

All-Way Stop Control – Thurodale Avenue and Duckworth Street

Date: December 27, 2019
To: Etobicoke York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 5 – York South-Weston

SUMMARY

This staff report is about a matter that Community Council has delegated authority from City Council to make a final decision.

This report presents the results of Transportation Services' traffic study conducted at the intersection of Thurodale Avenue and Duckworth Street to determine the feasibility for all-way stop control. The study results indicate the City's warrant for the installation of all-way stop control is not met and is not recommended at this intersection.

RECOMMENDATIONS

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

1. Etobicoke York Community Council NOT authorize all-way stop control at the intersection of Thurodale Avenue and Duckworth Street.

FINANCIAL IMPACT

Adopting the above-noted recommendation does not result in any financial impact. However, if Etobicoke York Community Council decides to authorize the installation of all-way stop control, the estimated cost for the installation and related signage is \$800.00. Funds are available in the Transportation Services 2020 Interim Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services received a request from the Ward Councillor, on behalf of area residents, to investigate the feasibility of installing all-way stop control at the intersection of Thurodale Avenue and Duckworth Street. A map of the area is shown on Attachment 2.

Thurodale Avenue and Duckworth Street are two-lane roads classified in the City's Road Classification System as "local" roadways. There are sidewalks on the north side of Thurodale Avenue and on the west side of Duckworth Street. The legal posted speed limit on Thurodale Avenue is 40 km/h and 30 km/h on Duckworth Street. A stop control is located on Duckworth Street for southbound traffic. St. Bernard Catholic Elementary School is located on the northwest corner of the intersection.

To address the request for additional stop controls at the subject intersection, a four-hour turning movement count was conducted during the morning and afternoon peak traffic periods on Wednesday, October 9, 2019. The justification for the installation of all-way stop control is subject to a technical warrant adopted by City Council, which is based on collision history and traffic volume. Based on the findings of the study, the intersection of Thurodale Avenue and Duckworth Street does not meet the warrant criteria for all-way stop control. The study results are summarized in Attachment 2.

Toronto Police Service collision records for a three-year period (January 1, 2016 to December 31, 2018) revealed a good safety record with no reported collisions at this intersection.

Stop controls define right-of-way. Empirical evidence shows that when all-way stop controls are installed at low volume locations such as this, it has minimal impact on reducing vehicle operating speeds or traffic volume, may encourage non-compliance and contribute to an increase in greenhouse gas emissions (GHG) and vehicle noise.

Based on the warrant not being met, all-way stop control at the intersection of Thurodale Avenue and Duckworth Street is not recommended.

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SIGNATURE

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ATTACHMENTS

Attachment 1: Warrant for All-Way Stop Control (Thurodale Avenue and Duckworth Street).

Attachment 2: Location Plan (Thurodale Avenue and Duckworth Street).

Attachment 1 - Warrant for All-Way Stop Control

Study location: Thurodale Avenue and Duckworth Street

Study Date: Wednesday, October 09, 2019

Four-Hour Study Period	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road ***	Unit Volume Split Major/Minor Roads ***
7:30 a.m. to 8:30 a.m.	154	60	64/36
8:30 a.m. to 9:30 a.m.	98	35	67/33
3:00 p.m. to 4:00 p.m.	112	61	56/44
4:00 p.m. to 5:00 p.m.	93	28	71/29
Study Period Average	114	46	64/36
Warrant Requirements For Study Period Average	≥ 250	≥ 100	$\geq 30/70$ or $\leq 70/30$

*** New Pedestrian Warrant numbers used as adopted by City Council on July 16, 2019 in the Vision Zero 2.0 report

To warrant the installation of an all-way stop control, the traffic volume requirements for the "Study Period Average" must be completely satisfied in either of the following two combinations of the above three categories:

"Total Approach Vehicle Volume" and "Unit Volume Split - Major/Minor Roads"

or

"Vehicle/Pedestrian Volume Crossing Major Road" and "Unit Volume Split - Major/Minor Roads"

Attachment 2: Location Map - Thurodale Avenue and Duckworth Street

