



**STAFF REPORT
ACTION REQUIRED**

**Proposed Left Turn Prohibitions on Markham Road at
1200/1210 Markham Road**

Date:	October 1, 2007
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 38 – Scarborough Centre
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07061 D07-0491 Markham 1200/1210

SUMMARY

This staff report is about a matter for which the Community Council does not have delegated authority from City Council to make a final decision.

This report describes a review of the feasibility of installing eastbound left turn and northbound left turn prohibitions at Markham Road and the driveway of 1200/1210 Markham Road. The results of this review reveal that eastbound and northbound left turn prohibitions, from 3:00 p.m. to 7:00 p.m., are recommended.

Council’s approval of these prohibitions will enhance traffic safety at this location.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that Scarborough Community Council:

1. Prohibit northbound left turns between 3:00 p.m. and 7:00 p.m from Markham Road into 1200/1210 Markham Road,
2. Prohibit eastbound left turns between 3:00 p.m. and 7:00 p.m. onto Markham Road from 1200/1210 Markham Road,
3. Adopt the “Prohibited Turns” regulation, as identified in Appendix 1 of this report, and
4. Amend the appropriate by-law accordingly.

Financial Impact

The financial cost of installing these left turn prohibition signs is approximately \$600.00. Funding for the signs is available in the Transportation Services 2007 Operating Budget, within Cost Centre TP0226.

ISSUE BACKGROUND

Further to a request from City Councillor Glenn De Baeremaeker, Transportation Services staff reviewed the feasibility of left turn prohibitions at Markham Road and the driveway to 1200/1210 Markham Road. Concerns about the number of collisions occurring at this location prompted this request.

COMMENTS

Several characteristics describe this location at Markham Road and the driveway to 1200/1210 Markham Road:

- The subject driveway is situated on the west side of Markham Road, approximately 124 metres north of Ellesmere Road.
- Markham Road is a major arterial roadway with seven lanes including a shared centre left turn lane.
- Markham Road has a speed limit of 60 km/h and a daily traffic volume of approximately 54,000 vehicles per day.
- 1200 and 1210 Markham Road share a mutual driveway with a pavement width of 13.0 metres.
- Alternate access for 1200 and 1210 Markham Road exists on Ellesmere Road, west of Markham Road, and on Markham Road, just north of the subject driveway.

Collision Review

A review of the Toronto Police Service collision records at the subject driveway on Markham Road for the five-year period ending December 31, 2006 revealed the following history:

Five-Year Collision Information	Number of Reported Collisions					
	2002	2003	2004	2005	2006	Total
Total Collisions	35	16	33	23	11	118
Collisions Involving Eastbound Left-Turning Motorists Exiting 1200/1210 Markham Road Driveway (Occurred between 3:00 p.m. and 7:00 p.m.)	17 (7)	8 (3)	19 (16)	8 (8)	4 (4)	56 (38)
Collisions Involving Northbound Left-Turning Motorists Entering 1200/1210 Markham Road Driveway (Occurred between 3:00 p.m. and 7:00 p.m.)	18 (8)	7 (2)	14 (12)	14 (9)	6 (3)	59 (34)

As evidenced in the above table, of the total 118 collisions, 115 (97%) involved eastbound left-turning (56) and northbound left-turning (59) motorists. In addition, of the 115 combined eastbound left turn and northbound left turn collisions, 72 (63%) occurred between 3:00 p.m. and 7:00 p.m. One of the northbound left turn collisions in 2005 was a fatality. This collision occurred on Tuesday, April 5 at 5:20 p.m.

As a result, in an attempt to reduce these collisions, eastbound and northbound left turn prohibitions are recommended during the weekday afternoon time period between 3:00 p.m. and 7:00 p.m.. With the installation of this prohibition, approximately 220 motorists (70 northbound left turns and 150 eastbound left turns) would be affected during the four-hour period. However, there are other driveways (Ellesmere Road, west of Markham Road, and Markham Road, just north of the subject driveway) to accommodate the proposed prohibited movements. Staff have conducted capacity surveys at these alternate locations to confirm that the diverted turning movements can be accommodated.

In summary, due to the collision history at the shared driveway to 1200 and 1210 Markham Road, specifically revealing two patterns involving eastbound left turns onto Markham Road from the subject shared driveway, and northbound left turns from Markham Road into the subject driveway, eastbound and northbound left turn prohibitions are recommended during the 3:00 p.m. and 7:00 time period.

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SIGNATURE

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ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Eastbound and Left Turn Prohibitions – Markham Road at 1200/1210 Markham Road Driveway)
3. Location Plan (Area Driveways – 1200 to 1220 Markham Road & 2100 Ellesmere Road)
4. Five-Year Collision History Graph (2002 to 2006)

Appendix 1

“Prohibited Turns”
Regulation to be enacted

Column 1 Intersection or <u>Portion of Highway</u>	Column 2 <u>Direction</u>	Column 3 Turns <u>Prohibited</u>	Column 4 <u>Times or Days</u>
Markham Road, west side, and the access to Nos. 1200 and 1210 Markham Road, located approximately 124 metres north of Ellesmere Road	Eastbound and Northbound	Left	3:00 p.m. to 7:00 p.m.