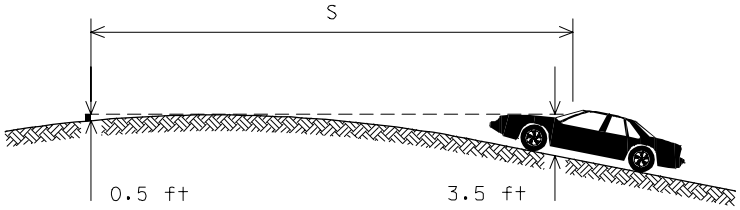
CHAPTER IV
DETAIL DESIGN



DESIGN SPEED (mph)	STOPPING SIGHT DISTANCE 3.5 ′ TO 0.5′
30	200
40	275-325
50	400-475
55	450-550
60	525-650
65	550-725
70	625-850

HEIGHT OF EYE	3.5 ft.
HEIGHT OF OBJECT	0.5 ft.

$S < L : L = AS^2 / 1329$

$S = (1329L / A)^{\frac{1}{2}}$

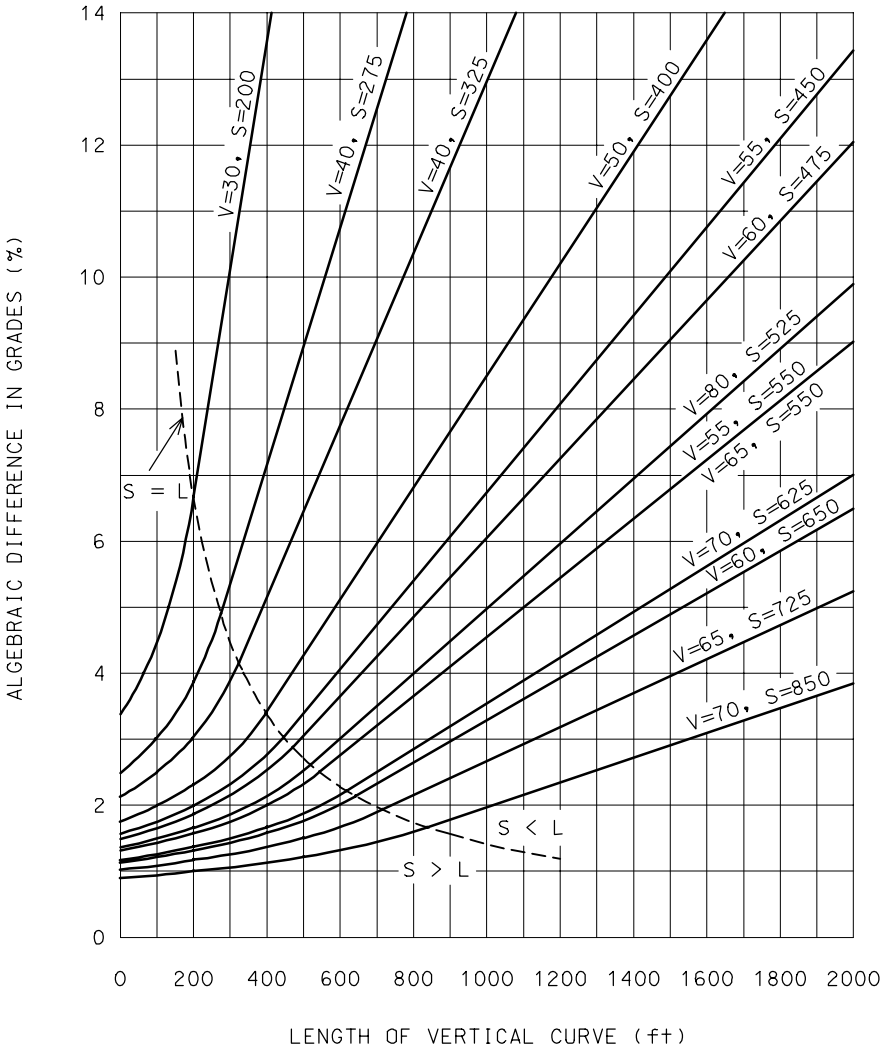
$S > L : L = 2S - (1329 / A)$

$S = (L + (1329 / A)) / 2$

L = LENGTH OF VERTICAL CURVE (ft)

A = ALGEBRAIC DIFFERENCE IN GRADE (%)

