

Traffic Control Signals - Bloor Street West and Pauline Avenue/Collegiate Road

Date: March 23, 2023

To: Toronto and East York Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 9, Davenport

SUMMARY

As the Toronto Transit Commission (TTC) operates a transit service on Bloor Street West, City Council approval of this report is required.

As per conditions of approval for the development at 1141 Bloor Street West, 980 Dufferin Street and 90 Croatia Street, the existing pedestrian crossover (PXO) at Bloor Street, immediately east of Pauline Avenue, is to be replaced with traffic control signals at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road. Collegiate Road is a new public road that is being constructed on the south side of Bloor Street West.

Transportation Services supports the installation of traffic control signals at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road.

RECOMMENDATIONS

The Director, Traffic Management, Transportation Services recommends that:

1. City Council authorize the installation of traffic control signals at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road.
2. City Council authorize the removal of the existing pedestrian crossover on Bloor Street West immediately east of Pauline Avenue, in conjunction with the installation of the traffic control signals as set out in Recommendation 1 above.

FINANCIAL IMPACT

There are no financial implications associated with adoption of this report as funding has been secured from the proponents of the 1141 Bloor Street West/980 Dufferin Street/90 Croatia Street development for the new signal and other road improvements along Bloor Street West. These funds were secured through Zoning By-law Amendment Application No. 17 237256 STE 18 OZ and Draft Plan of Subdivision Application No. 17 237276 STE 18 SB.

DECISION HISTORY

Through Zoning By-law Amendment Application No. 17 237256 STE 18 OZ and Draft Plan of Subdivision Application No. 17 237276 STE 18 SB, the replacement of the PXO with traffic control signals was secured for the intersection of Bloor Street West and Pauline Avenue/Collegiate Road. In its July 19, 2022 decision, City Council approved the development by adopting Item No. MM47.88. The City Council decision can be found at:

[Agenda Item History - 2022.MM47.88 \(toronto.ca\).](#)

COMMENTS

The development site is located on the south side of Bloor Street West and includes a new public road, Collegiate Road (extension of existing Pauline Avenue on the north side of Bloor Street West). The new extension of Pauline Avenue on the south side of Bloor Street West will be a dedicated public highway. The new public road, Collegiate Road will have an approximate distance of 175 metres and will terminate at Croatia Street. The by-law regulations for the proposed new street are to be addressed via a subsequent report.

The overall site lands are divided into six (6) Blocks, A to F, which are proposed to include a maximum of 2,018 dwelling units and 22,000 sq. metres of non-residential gross floor area (GFA) for retail, office, and community centre/daycare uses. A total of 836 parking spaces are proposed within two-levels of underground parking.

As part of conditions of approval at the development review stage, new traffic control signals are to be installed at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road, and the existing PXO on Bloor Street West immediately east of Pauline Avenue is to be removed.

Existing Conditions

Bloor Street West is characterized by the following conditions:

- It is an east-west, major arterial roadway that is comprised of a single lane in each direction for general traffic, as well as cycling tracks on both sides of the street
- It operates two-way traffic on a pavement width of approximately 12.8 metres
- The daily two-way traffic volume is approximately 16,300 vehicles
- The speed limit is 40 km/h
- Heavy trucks are permitted at all times
- There is TTC service provided by the 300 Bloor Night Bus
- There are sidewalks located on both sides of the street

Pauline Avenue is characterized by the following conditions:

- It is a one-lane, north-south, local roadway
- It operates one-way traffic on a pavement width of approximately 7.3 metres
- The daily one-way traffic volume is approximately 980 vehicles
- The speed limit is 30 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service provided
- There are sidewalks located on both sides of the street
- The street is equipped with traffic calming measures (speed humps)

Bloor Street West and Pauline Avenue currently form a "T" type intersection. There is an existing PXO on Bloor Street West, immediately east of Pauline Avenue.

