

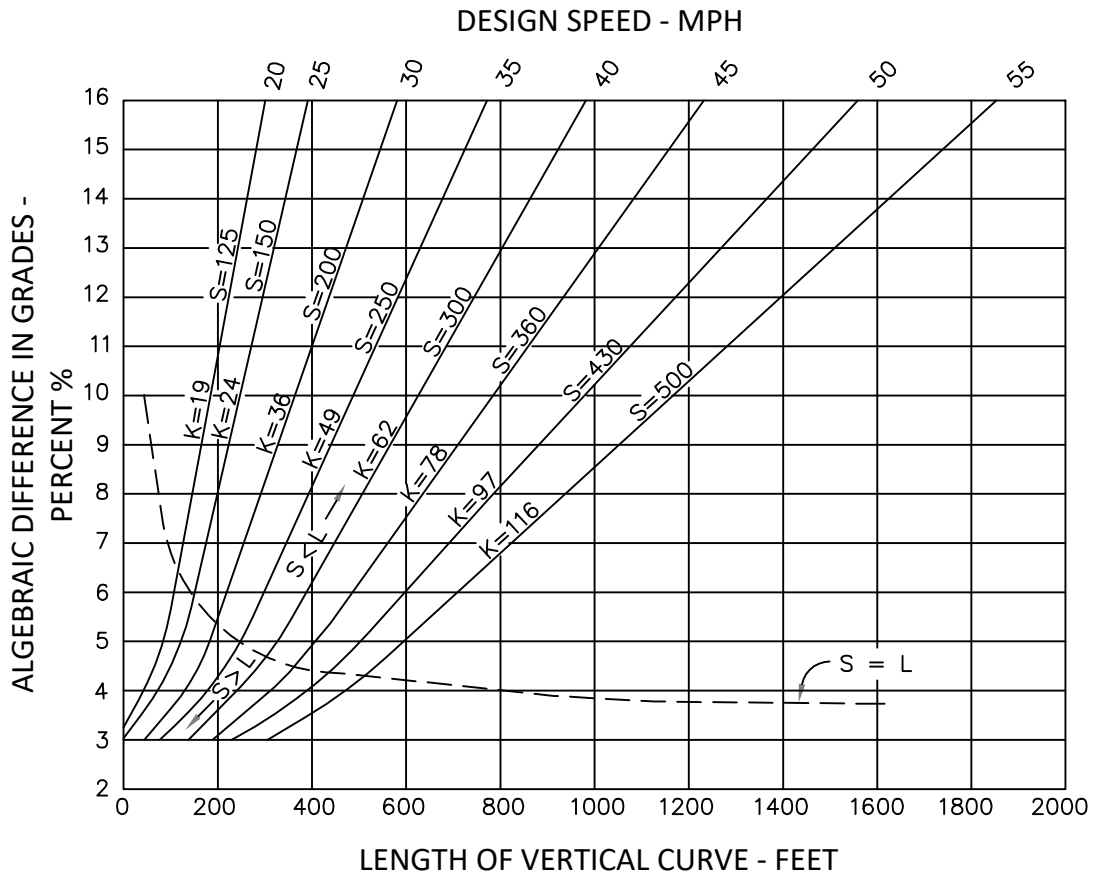
L = CURVE LENGTH - FEET  
 A = ALGEBRAIC GRADE DIFFERENCE - %  
 S = SIGHT DISTANCE - FEET  
 V = DESIGN SPEED - MPH FOR "S"  
 K = DISTANCE IN FEET REQUIRED TO ACHIEVE A 1% CHANGE IN GRADE; K VALUE SHOWN IS VALID WHEN S < L

WHEN S > L  

$$L = 2S - \frac{400 + 3.5S}{A}$$

WHEN S < L  

$$L = \frac{AS^2}{400 + 3.5S}$$



CITY OF PASO ROBLES

ENGINEERING DIVISION

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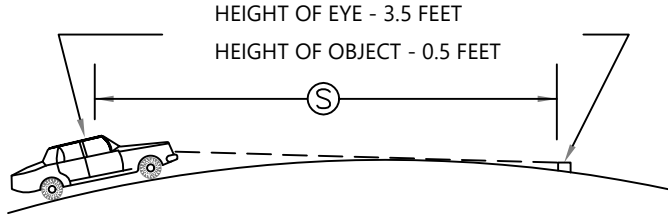
SAG VERTICAL CURVES

