

All-Way Stop Control - Torresdale Avenue and Ivan Nelson Drive/Dollery Court

Date: July 23, 2020
To: North York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 6 - York Centre

SUMMARY

This staff report is about a matter for which Community Council has delegated authority to make a final decision.

Transportation Services is requesting North York Community Council to authorize all-way stop control at the intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court.

The installation of an all-way stop control at the intersection will appropriately alternate the right-of-way and thereby address safety concerns at the intersection.

RECOMMENDATIONS

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

1. North York Community Council authorize all-way stop control at the intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court.

FINANCIAL IMPACT

All costs associated with the necessary sign installations are included within the Transportation Services 2020 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services was requested by Councillor James Pasternak, on behalf of local residents, to review the need for all-way stop control at the intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court.

Torresdale Avenue is a 12 metre north/south collector road with a regulatory speed limit of 50 km/h and operates free-flow at the intersection with Ivan Nelson Drive/Dollery Court. The area is residential with single-dwelling homes. There are sidewalks on both sides of the street from Finch Avenue West to Ivan Nelson Drive/Dollery Court and on the east side from Ivan Nelson Drive/Dollery Court to the north limit of the road. The north limit terminates approximately 67 metres north of the subject intersection and provides access to soccer fields and the Finch Corridor Trail.

Ivan Nelson Drive and Dollery Court are 8.5-metre east/west local roads that are required to stop at their intersection with Torresdale Avenue due to Torresdale Avenue's designation as a through highway. Both have a speed limit of 50 km/h. Sidewalks exist on the north side of Ivan Nelson Drive and on both sides of Dollery Court.

A review of the Toronto Police Service collision records for the three-year period ending December 31, 2019 revealed no reported collisions at the intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court.

The intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court was evaluated against the warrants for all-way stop control as adopted by City Council. The warrants consist of four components, including collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major street and the percentage of traffic on the major street.

The study was conducted on November 14, 2019 during the a.m. and p.m. peak periods and the above collision history at this intersection was reviewed. The study results are summarized in the following table:

Table 1: All-Way Stop Control at Torresdale Avenue and Ivan Nelson Drive/Dollery Court.

	Warrant Criteria	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions	0	9	No
B1	Average Vehicle Volumes	121/hr	375/hr	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Street (Average)***	128/hr	150/hr	No
B3	Percentage of traffic on major street***	15%	≤70%	Yes
	Overall Warrant			No

*** New Pedestrian Warrant numbers used 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 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.

However, the existing east/west stop signs on Ivan Nelson Drive and Dollery Court are stopping the approaches with the greater traffic volumes. Typically, stop signs are placed to stop traffic on the street with the lesser traffic volume. An option in these situations is to reverse the control and stop the street with the lesser traffic volume (in this case Torresdale Avenue). As this may create driver confusion due to established habits, it is safer to implement all-way stop control at the intersection.

Considering the above, all-way stop control is recommended at the intersection of Torresdale Avenue and Ivan Nelson Drive/Dollery Court to appropriately assign the right-of-way.

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 Sign Control - Torresdale Avenue and Ivan Nelson Drive/Dollery Court

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