



## City of North Bay Report to Council

Report No: IO-2023-009

Date: May 11, 2023

Originator: Megan Rochefort, P.Eng.

Business Unit:

Department:

Infrastructure and Operations

Engineering

Subject: All-way Stop at Mountainview Drive and Wickstead Avenue

Closed Session: yes  no

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### Recommendation

That Council authorize an amendment to Traffic By-Law 2014-38 to adjust the traffic control at Mountainview Drive and Wickstead Avenue to All-way stop control, as set out in Report to Council IO-2023-009.

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### Background

During the summer of 2022, construction work was taking place around the area of Trout Lake Road. As a result, temporary All-way stop traffic control was installed at the intersection of Mountainview Drive and Wickstead Avenue to improve traffic flow during construction. Since the additional signage was installed, there have been numerous requests from the community to maintain All-way control at the intersection. In response to the requests, a traffic count was collected, and a warrant analysis was undertaken.

For the basis of this report, Mountainview runs north to south, and Wickstead Avenue runs east to west. The intersection is currently controlled by stop signs on Wickstead Avenue, while traffic on Mountainview Drive is free flowing.

### Analysis:

The warrant analysis was undertaken following the guidelines in Book 5 of the Ontario Traffic Manual (OTM), which looks at traffic volume and volume split, or collision history. Both Mountainview Drive and Wickstead Avenue are classified as collector roads.

For the volume split, the volume of the minor street must not be less than

30% of the total volume entering the intersection, which was met for the intersection. The minimum intersection volume warrant (the total number of vehicles using the intersection during peak hours) was also met for the required time period.

All-way stop conditions can be considered at intersections where there is a high accident frequency (an average of 3 collisions per year over a 3-year period). Only collisions susceptible to relief through an All-way stop are to be considered. During the period reviewed, there were 8 reported collisions at the intersection that met the criteria for this warrant, so the warrant was not fully met.

Based on the volume warrant being satisfied, All-way stop control is warranted at this intersection.

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### **Financial/Legal Implications**

There are no financial or legal implications.

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### **Corporate Strategic Plan**

- |  |   |
|--|---|
| <input type="checkbox"/> Natural North and Near                | <input type="checkbox"/> Economic Prosperity                |
| <input type="checkbox"/> Affordable Balanced Growth            | <input checked="" type="checkbox"/> Spirited Safe Community |
| <input type="checkbox"/> Responsible and Responsive Government |   |

### **Specific Objectives**

- Work with community stakeholders to enhance safety and integration throughout the City.

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### **Options Analysis**

Option 1: Authorize an amendment to Traffic By-Law 2014-38 to adjust the traffic control at Mountainview Drive and Wickstead Avenue to All-way stop control, as set out in Report to Council IO-2023-009.

Option 2: Do not install an All-way stop at Mountainview Drive and Wickstead Avenue. This option is not recommended.

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**Recommended Option**

Option 1: Authorize an amendment to Traffic By-Law 2014-38 to adjust the traffic control at Mountainview Drive and Wickstead Avenue to All-way stop control, as set out in Report to Council IO-2023-009.

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Respectfully submitted,

Name: Megan Rochefort, P.Eng.

Title: Municipal Engineer

**I concur with this report and recommendation**

Name Adam Lacombe, P. Eng.

Title: Senior Capital Program Engineer

Name John Severino, P.Eng., MBA

Title: Chief Administrative Officer

Personnel designated for continuance:

Megan Rochefort, P.Eng.

Municipal Engineer