REVISIONS

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B-1



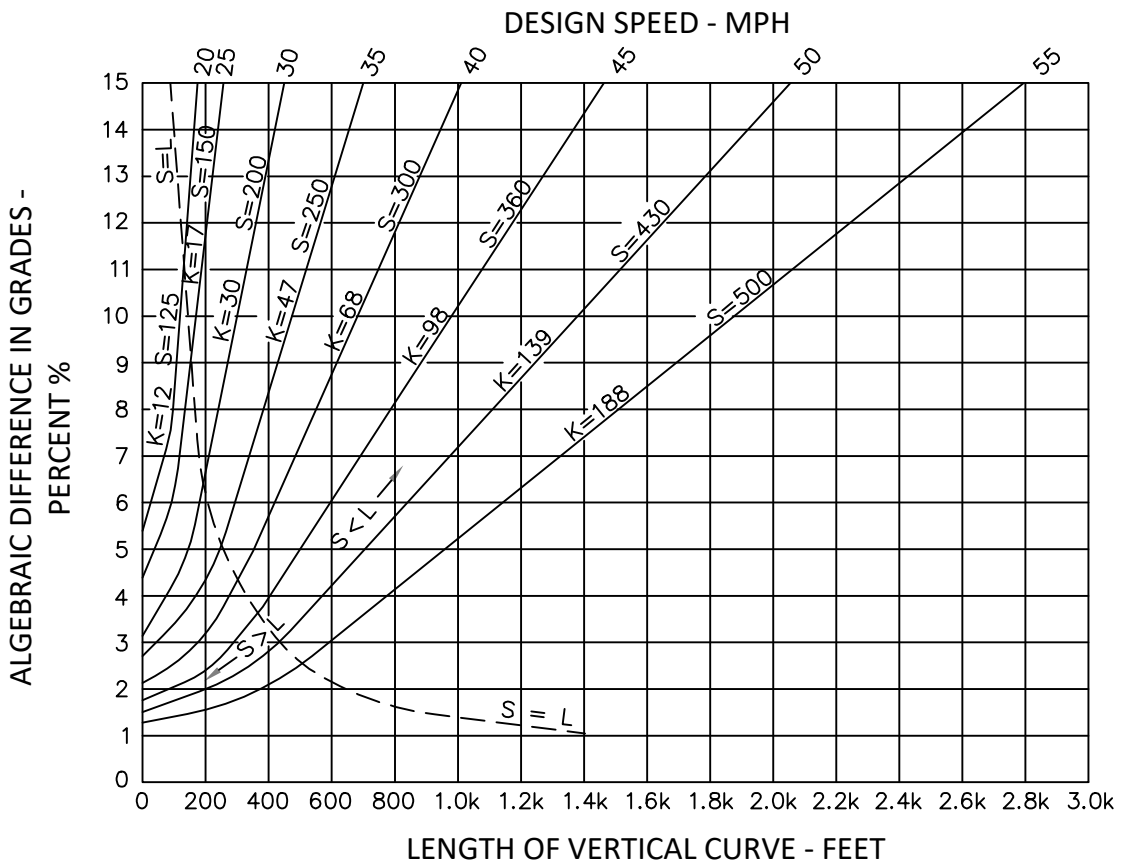
L = CURVE LENGTH - FEET  
 A = ALGEBRAIC GRADE DIFFERENCE - %  
 S = SIGHT DISTANCE - FEET  
 V = DESIGN SPEED - MPH FOR "S"  
 K = DISTANCE IN FEET REQUIRED TO ACHIEVE A 1%  
 CHANGE IN GRADE; K VALUE SHOWN IS VALID WHEN  
 S < L

