

All-Way Stop Control - Everson Drive and Humberstone Drive

Date: November 15, 2024

To: North York Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 18 - Willowdale

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 Everson Drive and Humberstone Drive. 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. North York Community Council authorize all-way compulsory stop control at the intersection of Everson Drive and Humberstone Drive.

FINANCIAL IMPACT

The estimated costs associated with the proposed amendment is \$15000. Funding is anticipated to be available within the Transportation Services 2025 Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the local Councillor's office, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Everson Drive and Humberstone Drive.

Existing Conditions

Everson 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 1,800 vehicles
- The speed limit is 30 km/h
- Heavy trucks are permitted at all times
- There is no TTC service provided
- There are sidewalks located on both sides of the street

Humberstone Drive 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 8.5 metres
- The daily two-way traffic volume is approximately 1,100 vehicles
- The speed limit is 30 km/h
- Heavy trucks are permitted 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 stop sign for eastbound traffic on Humberstone Drive.

The land use in the area consists of multi-unit residential dwellings/condominiums. Avondale Park is located at the southwest corner of the subject intersection. The Everson Drive and Humberstone Drive intersection is not within a designated community safety zone.

A map of the area 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 September 30, 2024, disclosed that two reported collisions occurred at this intersection and none of these collisions involved pedestrians. None of these collisions were considered potentially preventable by the installation of all-way stop control.

Transportation Services conducted an all-way stop control study on Tuesday, October 1, 2024 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 Everson Drive and Humberstone Drive.

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (September 30, 2021 to September 30, 2024)	0	6	No
B1	Average Vehicle Volumes	146/hour	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)	223 /hour	100/hour	Yes
B3	Percentage of Traffic on Major Street	37%	≤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 Everson Drive and Humberstone Drive.

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

CONTACT

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SIGNATURE

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

ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Everson Drive and Humberstone Drive.

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