



Report to: General Committee

Date Report Authored: January 17, 2014

SUBJECT: Hollingham Road & Greystone Road Proposed All-way Stop Control

PREPARED BY: Audrey Basham, Traffic Operations Technologist, ext. 4020
David Porretta, Traffic Operations Supervisor, ext. 2040

RECOMMENDATION:

- 1) That the report entitled "Hollingham Road & Greystone Road Proposed All-way Stop Control", be received;
- 2) And that Schedule 12 of Traffic By-law 106-71, pertaining to compulsory stops, be amended to include all approaches to the intersection of Hollingham Road & Greystone Road ;
- 3) And that the Operations Department be directed to install the appropriate signs and pavement markings at the subject locations;
- 4) And that the cost of materials and installation for the traffic signs and pavement markings be funded from capital project # 14228 (Traffic Operational Improvements) in the amount of \$500;
- 5) And that York Region Police be requested to enforce the all-way stop control upon installation of these stop signs and passing of the By-law;
- 6) And that staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

This report recommends implementing an all-way stop at the intersection of Hollingham Road and Greystone Road to improve intersection operations and address safety concerns.

BACKGROUND:

Operations staff received a concern from a resident expressing difficulty crossing the intersection of Hollingham Road and Greystone Road, due to the amount of traffic and lack of safe opportunities to cross.

The intersection of Hollingham Road and Greystone Road is located south of 16th Avenue and west of Warden Ave. (see Attachment "A"). Hollingham Road is a residential collector road with an average daily traffic (ADT) volume of 2,200 vehicles near the subject intersection. Greystone Road is also a residential collector road, with an ADT volume of 1,800 vehicles. Stop control at the intersection is currently assigned to Greystone Road only, giving traffic on Hollingham Road the right-of-way.

DISCUSSION:

All-way stop control at Hollingham Road and Greystone Road is recommended

In response to the aforementioned concerns, Operations staff conducted an all-way stop warrant analysis at the subject intersection. An all-way stop control may be considered where provincial

warrant guidelines are met, as outlined in the Ontario Traffic Manual. The warrant considers total vehicular volume and volume distribution between the “major” and “minor” approaches of the intersection during the busiest hour of the day.

In November 2013, the Operations Department conducted an all-way stop warrant analysis during the busiest one-hour period of a typical weekday (8:00am – 9:00am). The warrant analysis results are as follows:

Figure 1: All-way Stop Warrant Results (November 2013)

CRITERIA #1 Total Traffic Volume (All Approaches)			CRITERIA #2 Volume Assigned to “Minor” Street (Greystone Rd.)		
Minimum Criteria	Recorded Value	Criteria Met?	Minimum Criteria	Recorded Value	Criteria Met?
350	658	YES	25%	31%	YES

All-way stop control is warranted when both Criteria #1 and Criteria #2 are satisfied. As shown above, the intersection does meet Provincial guidelines for all-way stop control. Therefore, Operations Department recommends that an all-way stop control be provided at the subject intersection. Once implemented, it is expected that the all-way stop control will improve intersection operations and pedestrian safety at the intersection by requiring all vehicles to come to a full stop at the intersection and providing right-of-way to pedestrians, if present.

FINANCIAL CONSIDERATIONS:

The cost of materials and installation for the traffic signs and pavement markings in the amount of \$500 has been included in the capital project # 14228 (Traffic Operational Improvements). On-going maintenance costs for this installation will be considered in the 2014 Operations Department operating budget.


ALIGNMENT WITH STRATEGIC PRIORITIES:

This report aligns with the community safety component of Markham’s transportation strategic priority.

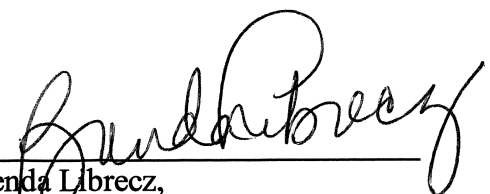
DEPARTMENTS CONSULTED AND AFFECTED:

Not applicable.

RECOMMENDED BY:



 Paul Ingham,
 Director, Operations



 Brenda Librecz,
 Commissioner, Community & Fire Services

ATTACHMENTS:

- Attachment “A” – Proposed All-Way Stop Control Location Map
- Attachment “B” – All-way Stop Control By-Law Amendment