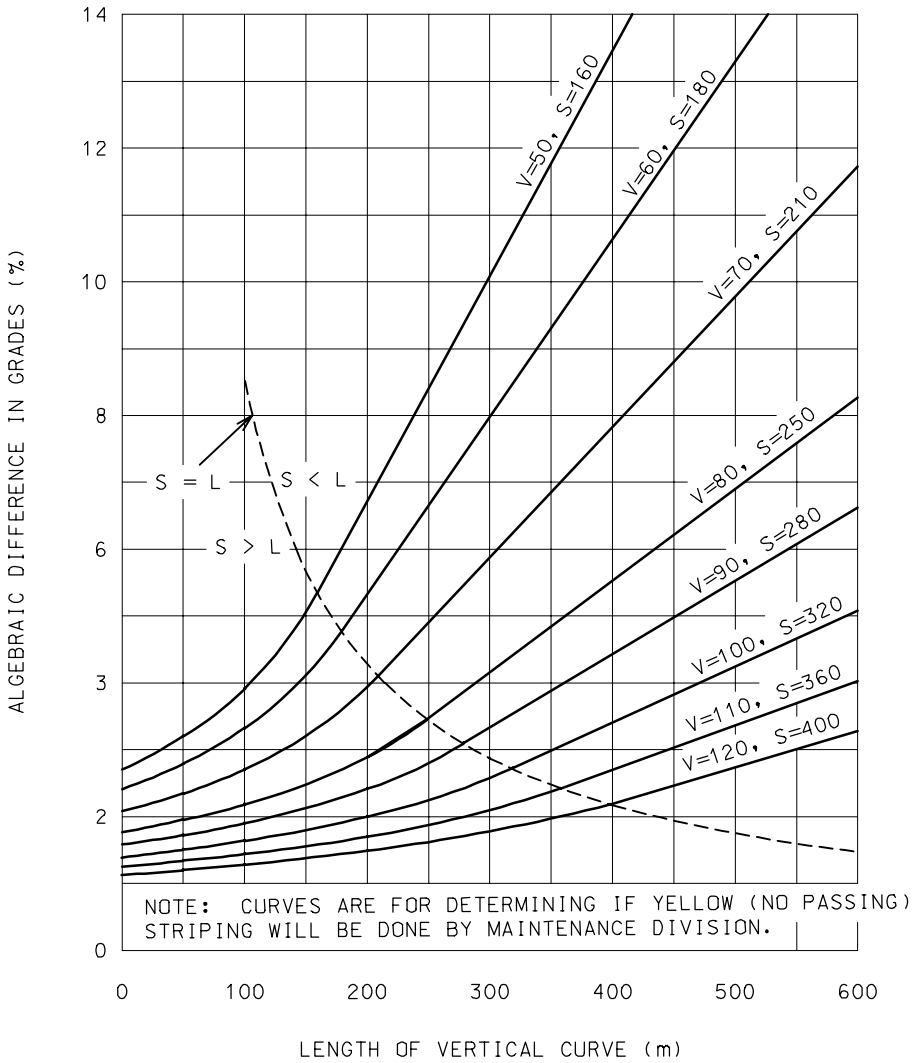
$S < L : L = AS^2 / 853$

$S = (853 * L / A)^{\frac{1}{2}}$

$S > L : L = 2S - (853 / A)$

$S = (L + 853 / A) / 2$

L = LENGTH OF VERTICAL CURVE (m)
A = ALGEBRAIC DIFFERENCE IN GRADE (%)
S = SIGHT DISTANCE (m)



Operational Sight Distance

Figure 4-04.6