

All-Way Stop Control - Ballacaine Drive and Edwalter Avenue

Date: January 20, 2021
To: Etobicoke York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 3 – Etobicoke-Lakeshore

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 Ballacaine Drive and Edwalter Avenue. Based on the assessment undertaken, the installation of all-way stop control is recommended and should enhance safety for all road users.

RECOMMENDATIONS

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

1. Etobicoke York Community Council authorize all-way compulsory stop control at the intersection of Ballacaine Drive and Edwalter Avenue.

FINANCIAL IMPACT

The estimated costs associated with the proposed amendment is \$800. Funding is anticipated to be available within the Transportation Services interim 2021 Operating budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, on behalf of an area resident, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of at the intersection of Ballacaine Drive and Edwalter Avenue.

Existing Conditions

Ballacaine 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 varying between 7.5 to 9.0 meters
- The daily two-way traffic volume is 564 vehicles
- The posted speed limit is 40 km/h
- Heavy trucks are prohibited at all times on Ballacaine Drive, between Glenaden Avenue East and Berry Road
- There is no TTC service provided on Ballacaine Drive
- There is no sidewalk on either side of Ballacaine Drive, between Bernice Avenue and South Kingslea Drive
- Sidewalks are present on the east side of Ballacaine Drive, between Berry Road and Bernice Avenue
- Park Lawn Junior Middle School is located on the east side of Ballacaine Drive, opposite Edwalter Avenue, north of Bethnal Avenue
- All-way stop control is present at the intersection of Ballacaine Drive and Bernice Avenue
- Traffic Calming (speed humps) is present on Ballacaine Drive, between Bethnal Avenue and Bernice Avenue
- A Community Safety Zone is present on Ballacaine Drive, between South Kingslea Drive and Berry Road

Edwalter Avenue is characterized by the following conditions:

- It is a two-lane, east-west local roadway
- It operates two way traffic on a pavement width approximately 6.5 meters
- The daily two-way traffic volume is 1,048 vehicles
- The posted speed limit is 40 km/h
- Heavy trucks are prohibited at all times on Edwalter Avenue, between Prince Edward Drive South and Ballacaine Drive
- There is no TTC service provided on Edwalter Avenue
- There is no sidewalk on both sides of Edwalter Avenue
- Edwalter Avenue forms a "T" intersection at Ballacaine Drive with a stop control for eastbound traffic

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 December 31, 2019, disclosed no reported collisions at the intersection.

Transportation Services conducted an all-way stop control study on Thursday, March 5, 2020 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 Ballacaine Drive and Edwalter Avenue

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2017 – December 31, 2019)	0	6	No
B1	Average Vehicle Volumes	80	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)*	105/hour	100/hour	Yes
B3	Percentage of Traffic on Major Street*	40%	≤70%	Yes

*New pedestrian warrants applied 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 meet the numerical requirements for the installation of all-way stop control.

Considering the above, the installation of all-way stop control is recommended at the intersection of Ballacaine Drive and Edwalter Avenue to appropriately assign the right of way.

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.
Acting Director, Traffic Management, Transportation Services

ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Ballacaine Drive and Edwalter Avenue

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