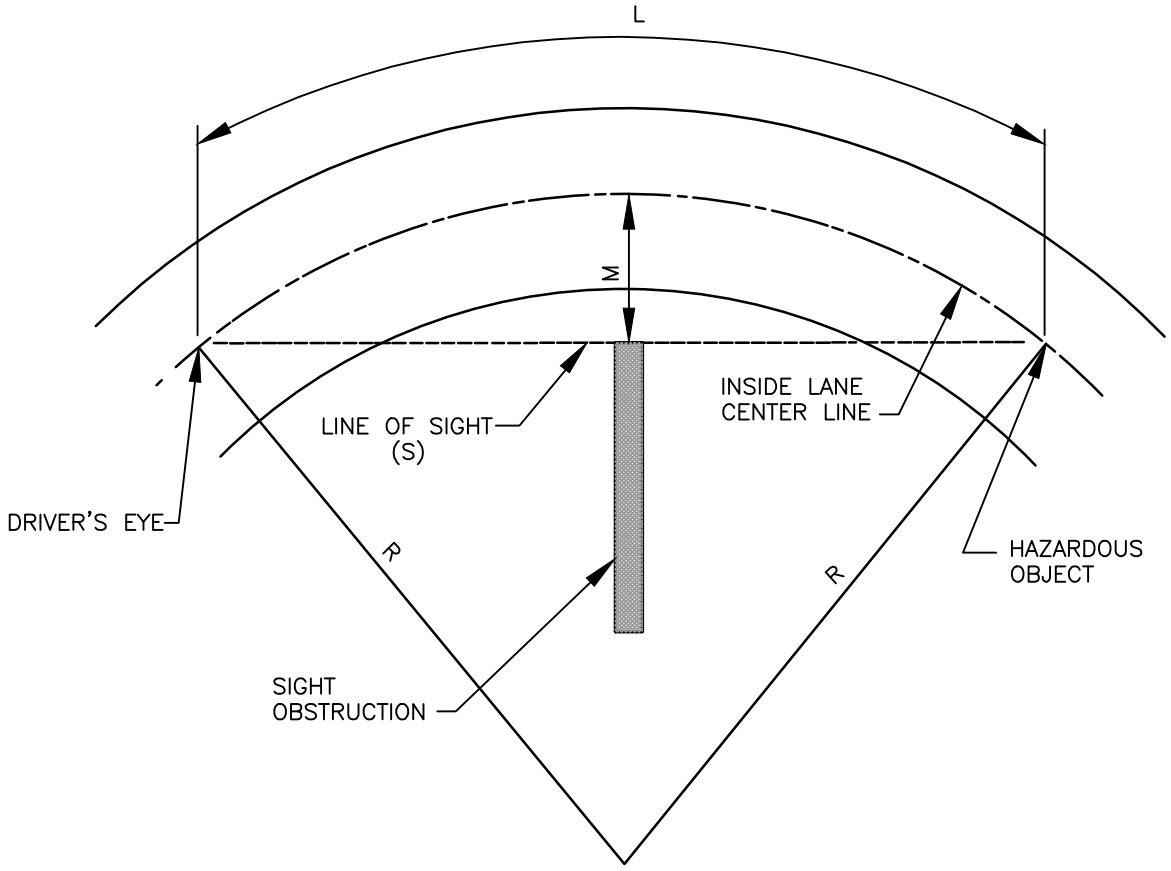

IF THE STOPPING SIGHT DISTANCE, S, AND THE RADIUS TO THE CENTER OF THE INSIDE LANE, R, ARE KNOWN, THE DISTANCE, M, IS FOUND BY THE FOLLOWING EQUATION:

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

IF THE RADIUS, R, AND THE DISTANCE, M, ARE TENTATIVELY SELECTED, THEN THE LENGTH, L, OF THE ARC IN THE MIDDLE OF THE INSIDE LANE MAY BE FOUND BY THE FOLLOWING EQUATION:

$L = (R/28.65)\arccos[(R-M)/R]$

IF THE LENGTH, L, IS LESS THAN THE STOPPING SIGHT DISTANCE FOR THE DESIRED DESIGN SPEED, EITHER THE RADIUS, R, OR THE DISTANCE, M, MUST BE INCREASED.

DESIGN SPEED MPH	25	30	35	40	45	50
STOPPING SIGHT DISTANCE, S, (FT.) AS MEASURED ALONG THE PATH OF THE VEHICLE	155	200	250	305	360	425

CITY OF Vancouver WASHINGTON

VIEW OBSTRUCTIONS FOR HORIZONTAL CURVES

CITY OF VANCOUVER
DEPARTMENT OF PUBLIC WORKS
TRANSPORTATION DIVISION

DRAWN BY	APPROVED BY	APPROVAL DATE
CDC	MAHE	8/04
REVISION	APPROVED BY	APPROVAL DATE
7	MAHE	3/24

STD. PLAN NO.
T04-01

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