

All-Way Stop Control – Attlee Avenue at Roland Street

Background

City staff received a request from Ward Councillor Landry-Altmann and area residents to determine if an all-way stop is warranted at the intersection of Attlee Avenue and Roland Street. This intersection is located in Ward 12, one block north of LaSalle Boulevard and is currently controlled with stop signs facing eastbound traffic on Roland Street and westbound traffic from the private entrance (Figure 1).

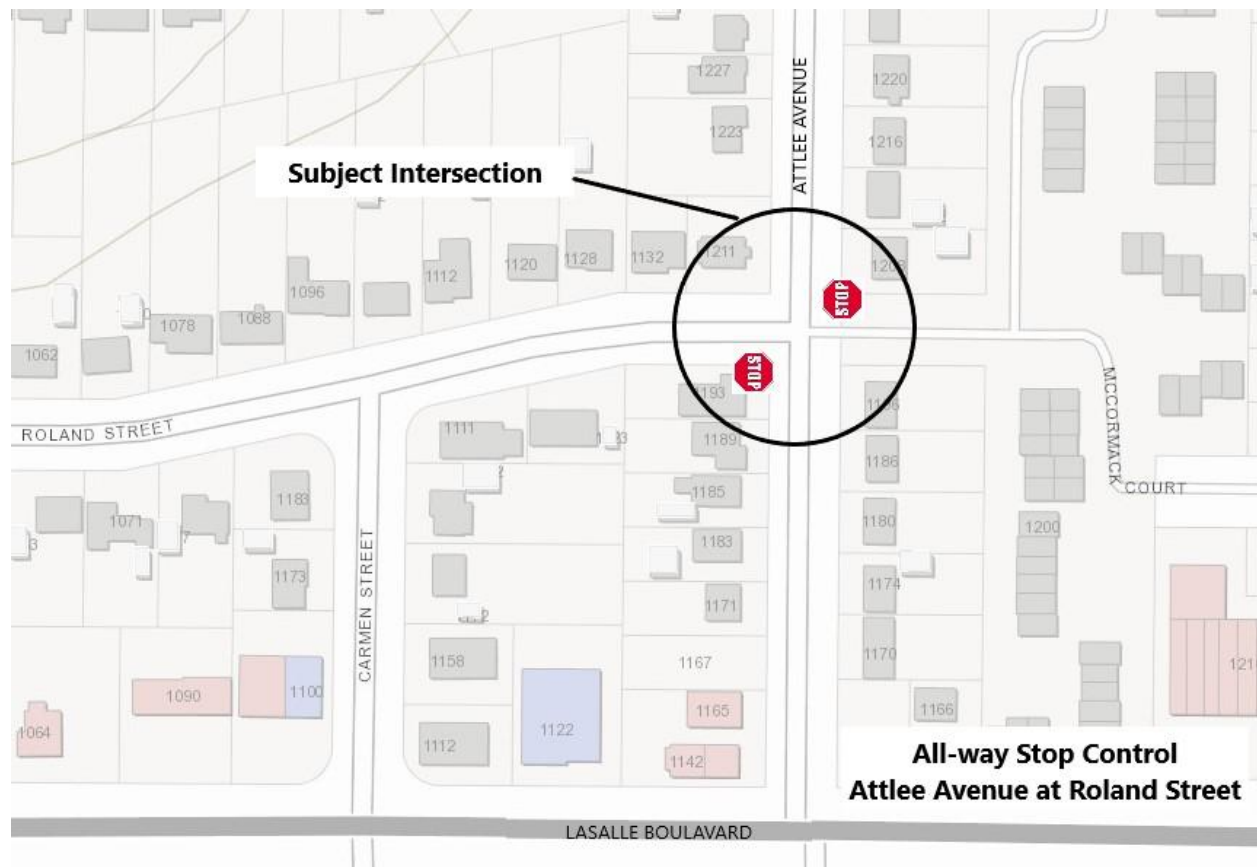


Figure 1: Existing stop sign configuration at Attlee Avenue and Roland Street

In an effort to gauge resident support, Ward 12 Councillor Landry-Altmann surveyed the residents of Attlee Avenue and Roland Street to determine whether or not they supported an all-way stop at the intersection. In total, 48 residents responded and results from the survey indicate that area residents are divided on whether they want an all-way stop installed at this intersection with 48% in favor and 52% opposed.

Data Collection and Analysis

In 2008, City Council adopted an All-Way Stop Policy for the City of Greater Sudbury. The policy is based on a jurisdictional scan of Ontario municipalities and reduces the requirements to have all-way stops installed.

On November 25, 2019, staff conducted a turning movement count at this intersection and applied the data to the all-way stop policy. As shown in Appendix A, the total vehicle volume from all approaches at this specific intersection meets only 38% of the minimum vehicle volume required to warrant an all-way stop.

A review of the collision history from 2017 to 2020 year-to-date revealed that there was a single collision that may potentially have been prevented with an all-way stop at this location. The all-way stop warrant for a local road requires there be a minimum of two (2) collisions per year over a three (3) year period to qualify for the installation of an all-way stop.

From the written feedback included on the survey, staff noted that approximately 5% of residents indicated that speeding is one of their main concerns. It is important to note that all-way stops are not effective as a speed control device. Studies have shown that stop signs only influence drivers to slow down within close proximity of the intersection and speeds may actually increase mid-block as drivers attempt to make up for the perceived lost time.

In addition to completing the all-way stop warrant, staff reviewed this section of Attlee Avenue against the City's Traffic Calming Policy and warrant to determine if it would qualify which would help to address the speeding concerns some residents expressed in the survey. The traffic calming warrant includes an initial screening where a combination of requirements must be met for a section of roadway to be eligible for traffic calming. The segment of Attlee Avenue, north of LaSalle Boulevard, did not pass the initial screening for traffic calming due to low vehicle volumes and is therefore not recommended to have traffic calming features installed on it.

At this time, based on the vehicle volumes and collision history, an all-way stop is not warranted at the intersection of Attlee Avenue and Roland Street.

Resources Cited:

City of Greater Sudbury, *Traffic Calming Policy*, Accessed online:

<http://agendasonline.greatersudbury.ca/index.cfm?pg=feed&action=file&attachment=1993.pdf>