



STAFF REPORT ACTION REQUIRED

Nairn Avenue and Kitchener Avenue– All-Way Stop Control

Date:	August 8, 2008
To:	Etobicoke York Community Council
From:	Director, Transportation Services Toronto - Etobicoke York District
Wards:	Ward 17 - Davenport
Reference Number:	p:\2008\Cluster B\TRA\EtobicokeYork\eycc080121-to

SUMMARY

This staff report is about a matter which Community Council has delegated authority from City Council to make a final decision.

The purpose of this report is to obtain approval for an all-way “Stop” control at the intersection of Nairn Avenue and Kitchener Avenue. As the warrant requirements are met, an all-way “Stop” is recommended to enhance the operational safety of this intersection.

RECOMMENDATIONS

Transportation Services recommend that Etobicoke York Community Council approve:

1. The installation of “Stop” signs for northbound and southbound traffic on Nairn Avenue at Kitchener Avenue.

Financial Impact

Type of Funding	Source of Funds	Amount
Available within current budget	Transportation Services Operating Budget	\$600.00

ISSUE BACKGROUND

Councillor Cesar Palacio, on behalf of area resident safety concerns, requested Transportation staff to investigate and report on the feasibility of installing an all-way stop control at the intersection of Nairn Avenue and Kitchener Avenue.

COMMENTS

Nairn Avenue is a local road operating two-way northbound and southbound with a speed limit of 40 km/h and a road width of 8.5 metres. Kitchener Avenue is a local street operating two-way with posted speed limits of 40 km/h and a road width of 8.5 metres. Kitchener Avenue has a stop control on the west approach, at Nairn Avenue.

A review of the Toronto Police Service collision records over a three-year period ending December 31, 2007, did not disclose any collisions at the subject intersection.

Our study results reveal, as set in **Appendix A** attached, that although the warrant requirements under Warrant “A” are not achieved, the warrant criteria under Warrant “B” have been achieved. Accordingly, the subject intersection satisfies the operational elements for the implementation of an all-way stop control.

To improve the regulation of traffic and to enhance pedestrian safety, it is recommended that northbound and southbound "Stop" signs be installed on Nairn Avenue at Kitchener Avenue, in order to create an all-way stop condition at the intersection.

CONTACT

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SIGNATURE

John Niedra, P.Eng.
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ATTACHMENTS

Appendix A
Attachment No. 1: Map

APPENDIX A

The justification for the installation of an all-way stop control is based on the technical warrant adopted by Toronto City Council:

Warrant “A”: Collision History

This warrant determines the average number of reported collisions per year over a three-year period of the type susceptible to correction by the use of all-way ‘Stop’ sign controls and where less restrictive measures have been tried and found inadequate. The warrant is met if the average number of collisions is greater than or equal to:

- (i) two for major roads considered as Local;
- (ii) three for major roads considered as Collector (AADT less than or equal to 6000);
or
- (iii) four for other roads

	Year 1	Year 2	Year 3	Average	Warrant ‘A’ Met
Three-year period	2005	2006	2007		
Number of Collisions	0	0	0	0	NO

Warrant “B”: Traffic Volume

Two-Hour Study Period	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road	Unit Volume Split Major/Minor Roads
Study Period Average	371	128	68/32
Warrant Requirements for Study Period Average	≥250	≥100	≥30/70 or ≤70/30

To warrant the installation of an all-way “Stop” sign control under Warrant “B”, the traffic volume requirements for the “Study Period Average” must be completely satisfied in either of the following two combinations:

- (a) “Total Approach Vehicle Volume” & “Unit Volume Split – Major/Minor Roads”
or
- (b) “Vehicle/Pedestrian Volume Crossing Major Road” & “Unit Volume Split-Major/Minor Roads”