

All-Way Stop Control - Neptune Drive and Hotspur Road

Date: October 7, 2019

To: North York Community Council

From: Acting Director, Traffic Management, Transportation Services

Wards: Ward 8, Eglinton-Lawrence

SUMMARY

As the Toronto Transit Commission (TTC) operates bus service on Hotspur Road and Neptune Drive, City Council approval of this report is required.

Transportation Services is requesting City Council to authorize the installation of all-way stop control at the intersection of Neptune Drive and Hotspur Road.

The installation of an all-way stop control is justified at the intersection of Neptune Drive and Hotspur Road and recommended to clearly establish the right-of-way and enhance pedestrian and vehicular safety at this intersection.

RECOMMENDATIONS

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

1. City Council authorize all-way stop control at the intersection of Neptune Drive and Hotspur Road.

FINANCIAL IMPACT

All costs associated with the necessary sign installations are included within the Transportation Services 2019 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services was requested by Councillor Mike Colle, on behalf of local residents, to review the need for all-way stop control at the intersection of Neptune Drive and Hotspur Road.

Hotspur Road is an 8.5 metre wide collector street with a posted speed limit of 40 km/h that is stop controlled at its intersection with Neptune Drive. There are sidewalks on both sides of the road. Neptune Drive is an 8.5 metre wide collector street with a posted speed limit of 40 km/h that operates free flow at this intersection. Neptune Drive operates two-way on the north side of Hotspur Road and one-way southbound on the south side of the intersection. TTC provides bus service on both Hotspur Road and Neptune Drive with a bus stop on the northwest corner of the intersection. The existing land use within the immediate area of the intersection of Neptune Drive and Hotspur Road is primarily residential.

A review of Toronto Police Service collision records for the three-year period ending April 30, 2019, revealed that no collisions have been reported at the intersection of Neptune Drive and Hotspur Road of a type susceptible to correction by the installation of an all-way stop control.

The intersection of Neptune Drive and Hotspur Road was evaluated against the warrants for all-way stop control sign adopted by City Council. The warrant consists of four components – collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

The warrant criteria was applied against a vehicle and pedestrian count undertaken during the a.m. peak hours of September 12, 2019 and p.m. peak hours of September 26, 2019 and the collision history at the intersection. The results of the warrant analysis are summarized in the following table:

Table 1: All Way Stop Control at Neptune Drive and Hotspur Road

Neptune Drive and Hotspur Road		Actual	Required	Satisfied (YES/NO)
A	Number of Potentially Preventable Collisions (Jan. 1, 2016 to Dec. 31, 2018)	0	6	NO
B1	Average Vehicle Volume	452/hr	375/hr	YES
B2	Combined Vehicle & Pedestrian Volume Crossing Major Street (Average) ***	302/hr	150/hr	YES
B3	Percentage of Traffic on Major Street***	39 %	≤70 %	YES
	Overall Warrant			YES

*** New Pedestrian Warrant numbers 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 met. Based on the

study results shown in the table above, the technical warrants for the installation of all-way stop sign control are met at the intersection of Neptune Drive and Hotspur Road. Therefore, it is recommended that all-way stop control be implemented at the intersection.

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 - Neptune Drive and Hotspur Road - All-way Stop Control

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