



## STAFF REPORT ACTION REQUIRED

### Proposed Installation of Traffic Control Signals at Pharmacy Avenue and Knightsbridge Road

<b>Date:</b>	December 21, 2006
<b>To:</b>	Scarborough Community Council
<b>From:</b>	Director, Transportation Services, Scarborough District
<b>Wards:</b>	<b>Ward 35 – Scarborough Southwest</b>
<b>Reference Number:</b>	P:\2007\Cluster B\TRA\Scarborough\sc07008 D06-2763 Pharmacy Knightsbridge

#### **SUMMARY**

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To obtain approval for the installation of traffic control signals at Pharmacy Avenue and Knightsbridge Road.

A safety review indicates that the existing Pedestrian Crossover (PXO) at the subject intersection is no longer a suitable form of crossing protection at this location. Accordingly, the existing PXO should be removed and replaced with traffic control signals.

#### **RECOMMENDATIONS**

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**Transportation Services, Scarborough District, recommends that:**

1. Traffic control signals be approved at Pharmacy Avenue and Knightsbridge Road.
2. As the traffic control signals are installed, the PXO should be removed.
3. The appropriate City Officials be requested to take whatever action is necessary to complete the foregoing directions and introduce in Council any bills that may be required.

## **FINANCIAL IMPACT**

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The financial cost of installing these new traffic control signals is approximately \$90,000.00. The funding for these signals are available in the Transportation Services Division's Capital Works Budget under Project No. CTP706-01.

The added annual operating and maintenance costs associated with this installation are \$5000,00.00 which includes all communication costs. These funds are available in the current Transportation Services Division.

The Deputy City Manager and Chief Financial Officer have reviewed this report and agree with the financial impact information.

## **DECISION HISTORY**

Further to a request from Mrs. Jennifer Kessell, an area resident, Transportation Services staff conducted a safety review of the existing PXO located at Pharmacy Avenue and Knightsbridge Road.

## **ISSUE BACKGROUND**

To assess the suitability of the existing PXO at this location a detailed safety review of the PXO was conducted. The safety review of the PXO was based on the recommended design standards, or "environmental standards", for PXO's as developed by the Province of Ontario in consultation with Ontario municipalities.

## **COMMENTS**

Several factors involving the existing PXO located at Pharmacy Avenue and Knightsbridge Road include:

- This portion of Pharmacy Avenue is a four-lane minor arterial road with a 50 km/h speed limit and a two-way 24-hour volume of approximately 20,000 vehicles.
- The PXO is located at 723 Pharmacy Avenue, immediately north of Knightsbridge Road.
- The primary users of this PXO are area residents of single family residences on both sides of Pharmacy Avenue.
- Students of Clairlea Public School, approximately 240 metres to the north-west, also make use of this PXO.
- An adult crossing guard assists school children in their crossings at this intersection.
- The Toronto Transit Commission (TTC) has bus stops in the immediate vicinity of the PXO.
- Traffic control signals are located 379 metres to the north at Comstock Road and 733 metres to the south at St. Clair Avenue East.

## **PXO “Environmental Standards”**

Transportation Services staff conducted a detailed review of the subject PXO and compared the standards at this PXO with the recommended design standards or “environmental standards” for PXO’s as developed by the Province of Ontario in consultation with Ontario municipalities. These criteria describe characteristics of a roadway environment suitable for this type of control, and indicate factors which would make a PXO unsuitable or potentially unsafe.

The results of the “environmental standards” review revealed that the subject PXO is no longer a physically suitable form of pedestrian crossing protection. Most notably, vehicle operating speeds are high, with 85<sup>th</sup> percentile speeds in the order of 68 km/h and 64 km/h, northbound and southbound, respectively. Given these prevailing operating speeds, the existing PXO should be replaced with traffic control signals at this location.

The installation of traffic control signals should improve the level of pedestrian crossing safety 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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Peter J. Noehammer, P. Eng.  
Director  
Transportation Services, Scarborough District

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## **ATTACHMENTS**

1. Appendix 1 - By-law Amendment (rescind)
2. Location Plan (Proposed Traffic Control Signals - Pharmacy Avenue and Knightsbridge Road)

## Appendix 1

### “Pedestrian Crossing Locations” Regulation to be Rescinded

Column 1  
Road

Pharmacy Avenue

Column 2  
At

Knightsbridge Road