

All-Way Stop Control Review - Ivorwood Crescent and Dewey Drive

Date: December 11, 2019
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.

This report recommends that Community Council not authorize the installation of all-way stop control at the intersection of Ivorwood Crescent and Dewey Drive as the existing conditions do not meet the warrant for the installation of such a traffic control device. This T-type intersection currently has a stop control for the westbound movement on Dewey Drive at Ivorwood Crescent.

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 Ivorwood Crescent and Dewey Drive.

FINANCIAL IMPACT

There would be no financial impact associated with the staff recommendation.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

In response to a request from the Ward Councillor and local residents, Transportation Services staff reviewed the feasibility of installing all-way stop control at the intersection of Ivorwood Crescent and Dewey Drive.

Existing Conditions

The following key characteristics describe this location:

- This intersection is located within the community south of Ellesmere Road, west of Pharmacy Avenue, east of Victoria Park Avenue and north of Lawrence Avenue East.
- Ivorwood Crescent is classified as a local roadway and has a regulatory speed limit of 50 km/h, and a 24-hour vehicle volume of 571 vehicle per day (vpd).
- Dewey Drive is also classified as a local road and has a regulatory speed limit of 50 km/h.
- There are no sidewalks on Ivorwood Crescent or Dewey Drive.
- The land use in this neighbourhood consists mainly of single family residential dwellings.
- Traffic control signals are located approximately 80 metres to the east at Pharmacy Avenue and Dewey Drive.

Analysis

An All-Way Stop Control Warrant Study conducted on Wednesday, November 21, 2018 at the intersection of Ivorwood Crescent and Dewey Drive during the two hours of the morning and afternoon peak hours of a typical week day, produced the following results:

All-Way Stop Control Warrant	A Total Approach Vehicle Volume	B Vehicle/Pedestrian Volume Crossing Major Road	C Unit Volume Split* Major/Minor Roads
Two-Hour Study Period Hourly Average	87	49	53/47
Warrant Requirements For Study Period Average For Local Roads	≥ 250	≥ 100	≥ 30/70 or ≤ 70/30

* "Unit Volume Split": Major Road Volume – Vehicles only.
Minor Road Volume – Vehicles plus pedestrians crossing the major road.

This study has been evaluated using the updated warrant calculations as adopted by City Council on July 16, 17 and 18, 2019 in the Vision Zero 2.0 Road Safety Plan (Item IE6.8). The results of our study indicated that the technical warrants for the installation of an all-way stop control are not met.

For all-way stop control to be numerically justified, the traffic volume requirements for the "Study Period Average" must be completely satisfied in Categories A and C, or Categories B and C.

As outlined in the above table, the traffic volumes do not meet the requirements to install all-way stop control at the subject intersection at this time.

Collision History

A review of the Toronto Police Service collision records available for a five-year period from January 1, 2014 to December 31, 2018 revealed that there have been no potentially preventable collisions reported at this intersection.

Alternate Recommendations

If, despite the findings above, the Scarborough Community Council determines that all-way stop control should be installed, it may approve the following as to form:

1. Scarborough Community Council authorize all-way compulsory stop control at the intersection of Ivorwood Crescent and Dewey Drive.

The estimated cost of installing all-way stop signs, corner restrictions and pavement markings is approximately \$5,000. The funding for these signs is available in the Transportation Services Division's 2020 Interim Operating Budget.

CONTACT

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SIGNATURE

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ATTACHMENTS

1. Attachment 1: Location Plan (All-Way Stop Control Review - Ivorwood Crescent and Dewey Drive).

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