

COMMITTEE OF THE WHOLE JANUARY 21, 2008

**COSTA ROAD AND FRESHWAY 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 Costa Road and Freshway Drive.

Economic Impact

There are sufficient funds in the draft 2008 Operating Budget for this work and future Operating Budgets would have sufficient funds for ongoing maintenance of the signs and markings.

Communications Plan

Staff will notify the area business representative of Council's decision on this matter.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Costa Road and Freshway Drive, in response to a request from an area business representative.

Background - Analysis and Options

A request has been received to review the traffic activity at the intersection of Costa Road and Freshway Drive. Costa Road and Freshway Drive are industrial roadways with a 20.0 metre right-of-way and a pavement width of 10.0 metres. The existing stop control is located on Costa Road. The existing speed limit on both roadway is 50 km/h. The area is shown in Attachment No.1.

Staff conducted a turning movement count on Wednesday, November 14, 2007 at the intersection of Costa Road and Freshway Drive. The times studied in the morning and afternoon peak time periods were 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 cool and raining. The data collected was compared to the Provincial Warrant for All-Way Stop Control with the following results:

Warrant 1 – Minimum Vehicular Volumes	Warranted	94%
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%. Existing traffic volumes fulfill 94% of the required 100%. There are no recorded vehicle collisions at this intersection from June 2005 through to June 2006, the last year for which collision data is available. There are no sight restrictions at this intersection. According to the results above, this intersection does not meet the minimum requirements of the Provincial Warrant.

Staff however believes it would be beneficial to install an all-way stop control at the intersection of Costa Road and Freshway Drive. The warrant requires a combined total of 120 vehicles and pedestrians to cross the major roadway of Freshway Drive from the minor roadway of Costa Road. Staff recorded a total of 113 vehicles and pedestrians crossing Freshway Drive from Costa Road, 7 vehicles/pedestrians below the criteria in the All-Way Stop Warrant. Since the additional 7 vehicles/pedestrians required to fulfill the warrant could be met at anytime, it would

be beneficial to install an all-way stop control at the intersection of Costa Road and Freshway Drive.

Relationship to Vaughan Vision 2020

Enhance and Ensure Community Safety, Health & Wellness – To advocate for, protect and enhance community safety, health and wellness through education, design and enforcement.

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

Regional Implications

Not Applicable.

Conclusion

Based on staff's review, it is recommended that all-way stop control be installed at the intersection of Costa Road and Freshway Drive.

Attachments

1. Location Map

Report prepared by:

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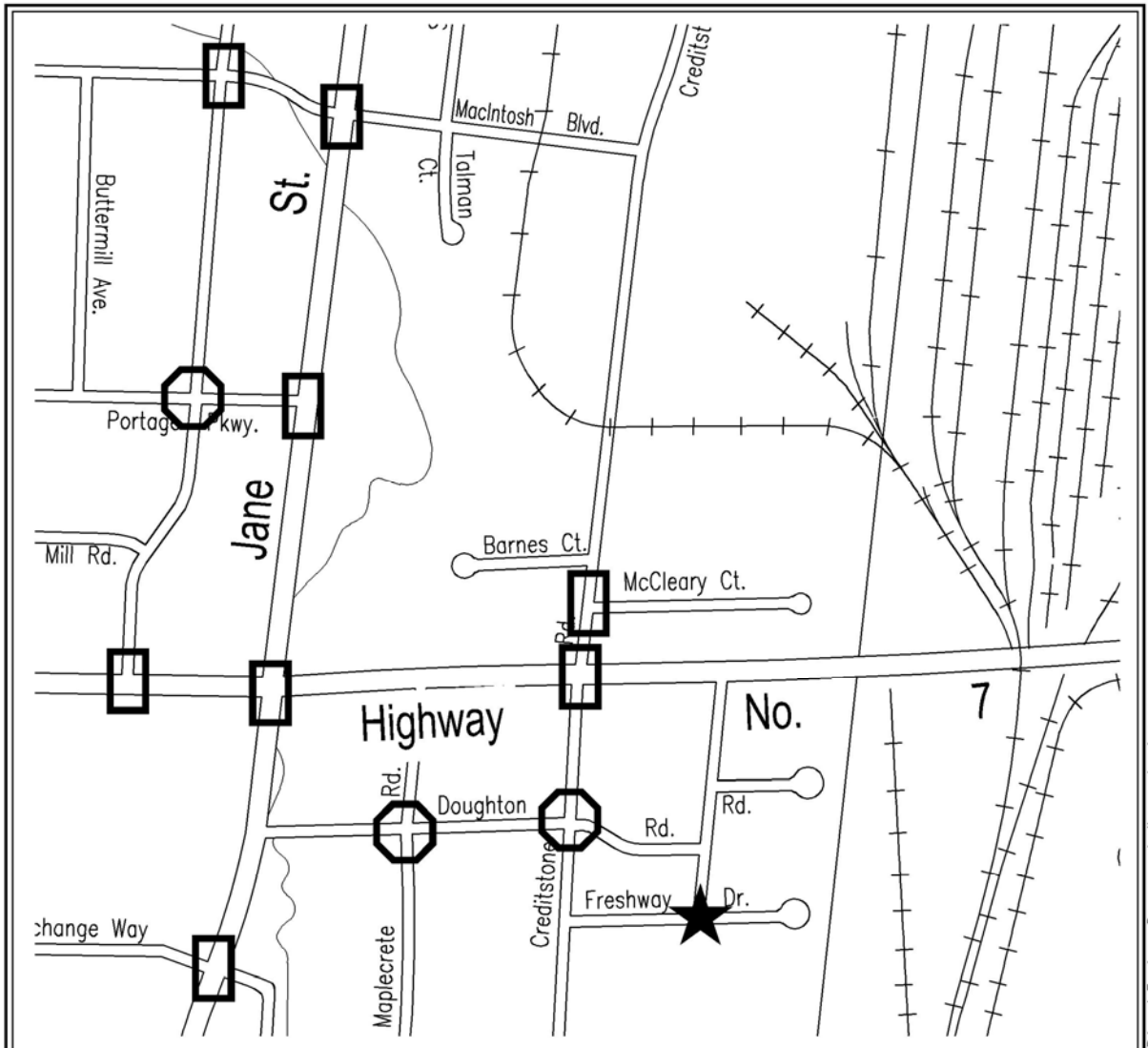
Respectfully submitted,

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

Mike Dokman, C.E.T.
Supervisor, Traffic Engineering




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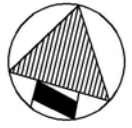
ATTACHMENT No. 1



COSTA ROAD and FRESHWAY DRIVE PROPOSED ALL - WAY STOP CONTROL

LEGEND

-  INTERSECTION UNDER REVIEW
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL



NOT TO SCALE