

COMMITTEE OF THE WHOLE – NOVEMBER 15, 2011

ALL-WAY STOP CONTROL REVIEW PETER RUPERT AVENUE AND GOLDEN FOREST ROAD/CARRIER CRESCENT WARD 4

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 Peter Rupert Avenue and Golden Forest Road/Carrier Crescent.

Contribution to Sustainability

Not Applicable.

Economic Impact

Sufficient funding for installation of the all-way stop signs and pavement markings (stop bars) has been included in the approved 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 and St. Cecilia Catholic Elementary School 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 Peter Rupert Avenue and Golden Forest Road/Carrier Crescent, in response to a request received from an area resident.

Background - Analysis and Options

Staff carried out a review of the traffic activity at the intersection of Peter Rupert Avenue and Golden Forest Road/Carrier Crescent.

Peter Rupert Avenue is a minor collector roadway with a 26.0 metre right-of-way and an 11.5 metre pavement width. Golden Forest Road and Carrier Crescent are classified as local roadways with a 17.5 metre right-of-way and an 8.0 metre pavement width. The intersection of Peter Rupert Avenue and Golden Forest Road/Carrier Crescent is a four-leg intersection with the existing stop controls on Golden Forest Road and Carrier Crescent. St. Cecilia Catholic Elementary School is located on the southwest corner of the intersection. The existing school crossing guard is located on the west side of the intersection of Peter Rupert Avenue and Golden Forest Road/Carrier Crescent. The area is shown in Attachment No.1.

Staff conducted a turning movement count on September 27, 2011 at this intersection. 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. Staff also reviewed accident records for 2010 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 225%
- Warrant 2 – Accident Hazard Warranted 25%
- Warrant 3 – Sight Restriction Warranted 0%

All-way stop controls are recommended when one of the above warrants is satisfied to 100% or more. As shown above, existing traffic volumes exceed Warrant #1 requirements. There was one recorded vehicle collision at this intersection in the past 12 month period. There are no sight restrictions at this intersection. As the information above indicates, this intersection meets the minimum requirements of the Provincial Warrant for All-way Stop Control.

St. Cecilia Catholic Elementary School and the residents who live in close proximity of the intersection support the proposed all-way stop control. The proposed all-way stop would also benefit both vehicular and pedestrian movements to/from the school.

Relationship to Vaughan Vision 2020/Strategic Plan

In consideration of the strategic priorities related to Vaughan Vision 2020, the recommended all-way stop will improve traffic flow for both drivers and pedestrians at the intersection, thus enhancing community design.

Regional Implications

Not Applicable.

Conclusion

It is recommended that an all-way stop control be installed at the intersection of Peter Rupert Avenue and Golden Forest Road/Carrier Crescent, as the minimum requirement of the Provincial Warrant for All-way Stop Control is met.

Attachments

1. Location Map

Report prepared by:

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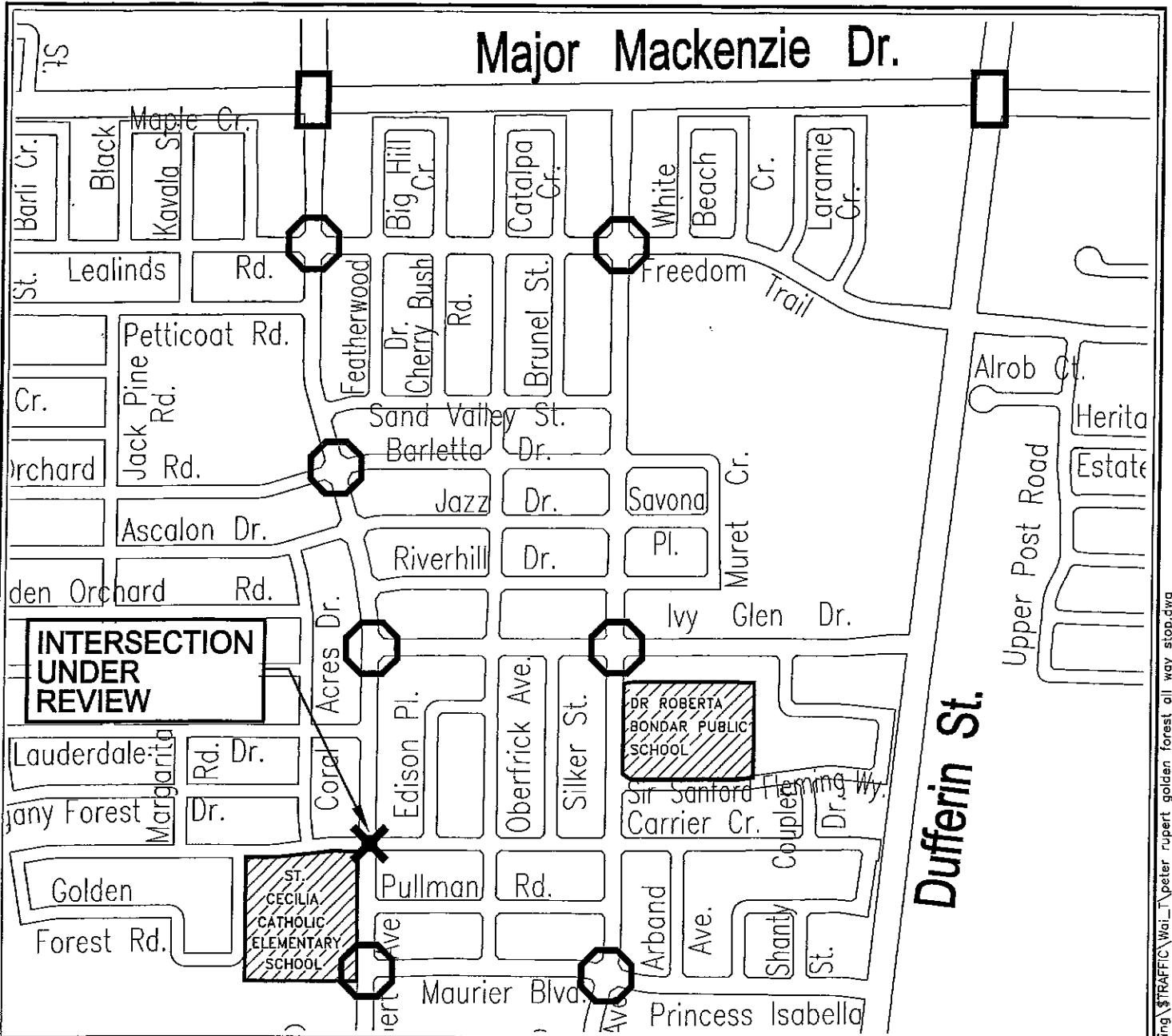
Respectfully submitted,

Paul Jankowski, P. Eng.
 Commissioner of Engineering and Public Works

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




WT:mc

ATTACHMENT No. 1



ALL-WAY STOP REVIEW PETER RUPERT AVENUE AND GOLDEN FOREST ROAD/CARRIER CRESENT

LEGEND

-  EXISTING ALL-WAY STOP
-  EXISTING TRAFFIC SIGNAL
-  EXISTING SCHOOL CROSSING GUARD



NOT TO SCALE