

All-Way Stop Control – Mary Chapman Boulevard and Mainshep Road

Date: May 1, 2019
To: Etobicoke York Community Council
From: Acting Director, Traffic Management, Transportation Services
Wards: Ward 7 – Humber River-Black Creek

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 staff's investigation of a request to have an all-way stop control installed at the intersection of Mary Chapman Boulevard and Mainshep Road. A staff assessment has determined that the installation of an all-way stop control is warranted and recommended at this intersection. The proposed all-way stop control will help improve traffic management and pedestrian safety at this location.

RECOMMENDATIONS

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

1. Etobicoke York Community Council authorize all-way stop control at the intersection of Mary Chapman Boulevard and Mainshep Road.

FINANCIAL IMPACT

The estimated cost for the installation of the all-way stop control is \$800.00. These funds are available within the Transportation Services 2019 Operating Budget.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Transportation Services received a request from an area resident, to investigate the feasibility of installing an all-way stop control at the intersection of Mary Chapman Boulevard and Mainshep Road to address concerns of safety at the intersection. A map of the area is Attachment 1.

Mary Chapman Boulevard and Mainshep Road are two-lane roads classified in the City's Road Classification System as "Local" roadways. Sidewalks are located on both sides of the streets. The legal posted speed limit on Mary Chapman Boulevard and Mainshep Road is 50 km/h. Eastbound motorists on Mainshep Road are currently controlled by a stop sign at the intersection.

The intersection is located in a community of residential properties east of Weston Road and south of Sheppard Avenue West. Both of these streets were constructed as part of the "Westtown" subdivision and are, therefore, relatively new. They have been dedicated as public highways, however they have not yet been assumed by the City of Toronto as public roads.

To address the request for additional stop controls at the intersection, a four-hour turning movement count was conducted during the morning and afternoon peak traffic periods on Wednesday, April 24, 2019. The justification for the installation of an all-way stop control is subject to a technical warrant adopted by Toronto City Council, which is based on collision history and traffic volume. Based on the findings of our studies, the intersection of Mary Chapman Boulevard and Mainshep Road meets the warrant criteria for an all-way stop control. Our studies results are summarized in Attachment 2.

Toronto Police Service collision records for a three-year period (January 1, 2016 – December 31, 2018) for which we have complete data revealed a good safety record with no reported collisions at the intersection.

To help improve traffic management and pedestrian safety, it is recommended that an all-way stop control be installed at the intersection of Mary Chapman Boulevard and Mainshep Road.

The ward Councillor has been advised of the recommendations of this staff report.

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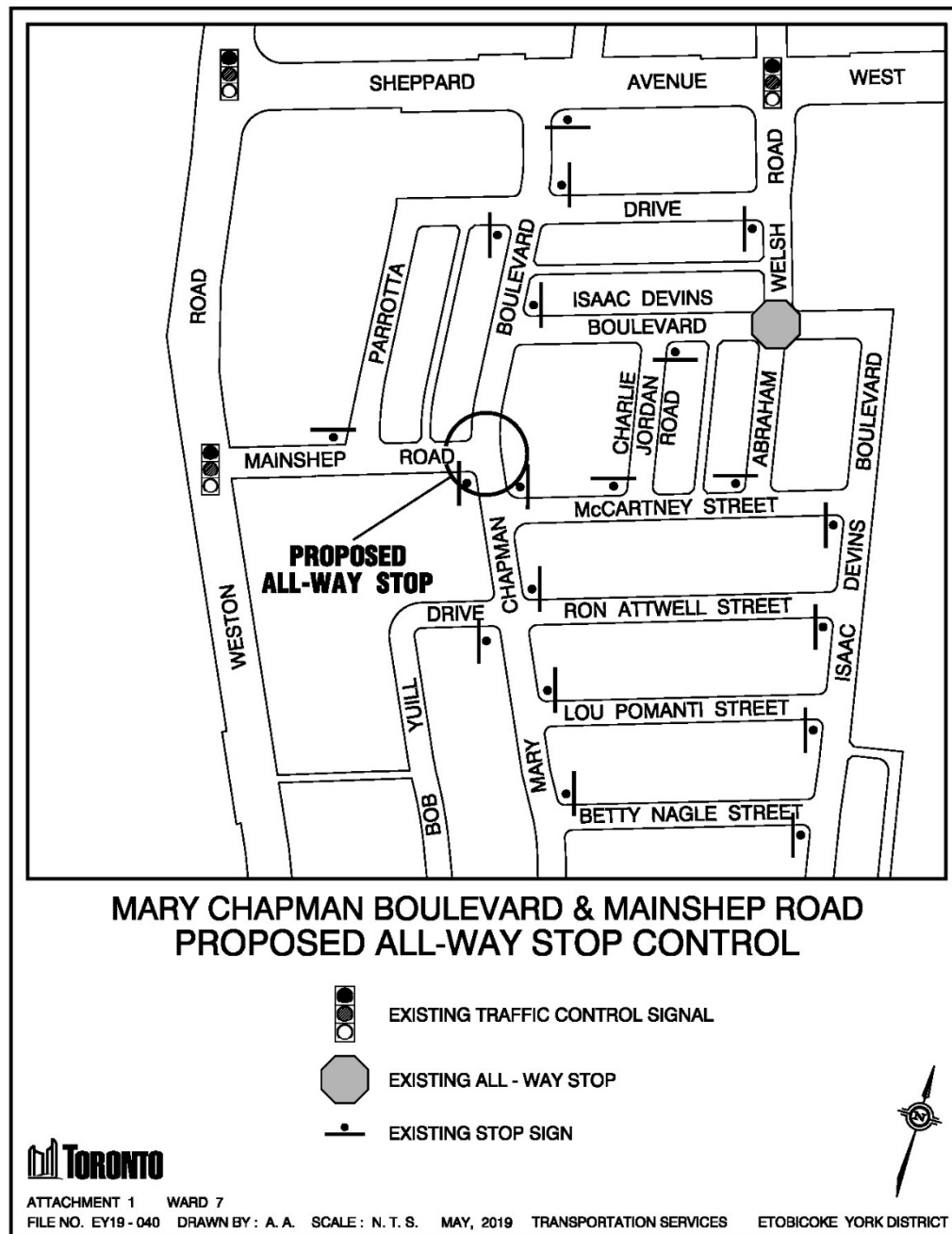
SIGNATURE

Roger Browne, M.A. Sc., P.Eng.
Acting Director, Traffic Management
Transportation Services

ATTACHMENTS

Attachment 1: Location Plan (Mary Chapman Boulevard and Mainshep Road).
Attachment 2: Warrant for All-Way Stop Control

Attachment 1: Location Map - Mary Chapman Boulevard at Mainshep Road



Attachment 2 - Warrant for All-Way Stop Control

Study location: Mary Chapman Boulevard and Mainshep Road

Study Date Wednesday, April 24, 2019

Four-Hour Study Period	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road	Unit Volume Split Major/Minor Roads
7:00 a.m. to 8:00 a.m.	187	57	70/30
8:00 a.m. to 9:00 a.m.	305	100	68/32
4:00 p.m. to 5:00 p.m.	246	137	47/53
5:00 p.m. to 6:00 p.m.	288	165	45/55
Study Period Average	257	115	57/43
Warrant Requirements For Study Period Average	≥ 250	≥ 100	$\geq 30/70$ or $\leq 70/30$

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"