

Proposed Traffic Control Signals – Rogers Road and Chambers Avenue

Date: May 7, 2018
To: Etobicoke York Community Council
From: Director, Transportation Services, Etobicoke York District
Wards: Ward 17 - Davenport

SUMMARY

Transportation Services is seeking approval to install traffic control signals at the intersection of Rogers Road and Chambers Avenue. Although the signals are not technically warranted, their installation is recommended based on a number of other factors staff have considered, namely; the pedestrian and motorist crossing activity in the vicinity of this intersection, the significant pedestrian generators in the area (i.e., schools and parks) and the long spacing to adjacent pedestrian crossing protection. Traffic control signals at this location will enhance safety for pedestrians and motorists, which has been a long standing concern of the residents in the area.

As the Toronto Transit Commission (TTC) operates bus service on Rogers Road, City Council approval of this report is required.

RECOMMENDATIONS

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

1. Toronto City Council approve the installation of traffic control signals at the intersection of Rogers Road and Chambers Avenue.

FINANCIAL IMPACT

The estimated cost for installing traffic control signals at Rogers Road and Chambers Avenue is approximately \$180,000.00. These funds will be included within the Transportation Services Division's 2019 Capital Budget subject to the availability of funding and competing priorities.

DECISION HISTORY

This report is the result of a meeting on February 27, 2018, between the local councillor and Transportation Services staff, to address concerns with pedestrians crossing Rogers Road near Chambers Avenue.

COMMENTS

Transportation Services was requested by the local councillor, on behalf of the area residents, to review the need for enhanced pedestrian crossing protection on Rogers Road at Chambers Avenue. This request is to address the long spacing between protected pedestrian crossings that currently exists on Rogers Road.

Rogers Road is classified as a 'Minor Arterial' road having one traffic lane for motor vehicles in each direction, as well as bike lanes in both directions. The posted speed limit on Rogers Road is 40 km/h. The roadway has an urban cross-section which includes monolithic sidewalks on both sides of the street. Existing traffic control signals are located approximately 175 metres to the west at Rogers Road and Old Weston Road, and approximately 173 metres to the east at Rogers Road and Silverthorn Avenue. A map of the area is Attachment 1.

Traffic counts were undertaken at Rogers Road and Chambers Avenue in July 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 not satisfied to the following extent:

Rogers Road and Chambers Avenue

| | Actual Hourly Average (A) | Minimum Required (B) | Warrant % | Criteria | | |
|---|---------------------------|----------------------|-----------|------------|-------------|---------|
| | | | | 1 | 2 | 3 |
| Warrant 1: Minimum Vehicular Volume Warrant (8 Hrs) | 34 | 170 | 20% | 100% OR | >80% AND | NOT MET |
| Warrant 2: Delay to Cross Traffic Warrant (8 Hrs) | 45 | 75 | 57% | 100% OR | >80% | |

| | Actual Hourly Average (A) | Minimum Required (B) | Warrant % | Criteria | | |
|---|---------------------------|----------------------|-----------|----------|----|---------|
| | | | | 1 | 2 | 3 |
| | | | | 100% | 0% | |
| Warrant 3: Collision Hazard Warrant (3 Years) | 1 | 15 | 7% | | | NOT MET |

To meet the numerical warrants for the installation of traffic control signals, either one of the “Minimum Vehicular Volume” or “Delay to Cross Traffic” warrants must be 100 per cent satisfied or both must be at least 80 per cent satisfied.

Our review of the collision records, over the last 3 years of complete data, reveals 1 preventable collision. The collision warrant was not met as the compliance rate was 7 percent.

From a technical perspective, the above findings indicate that the numerical warrants for the installation of traffic control signals are not satisfied at the subject intersection at this time. Nevertheless, Transportation Services considered a number of other non-technical factors in determining whether traffic control signals at Rogers Road and Chambers Avenue should be installed. These factors included; pedestrian and motorist crossing activity in the vicinity, the significant pedestrian generators in the area (i.e., schools and parks), and the long spacing to adjacent pedestrian crossing protection.

After considering the above factors, Transportation Services is recommending the installation of traffic control signals at the intersection of Rogers Road and Chambers Avenue. The signals will enhance overall safety for pedestrians and motorists under existing and future conditions. The installation of traffic control signals may result in a slight delay to traffic on Rogers Road, however, this can be mitigated by synchronizing the signal with other adjacent signals.

The Toronto Transit Commission (TTC) operates bus service on this section of Rogers Road. TTC staff has been advised of the request for a traffic control signal on the subject section of Rogers Road at Chambers Avenue.

CONTACT

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SIGNATURE

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

ATTACHMENT

Attachment 1: Area Map

Attachment 1: Area Map

