

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JANUARY 19, 2016

Item 3, Report No. 2, of the Committee of the Whole, which was adopted without amendment by the Council of the City of Vaughan on January 19, 2016.

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**ALL-WAY STOP CONTROL REVIEW
APPLEWOOD CRESCENT AND PENNSYLVANIA AVENUE
WARD 4**

The Committee of the Whole recommends approval of the recommendation contained in the following report of the Deputy City Manager of Public Works and the Director of Transportation Services, Parks & Forestry Operations, dated January 12, 2016:

Recommendation

The Deputy City Manager of Public Works and the Director of Transportation Services, Parks & Forestry Operations recommend:

1. That Council enact a By-law to install an all-way stop control at the intersection of Applewood Crescent and Pennsylvania Avenue.

Contribution to Sustainability

Not Applicable.

Economic Impact

The capital costs associated with the installation of the all-way stop signs is estimated to be \$500.00, and has been included in the 2016 Operating Budget Estimates. The on-going costs to maintain the signs and pavement markings (stop bars), is estimated to be \$150.00 per annum, and will be incorporated in future year Operating Budgets.

Communications Plan

Not applicable.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Applewood Crescent and Pennsylvania Avenue.

Background - Analysis and Options

A review of existing operations at the intersection of Applewood Crescent and Pennsylvania Avenue was conducted

Staff carried out a review of the traffic activity at the intersection of Applewood Crescent and Pennsylvania Avenue.

Applewood Crescent and Pennsylvania Avenue are both minor collector roadways with a 23.0 metre right-of-way and an 11.50 metre pavement width. The intersection of Applewood Crescent and Pennsylvania Avenue is a "T" intersection with the existing stop control on Pennsylvania Avenue. The area is shown in Attachment No.1.

The existing traffic volumes at the intersection of Applewood Crescent and Pennsylvania Avenue fulfill 98% of the Provincial Warrant for All-way Stop Controls

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Staff conducted a turning movement count on September 17, 2015 at this intersection. The study was conducted during the peak traffic periods of 7:00 a.m. to 9:00 a.m., and 4:00 p.m. to 6:00 p.m. Staff also reviewed collision records between the period January 1, 2014 to April 30, 2015 and sight lines at the approaches to the intersection. The data collected was compared to the Provincial Warrant for All-way Stop Control with the following results:

•Warrant 1 – Minimum Vehicular Volumes	Warranted	98%
•Warrant 2 – Accident Hazard	Warranted	0%
•Warrant 3 – Sight Restriction	Warranted	0%

All-way Stop Controls are recommended at the intersection of Applewood Crescent and Pennsylvania Avenue.

All-way stop controls are recommended when one of the above warrants are satisfied to 100% or more. Existing traffic volumes fulfill 98% of the required 100% on the warrant. Warrant #1, minimum vehicular volume warrant, requires 120 vehicles/pedestrians entering the intersection from the side street. Staff recorded 118 vehicles/pedestrians from the side street, only two vehicles/pedestrians below the criteria in the All-way Stop Warrant. Since the additional two vehicles/pedestrians required to fulfill the warrant could be met at any time, therefore, it would be beneficial to install the all-way stop control at this time.

Relationship to Term of Council Service Excellence Strategy Map (2014-2018)

In consideration of the strategic priorities related to Term of Council Service Excellence Strategy Map (2014 – 2018), the recommended all-way stop will improve traffic flow for both drivers and pedestrians at the intersection, thus promoting community safety, health and wellness.

Regional Implications

Not Applicable.

Conclusion

It is recommended that an all-way stop control be installed at the intersection of Applewood Crescent and Pennsylvania Avenue, based on Transportation Services staff's review.

Attachments

1. Location Map

Report prepared by:

Peter Trinh, Traffic Analyst, Ext. 6157

(A copy of the attachments referred to in the foregoing have been forwarded to each Member of Council and a copy thereof is also on file in the office of the City Clerk.)