

All-Way Stop Control – Lord Roberts Drive and Wainfleet Road

Date: November 5, 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 for which Community Council has delegated authority from City Council to make a final decision.

This report recommends that an all-way stop control be authorized at the intersection of Lord Roberts Drive and Wainfleet Road as the existing conditions meet the warrant for the installation of such a traffic control device. This location currently has stop control facing the northbound approach on Wainfleet Road.

RECOMMENDATIONS

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

1. Scarborough Community Council authorize all-way compulsory stop control at the intersection of Lord Roberts Drive and Wainfleet Road.

FINANCIAL IMPACT

The cost of installing the signs, pavement markings and any required civil works (ramps and walkways) to accommodate accessible pedestrian crossings is approximately \$10,000.00. The funding for the signs and pavement markings are available in the Transportation Services Division's 2019 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

As a result of a request from Councillor Michael Thompson, Transportation Services staff reviewed the feasibility of installing all-way stop control at the intersection of Lord Roberts Drive and Wainfleet Road

Existing Conditions

- Lord Roberts Drive is two-lane local road with a posted speed limit of 40 km/h and Wainfleet Road is a two-lane local road with a regulatory speed limit of 50 km/h.
- Northbound traffic on Wainfleet Road is required to stop at Lord Roberts Drive.
- There are municipal sidewalks on both sides of Lord Roberts Drive and there is no TTC service along this road.
- The land use in the surrounding area consists mainly of single-family residential dwellings and an elementary school.

Analysis

All-way Stop Control Warrant Study

Study Date: March 21, 2019

Time period: 7:30 a.m. to 8:30 a.m. and 3:00 p.m. to 4:00 p.m.

All-Way Stop Control Warrant	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road	Unit Volume Split* Major/Minor Roads
Two-Hour Study Period Average	72	116	29/71
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 all-way stop control are met.

For an all-way stop control to be numerically justified, 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:

1. **"Total Approach Vehicle Volume"** and **"Unit Volume Split – Major/Minor Roads"** OR
2. **"Vehicle/Pedestrian Volume Crossing Major Road"** and **"Unit Volume Split – Major/Minor Roads"**

As outlined in the table, the Vehicle/Pedestrian Volume Crossing Major Road and Unit Volume Split meet the requirements to install all-way stop control at the intersection of Lord Roberts Drive. As such, Transportation Services staff recommend the installation of all-way stop control at the intersection of Lord Roberts Drive and Wainfleet Road.

Pedestrian Crossing Volume

Pedestrian Characteristics and Study Date: Thursday, February 21, 2019	Eight-Hour Pedestrian Crossing Volume		
	East Side	West Side	Total – Both Sides
*Assisted Children	87	8	95
Unassisted Children	18	0	18
Youths / Adults	79	15	94
Seniors	0	0	0
Totals	184	23	207

* Assisted children are children crossing the road accompanied by a youth, an adult or a senior citizen.

Collision History

A review of Toronto Police Service collision records for a three-year period ending December 31, 2018, did not find any reported collisions on Lord Roberts Drive and Wainfleet Road.

CONTACT

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SIGNATURE

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ATTACHMENTS

1. Attachment 1: Location Plan: All-Way Stop Control Review – Lord Roberts Drive and Wainfleet Road

Attachment 1 - Location Plan: All-Way Stop Control Review – Lord Roberts Drive and Wainfleet Road

