



**STAFF REPORT
ACTION REQUIRED**

Traffic Control Signals – Ellesmere Road east of Victoria Park Avenue

Date:	August 22, 2013
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 37/40– Scarborough Centre/Scarborough Agincourt
Reference Number:	P:\2013\Cluster B\TRA\Scarborough\sc1354.docx D13-5579016 Ellesmere Road West of Pollard Drive

SUMMARY

This report addresses the installation of Traffic Control Signals in fulfilment of a condition of approval for a development application at the mall located at the southeast corner of Victoria Park Avenue and Ellesmere Road. The proposed Traffic Control Signals will be located approximately 280 metres west of Pharmacy Avenue and 110 metres east of Victoria Park Avenue on Ellesmere Road. The Traffic Control Signals will alternate the right-of-way between a major mall access and east-west traffic on Ellesmere Road.

RECOMMENDATIONS

Transportation Services recommends that:

1. City Council approve the installation of Traffic Control Signals on Ellesmere Road at the private access approximately 110 metres east of Victoria Park Avenue.
2. City Council pass or amend the appropriate by-law(s) accordingly.

Financial Impact

There is no financial impact to the City of Toronto as this installation is being fully funded by the developers of the mall located at 185 Ellesmere Road.

ISSUE BACKGROUND

Further to a request from Councillor Michael Thompson, Transportation Services staff in conjunction with Planning staff reviewed the warrant analysis/justification for Traffic Control Signals on Ellesmere Road at the west Ellesmere Road access to the subject shopping centre. The justification for the installation of Traffic Control Signals is based on provincial standards.

The justification or warrants for traffic control signals at the driveway were satisfied. In addition, a hardwired interconnection between the Traffic Control Signals at Victoria Park Avenue and Ellesmere Road and the proposed new signals was stipulated to maintain co-ordination on Ellesmere Road, mitigating traffic impacts.

COMMENTS

The following characteristics describe the road segment on Ellesmere Road in the vicinity of the driveway located approximately 140 metres east of Victoria Park Avenue:

- Ellesmere Road is a major arterial road carrying approximately 30,000 vehicles per day
- The land uses on the section of Ellesmere Road between Victoria Park Avenue and Pharmacy Avenue is retail/commercial
- Sidewalks are located on both sides of Ellesmere Road
- There are Traffic Control Signals located on Ellesmere Road approximately 110 metres to the west at Victoria Park Avenue and 280 metres to the east at Pharmacy Avenue.

Traffic Control Signal Warrant Study

Transportation Services staff reviewed the Traffic Signal Warrant analysis undertaken on October 19, 2010 (prepared by a consulting engineering firm on behalf of the applicants for the redevelopment), which produced the following results:

Traffic Control Signal Warrant	Compliance Level
	October 19, 2010
Minimum Vehicular Volume	100%
Delay To Cross Traffic	100%
Collision Hazard	53%

For traffic control signals to be numerically justified, one of the “Minimum Vehicular Volume” or “Delay to Cross Traffic” warrants must be 100% satisfied or any two of the three warrants must be at least 80% satisfied. The Traffic Control Signals are warranted.

In conjunction with the activation of the Traffic Control Signals the Pedestrian Refuge Island located at Pollard Drive is to be removed at no cost to the City of Toronto, since it

will be too close to the new traffic control signals to be safe. Pedestrians can walk the short distance of 65 metres to cross Ellesmere Road at the new traffic control signals.

Collision History

Transportation staff reviewed the Toronto Police Service collision records for the five-year period ending December 31, 2012 for the road segment of Ellesmere Road between Victoria Park Avenue and Pollard Drive, revealing the following history:

Five-Year Collision Information	Number of Reported Collisions					
	2008	2009	2010	2011	2012	Total
Collisions Potentially Preventable by the Installation of Traffic Control Signals a	5	4	5	1	2	17
Collisions Involving Pedestrians Crossings	0	1	0	0	2	3

The collision hazard calculated by Transportation staff for the three year period ending December 31, 2012 is 56%.

The most suitable form of traffic control for the subject shopping centre driveway and Ellesmere Road is a Traffic Control Signal since it is projected to be warranted, and it would offer improved safety for motorists and pedestrians.

CONTACT

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SIGNATURE

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ATTACHMENTS

1. Location Plan (Traffic Control Signals - Ellesmere Road East of Victoria Park Avenue)