

REPORT TO: Community and Infrastructure Services Committee

DATE OF MEETING: December 6, 2021

SUBMITTED BY: Barry Cronkite, Director, Transportation Services
519-741-2200 ext. 7738

PREPARED BY: Ivan J Balaban, Active Transportation Planning Project Manager,
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WARD(S) INVOLVED: Ward 4

DATE OF REPORT: October 21, 2021

REPORT NO.: DSD-2021-213

SUBJECT: All-way Stop Control Forest Creek Drive at Apple Ridge Drive

RECOMMENDATION:

That an all-way stop control be installed at the intersection of Forest Creek Drive at Apple Ridge Drive; and further,

That the Uniform Traffic Bylaw be amended accordingly.

REPORT HIGHLIGHTS:

- The purpose of this report is to amend the Uniform Traffic By-Law 2019-113 to include an all-way stop control at Forest Creek Drive at Apple Ridge Drive.
- The key finding of this report is that safety and operations will be improved through the installation of the traffic control device listed in the report
- The financial implications are approximately \$1,000 taken from the existing sign maintenance budget
- This report supports the delivery of core services.

BACKGROUND:

Transportation Services received a request to review the existing traffic control at the intersection of Forest Creek Drive at Apple Ridge Drive. The request cited concerns regarding pedestrian safety and general operation of the intersection. It was requested that an all-way stop be considered to control traffic.

REPORT:

According to the City of Kitchener's Official Plan, Forest Creek Drive is designated a Minor Community Collector Street and Apple Ridge Drive is also designated a Minor Community

Collector Street. Currently, traffic on Apple Ridge Drive stops and yields right of way to traffic on Forest Creek Drive

In response to the identified concerns, a traffic study was conducted for the intersection on October 7, 2021. The results of the study were compared to the City of Kitchener's all-way stop warrant requirements. These requirements are a set of guidelines based on the all-way stop warrants established by the Ministry of Transportation of Ontario and the Institute of Transportation Engineers. The results are as follows:

**Warrant – Local/Minor Road
All-Way Stop Warrant Analysis
Forest Creek Drive at Apple Ridge Drive – October 7, 2021**

Warrant Factors - "3-Leg" Intersection	Results	Warrant Met
The total vehicle volume on all intersection approaches averages at least 250 vehicles per hour for each of any eight hours of the day, and The volume split does not exceed 75% / 25% for a three-way control on the major road, or Average of at least 4 collisions per year over a three-year period (susceptible to correction by an All Way Stop)	274	YES
	56% / 44%	YES
	0.00 per year	NO
All-Way Stop Warranted		YES

As the results above indicate, the intersection of Forest Creek Drive at Apple Ridge Drive meets the warrant criteria. Based on the results of the traffic study Transportation Services is recommending that an all-way stop be installed.

STRATEGIC PLAN ALIGNMENT:

This report supports the delivery of core services.

FINANCIAL IMPLICATIONS:

Capital Budget – The recommendation has no impact on the Capital Budget.

Operating Budget – The recommendation has the following impact on the Operating Budget. Forest Creek Drive at Apple Ridge Drive All Way Stop, \$1,000; for a total estimated budget impact of \$1,000. These costs can be absorbed in the existing Sign Maintenance budget

COMMUNITY ENGAGEMENT:

INFORM – This report has been posted to the City's website with the agenda in advance of the council / committee meeting.

PREVIOUS REPORTS/AUTHORITIES:

- *City of Kitchener Uniform Traffic By-law No. 2019-113*

APPROVED BY: Justin Readman, General Manager of Development Services

ATTACHMENTS:

Attachment A – Key Map – Forest Creek Drive at Apple Ridge Drive All Way Stop

Appendix A - Key Map
Forest Creek Drive at Apple Ridge Drive All Way Stop