The closest adjacent traffic controls are located approximately 135 metres to the west at Bloor Street West and Brock Avenue and approximately 180 metres to the east at Bloor Street West and Dufferin Street in the form of traffic control signals.

A map of the area is included in Attachment 1.

Traffic Control Signals

One of the conditions of approval for the development on the south side of Bloor Street West was that the existing PXO be replaced with traffic control signals at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road. A traffic signal warrant analysis was conducted by the proponents' transportation consultant, BA Group, as per the submitted Urban Transportation Considerations report dated September 2017, which includes projected traffic generated by the development, vehicle and pedestrian counts, delay to cross traffic and collision history.

Warrant Compliance - Bloor Street West and Pauline Avenue/Collegiate Road

Justification	Compliance level
Minimum vehicular volume	20%
Delay to cross traffic (pedestrians and vehicles)	85%
Collision hazard	0%

To meet the justification criteria for the installation of traffic control signals, one of the justifications must be 100 percent satisfied or both the minimum vehicular volume and delay to cross traffic justifications must be at least 80 percent satisfied. Based on the technical warrant criteria, the installation of traffic control signals is not technically justified.

Nevertheless, Transportation Services notes the following additional considerations:

- The proposed scale of the overall development at 1141 Bloor Street West/980 Dufferin Street includes approximately 2,000 residential dwelling units, 22,000 sq. metres of non-residential gross floor area (GFA) for retail, office, and community centre/daycare uses, and 836 parking spaces at full build-out. This overall site is projected to generate upwards of 400 to 540 two-way trips during the weekday and weekend peak hours.
- There is an additional re-located/expanded school site at 90 Croatia Street (Bloor Collegiate/Block High School) located at the northwest corner of Collegiate Road/Croatia Street (the south terminus of the new road), which is to serve the local community, including students in the area to the north, as well as the school bus service.
- There are adjacent neighbourhood concerns with regards to additional traffic infiltration along Brock Avenue, to the west of the new public street and proposed signal, to avoid potential travel delays at the new Bloor Street West/Collegiate Road intersection if it was to operate without traffic control signals.
- Transportation Services is in the preliminary stages of reviewing a potential closure of a segment of Croatia Street, west of the new Collegiate Road and Croatia Street intersection (south of the new traffic control signals location). As such, the existing traffic accessing the area via this road segment will be generally re-routed in the future to the new traffic control signals at the Bloor Street West and Pauline Avenue/Collegiate Road intersection.

Notwithstanding, the above-noted numeric warrants not being satisfied based on the projected future vehicular volumes, Transportation Services recommends the installation of traffic control signals at the intersection of Bloor Street West/Pauline Avenue/Collegiate Road based on potential vehicle operational concerns, improved pedestrian and cycling safety, and for the overall road network connectivity benefits.

The TTC has been consulted and concurs with these findings. However, as noted in their memorandum dated July 26, 2022, the applicant is required to equip the new signal with transit signal priority at no cost to the TTC. As such the applicant is required to pay \$35,000 for the installation of a signal priority at the new intersection of Bloor Street West and Pauline Avenue/Collegiate Road, as required by the TTC.

Based on the aforementioned, Transportation Services is recommending that the existing PXO be replaced with traffic control signals at the intersection of Bloor Street West and Pauline Avenue/Collegiate Road.

The Ward Councillor has been advised of the recommendations in this report.

CONTACT

Dan Clement, CET, Manager Traffic Operations (Area 1), Transportation Services
416-397-5021 Dan.Clement@toronto.ca

Lukasz Pawlowski, Manager Development Planning and Review (Area 1)
Transportation Services, 416-392-7713, Lukasz.Pawlowski@toronto.ca

SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - Traffic Control Signals - Bloor Street West and Pauline Avenue/Collegiate Road

Attachment 1: Map - Traffic Control Signals - Bloor Street West and Pauline Avenue/Collegiate Road

