

Traffic Control Signals – Dovercourt Road and Geary Avenue

Date: October 17, 2017
To: Etobicoke York Community Council
From: Director, Transportation Services, Etobicoke York District
Wards: Ward 17 – Davenport

SUMMARY

The purpose of this report is to obtain approval for the installation of traffic control signals at the intersections of Dovercourt Road and Geary Avenue.

The installation of traffic control signals is technically justified and will enhance safety for pedestrians and motorists at the intersection. However, the installation may increase delays for northbound and southbound motorists, as these movements will no longer operate with free flow.

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

RECOMMENDATIONS

The Director, Transportation Services, Etobicoke York District recommends that:

1. City Council approve the installation of traffic control signals at the intersection of Dovercourt Road and Geary Avenue.

FINANCIAL IMPACT

The estimated cost for the installation of traffic control signals at Dovercourt Road and Geary Avenue is \$180,000.00. Additional traffic signal poles resulting in pole clustering and the tree pruning and potential tree root damage of trees located on Hydro One Networks Inc. property may result in added costs. These funds are included within the Transportation Services 2018 Operating 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 the Ward Councillor, on behalf of area residents and businesses, to assess the safety of the intersection for both pedestrians and motorists on Dovercourt Road and Geary Avenue and to investigate the feasibility of installing a traffic control signals at this location. A map of the area is shown on Attachment 1.

According to the City of Toronto's road classification system, Dovercourt Road, between Dupont Street and Davenport Road is classified as a 'Minor Arterial' roadway. Dovercourt Road has a four lane cross section and a 40 km/h speed limit. Sidewalks exist on both sides of the road. Geary Avenue is a 9.8 metre wide two-lane road designated in the City's Road Classification System as a "Collector" road between Dufferin Street and Dovercourt Road and a "Local" road between Dovercourt Road and Ossington Avenue. The speed limit on Geary Avenue is 40 km/h with stop controls for eastbound and westbound motorists. Traffic control signals exist approximately 120 metres to the south at the intersection of Dupont Street and Dovercourt Road.

The Toronto Transit Commission (TTC) operates transit service on Dovercourt Road with a bus stop currently located southbound near side of the intersection.

Traffic counts were undertaken at Dovercourt Road and Geary Avenue in June 2017. Based on the eight-hour vehicular and pedestrian traffic count, and the collision history, the technical justification for the installation of traffic control signals are satisfied to the following extent:

Dovercourt Road and Geary Avenue

Minimum Vehicular Volume Warrant	89% compliance
Delay to Cross Traffic Warrant	67% compliance
Collision Hazard Warrant	100% compliance

In order to meet the warrants, 100 percent compliance is required in one of the categories or a minimum of 80 percent in both of the first two categories.

Our review of the collision records (over the last 3 years of complete data) reveals 17 preventable collisions. The collision warrant was met by a compliance of 100 percent.

Based on the above review, Transportation Services recommends the installation of the traffic control signals at the intersection of Dovercourt Road and Geary Avenue. This installation is technically justified and will enhance safety for pedestrians and motorists at the intersection.

With the installation of traffic signal poles, this could result in pole clustering on the south east and south west corners as there could be some difficulty using existing hydro poles. Additionally, on the south east corner, tree pruning and potential tree root damage to the trees located on Hydro One Network Inc. property is possible and could result in additional costs. Consultation with Hydro One Network Inc. regarding the trees on their property has yet to be discussed.

The installation of traffic control signals may result in increased delays for traffic on Dovercourt Road 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 Dovercourt Road and Dupont Street, as well as any signal priority features, will be reviewed to mitigate these potential delays.

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

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CONTACT

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SIGNATURE

Steven T. Kodama, P.Eng.
Director, Transportation Services - Etobicoke York District

ATTACHMENTS

1. Location Plan - Dovercourt Road and Geary Avenue

Location Plan: Dovercourt Road and Geary Avenue

