

COMMITTEE OF THE WHOLE – JANUARY 22, 2007

**ROYAL PINE AVENUE AND FOREST FOUNTAIN DRIVE
PROPOSED ALL-WAY STOP CONTROL**

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control be installed at the intersection of Royal Pine Avenue and Forest Fountain Drive.

Economic Impact

The cost to install the stop signs and pavement markings would be an initial impact on the 2007 Operating Budget, and the costs to maintain the signs and pavement markings would have an impact to future Operating Budgets.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Royal Pine Avenue and Forest Fountain Drive, in response to a request from a local resident.

Background - Analysis and Options

A request has been received to review the traffic activity at the intersection of Royal Pine Avenue and Forest Fountain Drive. Royal Pine Avenue is a local roadway with a 17.5 metre right-of-way. Forest Fountain Drive is a local roadway with a 20.0 metre right of way. The existing stop controls are located on Royal Pine Avenue. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Tuesday, November 28, 2006, at the intersection of Royal Pine Avenue and Forest Fountain Drive during the morning and afternoon peak time periods of 7:00 a.m. to 9:00 a.m., and 4:00 p.m. to 6:00 p.m. On the day of the traffic study the weather was sunny and clear. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

- | | | | |
|---|---------------------------------------|-----------|-----|
| • | Warrant 1 – Minimum Vehicular Volumes | Warranted | 90% |
| • | 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. There have been no reported collisions from June 2005 through to June 2006 at this intersection susceptible to prevention by implementing all-way stop control. There are no site restrictions at this intersection. According to the results above, this intersection does not meet the minimum requirements of the warrant.

Staff however believes it would be beneficial to install an all-way stop control at the intersection of Royal Pine Avenue and Forest Fountain Drive. The warrant requires 120 vehicles from the side street. Staff recorded 108 vehicles entering the intersection from the side street, only 12 vehicles below the criteria in the All-Way Stop Warrant. Since the 12 vehicles to meet the warrant could be met at anytime it would be beneficial to install the all-way stop control at this time.

Relationship to Vaughan Vision 2007

This traffic study is consistent with Vaughan Vision 2007 as to identify and implement innovative traffic management alternatives to improve general traffic safety (1.1.3).

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

Conclusion

Based on staff's review, it is recommended that all-way stop control be installed at the intersection of Royal Pine Avenue and Forest Fountain Drive.

Attachments

1. Location Map

Report prepared by:

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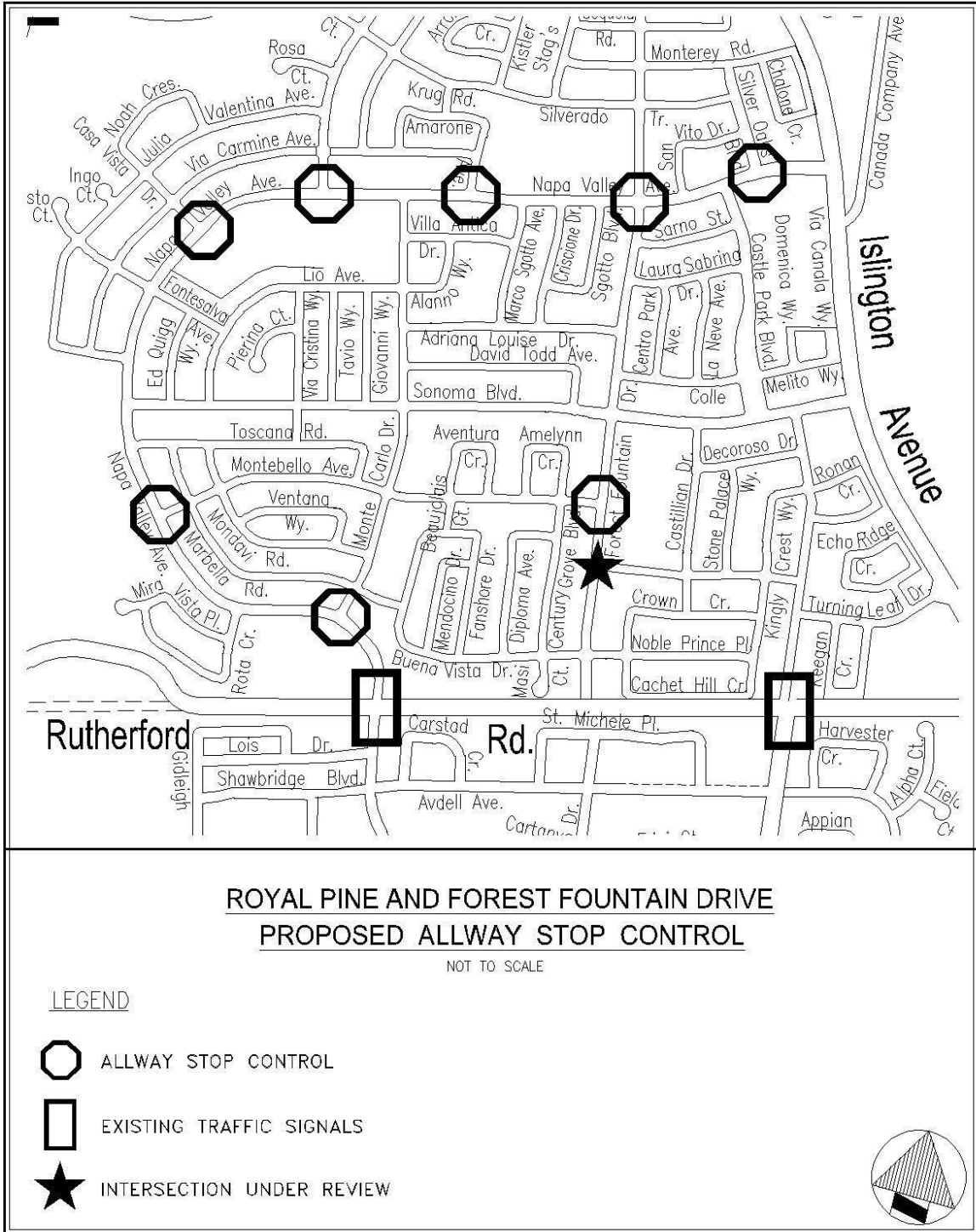
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services

LW:mc

ATTACHMENT No. 1



Drawing name: R:\ENGDRAFT\TRANSPD\Leslie W\Royal_Pine_Forest Fountain.dwg