

Committee of the Whole Report

DATE: Tuesday, May 07, 2019

WARD(S): 1

TITLE: ALL-WAY STOP REVIEW AT THE INTERSECTION OF BARONS STREET AND RICHLER AVENUE

FROM:

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ACTION: FOR INFORMATION

Purpose

This report assesses the need for additional traffic control measures at the intersection of Barons Street and Richler Avenue, as per direction from Committee of the Whole at its April 2, 2019 meeting.

Report Highlights

- At its April 2, 2019 meeting, Committee of the Whole directed that staff bring forward a report on the merits of installing an all-way stop control at the intersection of Barons Street and Richler Avenue.
- Traffic studies show that the Provincial Warrant for an all-way stop control is currently not met.

Recommendations

1. That this report be received.

Background

At its April 2, 2019 meeting, Committee of the Whole directed that staff bring forward a report on the merits of installing an all-way stop control at the intersection of Barons Street and Richler Avenue.

Barons Street and Richler Avenue form a four-legged intersection, with two travel lanes per leg (one lane per direction). Barons Street is a collector road with a pavement width of 11.5 metres, and right-of-way width of 23.0 metres. Barons Street is also equipped with bicycle lanes and layby parking lanes both north and south of Richler Avenue. Richler Avenue is a local road with a pavement width of 8.0 metres, and right-of-way width of 17.5 metres.

Barons Street is oriented north-south and does not currently require vehicles to stop at Richler Avenue. Vehicles traveling on Richler Avenue, which is oriented east-west, are required to stop at Barons Street. There are sidewalks along both sides of both streets, and textured walkways on all four sides of the intersection.

Staff have noted that there are several pedestrian generators/destinations located within this community, including Pope Francis Catholic Elementary School and Secord Park, both on the block to the northwest of Barons Street and Richler Avenue.

Previous Reports/Authority

["New Business – All Way Stop Sign At Intersection of Barons Street And Richler Avenue", Committee of the Whole – Item 19, April 2, 2019.](#)

Analysis and Options

The Provincial Warrant for an all-way stop control is currently not met at the intersection of Barons Street and Richler Avenue.

The City's warrant analysis for all-way stop controls takes into consideration the minimum vehicular volumes required, accident hazards, and sight restrictions at the intersection. This warrant analysis is generally based on the thresholds established in Book 5 of the Ontario Traffic Manual. The study results are summarized in Table 1.

As shown in the Table, observed traffic volumes at that intersection are 48% percent of the minimum required to meet the Provincial Warrant for all-way stop controls. Traffic volume data is based on the City's most recent turning movement counts at the intersection of Barons Street and Richler Avenue, collected on Wednesday, October 3,

2018, during the peak traffic periods of 7:00 a.m. to 9:00 a.m. and 3:00 p.m. to 6:00 p.m.

Table 1: All Way Stop Warrant Analysis at Barons Street and Richler Avenue

Warrant #	Warrant Description	Study Results
Warrant 1	Minimum Vehicular Volumes	48%
Warrant 2	Accident Hazards	0%
Warrant 3	Sight Restrictions	0%

The Table also shows that Warrant 2, based on accident hazards, was not met. Specifically, collision data from York Regional Police indicate that there have been no reported collisions at this intersection during the three-year period from June, 2015 to June, 2018. In addition, Warrant 3, based on sight restrictions, was not met. Specifically, the sightline assessment found that pedestrian and motorist sightlines are unobstructed at this intersection.

All-way stop controls are recommended when one of the above warrants meets or exceeds 100 percent. Based on the analysis, the warrant for all-way stop controls is not met.

Traffic and pedestrian volumes are anticipated to increase.

While the intersection does not currently satisfy the warrant for an all-way stop, traffic and pedestrian volumes are expected to increase due to on-going growth and development in the area, and the upcoming installation of a splash pad at Secord Park (expected to open later this year). Staff will continue to monitor traffic conditions at this intersection to determine when additional traffic controls are needed, such as a pedestrian crossing protection or an all-way stop.

Financial Impact

None.

Broader Regional Impacts/Considerations

None.

Conclusion

Traffic studies show that existing traffic volumes at this intersection do not yet meet the Provincial Warrant for all-way stop controls.

For more information, please contact:

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Attachments

1. Location Map

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