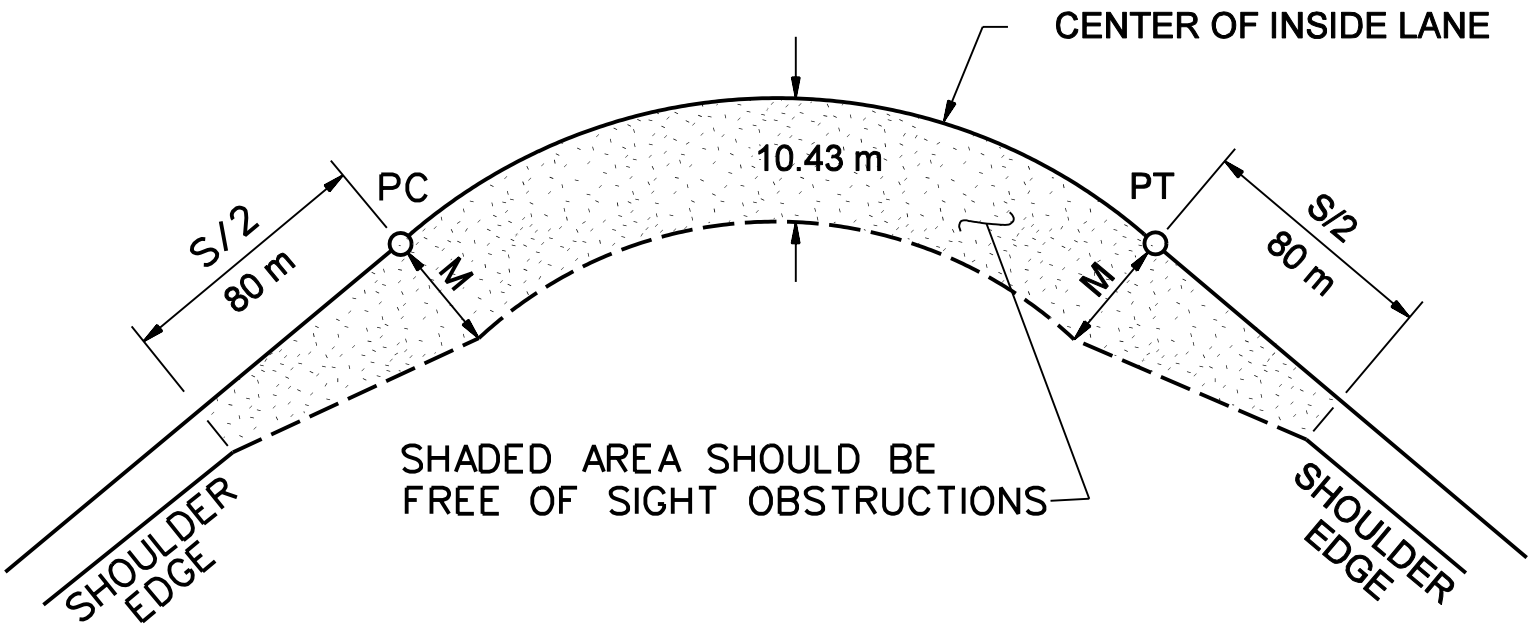

Example 43-4.1

Given: Design Speed = 90 km/h, R = 305 m

Problem: Determine the horizontal clearance requirements for the horizontal curve.

Solution: The cve should be designed to accommodate the minimum SSD values. Figure 42-1A m. Using the equation for horizontal clearance (L > S):

$$M = R \{1 - \cos [(28.65\ S) / R]\}$$

$$M = 305 \{1-\cos [(28.65) (160) / 305]\} = 10.43\ m$$

This figure also illustrates the horizontal clearance requirements for the entering and exiting portion of the horizontal curve.

SIGHT CLEARANCE REQUIREMENTS FOR HORIZONTAL CURVES

Figure 43-4C