

All-Way Stop Control - Mary Chapman Boulevard and Parrotta Drive

Date: March 5, 2021
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.

Transportation Services has reviewed the need for all-way stop control at the intersection of Mary Chapman Boulevard and Parrotta Drive. Based on the assessment undertaken, Transportation Services does not recommend the installation of all-way stop control at this intersection as the warrant criteria was not met.

RECOMMENDATIONS

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

1. Etobicoke York Community Council not authorize all-way compulsory stop control at the intersection of Mary Chapman Boulevard and Parrotta Drive.

FINANCIAL IMPACT

There is no financial impact resulting from the adoption of the recommendation in this report.

If Etobicoke York Community Council amends the recommendation in this report and authorizes the installation of all-way stop control, the estimated cost associated with the amendment is \$800.00. Funding would be subject to availability and competing priorities within the Transportation Services current 2021 Operating and Capital Budgets.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

At the request of the Ward Councillor, on behalf of area residents, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Mary Chapman Boulevard and Parrotta Drive.

Existing Conditions

Mary Chapman Boulevard is characterized by the following conditions:

- It is a two-lane, north-south, roadway pending classification.
- It operates two-way traffic on a pavement width of approximately 7.5 metres
- The daily two way traffic volume is approximately 800 vehicles
- The unposted regulatory speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service.
- There are sidewalks located on both sides of the street

Parrotta Drive is characterized by the following conditions:

- It is a two-lane, east-west, roadway pending classification
- It operates two-way traffic on pavement widths of approximately 8.3 and 7.5 metres, east and west of Mary Chapman Road, respectively
- The daily two way traffic volume is approximately 400 vehicles
- The unposted regulatory speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There is no TTC service
- There are sidewalks located on both sides of the street

These two streets intersect to form a four-leg intersection, with right-of-way controlled by stop signs for eastbound and westbound traffic on Parrotta Drive. All-way stop control is located approximately 160 metres to the south of the intersection at the intersection of Mary Chapman Road and Mainshep Road. Land use in the area is residential.

A map of the area is included in Attachment 1.

Study Results

In order for all-way stop control to be warranted at an intersection, established criteria must be satisfied. The warrants consist of four components, including: collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

Collision history provided by the Toronto Police Service for the three-year period ending December 31, 2019, disclosed that no reported collisions have occurred at this intersection.

Transportation Services conducted an all-way stop control study on Wednesday, February 12, 2020, at the subject intersection. The results of the study were evaluated against the warrant criteria for all-way stop control as adopted by City Council. The evaluation is summarized in Table 1.

Table 1: All-Way Stop Control Study at Mary Chapman Boulevard and Parrotta Drive

No.	Warrant Type	Actual	Required	Satisfied (Yes/No)
A	Number of Potentially Preventable Collisions (January 1, 2017 - December 31, 2019)	0	6	No
B1	Average Vehicle Volumes	126/hour	250/hour	No
B2	Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)*	53/hour	100/hour	No
B3	Percentage of Traffic on Major Street*	62%	≤70%	Yes

*New pedestrian warrants applied 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 achieved. Based on the study results, the technical warrants for the installation of all-way stop control are not satisfied. Therefore, it is not recommended that all-way stop control be installed at the intersection of Mary Chapman Boulevard and Parrotta Drive.

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.
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ATTACHMENTS

Attachment 1: Map - All-Way Stop Control - Mary Chapman Boulevard and Parrotta Drive

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