



**STAFF REPORT
ACTION REQUIRED**

**Proposed Right-Turn Lane Designation
Northbound Brimley Road at Progress Avenue**

Date:	May 14, 2007
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Ward:	Ward 38 – Scarborough Centre
Reference Number:	P:\2006\Cluster B\TRA\Scarborough\sc07036 D06-2249 Northbound Brimley Road at Progress Avenue Lane Designation

SUMMARY

This report provides the results of a review of northbound and westbound vehicle observations at Brimley Road and Progress Avenue.

Transportation Services staff recommends the northbound curb lane be a designated right-turn only lane and that it should be signed accordingly. This recommendation is being made at this time as a reflection of the increasing retail development in this vicinity that may increase the number of potential conflicts at this intersection.

Council’s approval of the Brimley Road at Progress Avenue right turn lane designation will separate competing traffic movements and clearly define the right-of-way between northbound and westbound motorists.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that:

1. The northbound curb lane designation, on Brimley Road at Progress Avenue, as identified in the “One Way Traffic Lanes” regulation in Appendix 1 of this report be adopted.
2. The appropriate by-laws be amended.

FINANCIAL IMPACT

The financial cost of installing the compulsory right turn lane signage is approximately \$500.00. Funding for these compulsory signs is available in the Transportation Services 2007 Operating Budget, within Cost Centre TP0226.

ISSUE BACKGROUND

Further to a request from an inquirer, Transportation Services staff investigated the feasibility of designating this northbound curb lane as a right-turn only lane.

The following characteristics describe the intersection of Brimley Road at Progress Avenue:

- This signalized intersection is located to the south west of McCowan Road and Highway 401 interchange by the Scarborough Civic Centre.
- Brimley Road is a four-lane major arterial road with a posted speed limit of 60 kilometres per hour and a daily traffic volume of approximately 32,000 vehicles per day.
- Progress Road is a four-lane minor arterial road with a posted speed limit of 60 kilometres per hour and a daily traffic volume of approximately 20,000 vehicles per day.

COMMENTS

Transportation Services staff observations of northbound curb lane usage revealed that most motorists (i.e., 60% of the 167 vehicles observed) turned right, while a lesser number (i.e., 40%) continued through northbound in the painted right-turn curb lane. These afternoon peak hour observations did not show any conflicting vehicular interactions.

Transportation staff also observed the number of westbound right turns on Progress Avenue during a similar afternoon peak hour. Of the total right turn volume of 492 vehicles, most were made on green or amber (i.e., 473), while a minority were made on red (i.e.,19). The right turn on red vehicles are the only potential conflict with northbound through vehicles in the curb lane. None of these conflicts were observed.

A five year review of the Toronto Police Service collision records for which we have a complete data (January 1, 2002 to December 31, 2006) shows that four sideswipe collisions have occurred at this intersection during this time. This collision record is not indicative of a safety problem at the subject intersection.

An Analysis of the level of service at this intersection, following the proposed lane conversion, shows that the overall operation of the intersection will remain much the same. The slight decrease in northbound through operations should be positively offset by the potential safety benefit of the proposed lane designation.

Designating the northbound approach of Brimley Road at Progress Avenue with a northbound right-turn lane will decrease the potential vehicle movement conflict of northbound through and westbound right turns on red.

When installed, the lane designation signs will help to clarify road right-of-way and regulate traffic flow.

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ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Right-Turn Lane Designation Northbound Brimley Road at Progress Avenue)

Appendix 1

“One-Way Traffic Lanes”

Regulation to be enacted

Column 1 Highway	Column 2 Direction	Column 3 Lanes	Column 4 Times or Days	Column 5 Direction
Brimley Road and Progress Avenue (M.T. 59)	Brimley Road and a point 112 metres south thereof	Easterly Northbound	Anytime (buses excepted)	Northbound right-turning