



**STAFF REPORT
ACTION REQUIRED**

**Proposed Traffic Control Signals – Kingston Road at
Overture Road / Payzac Avenue**

Date:	October 15, 2007
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 43 – Scarborough East
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07058 D07-1617 Kingston Overture Payzac TCS

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.

The purpose of this report is to obtain approval for the installation of traffic control signals at Kingston Road and Overture Road/Payzac Avenue.

Traffic studies reveal that a pedestrian crossover is warranted; however, a safety review indicates that this intersection is not a suitable location for a pedestrian crossover. As a result, traffic control signals should be installed.

RECOMMENDATIONS

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

1. Approve the installation of traffic control signals at the intersection of Kingston Road and Overture Road / Payzac Avenue, and
2. Pass or amend the appropriate by-law(s) accordingly.

Financial Impact

The financial cost of installing these new traffic control signals is approximately \$110,000.00. The funding for these signals is available in Transportation Services Division’s Capital Works Budget under Project No. CTP706-01.

ISSUE BACKGROUND

Further to a request from an area resident, Transportation Services staff reviewed the feasibility of installing a pedestrian crossover or traffic control signals on Kingston Road at Overture Road / Payzac Avenue.

COMMENTS

The following characteristics describe the intersection of Kingston Road and Overture Road / Payzac Avenue:

- This four-way intersection is located in the West Hill Neighbourhood and is presently controlled by stop signs on Overture Road and Payzac Avenue.
- Kingston Road is a six-lane major arterial roadway with left-turn storage lanes and a raised concrete median.
- Kingston Road has a speed limit of 60 kilometres per hour (km/h) and a daily traffic volume of approximately 29,300 vehicles per day.
- Overture Road is a two-lane local roadway with a speed limit of 40 km/h.
- Payzac Avenue is a two-lane local roadway with a speed limit of 50 km/h (not signed).
- Toronto Transit Commission bus stops for both the eastbound and westbound directions along Kingston Road are located on the east side of the intersection.
- Traffic control signals are located approximately 414 metres east at Galloway Road, and 243 metres west at Celeste Drive.
- Sidewalks are located on both sides of Kingston Road.

Pedestrian Crossover Warrant Study

Transportation Services staff conducted a Pedestrian Crossover Warrant Study at the intersection of Kingston Road and Overture Road / Payzac Avenue. Using pedestrian volumes recorded over the peak eight hours of a typical weekday (Tuesday, September 11, 2007), the following results were obtained:

Pedestrian Crossover Warrant	Compliance Level
Pedestrian Volume	153%
Pedestrian Delays	316%

For a pedestrian crossover to be numerically justified, both the “Pedestrian Volume” and “Pedestrian Delays” warrants must be 100% satisfied.

As outlined in the above table, both warrants have been satisfied. However, a review of the design standards, or “environmental standards” for pedestrian crossovers, which describe a roadway environment suitable for this type of control (and exposure factors, which would make a pedestrian crossover unsuitable or potentially unsafe) revealed that a pedestrian crossover would not be a suitable form of pedestrian crossing protection at this location. This is due to the operating speeds (85th percentile speed of 72 km/h) on Kingston Road, the width of the roadway and the proximity of the Toronto Transit

Commission bus stops at this intersection. Accordingly, upgraded crossing protection in the form of traffic control signals should be installed at this location.

Collision History

A review of the Toronto Police Service collision records 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	3	1	2	4	3	13
Collisions Potentially Preventable by the Installation of Traffic Control Signals	1	1	1	1	2	6
Collisions Involving Pedestrians	0	0	0	0	0	0

In summary, studies indicate that there are sufficient pedestrian crossing volumes to justify the installation of a pedestrian crossover at the intersection of Kingston Road and Overture Road / Payzac Avenue. However, since this device would not be a suitable form of pedestrian crossing protection given the roadway environment, traffic control signals should be installed at this intersection.

Accordingly, the resultant installation is expected to improve safety for pedestrians crossing Kingston Road as well as motorists in the intersection and should not have a significant impact on the operation of the arterial road network.

CONTACT

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SIGNATURE

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ATTACHMENTS

1. Location Plan (Proposed Traffic Control Signals – Kingston Road at Overture Road / Payzac Avenue)