

All-Way Stop Control - Regina Avenue and Rajah Street

Date: October 2, 2019

To: North York Community Council

From: Acting Director, Traffic Management, Transportation Services

Wards: Ward 8 - Eglinton-Lawrence

SUMMARY

This staff report is about a matter for which 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 is requesting North York Community Council to authorize the installation of all-way stop control at the intersection of Regina Avenue and Rajah Street.

The installation of an all-way stop control at the intersection will appropriately alternate the right-of-way and thereby address safety concerns at the intersection.

RECOMMENDATIONS

The Acting Director, Traffic Management, Transportation Services, recommends that North York Community Council:

1. Authorize all-way stop control at the intersection of Regina Avenue and Rajah Street.

FINANCIAL IMPACT

All costs associated with the necessary sign installations are included within the Transportation Services 2019 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services was requested by Councillor Mike Colle, on behalf of local residents, to review the need for all-way stop control at the intersection of Regina Avenue and Rajah Street.

Rajah Street is a north/south local street that is stop controlled at the intersection with Regina Avenue. Regina Avenue is a one-way eastbound local street that operates free flow at the intersection. Heavy vehicles are prohibited at all times and there is no TTC service provided on either street. The existing land use within the immediate area of the intersection of Regina Avenue and Rajah Street is primarily residential.

A review of the Toronto Police Service collision records revealed that there have been no reported collisions at this intersection for the three-year period ending April 30, 2019.

The intersection of Regina Avenue and Rajah Street was evaluated against the warrants for all-way stop control as adopted by City Council. The warrants consist of four components, including collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

The warrant criteria was applied against a vehicle and pedestrian study at this intersection conducted on June 27, 2017 during the a.m. and p.m. peak periods and the above collision history. The study results are summarized in the following table.

Table 1: All-Way Stop Control at Regina Avenue and Rajah Street

	Regina Avenue and Rajah Street	Actual	Required	Satisfied (YES/NO)
A	Number of Potentially Preventable Collisions (Jan. 1, 2016 to Dec. 31, 2018)	0	4	NO
B1	Average Vehicle Volume	100/hr	250/hr	NO
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)***	76/hr	100/hr	NO
B3	Percentage of Traffic on Major Street***	36%	≤70%	YES
	Overall Warrant			NO

*** New Pedestrian Warrant numbers used as adopted by City Council on July 16, 2019 in the Vision Zero 2.0 report

In order for the all-way stop control to be technically warranted, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be achieved. Our study

results determined that this intersection does not meet the numerical requirements for the installation of all-way stop control.

Although the technical warrant requirements are not achieved, the north-south stop signs on Rajah Street are stopping the heavier volume. Typically, stop signs are placed to stop traffic on streets with the lower traffic volume. An option in these situations is to reverse the control and stop the street with the lower volume (Regina Avenue); however this may create confusion as drivers are accustomed to the existing controls due to established habits.

Given the traffic characteristics observed at the intersection of Regina Avenue and Rajah Street, the implementation of an all-way stop control is appropriate to make the intersection safer for all road users.

The Ward Councillor has been advised of the recommendation of this staff report.

CONTACT

Bruce Clayton, Manager, Traffic Operations, Traffic Management, Transportation Services, Area 2 Tel: 416-394-8409, Fax: 416-394-8942, Email: Bruce.Clayton@toronto.ca
AFS28982

SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - Regina Avenue and Rajah Street - All-Way Stop Sign Control

Attachment 1: Map - Regina Avenue and Rajah Street - All-Way Stop Sign Control

