

All-way Stop Control - Poplar Plains Road and Poplar Plains Crescent

Date: August 28, 2019
To: Toronto and East York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 12, Toronto - St. Paul's

SUMMARY

This staff report is about a matter that Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City Policy or by-laws.

Transportation Services staff have reviewed the need for all-way stop control at the intersection of Poplar Plains Road and Poplar Plains Crescent, to address concerns regarding safety of pedestrians using this intersection. Our assessment indicates the criteria as set out in the all-way stop warrant has not been satisfied at this intersection. Therefore, all-way stop control is not recommended.

RECOMMENDATIONS

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

1. Toronto and East York Community Council not authorize the installation of all-way stop control at the intersection of Poplar Plains Road and Poplar Plains Crescent.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendation in this report.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services was requested by Councillor Josh Matlow, on behalf of area residents to investigate the feasibility of installing all-way stop control at the intersection of Poplar Plains Road and Poplar Plains Crescent.

Existing Conditions

Poplar Plains Road, in the vicinity of Poplar Plains Crescent, is a collector road that operates one-way in the northbound direction. It consists of a single lane for general traffic and a lane reserved for bicycles. It has a posted speed limit of 30 km/h (speed humps are in place) and a daily one-way traffic volume of about 3,200 vehicles. Sidewalks are provided on both sides of the road, although the east sidewalk is not continuous. The pavement widths on Poplar Plains Road are about 8.5 metres and 6.1 metres, north and south of Poplar Plains Crescent, respectively. Heavy vehicles are prohibited at all times. There is no TTC service provided on Poplar Plains Road.

Poplar Plains Crescent is a local road that operates with two-way traffic. It intersects the east side of Poplar Plains Road in a stop-controlled "T" type intersection. It has a posted speed limit of 30 km/h and a daily two-way traffic volume of about 400 vehicles. There are no sidewalks provided on Poplar Plains Crescent and the pavement width is about 8.7 metres. Heavy vehicles are prohibited at all times. There is no TTC service provided on Poplar Plains Crescent.

Analysis

In order for all-way stop control to be justified at an intersection, established warrant criteria must be satisfied. The criteria, as adopted by City Council, include such factors as collision history, total vehicle volume, the percentage of traffic on the major road and combined vehicle and pedestrian volumes crossing the major road.

Transportation Services reviewed the intersection of Poplar Plains Road and Poplar Plains Crescent and applied the results of the vehicle/pedestrian study and Toronto Police Service collision records to the all-way stop control warrant criteria.

A review of the Toronto Police Service collision records over a three-year period ending December 31, 2018, disclosed one collision was reported at the intersection of Poplar Plains Road and Poplar Plains Crescent. This collision did not involve a pedestrian and was not considered to be potentially preventable by all-way stop sign control.

The results of the all-way stop control warrant study taking into account the new Vision Zero 2.0 warrants at the intersection of Poplar Plains Road and Poplar Plains Crescent has been summarized in the following table:

Warrant A: Collision History	Warrant B-1B: Combined Crossing Volume (Vehicles & Pedestrians)	Warrant B-2: Main Street/Side- Street Volume Split	Warrant B-1A: Total Approach Vehicular Volume	All-way Stop Warrants Satisfied (Yes/No)
Required: ≥2 Collisions/Year Actual: 0 Collisions/year (Not Met)	Required: 150 Units/Hour Actual: 73 Units/Hour (Not Met)	Required: ≤70%/30% Actual: 81%/19% (Not Met)	Required: 375 Vehicles/Hour Actual: 328 Vehicles/Hour (Not Met)	No

In order to satisfy the technical warrant for the installation of all-way stop control, Warrant A or Warrant B must be met. Warrant B can be met by satisfying either condition 1A or 1B in addition to condition 2. Based on the above review, the technical warrants for the installation of all-way stop control at the intersection of Poplar Plains Road and Poplar Plains Crescent is not satisfied, and the requested installation of all-way stop control at this intersection is not recommended.

Furthermore, the presence of private driveways on the west side of Poplar Plains Road, immediately north and south of Poplar Plains Crescent, could make either of these installations problematic. Pedestrian crossing lines could not be installed leading into a driveway, as this represents a safety concern. It is preferable to have pedestrian crossings located as close as possible to the intersection to ensure the crossing pedestrians are visible to turning traffic.

Councillor Josh Matlow has been advised of the recommendation of this staff report.

CONTACT

Shawn Dillon
Manager, Traffic Operations (Area 1)
Traffic Management
Transportation Services
Telephone: (416) 397-5021
Fax: (416) 392-1920
E-mail: Shawn.Dillon@toronto.ca

SIGNATURE

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

ATTACHMENTS

1. Drawing No. 421G-3499, dated August 2019.

P:\2019\Cluster B\Tra\Toronto and East York\Top\Ts2019218te.top.doc – mb

