

## **All-Way Stop Control - Silverstone Drive and Beaconhill Road**

**Date:** June 26, 2024

**To:** Etobicoke York Community Council

**From:** Director, Traffic Management, Transportation Services

**Wards:** Ward 1 - Etobicoke North

### **SUMMARY**

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

### **RECOMMENDATIONS**

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The Director, Traffic Management, Transportation Services recommends that:

1. Etobicoke York Community Council authorize all-way compulsory stop control at the intersection of Silverstone Drive and Beaconhill Road.

### **FINANCIAL IMPACT**

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The estimated costs associated with the proposed amendment is \$26,200. Funding is anticipated to be available within the Transportation Services 2024 Operating and Capital Budgets.

### **DECISION HISTORY**

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This report addresses a new initiative.

### **COMMENTS**

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At the request of an area resident, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Silverstone Drive and Beaconhill

Road to facilitate crossings at the intersection to Silverstone Park located on the west side of the intersection.

## **Existing Conditions**

Silverstone Drive is characterized by the following conditions:

- It is a two-lane, north/south, east/west, collector roadway
- It operates two-way traffic on a pavement width of approximately 9.7 metres
- The daily two-way traffic volume is approximately 3600 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

Beaconhill Road 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 1000 vehicles
- The speed limit is 30 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 three-leg intersection, with right-of-way controlled by a stop sign for westbound traffic on Beaconhill Road.

Silverstone Park is located on the west side of this intersection.

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, 2023, disclosed that one reported collision occurred at this intersection which involved a cyclist. This collision was not considered potentially preventable by the installation of an all-way stop control.

Transportation Services conducted an all-way stop control study on April 9, 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 Silverstone Drive & Beaconhill Road

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2021 to December 31, 2023)	0	9	No
B1	Average Vehicle Volumes	371/hour	375/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)	150/hour	150/hour	Yes
B3	Percentage of Traffic on Major Street	62%	≤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 Silverstone Drive and Beaconhill Road.

Considering the above, the installation of all-way stop control is recommended at the intersection of Silverstone Drive and Beaconhill Road 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**

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

## **ATTACHMENTS**

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Attachment 1: Map - All-Way Stop Control - Silverstone Drive & Beaconhill Road

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