

Traffic Control – Scarlett Road at Greenbriar Drive

Presented To:	Operations Committee
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Type:	Routine Management Reports
Prepared by:	Ryan Purdy Linear Infrastructure Services
Recommended by:	General Manager of Growth and Infrastructure

Report Summary

This report provides a recommendation to reassign the right-of-way at the intersection of Scarlett Road at Greenbriar Drive to implement a standard uniform system of traffic control.

Resolution

THAT the City of Greater Sudbury controls the intersection of Scarlett Road at Greenbriar Drive with a stop sign facing eastbound traffic on Scarlett Road as outlined in the report entitled “Traffic Control – Scarlett Road at Greenbriar Drive” from the General Manager of Growth and Infrastructure, presented at the Operations Committee meeting on March 25, 2024.

AND THAT the City of Greater Sudbury directs staff to prepare a by-law to amend Traffic and Parking By-Law 2010-1 in the City of Greater Sudbury to implement the recommended changes.

Relationship to the Strategic Plan, Health Impact Assessment and Community Energy & Emissions Plan (CEEP)

This report refers to operational matters and has no direct connection to the Community Energy & Emissions Plan.

Financial Implications

Recommendations of this report may be carried out within the existing approved operating budget and staffing resources.

Background

The City’s Transportation and Innovation Support section received requests from area residents to review the intersection of Scarlett Road and Greenbriar Drive where a non-standard system of traffic control was implemented.

Scarlett Road and Greenbriar Drive intersect forming a T intersection. Currently there are two stop signs installed at the intersection with one facing southbound traffic on Greenbriar Drive and one facing northbound traffic on Greenbriar Drive (see Figure 1 below). This is not a standard form of traffic control at a T intersection and may result in some confusion, especially for the drivers who are not familiar with the area.

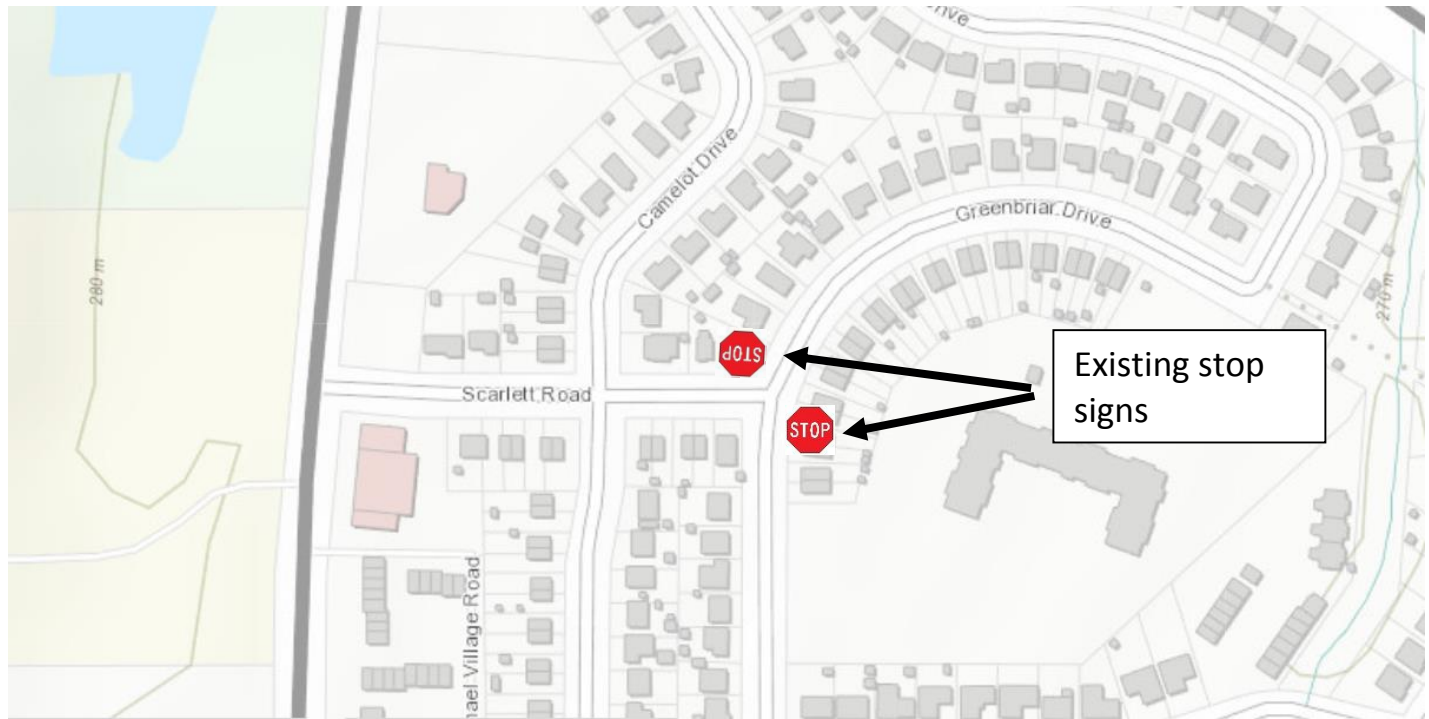


Figure 1: Intersection of Scarlett Road and Greenbriar Drive

Analysis

Staff first reviewed whether an all-way stop was warranted at this intersection. A turning movement count was completed at the intersection on November 20, 2023. Applying the data to the City's minimum vehicle volume warrant indicates that the total vehicle volume meets only 59% of the minimum volume requirements (see Exhibit A). A review of the City's collision data from 2020 to 2023 year to date revealed that there were no reported collisions at the intersection during this period.

Conclusion

Based on traffic volume and collision history, an all-way stop is not warranted at this intersection. However, to improve safety and to implement a standard uniform system of traffic control, the current stop signs on Greenbriar Drive should be removed and traffic be controlled with a stop sign facing eastbound traffic on Scarlett Road.

Next Steps

If approved, it is expected the traffic control reassignment will take place in early in the summer of 2024.

The process for reassigning the right-of-way at an intersection is a multiple step process which can be confusing to drivers. To try and minimize the risk of a collision, the Ontario Traffic Manual (OTM) has provided a procedure that is to be followed to safely carry out the transition. The intent of the procedure is to change driver expectation and behavior by alerting drivers to a state of operational change. The following is a summary of the required procedure:

- i. The process will begin by installing a new stop sign facing eastbound traffic on Scarlett Road with appropriate tabs to create an all-way stop at the intersection. The all-way stop is to remain in effect for at least 15 days.
- ii. At the same time, large signs will be installed facing northbound and southbound traffic on Greenbriar Drive indicating “cross traffic does not stop”. Below this sign, a tab sign is installed stating “After”, with the month and day indicating when the stop sign will be removed.
- iii. After minimum of 15 days, the stop signs facing both northbound traffic and southbound traffic on Greenbriar Drive will be removed. The tab signs with the month and day are also removed.
- iv. After an additional period of a minimum of 15 days, the “cross traffic does not stop” signs are removed.

In addition to utilizing the above sign installation procedure, staff will issue a public service announcement to advise the public of the change in traffic control at the intersection. Greater Sudbury Police Services will also be requested to increase the level of enforcement at the intersection during the transition period.

Resources Cited

Ontario Traffic Manual, Book 5 – Regulatory Signs, December 2021