

All-Way Stop Control - Hullmar Drive and Hisey Crescent (Northeast Intersection)

Date: January 25, 2021
To: Etobicoke York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 7, Humber River-Black Creek

SUMMARY

As the Toronto Transit Commission (TTC) operates bus service on Hullmar Drive, City Council approval of this report is required if all-way stop control is approved at the northeast intersection of Hullmar Drive and Hisey Crescent.

Transportation Services has reviewed the need for all-way stop control at the northeast intersection of Hullmar Drive and Hisey Crescent. 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. City Council not authorize all-way compulsory stop control at the northeast intersection of Hullmar Drive and Hisey Crescent.

FINANCIAL IMPACT

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

If Etobicoke 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 \$800.00. Funding would be subject to availability and competing priorities within the Transportation Services current 2021 Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, on behalf of area residents, Transportation Services investigated the feasibility of installing all-way stop control at the northeast intersection of Hullmar Drive and Hisey Crescent.

Existing Conditions

Hullmar Drive is characterized by the following conditions:

- It is a two-lane, east-west, collector roadway
- It operates two-way traffic on a pavement width of approximately 8.5 metres
- The daily two way traffic volume is approximately 2,000 vehicles
- The regulatory speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There is TTC service provided by the 35 Jane bus. There are bus stops at the northeast intersection of Hisey Crescent.
- There are sidewalks located on both sides of the street

Hisey Crescent 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 100 vehicles
- The unposted regulatory speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service
- There are sidewalks located on both sides of the street

These two streets intersect to form a t-type intersection, with right-of-way controlled by a stop sign for northbound traffic on Hisey Crescent. Land use in the area is residential. The speed limit was recently lowered to 40 km/h (from 50 km/h) as per Vision Zero 2.0 - Road Safety Plan

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 collisions have occurred at this intersection.

Transportation Services conducted an all-way stop control study on Wednesday, March 4, 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 Hullmar Drive and Hisey Crescent (northeast intersection).

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2017 - December 31, 2019)	0	9	No
B1	Average Vehicle Volumes	175/hour	375/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)*	10/hour	150/hour	No
B3	Percentage of Traffic on Major Street*	95%	≤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 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 not meet the numerical requirements for the installation of all-way stop control. Therefore, it is not recommended that all-way stop control be installed at the northeast intersection of Hullmar Drive and Hisey Crescent.

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

CONTACT

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SIGNATURE

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ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Hullmar Drive and Hisey Crescent
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