

All-Way Stop Control - Droxford Avenue and Surrey Avenue

Date: March 25, 2021

To: Scarborough Community Council

From: Acting Director, Traffic Management, Transportation Services

Wards: Ward 21, Scarborough Centre

SUMMARY

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

Transportation Services has reviewed the need for all-way stop control at the intersection of Droxford Avenue and Surrey Avenue. Based on the assessment undertaken, Transportation Services does not recommend the installation of all-way stop control at this intersection as the warrant criteria was not met.

RECOMMENDATIONS

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

1. Scarborough Community Council not authorize all-way compulsory stop control at the intersection of Droxford Avenue and Surrey Avenue.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendation in this report.

If Scarborough Community Council amends the recommendation in this report and authorizes the installation of all-way stop control, the estimated cost associated with the amendment is approximately \$12,000. Funding would be subject to availability and competing priorities within the Transportation Services 2021 Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, on behalf of a constituent, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Droxford Avenue and Surrey Avenue.

Existing Conditions

Surrey Avenue is characterized by the following conditions:

- It is a two-lane, east-west, local road
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 1600 vehicles
- The posted speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There is no Toronto Transit Commission (TTC) service provided on Surrey Avenue
- There are sidewalks located on both sides of the street

Droxford Avenue is characterized by the following conditions:

- It is a two-lane, north-south, local road
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 500 vehicles
- The posted speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There is no Toronto Transit Commission (TTC) service provided on Surrey Avenue
- There are sidewalks located on both sides of the street

These two streets intersect to form a right-angled four-leg intersection, with right-of-way controlled by stop signs for northbound and southbound traffic on Droxford Avenue. In addition, an existing all-way stop control is located approximately 90 metres to the east at Surrey Avenue and Wexford Boulevard and an existing pedestrian cross-over is located approximately 85 metres to the west at Surrey Avenue and Hexham Drive.

The land use in this area is mainly single family residential homes.

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 that no reported collision 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 Thursday, May 16, 2019 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 Droxford Avenue and Surrey Avenue

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2017 to December 31, 2019)	0	6	No
B1	Average Vehicle Volumes	219/hour	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)*	61/hour	100/hour	No
B3	Percentage of Traffic on Major Street*	73%	≤70%	No

*New pedestrian warrants applied as adopted by City Council on July 16, 2019 in the Vision Zero 2.0 report.

In order for all-way stop control to be technically warranted, either Warrant A must be met or Warrant B1 and B2, or B1 and B3 must be met. Based on the study results, the technical warrants for the installation of all-way stop control are not satisfied. Therefore, it is not recommended that all-way stop control be installed at the intersection of Droxford Avenue and Surrey Avenue.

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 - Droxford Avenue and Surrey Avenue

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