

All-Way Stop Control - Broadlands Boulevard and Castlegrove Boulevard

Date: March 13, 2024

To: North York Community Council

From: Director, Traffic Management, Transportation Services

Wards: Ward 16 - Don Valley East

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 Broadlands Boulevard and Castlegrove Boulevard. 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 Director, Traffic Management, Transportation Services recommends that:

1. North York Community Council not authorize all-way compulsory stop control at the intersection of Broadlands Boulevard and Castlegrove Boulevard.

FINANCIAL IMPACT

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

If North York 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 \$1000. Funding would be subject to availability and competing priorities within the Transportation Services 2024 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 Broadlands Boulevard and Castlegrove Boulevard.

Existing Conditions

Broadlands Boulevard is characterized by the following conditions:

- It is a two-lane, east/west local roadway
- It operates two-way on a pavement width of approximately 8.5 metres
- The daily two-way traffic volume is approximately 1,500 vehicles
- The speed limit is 50 km/h
- Heavy trucks are permitted at all times
- There is no TTC service provided
- There is a sidewalk located on the north side of the street

Castlegrove Boulevard is characterized by the following conditions:

- It is a two-lane, north/south local roadway
- It operates two-way on a pavement width of approximately 8.5 metres
- The speed limit is 40 km/h
- Heavy trucks are permitted at all times
- There is no TTC service provided
- There is a sidewalk located on the east side of the street

These two streets intersect to form a T-type three-leg intersection, with right-of-way controlled by stop signs for southbound traffic on Broadlands Boulevard at Castlegrove Boulevard.

The land use in the area is detached residential. The Romanian Baptist Church is located on the north east corner of the 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 0 reported collisions occurred at this intersection

Transportation Services conducted an all-way stop control study on May 31, 2023 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.

The warrant criteria was applied against the collision history and a vehicle and pedestrian study at the intersection conducted during the a.m. and p.m. peak periods on May 31, 2023. The study results are summarized in the following table:

Table 1: All-Way Stop Control Study at Broadlands Boulevard and Castlegrove Boulevard

Warrant Type		Actual	Required	Satisfied (YES/NO)
A	Collision History Number of Potentially Preventable Collisions (January 1, 2021 to December 31, 2023)	0/3 yrs	6/3 yrs	NO
B1	Average Vehicle Volumes	212	250/avg hr	NO
B2	Combined Vehicles & Pedestrian Volumes Crossing Major Road*** (Average)	47	100/avg hr	NO
B3	Percentage of Traffic on Major Street	79	≤70	NO
	Overall Warrant			NO

*** New pedestrian warrant criteria used 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. 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 Broadlands Boulevard and Castlegrove Boulevard.

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 - Broadlands Boulevard and Castlegrove Boulevard

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