

COMMITTEE OF THE WHOLE – DECEMBER 11, 2006

**MORNING STAR DRIVE AND CORONATION STREET/HOLLYBURN COURT
ALL-WAY STOP CONTROL REVIEW**

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control be installed at the intersection of Morning Star Drive and Coronation Street/Hollyburn Court.

Economic Impact

The cost to install the all-way stop control signs and pavement markings will be an initial impact on the 2007 Operating Budget. The on-going 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 Morning Star Drive and Coronation Street/Hollyburn Court.

Background - Analysis and Options

A request was received to review the traffic activity at the intersection of Morning Star Drive and Coronation Street/Hollyburn Court. Morning Star Drive is a feeder roadway with a 23 metre right-of-way. Coronation Street is a local roadway with a 20 metre right-of-way. Hollyburn Court is a local, residential court with a 20 metre right-of-way. The existing stop controls are located on Coronation Street and Hollyburn Court. There is an existing school crossing guard on the west leg of the intersection of Morning Star Drive and Coronation Street/Hollyburn Court. San Marco Catholic School is located south of this intersection on the west side of Coronation Street. The area is shown in Attachment No.1.

A turning movement count was conducted on Wednesday, November 8, 2006 at the intersection of Morning Star Drive and Coronation Street/Hollyburn Court during the morning and afternoon peak time periods of 7:00 am to 9:00 am, and 3:00 pm to 6:00 pm. The weather on this day was cloudy with rain in the a.m. period. The data collected was compared to the Provincial Warrant for All-way Stop Control with the following results:

• Warrant 1 – Minimum Vehicular Volumes	Warranted	91%
• 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 at this intersection susceptible to prevention by implementing an all-way stop control over the last twelve-month period. There are no sight distance 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 Morning Star Drive and Coronation Street/Hollyburn Court. The warrant requires a combined total of 120 vehicles and pedestrians to cross the major roadway of Morning Star Drive from the minor roadway of Coronation Street/Hollyburn Court. Staff recorded a total of 109 vehicles and

pedestrians crossing Morning Star Drive from Coronation Street/Hollyburn Court, 11 vehicles/pedestrians below the criteria in the All-Way Stop Warrant.

Since the additional 11 vehicles/pedestrians required to fulfill the warrant could be met at anytime staff is recommending the installation an all-way stop control to improve traffic operations 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.

Conclusion

Based on this review, it is recommended that an all-way stop control be installed at the intersection of Morning Star Drive and Coronation Street/Hollyburn Court.

Attachments

1. Location Map

Report prepared by:

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Mike Dokman, Supervisor Traffic Engineering, Ext. 3118

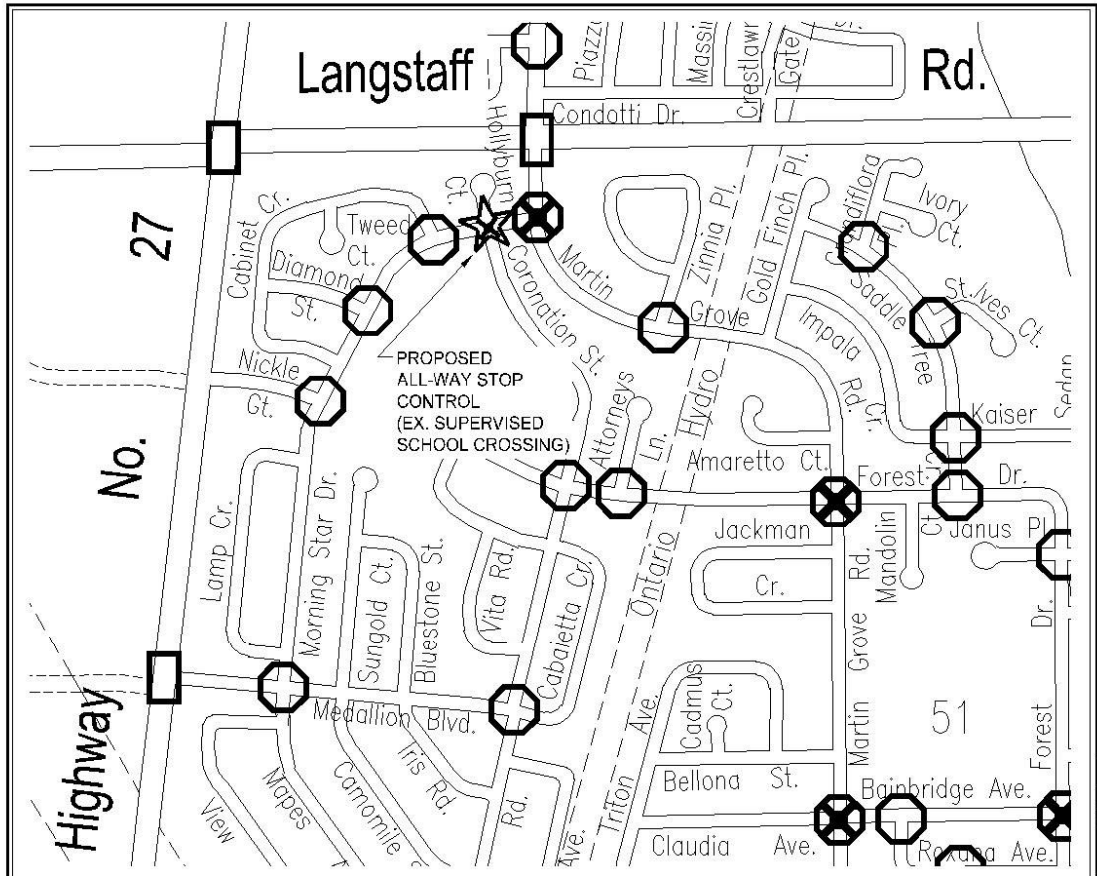
Respectfully submitted,

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

Gary Carroll, P. Eng.
Director of Engineering Services







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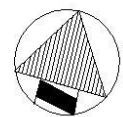
ATTACHMENT No. 1



MORNING STAR DRIVE AT CORONATION STREET / HOLLYBURN COURT

LEGEND

-  "PROPOSED ALL-WAY STOP CONTROL"
-  EXISTING TRAFFIC SIGNALS
-  EXISTING ALL-WAY STOP CONTROL
-  EXISTING SUPERVISED SCHOOL CROSSING
-  EXISTING FLASHING SCHOOL BEACON
-  PEDESTRIAN SIGNAL OR HALF SIGNAL



NOT TO SCALE

Drawing name: R:\ENGINEERING\TRANSPO\Tim A\Morning Star Drive at Coronation and Hollyburn.dwg

ATTACHMENT No. 1

