

All-Way Stop Control - Dudley Avenue and Alfred Avenue

Date: September 25, 2019

To: North York Community Council

From: Acting Director, Traffic Management, Transportation Services

Wards: Ward 18 - Willowdale

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 Dudley Avenue and Alfred Avenue.

The installation of an all-way stop control at the intersection of Dudley Avenue and Alfred Avenue will enhance traffic safety while also stopping the traffic on the approach with the minor volume (Alfred Avenue).

RECOMMENDATIONS

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

1. Authorize all-way stop control at the intersection of Dudley Avenue and Alfred Avenue.

FINANCIAL IMPACT

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

DECISION HISTORY

This item addresses a new matter.

COMMENTS

Transportation Services was requested by a local resident to review the need for all-way stop control at the intersection of Dudley Avenue and Alfred Avenue.

Dudley Avenue and Alfred Avenue are both 8.5-metre wide, two-way local streets with a 40 km/h speed limit. At their intersection, east-west traffic on Alfred Avenue operates free flow and north-south traffic on Dudley Avenue is stop controlled. Dudley Avenue has an average daily traffic volume of approximately 1,900 vehicles and Alfred Avenue has an average daily traffic volume of approximately 625 vehicles. Sidewalks are provided on the west side of Dudley Avenue and on the south side of Alfred Avenue, between Dudley Avenue and Willowdale Avenue. 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 Dudley Avenue and Alfred Avenue is primarily residential. Willowdale Park trail is located on the west end of Alfred Avenue and there is an access to the entrance of this walking trail from Alfred Avenue.

A review of Toronto Police Services collision records for the three year period ending June 30, 2019 has revealed that there were no reported collisions at this intersection susceptible to correction by the installation of all-way stop control.

The intersection of Dudley Avenue and Alfred Avenue 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 the above collision history and the results of a vehicle and pedestrian count completed at the intersection during the a.m. and p.m. peak periods on September 19 and 25, 2019 respectively. The study results are summarized in the following table.

Table 1: All-Way Stop Control Warrant Criteria at Dudley Avenue and Alfred Avenue

	Dudley Avenue and Alfred Avenue	Actual	Required	Satisfied (YES/NO)
A	Number of Potentially Preventable Collisions (Jan. 1, 2016 to Dec. 31, 2018)	0	6	NO
B1	Average Vehicle Volumes	125/hr	250/hr	NO
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)***	164/hr	100/hr	YES
B3	Percentage of Traffic on Major Street ***	11%	≤70%	YES
	Overall Warrant			YES

*** 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 met. Based on the study results shown in the table above, the technical warrants for the installation of all-way stop sign control are met at the intersection of Dudley Avenue and Alfred Avenue. Therefore, it is recommended that all-way stop control be implemented at the intersection.

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
AFS28960

SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Dudley Avenue and Alfred Avenue

Attachment 1: Map - All-Way Stop Control - Dudley Avenue and Alfred Avenue

