

CITY OF VAUGHAN

EXTRACT FROM COUNCIL MEETING MINUTES OF JANUARY 19, 2016

Item 4, 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.

**4 ALL-WAY STOP CONTROL REVIEW
PLEASANT RIDGE AVENUE AND JACOBI COURT/NORTH THORNHILL COMMUNITY
CENTRE ACCESS
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 and Forestry Operations, dated January 12, 2016:

Recommendation

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

1. That Council enact a By-law to install an all-way stop control at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access.

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 Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access.

Background - Analysis and Options

A review of traffic activity was conducted at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access.

A review of the traffic activity at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access was conducted on August 12, 2015, and June 9, 2015, to determine the feasibility of implementing an all-way stop control.

Pleasant Ridge Avenue is a minor collector roadway with a 23.0 metre right-of-way and an 11.5 metre pavement width. Jacobi Court is a local roadway with a 17.5 metre right-of-way and an 8.0 metre pavement width. The south access of the North Thornhill Community Centre is located on the west side of the intersection. The intersection of Pleasant Ridge Avenue and Jacobi Court is a four-leg intersection with the existing stop controls on Jacobi Court. A map of the area is provided in Attachment No.1.

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The existing Minimum Vehicular Volumes, Accident Hazards, and Sight Restrictions at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access, do not satisfy the Provincial Warrant for All-way Stop Controls.

June 9, 2015 Turning Movement Count study results

A turning movement count was conducted on June 9, 2015, at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access. The study was conducted during the peak traffic periods of 7:00 a.m. to 9:00 a.m. and 3:00 p.m. to 6:00 p.m. The accident records and the sight distance at the approaches to the intersection were also reviewed. The data collected was compared to the Provincial Warrant for All-way Stop Controls, with the following results:

•Warrant 1 – Minimum Vehicular Volumes	Warranted	80%
•Warrant 2 – Accident Hazard	Warranted	0%
•Warrant 3 – Sight Restriction	Warranted	0%

All-way stop controls are recommended when one of the above warrants are satisfied to 100 percent or more. As shown above, the existing Minimum Vehicular Volumes, the Accident Hazards, and the Sight Restriction are not satisfied at this intersection.

August 12, 2015 Turning Movement Count study results

Given the various Community Centre programs that continue into the evening hours, which could contribute to higher vehicle and pedestrian volumes, a follow-up turning movement count was conducted on August 12, 2015, from 4:00pm to 7:00pm. The data collected was compared to the Provincial Warrant, with the following results:

•Warrant 1 – Minimum Vehicular Volumes	Warranted	95%
•Warrant 2 – Accident Hazard	Warranted	0%
•Warrant 3 – Sight Restriction	Warranted	0%

All-way Stop Controls are recommended at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access, as it is anticipated that the Warrant for Minimum Vehicular Volumes will be satisfied due to future growth in the community and an increased demand for Community Centre programs.

Existing traffic volumes fulfill 95% 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 114 vehicles/pedestrians from the side street, only two vehicles/pedestrians below the criteria in the All-Way Stop Warrant. Since the additional six 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

There are no regional implications associated with this report.

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Conclusion

It is recommended that an all-way stop control be installed at the intersection of Pleasant Ridge Avenue and Jacobi Court/North Thornhill Community Centre Access, based on Transportation Services staff's review.

Attachments

1. Location Map

Report prepared by:

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(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.)