

Completed



Multi-Way Stop for the Intersection of
Fern and Kinross
City Engineering Department
May 22nd, 2018

Criteria for Multi-Way Stop Installation
Based on MUTCD 2009 Edition Standards

Criterion 1: Crash Experience

This criterion is **not satisfied** because there were no crashes at this intersection in the past 12 months that could have been prevented by a Multi-Way Stop, which is less than the required 5 preventable crashes.

Criterion 2: 8-hour Vehicular Volume

This criterion is **not satisfied** because the vehicles per hour entering the intersection of **Fern and Kinross** Coming from Fern is 18 , which does not exceed the required minimum 300 vehicles per hour for any 8 hours of an average day. The vehicles per hour entering the intersection from Kinross is 9 with an average delay to vehicular traffic of 1.44 seconds, which does not exceed the required minimum 200 vehicles per hour for the same 8 hours and the minimum average delay time of 30 seconds per vehicle during the peak hour.

Criterion 3: Major Road Approach Speed

This criterion is **not satisfied** because the 85th-percentile approach speed of traffic does not exceed the required minimum of 40 mph.

Additional Notes:

Traffic was very low. Adt=231. There are two stop signs at this intersection. One is for traffic turning from Kinross onto fern, and the other is for the school as traffic leaves. No pedestrians observed crossing any portions of the intersection.

Prepared By: Matthew Sexton

M. S.

Date: 05/21/2018

Reviewed By:

J. Hood

Date:

8/13/18

Write memo after speed data collected

Location	Fern & Kinross
Day, Date	Monday, 5/21/2018
Conditions	cloudy, 56°F
Time	1:15-2:15
Gap Length	7.5
Observer	Matthew Sexton

G = W/4 + 3

About 12' per lane
8' for parking

STOP WARRANT FIELD OBSERVATIONS

PEDESTRIANS				SCHOOL CHILDREN				HANDICAP	
0				0				0	
GAPS								LINE OF CARS WAITING LONGER THAN 5 CARS	
40,	142	155	97	140	162	170	115	265	0
130	240	741	619	84	247	63	52		
STOP TIME DELAY									
1									
2									
3									
4									
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A dt = 231

~~2 stops~~ Signs on Kinross street