

## **Proposed All-Way Stop Control on Meadowvale Road at Old Finch Avenue**

<b>Date:</b>	May 14, 2007
<b>To:</b>	Scarborough Community Council
<b>From:</b>	Director, Transportation Services, Scarborough District
<b>Wards:</b>	Ward 42 – Scarborough-Rouge River
<b>Reference Number:</b>	P:\2007\Cluster B\TRA\Scarborough\sc07034 D07-0296 Meadowvale Old Finch

### **SUMMARY**

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This report provides the results of an all-way stop control study conducted at the intersection of Meadowvale Road and Old Finch Avenue.

Traffic studies reveal that an all-way stop control is warranted at the noted intersection.

### **RECOMMENDATIONS**

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**Transportation Services, Scarborough District, recommends that:**

1. The “Compulsory Stops” regulation, as identified in the Appendix 1 of this report, be adopted.
2. The appropriate by-law be amended.

### **FINANCIAL IMPACT**

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The financial cost of installing these stop controls is approximately \$1,000.00. The funding for these stop controls is available in the Transportation Services 2007 Operating Budget, within Cost Centre TP0226.

## **ISSUE BACKGROUND**

Further to a request from a teacher at Hillside Public School, Transportation Services staff reviewed the feasibility of installing an all-way stop control at the intersection of Meadowvale Road and Old Finch Avenue.

The justification for the installation of an all-way stop control is based on a technical warrant adopted by Council for use in the city of Toronto.

## **COMMENTS**

Several factors describing the intersection of Meadowvale Road and Old Finch Avenue include:

- This four-way intersection is located in the Rouge Neighbourhood and is presently controlled by eastbound and westbound stop signs on Old Finch Avenue, which are supplemented by painted stop bars.
- Hillside Public School is located on the northeast corner of the intersection.
- Meadowvale Road is a collector road with four lanes south of Old Finch Avenue and two lanes north of Old Finch Avenue.
- The daily traffic volume on Meadowvale Road is approximately 5,500 and 2,900 vehicles per day south and north of Old Finch Avenue, respectively.
- The posted speed limit on Meadowvale Road is 60 and 50 kilometres per hour (km/h) south and north of Old Finch Avenue, respectively.
- Old Finch Avenue west of Meadowvale Road is a two-lane collector road with a posted speed limit of 50 km/h.
- Old Finch Avenue east of Meadowvale Road is approximately 50 metres in length and provides access only to Hillside Public School and a residential property.
- Sight lines for southbound motorists on Meadowvale Road of motorists existing from Old Finch Avenue are not optimal due to the grade of the roadway north of the intersection. A “Hidden Intersection” warning sign (symbol type) currently exists on Meadowvale Road in advance of the intersection facing southbound traffic.
- A sidewalk is located only on the west side of Meadowvale Road, south of Old Finch Avenue.

### **All-Way Stop Control Warrant Study**

A traffic study conducted at the intersection of Meadowvale Road and Old Finch Avenue during the morning and afternoon peak hours of a typical weekday (Thursday, March 29, 2007) produced the following results:

All-Way Stop Control Warrant	A Total Approach Vehicle Volume	B Vehicle/Pedestrian Volume Crossing Major Road	C Unit Volume Split* Major/Minor Roads
Four-Hour Study Period Average	763	266	65/35
Warrant Requirements For Study Period Average For Collector Roads	≥ 375	≥ 150	≥ 30/70 or ≤ 70/30

\* “Unit Volume Split”: Major Road Volume – Vehicles only.  
Minor Road Volume – Vehicles plus pedestrians crossing the major road.

For an all-way stop control to be numerically justified, the traffic volume requirements for the “Study Period Average” must be completely satisfied in Categories A and C, or Categories B and C.

As outlined in the above table, all categories completely satisfied the warrant requirements. Therefore, an all-way stop control is warranted and should be installed at this intersection. When installed, the stop signs will enhance traffic safety at this intersection.

### **Collision History**

A review of the Toronto Police Service collision records for the five-year period ending December 31, 2006 revealed that four collisions have been reported at the subject intersection, of which, one may have been susceptible to correction by the use of an all-way stop control. No pedestrian collisions have occurred at this intersection.

### **CONTACT**

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### **SIGNATURE**

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Peter J. Noehammer, P. Eng.  
Director, Transportation Services, Scarborough District

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### **ATTACHMENTS**

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed All-Way Stop Control – Meadowvale Road at Old Finch Avenue)

Appendix 1

“Compulsory Stops”  
Regulation to be Enacted

Column 1  
Intersection

Column 2  
Stop Street

Meadowvale Road and  
Old Finch Avenue

Meadowvale Road