

COMMITTEE OF THE WHOLE – OCTOBER 4, 2004

ELLERBY SQUARE AND RAINBOW DRIVE PROPOSED ALL-WAY STOP CONTROL

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control not be installed at the intersection of Ellerby Square and Rainbow Drive.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Ellerby Square and Rainbow Drive, in response to direction from Council.

Background - Analysis and Options

At its meeting on May 25, 2004 Council directed:

“THAT the Engineering staff be directed to review the feasibility of placing a three-way stop on Ellerby Square and Rainbow Drive”

Ellerby Square and Rainbow Drive are local residential roads. The speed limit on both streets is a statutory 50 km/h. The existing stop control is located on Ellerby Square at Rainbow Dr. The area is shown on Attachment No. 1.

Staff conducted a turning movement count on September 6, 2004 at the intersection during peak travel periods. The times that the counts were conducted were from 7:00am to 9:00am and 4:00pm to 6:00pm. The collected traffic volumes compared to the Provincial Warrant for All-Way Stop Control are as shown below.

Ellerby Square and Rainbow Drive

- | | |
|---|--------------|
| • Warrant 1 – Minimum Vehicular Volumes | Warranted 7% |
| • 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 do not meet the requirements of the Provincial Warrant for All-Way Stop Control. The above results reflect the highest peak traffic hour at this intersection.

There are no sight distance restrictions noted at this intersection. There were also no reported vehicle collisions at this intersection.

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 not be installed at the intersection of Ellerby Square and Rainbow Drive.

Attachments

1. Location Map

Report prepared by

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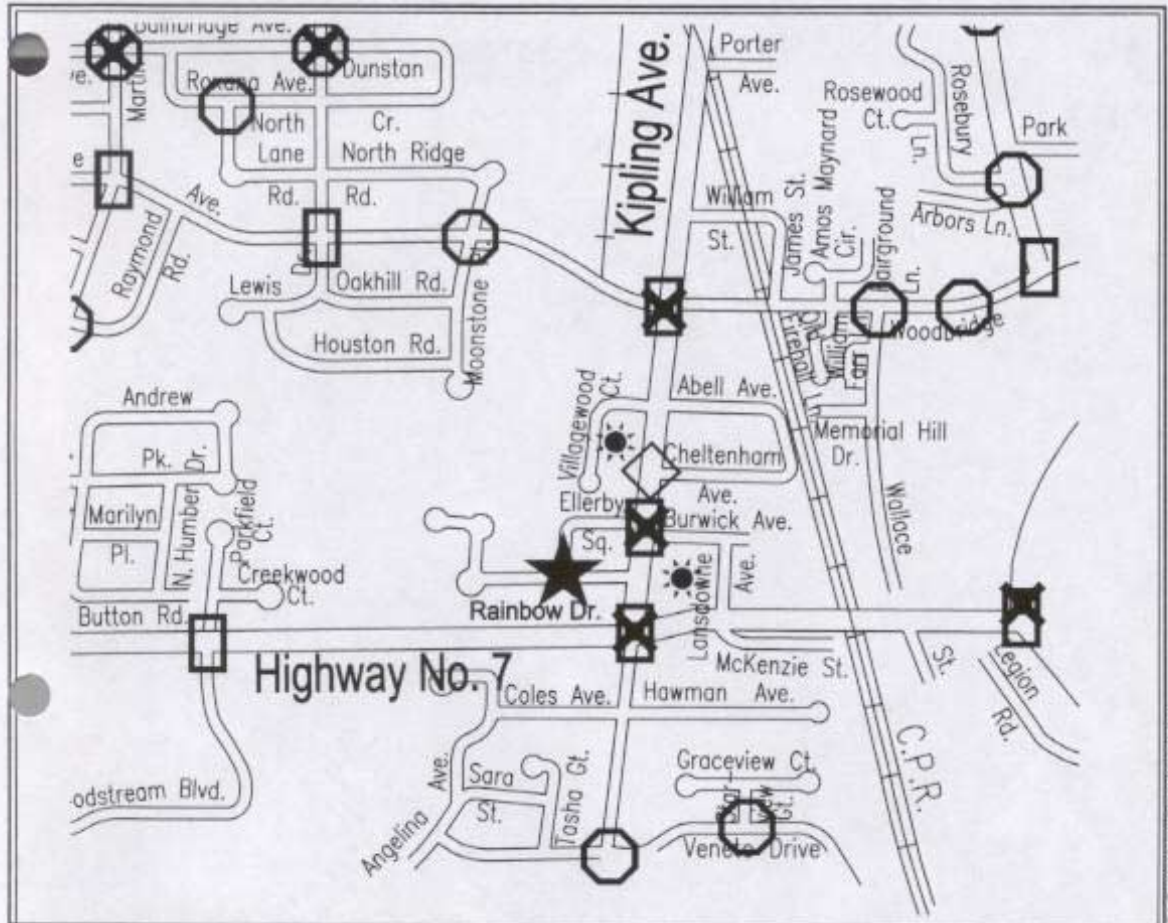
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services

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ATTACHMENT No. 1



ELLERBY SQUARE AND RAINBOW DRIVE PROPOSED ALL-WAY STOP

LEGEND

- ★ INTERSECTION UNDER REVIEW
- ◻ EXISTING TRAFFIC SIGNALS
- EXISTING ALLWAY STOP CONTROL
- ⊗ EXISTING SUPERVISED SCHOOLCROSSING
- ☼ EXISTING FLASHING SCHOOL BEACON
- ◊ EXISTING PEDESTRIAN SIGNAL



NOT TO SCALE