

COMMITTEE OF THE WHOLE – JUNE 7, 2004

SILVERADO TRAIL AND SOUTH BELAIR DRIVE PROPOSED ALL-WAY STOP CONTROL

Recommendation

The Commissioner of Engineering and Public Works recommends:

That an all-way stop control not be installed at the intersection of Silverado Trail and South Belair Drive.

Purpose

To review the feasibility of implementing an all-way stop control at the intersection of Silverado Trail and South Belair Drive, in response to direction from Council.

Background - Analysis and Options

At its meeting on May 10, 2004 Council directed:

“THAT staff be requested to investigate the need for and feasibility of installing an all-way stop control at Silverado Trail and South Belair Drive and to report to the Committee of the Whole meeting of June 7, 2004.”

Silverado Trail and South Belair Drive are local residential roads. The speed limit on both streets is a statutory 50 km/h. Existing stop controls are located on South Belair Drive. The area is shown on Attachment No. 1.

Area residents have expressed concerns at this intersection, citing the lack of an all-way stop control.

Staff conducted a turning movement count on May 4, 2004 at the intersection during peak travel periods. The times that the counts were conducted were from 7:30am to 9:00am and 3:00pm to 5:00pm. The collected traffic volumes compared to the Provincial Warrant for All-way Stop Control are as shown below.

Silverado Trail and South Belair Drive

- Warrant 1 – Minimum Vehicular Volumes Warranted 16%
- Warrant 2 – Accident Hazard Warranted 0%
- Warrant 3 – Sight Restriction Warranted 0%

For an all-way stop control to be warranted, one or more of the 3 warrants must be satisfied 100% or more. The results of the turning movement counts do not meet the requirements of the Provincial Warrant for All-Way Stop Control. The above results reflect the highest peak traffic hour at this intersection.

In addition, radar speed studies were conducted on May 4, 2004 from 7:45 am to 9:00 am, and from 3:00pm to 5:00 pm on Silverado Trail. The following table summarizes the results of this investigation.

DATE	TIME	LOCATION	DIRECTION	AVERAGE SPEED
May 4, 2004	7:45-9:00 am	East of South Belair	Eastbound	38
	7:45-9:00 am	East of South Belair	Westbound	37
May 4, 2004	3:00-5:00 pm	East of South Belair	Eastbound	41
	3:00-5:00 pm	East of South Belair	Westbound	40

The average speeds on Silverado Trail range from 37 to 41 km/h indicating a high level of compliance with the existing speed limit. Therefore, no changes to the statutory 50 km/h speed limit are recommended.

There are no sight distance restrictions noted at this intersection. There were also no reported vehicle collisions at this intersection. Silverado Trail is designated as a through street with the stop control located on the side streets.

Relationship to Vaughan Vision 2007

This traffic study is consistent with Vaughan Vision 2007 as to identify and implement innovative traffic management alternatives to improve general traffic safety (1.1.3).

This report is consistent with the priorities previously set by Council and the necessary resources have been allocated and approved.

Conclusion

Based on staff's review, it is recommended that an all-way stop control not be installed at the intersection of Silverado Trail and South Belair Drive.

Attachments

1. Location Map

Report prepared by

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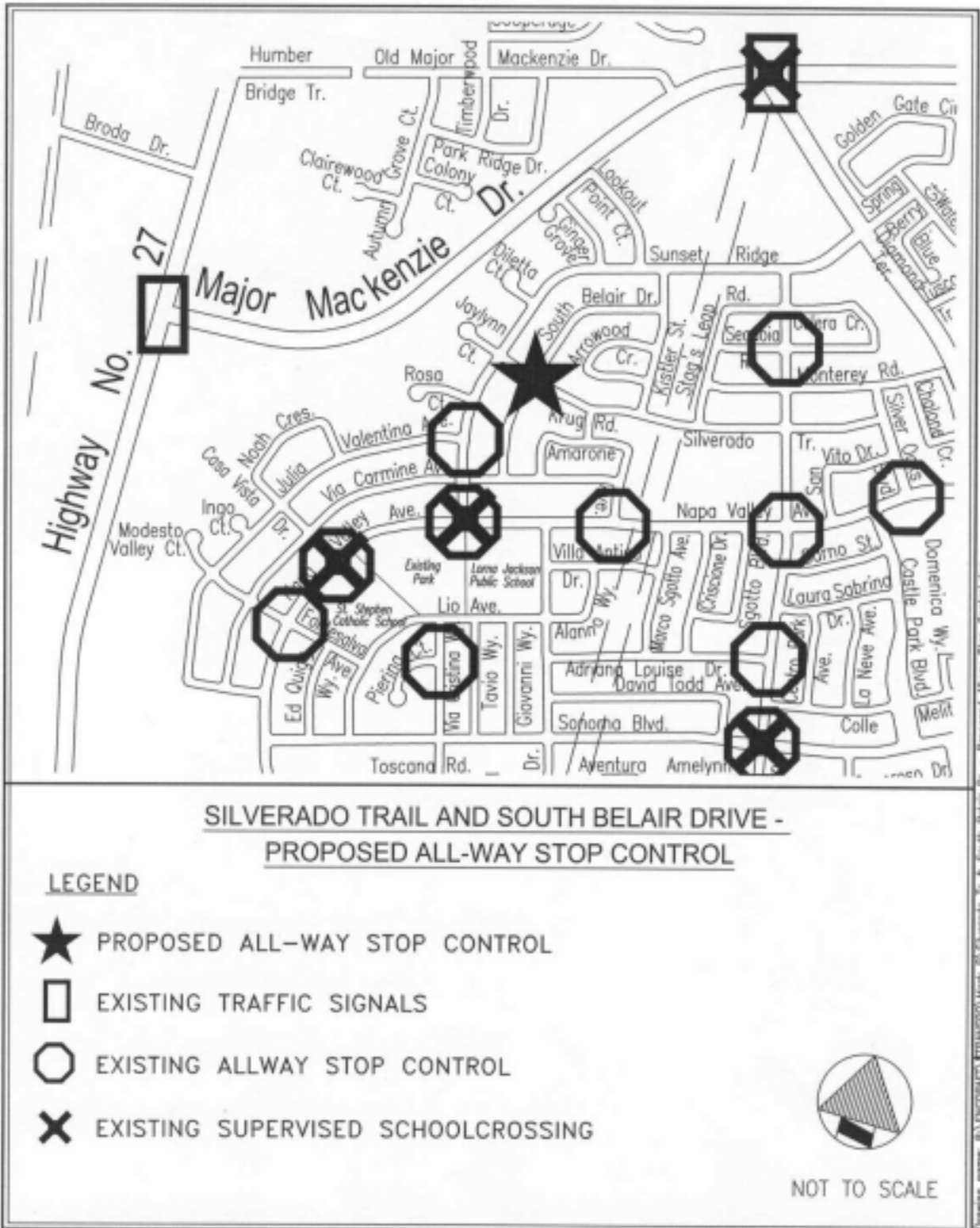
Respectfully submitted,

Bill Robinson, P. Eng.
Commissioner of Engineering and Public Works

MR/fc

Michael Won, P. Eng.
Director of Development/Transportation
Engineering

ATTACHMENT No. 1



Drawing name: R:\D\040547\11\11\05\00\Mark R\Silverado Tr & South Belair Dr - Proposed Allway Stop Control.dwg