

Traffic Control Signals – Oakwood Avenue and Rosemount Avenue

Date: November 20, 2018
To: Toronto and East York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 9, Davenport

SUMMARY

The purpose of this report is to obtain approval to convert an existing pedestrian crossover (PXO) to traffic control signals on Oakwood Avenue at Rosemount Avenue.

The installation of traffic control signals is technically justified and will enhance safety for pedestrians and motorists at the intersection of Oakwood Avenue and Rosemount Avenue. Based on the results of traffic control signals warrant, staff is recommending that the pedestrian crossover be replaced with traffic control signals.

As the Toronto Transit Commission (TTC) operates bus service on Oakwood Avenue, City Council approval of this report is required. The TTC has been advised on the matter.

RECOMMENDATIONS

The Acting Director, Traffic Management, Transportation Services, recommends that:

1. City Council authorize the installation of traffic control signals at the intersection of Oakwood Avenue at Rosemount Avenue.
2. City Council authorize the removal of the pedestrian crossover on Oakwood Avenue at Rosemount Avenue in conjunction with the installation of traffic control signals at that intersection.

FINANCIAL IMPACT

The estimated cost for the installation of traffic control signals on Oakwood Avenue at Rosemount Avenue is \$180,000.00. These funds would be included within the Transportation Services 2019 interim Capital Budget subject to the availability of funding and competing priorities.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services staff received a request from Toronto Police Service to replace the existing pedestrian crossover on Oakwood Avenue at Rosemount Avenue with traffic control signals. A map of the area is shown on Attachment 1.

According to the City of Toronto's Road Classification System, Oakwood Avenue is classified as a 'Minor Arterial' road. Oakwood Avenue has a two lane cross section and a 40 km/h speed limit. Rosemount Avenue is designated in the City's Road Classification System as a 'Local' road. Traffic Control Signals exist on Oakwood Avenue 180 meters north of Rosemount Avenue at St Clair Avenue West and 417 meters south of Rosemount Avenue at Davenport Road. Oakwood Collegiate Institute is located at the northwest corner of Oakwood Avenue and Rosemount Avenue.

Furthermore, The Toronto Transit Commission (TTC) operates bus service on Oakwood Avenue with a bus stop currently located on the west side, just north of Rosemount Avenue.

Traffic counts were undertaken at Oakwood Avenue and Rosemount Avenue in March 2018, which included turning movement and pedestrian counts. Based on the eight-hour vehicular and pedestrian traffic counts and the collision history, the technical justification for the installation of traffic control signals were satisfied to the following extent:

Traffic Control Signal Warrant - Oakwood Avenue and Rosemount Avenue

	Actual Hourly Average (A)	Minimum Required (B)	Warrant * %	Criteria **		
				1	2	3
Warrant 1: Minimum Vehicular Volume Warrant (8 Hrs)	169	135	83%	100%	= or >80%	MET
				OR	AND	
Warrant 2: Delay to Cross Traffic Warrant (8 Hrs)	116	60	85%	100%	= or >80%	MET
				OR		
Warrant 3: Collision Hazard Warrant (3 Years)	8	15	53%	100%	0%	NOT MET

* In both Warrants 1 and 2, in order to warrant traffic control signals to a 100 percent value, each hour must meet the maximum or exceed the minimum required values. In some cases, each hour could exceed the maximum value or be below the minimum value but collectively will satisfy the warrant to meet or exceed the 80% minimum value required.

**In order to meet the warrants, 100 percent compliance is required in one of the three warrants or a minimum of 80 percent in both of the first two warrants. The Collision Hazard warrant is based on the number of collisions susceptible to correction by the installation of traffic control signals and must be 100 percent satisfied.

Based on the above review, Transportation Services recommends the installation of the traffic control signals at the intersection of Oakwood Avenue and Rosemount Avenue. The proposed traffic control signal will provide a more appropriate form of crossing protection for pedestrians in this area and will also provide an increased level of control for vehicular traffic at this intersection. Coincident with the installation of the traffic control signals, the existing pedestrian crossover would be removed.

Transportation Services has advised TTC of the proposed traffic control signals. The proposed traffic control signals will not affect any of the existing bus stop locations.

The installation of traffic control signals may result in increased delays for traffic on Oakwood Avenue since the north-south traffic will no longer operate free flow. When developing the proposed signal timings, the need for coordination with the signals at Oakwood Avenue and St Clair Avenue West, as well as any signal priority features, will be reviewed to mitigate these potential delays.

The Ward Councillor is aware and supports the recommendations in this staff report.

CONTACT

Muhammad Qamar
Traffic Engineering - Etobicoke York District
Tel: 416-338-2972
Fax: 416-394-8942
E-Mail: muhammad.qamar@toronto.ca

SIGNATURE

Roger Browne, M. Eng., P. Eng.
Acting Director, Traffic Management
Transportation Services

ATTACHMENT

Attachment 1: Location Plan - Oakwood Avenue and Rosemount Avenue

Attachment 1: Location Plan: Oakwood Avenue and Rosemount Avenue

