



**STAFF REPORT
ACTION REQUIRED**

Traffic Control Signals - Bloor Street West and Armadale Avenue

Date:	October 8, 2015
To:	Etobicoke York Community Council
From:	Director, Transportation Services - Etobicoke York District
Wards:	Ward 13 – Parkdale–High Park
Reference Number:	p:\2015\Cluster B\TRA\EtobicokeYork\eycc150182-to

SUMMARY

The purpose of this report is to obtain approval for the installation of traffic control signals on Bloor Street West and Armadale Avenue.

The installation of traffic control signals is justified as the Traffic Control Signal Warrant requirements are achieved. The installation of traffic control signals will provide a safe and convenient access for vehicles and pedestrians crossing Bloor Street West.

Since the Toronto Transit Commission (TTC) provides bus service that operates southbound on Armadale Avenue from the Jane Subway Station to westbound Bloor Street West (to northbound Jane Street), in addition to operating overnight bus service on Bloor Street West, City Council approval of this report is required.

RECOMMENDATIONS

Transportation Services recommends that:

1. City Council approve the installation of traffic control signals at Bloor Street West and Armadale Avenue.

Financial Impact

The estimate cost for installing traffic control signals is approximately \$190,000.00. These funds are included in the Transportation Services 2017 capital budget.

ISSUE BACKGROUND

As a result of a request from the Ward 13 Councillor, on behalf of area residents, Transportation Services staff investigated the need for traffic control signals at the intersection of Bloor Street West and Armadale Avenue. A map of the area is Attachment 1.

COMMENTS

Bloor Street West is a four lane major arterial road with a speed limit of 50 km/h. Armadale Avenue is a local street. The intersection is currently controlled by "Stop" signs on Armadale Avenue. Traffic control signals are located approximately 120 metres to the west at Jane Street and approximately 200 metres to the east at Windermere Avenue. The Toronto Transit Commission operates bus service southbound on Armadale Avenue from the Jane Subway Station to westbound Bloor Street West (to northbound Jane Street). In addition, they also operate bus service on Bloor Street West during overnight hours.

To assess conditions, an eight-hour turning movement study was conducted at the intersection of Bloor Street West and Armadale Avenue. In addition, we conducted a review of the collision history at the subject intersection for the past three years in which we have complete data. Our data was applied to the traffic control signal warrant. The study results are as follows:

Study Date: Tuesday, September 15, 2015

Study Hours: 7:30 to 9:30 a.m., 11:00 a.m. to 2:00 p.m. and 3:00 to 6:00 p.m.

- | | | |
|----|--------------------------|-------------|
| a) | Minimum Vehicular Volume | 78 percent |
| b) | Delay to Cross Traffic | 100 percent |
| c) | Collision Hazard | 27 percent |

In order to meet the warrants, 100 percent compliance is required in one of the first two categories or a minimum of 80 percent in any two. Given that warrant b) is 100 percent met, traffic control signals are recommended for installation at the intersection of Bloor Street West and Armadale Avenue. During our study, over 900 pedestrians crossed Bloor Street at this intersection.

A review of the Toronto Police Service collision records during the past three years for which we have complete data from January 1, 2012 to December 31, 2014, reveals there have been four reported collisions which would be considered preventable with the installation of traffic control signals. In addition, during the same time period there have been no reported collisions involving pedestrians crossing Bloor Street West at the intersection of Armadale Avenue.

The TTC have been advised of the proposed traffic control signals at Bloor Street West and Armadale Avenue. Although TTC staff has not indicated any concerns with the installation of the traffic control signals, they have provided some comments/requests on the signal operation as well as suggested parking amendments not directly related to the signal installation. Specifically, the TTC has requested the following:

- Prohibit stopping at all times on the east side of Armadale Avenue between Bloor Street West and the north limit of the station exit.
- Delineate three traffic lanes between the station exit and Bloor Street West with two southbound traffic lanes – one shared left turn/through lane and one exclusive right turn lane – and one northbound egress lane.
- Operate the traffic control signals in fixed time mode and coordinated with, or interconnected to, the signals at Jane Street and provide only as much westbound green time at Armadale Avenue as is provided at Jane Street in order to meter westbound traffic to prevent westbound queues from spilling back to Armadale Avenue.
- Prohibit parking on the north side of Bloor Street West, an additional 30 metres to the east of Jane Street and extend the pavement markings that delineate west-to-north right turn lane 30 metres eastward.

As the parking amendments are not safety related, and will have an impact on the community/businesses, Transportation Services staff will be reviewing these TTC requests, consulting with the area Councillor and reporting back, if required. Regarding the signal operation and pavement markings, we will work with the TTC as to the most appropriate operation for the intersection.

CONTACT

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SIGNATURE

Vincent Sferrazza
Director, Transportation Services – Etobicoke York District

ATTACHMENTS

Attachment 1: Map