

All-Way Stop Control - Harefield Drive and Barwell Crescent

Date: February 8, 2023

To: Etobicoke York Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 2, Etobicoke North

SUMMARY

This staff report is about a matter that Community Council has delegated authority from City Council to make a final decision.

Transportation Services is requesting approval to install all-way stop control at the intersection of Harefield Drive and Barwell Crescent. Based on the assessment undertaken, the installation of all-way stop control is recommended and should enhance safety for all road users.

RECOMMENDATIONS

The Director, Traffic Management, Transportation Services recommends that:

1. Etobicoke York Community Council authorize all-way compulsory stop control at the intersection of Harefield Drive and Barwell Crescent.

FINANCIAL IMPACT

The estimated costs associated with the proposed amendments is \$2,000.00. Funding is anticipated to be available within the Transportation Services interim 2023 Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of an area resident, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Harefield Drive and Barwell Crescent to address concerns about safety.

Existing Conditions

Harefield Drive is characterized by the following conditions:

- It is a two-lane, north-south, local roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 656 vehicles
- The speed limit is 40 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

Barwell Crescent is characterized by the following conditions:

- It is a two-lane, east-west, local roadway
- It operates two-way traffic on a pavement width of approximately 7.75 metres
- The daily two-way traffic volume is approximately 500 vehicles
- The speed limit is 50 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

These two streets intersect to form a right-angled T-type intersection, with right-of-way controlled by a stop sign for westbound traffic on Barwell Crescent.

Rivercrest Junior Public School is located on the west side of Harefield Drive with a driveway south of Barwell Crescent.

A map of the proposed all-way stop control is included in Attachment 1.

Study Results

In order for all-way stop control to be warranted at an intersection established criteria must be satisfied. 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.

Collision history provided by the Toronto Police Service for the three-year period ending December 31, 2021, disclosed that zero reported collisions have occurred at this intersection.

Transportation Services conducted an all-way stop control study on Wednesday, December 7, 2022, at the subject intersection. The results of the study were evaluated against the warrant criteria for all-way stop control, as adopted by City Council. The evaluation is summarized in Table 1.

Table 1: All-Way Stop Control Study at Harefield Drive at Barwell Crescent

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2019 to December 31, 2021)	0	6	No
B1	Average Vehicle Volumes	102/hour	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)	102/hour	100/hour	Yes
B3	Percentage of Traffic on Major Street	46 %	≤70%	Yes

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. Based on the study results, the technical warrants for the installation of all-way stop control are satisfied. Therefore, it is recommended that all-way stop control be installed at the intersection of Harefield Drive and Barwell Crescent.

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

CONTACT

Shawn Dillon, Manager Traffic Operations (Area 2), Transportation Services, 416-394-8409, Shawn.Dillon@toronto.ca

SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Harefield Drive and Barwell Crescent

Attachment 1. Map - All-Way Stop Control - Harefield Drive and Barwell Crescent

