

COMMITTEE OF THE WHOLE – FEBRUARY 7, 2005

EDGELEY BOULEVARD AND APPLEWOOD CRESCENT (SOUTH) 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 Edgeley Boulevard and the southern leg of Applewood Crescent.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Edgeley Boulevard and the southern leg of Applewood Crescent.

Background - Analysis and Options

Edgeley Boulevard is a collector road with a 28.0 metre right-of-way width and 4 travel lanes, and Applewood Crescent is an industrial road with a 23.0 metre right-of-way width and 2 travel lanes. The existing speed limit on both streets is a statutory 50 km/h. Existing stop controls are located on Applewood Crescent at Edgeley Boulevard. The area is shown on Attachment No. 1.

A turning movement count was conducted on September 15, 2004 at the intersection during peak travel periods. The traffic count was conducted from 7:00am to 9:00am, 11:00am to 2:00pm and 3:00pm to 6:00pm. The collected traffic volumes compared to the Provincial Warrant for All-Way Stop Control are as shown below.

- | | |
|-----------------------------------------|----------------|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted 100% |
| • Warrant 2 – Accident Hazard | Warranted 100% |
| • 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 count meet the requirements of the Provincial Warrant for All-Way Stop Control. The above results for Warrant 1 reflect the peak hourly average traffic at this intersection.

There are no sight distance restrictions noted at this intersection. There were 20 reported vehicle collisions at this intersection over a three-year period that would be correctable by installation of an all-way stop control. Therefore, it would be beneficial to implement an all-way stop control at the intersection until such time the installation of traffic signals occurs.

The installation of traffic signals at this intersection is proposed in 2005. Sufficient funds have been allocated in the Draft 2005 Capital Budget for Council's consideration.

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 and the necessary resources have been allocated and approved.

Conclusion

Based on staff's review, it is recommended that an all-way stop control be installed at the intersection of Edgeley Boulevard and southern leg of Applewood Crescent.

Attachments

1. Location Map

Report prepared by

Mark Ranstoller, Senior Transportation Technologist, ext. 8251
Mike Dokman, Supervisor, Traffic Engineering, ext. 8031

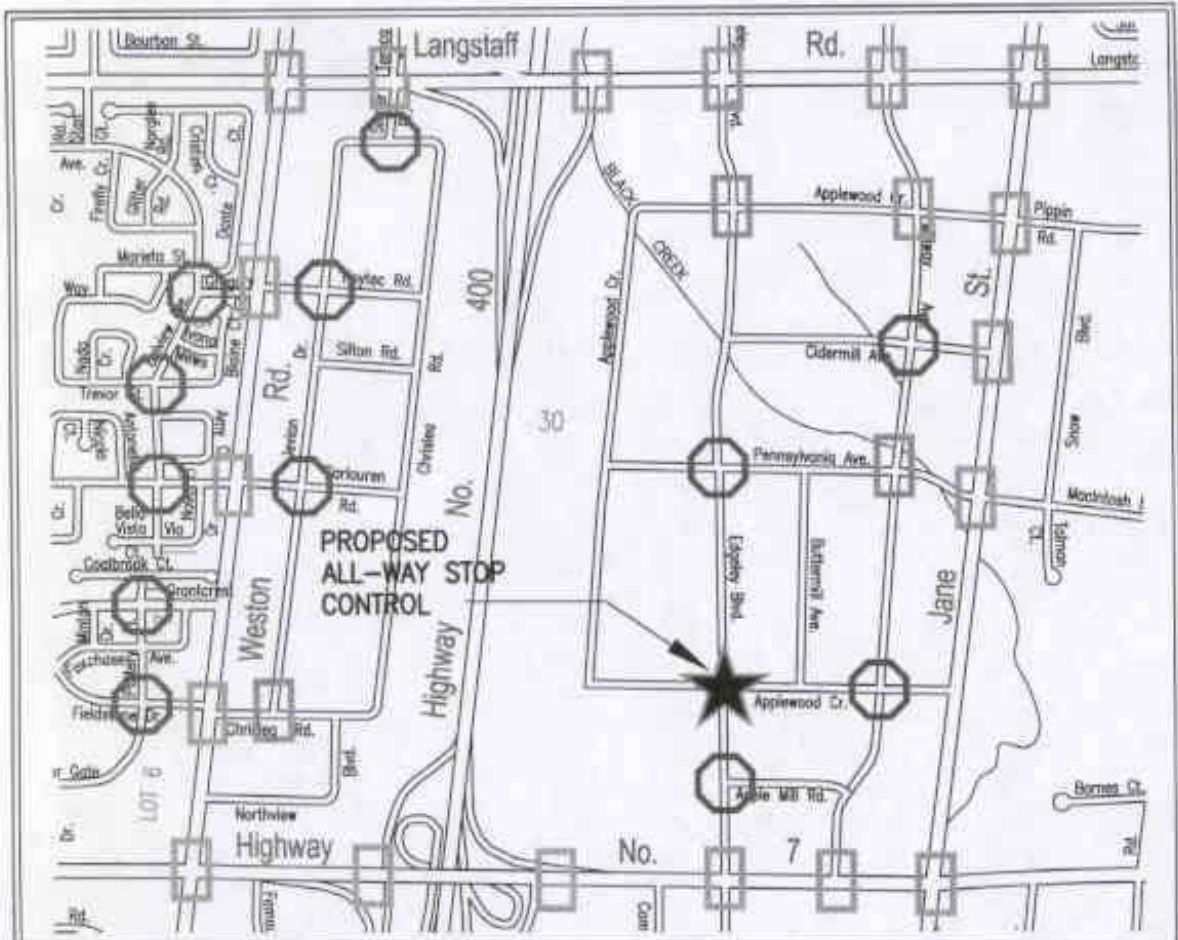
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services




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ATTACHMENT No. 1



EDGELEY BOULEVARD AND APPLEWOOD CRESCENT PROPOSED ALL-WAY STOP CONTROL

LEGEND

-  PROPOSED ALL-WAY STOP CONTROL
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALLWAY STOP CONTROL



NOT TO SCALE

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