

COMMITTEE OF THE WHOLE - MARCH 22, 2011

DAVOS ROAD AND LUCERNE DRIVE/ST. JEAN DE BREBEUF CATHOLIC HIGH SCHOOL WEST ACCESS ALL-WAY STOP CONTROL REVIEW WARD 3

Recommendation

The Commissioner of Engineering and Public Works recommends:

That a By-law be enacted to install an all-way stop control at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access, as the Provincial All-way Stop Warrant is met.

Contribution to Sustainability

The installation of an all-way stop control at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access will promote and improve traffic flow and pedestrian movements in this area.

Economic Impact

Sufficient funding for installation of the all-way stop signs and pavement markings (stop bars) has been included in the draft 2011 Operating Budget. The on-going costs to maintain the signs and pavement markings would be incorporated in future year Operating Budgets.

Communications Plan

Engineering Services staff will advise area residents of the outcome of Council's decision in this matter.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access, in response to a request received from a resident.

Background - Analysis and Options

Engineering Services staff reviewed the traffic activity at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access.

Davos Road is a primary roadway with a 23.0 metre right-of-way, and an 11.5 metre pavement width. The existing speed limit is a statutory 50 km/h on Davos Road. Lucerne Drive is a local roadway with a 17.5 metre right-of-way and an 8.0 metre pavement width. The existing stop controls are located on the south approach of Lucerne Drive and the north approach of St. Jean de Brebeuf Catholic High School west access. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Thursday, February 3, 2011, at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access during the morning and afternoon peak time periods of 7:00 am to 9:00 am, and 3:00 pm to 6:00 pm. The weather on this day was sunny. The data collected was compared to the Provincial Warrant for All-way Stop Control with the following results:

• Warrant 1 – Minimum Vehicular Volumes	Warranted	203%
• 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% or more. Existing traffic volumes fulfill 203% of the required 100% on the warrant. There have been no reported collisions at this intersection in the past 12 month period. There are no sight restrictions at this intersection. Based on the results above, this intersection meets the minimum requirements of the Provincial Warrant for All-way Stop Control.

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommendations of this report will assist to:

- Pursue Excellence in Service Delivery;
- Enhance and Ensure Community Safety, Health & Wellness; and
- Lead and Promote Environmental Sustainability

This report is consistent with the priorities previously set by Council.

Regional Implications

Not Applicable.

Conclusion

Based on Engineering Services staff’s review, it is recommended that an all-way stop control be installed at the intersection of Davos Road and Lucerne Drive/St. Jean de Brebeuf Catholic High School west access.

Attachments

1. Location Map.

Report prepared by:

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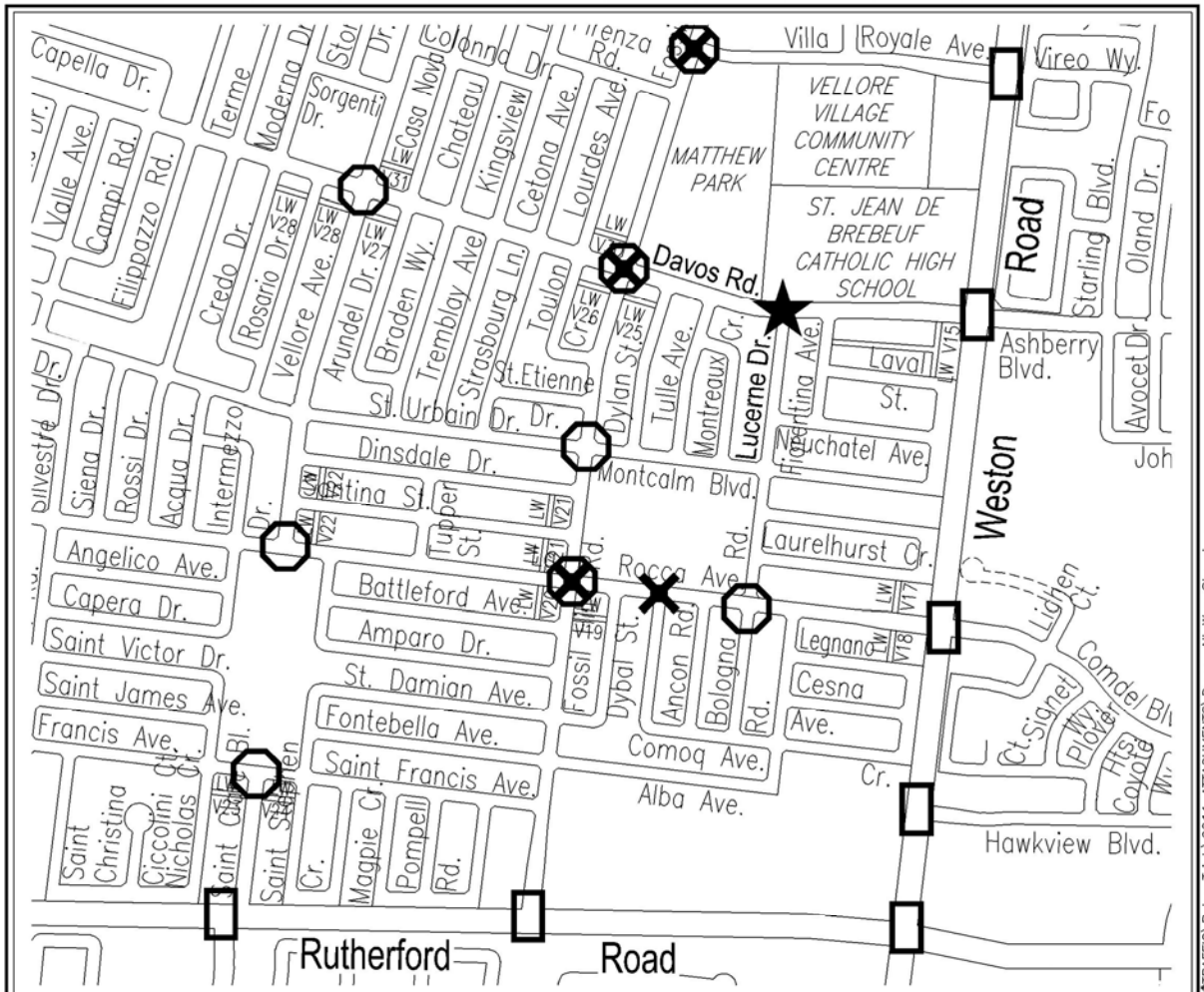
Respectfully submitted,

Bill Robinson, P. Eng.
 Commissioner of Engineering and Public Works

Jack Graziosi, P. Eng., M. Eng.
 Director of Engineering Services

PT:mc

ATTACHMENT No. 1



DAVOS ROAD and LUCERNE DRIVE PROPOSED ALL-WAY STOP CONTROL

LEGEND

- ★ INTERSECTION UNDER REVIEW
- EXISTING TRAFFIC SIGNALS
- EXISTING ALL-WAY STOP CONTROL
- ✕ EXISTING SCHOOL CROSSING GUARD



NOT TO SCALE