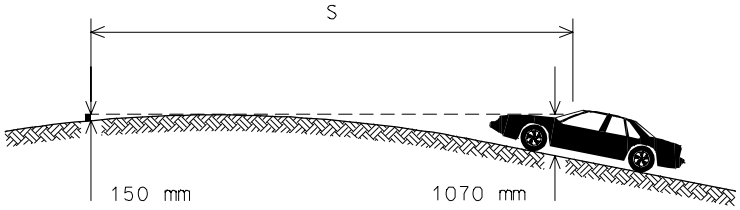
S = SIGHT DISTANCE (ft)



Stopping Sight Distances

Figure 4-04.4

CHAPTER IV
DETAIL DESIGN



DESIGN SPEED km/h	STOPPING SIGHT DISTANCE 1070 mm TO 150 mm
50	60–70
60	80–90
70	100–120
80	120–140
90	140–170
100	160–210
110	180–250
120	210–290

HEIGHT OF EYE	1070 mm
HEIGHT OF OBJECT	150 mm

$S < L$: $L = AS^2 / 404$

$S = (404L / A)^{\frac{1}{2}}$

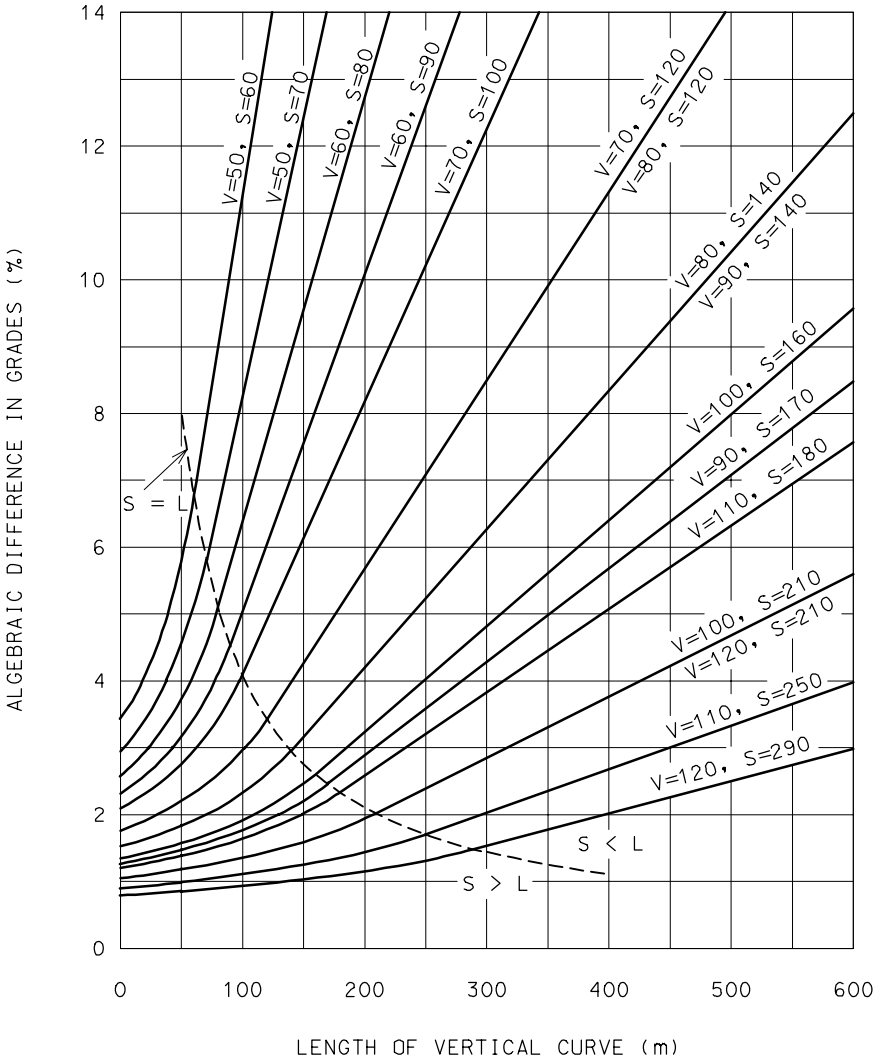
$S > L$: $L = 2S - (404 / A)$

$S = (L + (404 / A)) / 2$

L = LENGTH OF VERTICAL CURVE (m)

A = ALGEBRAIC DIFFERENCE IN GRADE (%)

S = SIGHT DISTANCE (m)



Stopping Sight Distances

Figure 4-04.4