

COMMITTEE OF THE WHOLE - DECEMBER 11, 2006

VAUGHAN VALLEY BOULEVARD AND ZENWAY BOULEVARD 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 Vaughan Valley Boulevard and Zenway Boulevard.

Economic Impact

The cost to install the stop signs and pavement markings would be an initial impact to the 2007 Operating Budget, and the cost to maintain the signs and 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 Vaughan Valley Boulevard and Zenway Boulevard, in response to requests from area business employees.

Background - Analysis and Options

Staff received requests from business employees in the area of Vaughan Valley Boulevard and Zenway Boulevard to review the need for an all-way stop control due to heavy traffic volumes.

Vaughan Valley Boulevard is a major collector roadway with a 26.0 metre right-of-way and a pavement width of 14.0 metres. Zenway Boulevard is a major collector roadway with a 26.0 metre right-of-way and a pavement width of 14.0 metres. The existing speed limit on Vaughan Valley Boulevard and on Zenway Boulevard is a statutory 50 km/h. The existing stop controls are located on Zenway Boulevard. The area is shown on Attachment No. 1.

Staff conducted a turning movement count on Tuesday October 3, 2006 at the subject intersection during peak travel periods. The traffic count was conducted from 7:00 am to 9:00 am and 4:00 pm to 6:00 pm. On the day of the traffic study the weather was rainy. The collected traffic volumes compared to the Provincial Warrant for All-Way Stop Control are as shown below.

- | | |
|---|----------------|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted 131% |
| • Warrant 2 – Accident Hazard | Warranted 0% |
| • Warrant 3 – Sight Restriction | Warranted 0% |

For an all-way stop control to be warranted, one or more of the 3 warrants must be satisfied 100% or more. The results of the turning movement counts meet the requirements of the Provincial Warrant for All-Way Stop Control. The above results reflect the highest peak traffic hour at the intersection. The collected traffic volumes satisfy Warrant 1. There was one reported vehicle collision in the past year at this intersection.

Relationship to Vaughan Vision 2007

This traffic study is consistent with Vaughan Vision 2007 as to ensure enhanced safety standards are incorporated in community designs (1.1.2).

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

Conclusion

Based on staff's review, it is recommended that an all-way stop control be installed at the intersection of Vaughan Valley Boulevard and Zenway Boulevard.

Attachments

1. Location Map

Report prepared by:

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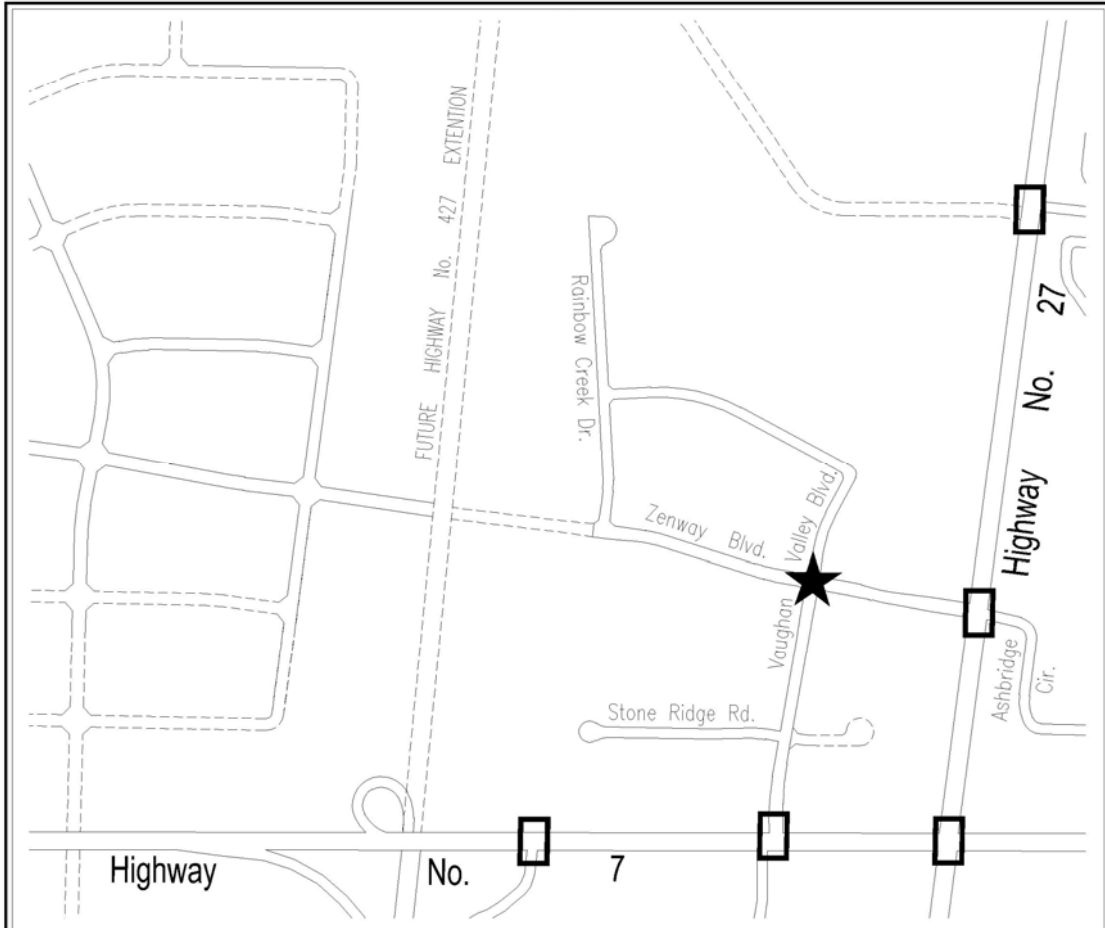
Respectfully submitted,

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

Gary Carroll, P. Eng.,
Director of Engineering Services



LW:mc

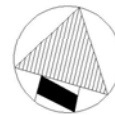
ATTACHMENT No. 1



VAUGHAN VALLEY BOULEVARD & ZENWAY BOULEVARD PROPOSED ALL - WAY STOP CONTROL

LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNALS



NOT TO SCALE