WHEN S > L

$$L = 2S - \frac{1329}{A}$$

WHEN S < L

$$L = \frac{AS^2}{1329}$$



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CREST VERTICAL CURVES

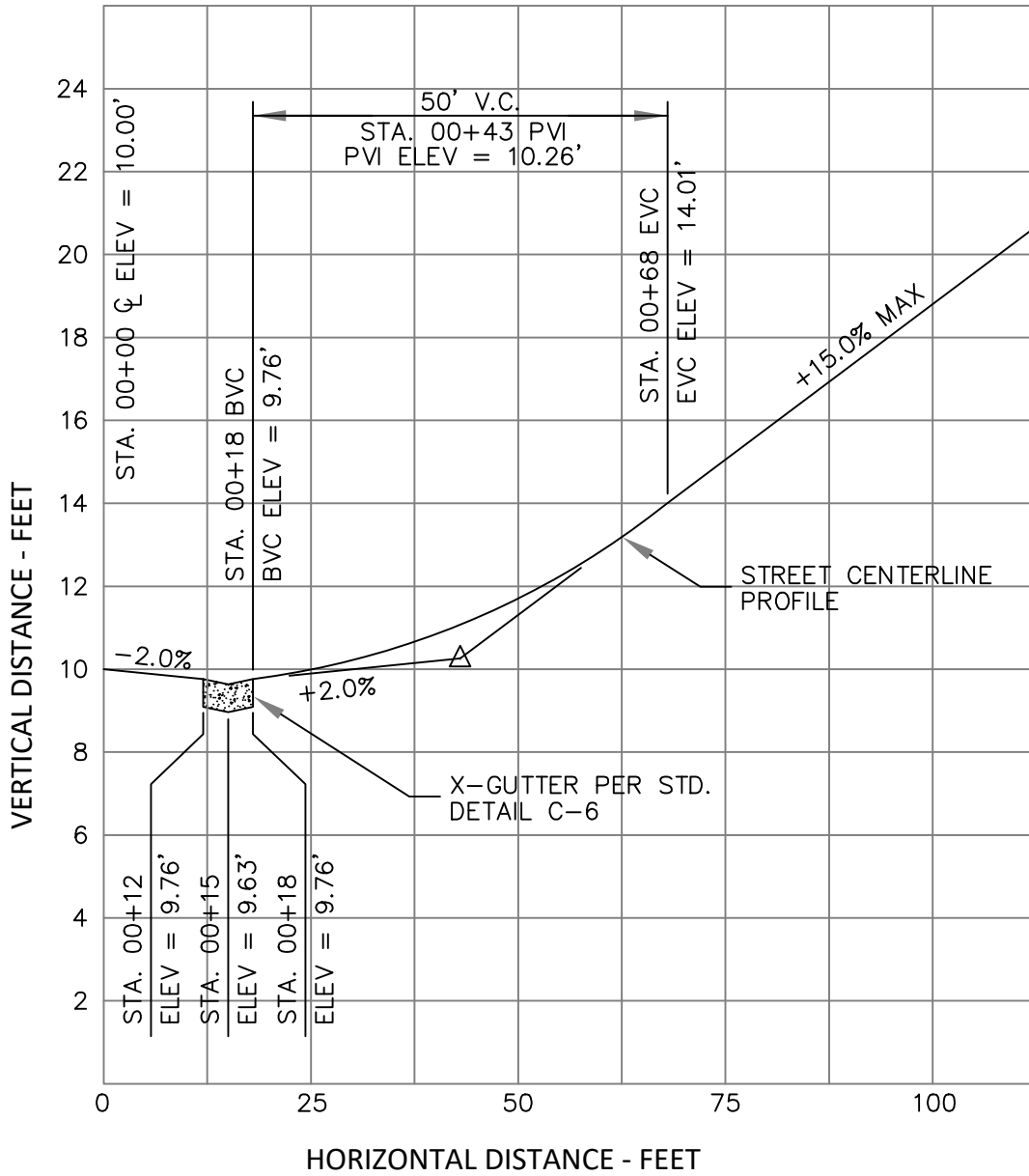
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B-2

BVC = BEGIN VERTICAL CURVE  
 EVC = END VERTICAL CURVE  
 PVI = POINT OF VERTICAL INTERSECTION



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HILLSIDE INTERSECTION  
 PROFILE CRITERIA

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