

OMUTCD WARRANT 9, INTERSECTION NEAR A GRADE CROSSING

Does the grade crossing exist on an approach controlled by a STOP or Yield sign and the center of the track nearest to the intersection is within 140 feet of the stop line or yield line on the approach? No

During the highest traffic volume hour during which rail traffic uses the crossing, the plotted point representing the vehicles per hour on the major street (total of both approaches) and the corresponding vehicles per hour on the minor-street approach that crosses the track (one direction only, approaching the intersection) falls above the applicable curve in Figure 4C-9 or 4C-10 for the existing combination of approach lanes over the track and the distance.

Number of approach lanes on the minor street approach that crosses the track: 1

Clear Storage Distance (D): 20 feet

Highest Traffic Volume Hour During Which Rail Traffic Uses the Crossing*

**If the rail traffic arrival times are unknown, the highest traffic volume hour of the day should be used.*

Major Street Volume (Total of Both Approaches): 637 vph
 Actual Minor-Street Volume (One Direction Only, Approaching the Intersection): 106 vph

Apply Adjustment Factors to the Minor-Street Volume?: Yes

Minor Street Approach Volume Adjustments*

**refers to Section 4C.10 of the OMUTCD for details on the application of these adjustments*

	Inputs	Adjustment Factor
Occurrences of Rail Traffic per Day:	2	0.91
% of High-Occupancy Buses (buses with at least 20 people) on Minor-Street Approach:	0	1
% of Tractor-Trailer Trucks on Minor-Street Approach:	0% to 2.5%	0.5
Adjusted Minor-Street Volume (One Direction Only, Approaching the Intersection)	48.23	

Traffic Volumes for Figure Comparison

Major Street Volume (Total of Both Approaches): 637
 Minor-Street Volume (One Direction Only, Approaching the Intersection): 49

Applicable Figure for Comparison: Figure 4C-9

Based on Figure 4C-9, is Warrant 9 Met?:* Yes
**If point on graph is above the designated line, then Warrant is met.*

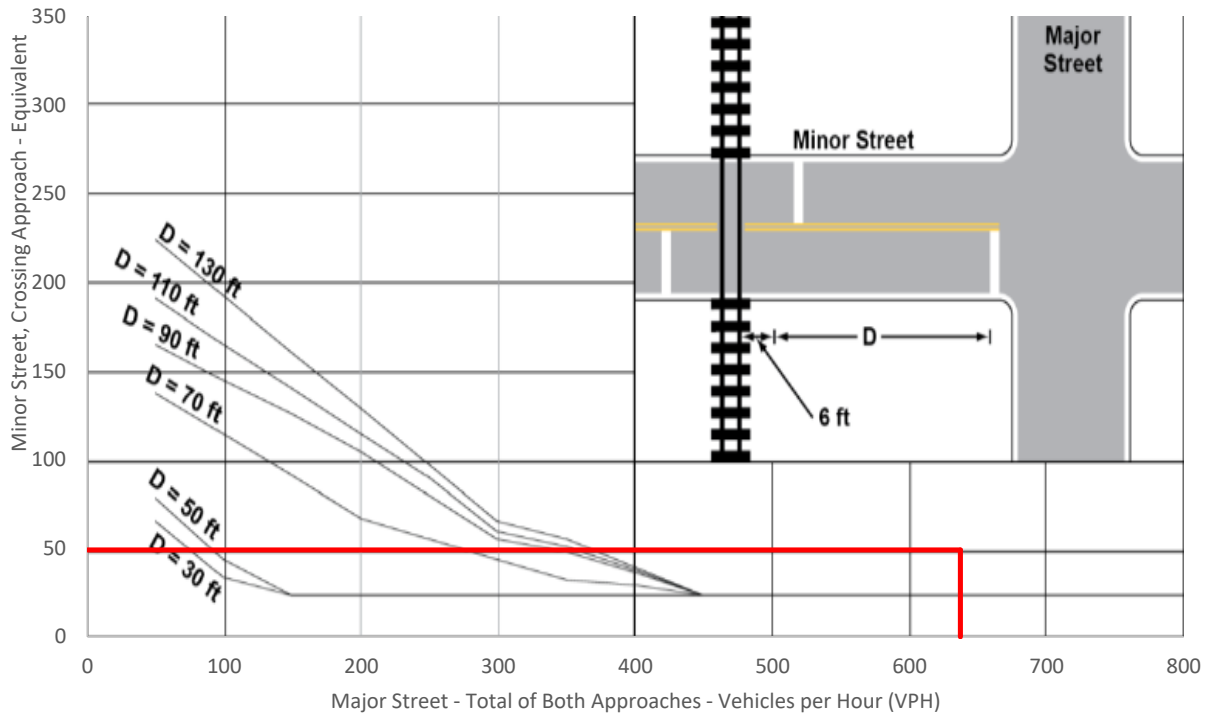
Figure 4C-9

Plot Points		Plot Points	
0	49	637	0
637	49	637	49

Figure 4C-10

Plot Points		Plot Points	

OMUTCD Figure 4C-9. Warrant 9, Intersection Near a Grade Crossing
(One Approach Lane at the Track Crossing)



OMUTCD Figure 4C-10. Warrant 9, Intersection Near a Grade Crossing
(Two or More Approach Lanes at the Track Crossing)

