

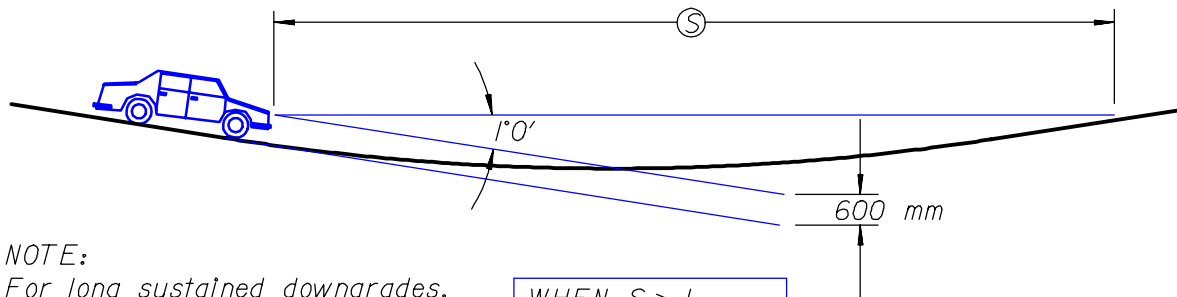
Height of eye - 1070 mm.  
Height of Object - 150 mm.

WHEN $S > L$	WHEN $S < L$
$L = 2S - \frac{405}{A}$	$L = \frac{AS^2}{405}$

$L$  = CURVE LENGTH - meters  
 $A$  = ALGEBRAIC GRADE DIFFERENCE - %  
 $S$  = SIGHT DISTANCE - meters  
 $V$  = DESIGN SPEED - kph FOR "S"  
 $K$  = DISTANCE IN METERS REQUIRED TO ACHIEVE A 1% CHANGE IN GRADE.  
 $K$  VALUE AS SHOWN IS VALID WHEN  $S < L$ .

NOTE:  
 For long sustained downgrades,  
 see Section 204.05.  
 See Figure 200.06 for parabolic  
 vertical curve formulas.  
 See Section 204.04 for minimum  
 length of vertical curve.

*Figure 200.01*  
**Stopping Sight Distance on Crest Vertical Curves**



NOTE:  
 For long sustained downgrades,  
 see Section 204.05.  
 See Figure 200.06 for parabolic  
 vertical curve formulas.  
 See Section 204.04 for minimum  
 length of vertical curve.

WHEN $S > L$
$L = \frac{2S - \frac{122 + 3.5S}{A}}{A}$

WHEN $S < L$
$L = \frac{AS^2}{122 + 3.5S}$

$L$  = CURVE LENGTH - meters  
 $A$  = ALGEBRAIC GRADE DIFFERENCE - %  
 $S$  = SIGHT DISTANCE - meters  
 $V$  = DESIGN SPEED - kph FOR "S"  
 $K$  = DISTANCE IN METERS REQUIRED TO ACHIEVE A 1% CHANGE IN GRADE.  
 $K$  VALUE AS SHOWN IS VALID WHEN  $S < L$ .

*Figure 200.02*  
**Stopping Sight Distance on Sag Vertical Curves**