

COMMITTEE OF THE WHOLE – DECEMBER 7, 2010

**PROPOSED ALL-WAY STOP CONTROL
GRAND TRUNK AVENUE AND MAURIER BOULEVARD
WARD 4**

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control be installed at the intersection of Grand Trunk Avenue and Maurier Boulevard.

Contribution to Sustainability

The installation of an all-way stop control at the intersection of Grand Trunk Avenue and Maurier Boulevard 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 years Operating Budgets.

Communications Plan

Engineering Services staff will contact the resident on 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 Grand Trunk Avenue and Maurier Boulevard, in response to a request received from a resident.

Background - Analysis and Options

Engineering Services staff received a request from a resident to review the traffic activity at the intersection of Grand Trunk Avenue and Maurier Boulevard.

Grand Trunk Avenue and Maurier Boulevard are both classified as minor collector roadways with a 23.0 metre right-of-way and a pavement width of 11.5 metres. The current stop controls are on Grand Trunk Avenue. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Thursday, September 30, 2010 at this intersection. This intersection is a four leg 'cross' intersection. The study was conducted during the peak morning and afternoon time periods of 7:00 am to 9:00 am and 3:00 pm to 6:00 pm. On the day of the traffic study the weather 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	91%
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 91% of the required 100% on the warrant. To meet the requirements of Warrant 1, an additional 32 vehicles would be required to enter the intersection during the highest peak hour. The additional vehicles required to meet the warrant will likely be met in the near future as development continues in this area, therefore, it would be beneficial to install the all-way stop control at this time. There are no recorded vehicle collisions susceptible to correction by an all-way stop control at this intersection. There are no sight restrictions at this intersection.

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 in:

- 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 Grand Trunk Avenue and Maurier Boulevard.

Attachments

1. Location Map

Report prepared by:

Mark Ranstoller, Senior Traffic Technologist, Ext. 3141
Mike Dokman, Supervisor, Traffic Engineering, Ext. 3118

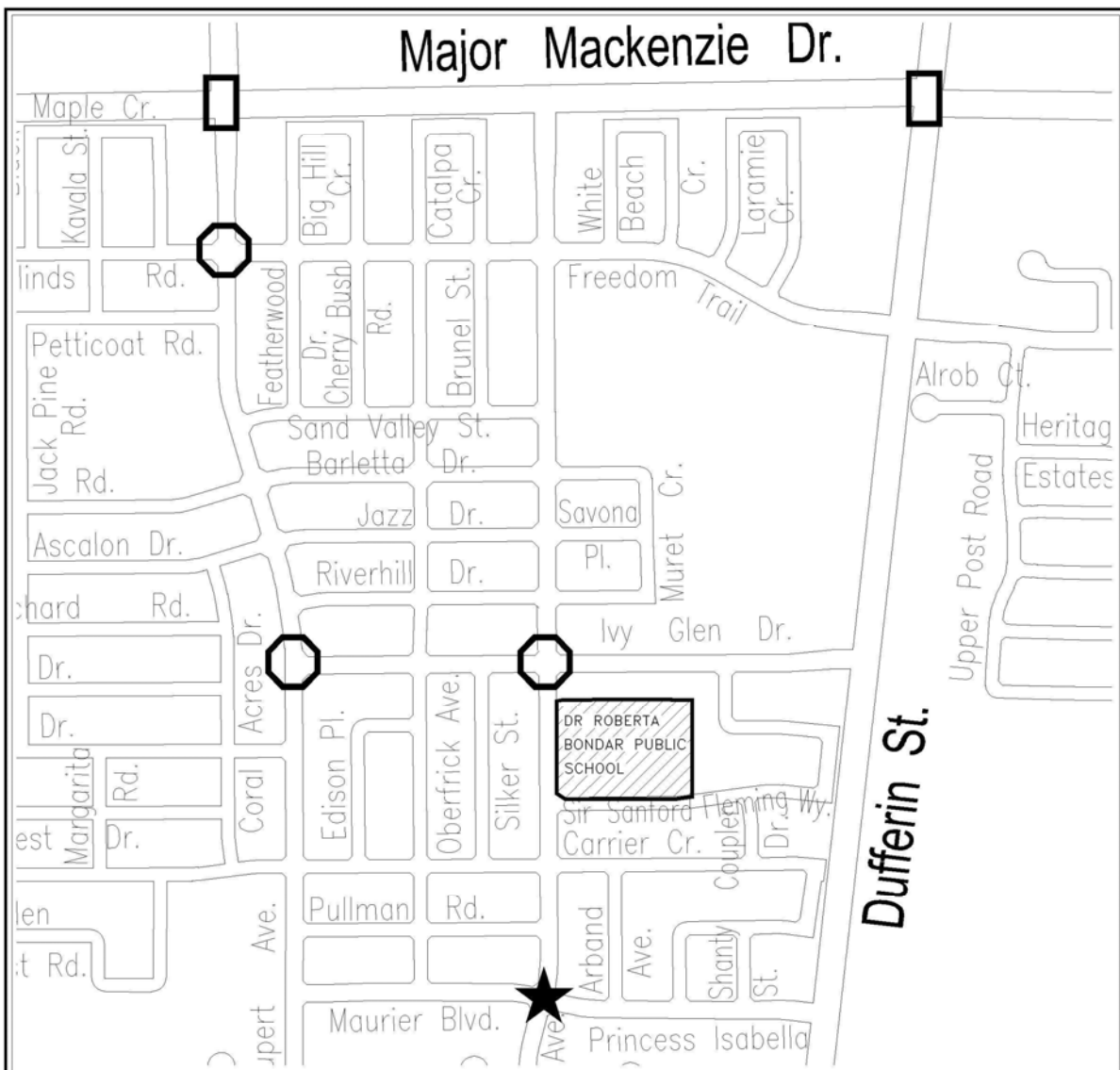
Respectfully submitted,

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

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

MR:mc

ATTACHMENT No. 1



GRAND TRUNK AVENUE AND MAURIER BOULEVARD PROPOSED ALL-WAY STOP CONTROL

LEGEND

-  PROPOSED ALL-WAY STOP CONTROL
-  EXISTING ALL-WAY STOP
-  EXISTING TRAFFIC SIGNAL



NOT TO SCALE