



## STAFF REPORT ACTION REQUIRED

### Proposed Traffic Control Signals at Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall Driveway

<b>Date:</b>	August 21, 2007
<b>To:</b>	Scarborough Community Council
<b>From:</b>	Director, Transportation Services, Scarborough District
<b>Wards:</b>	Ward 39 – Scarborough-Agincourt
<b>Reference Number:</b>	P:\2007\Cluster B\TRA\Scarborough\sc07045 D07-1007 Bridletowne Beverly Glen

### SUMMARY

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This staff report is about a matter for which the Community Council has delegated authority from City Council to make a final decision.

This report provides the results of a Traffic Control Signal Warrant study conducted at the intersection of Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall Driveway.

Traffic studies reveal that traffic control signals are warranted at the noted intersection.

### RECOMMENDATIONS

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**Transportation Services, Scarborough District, recommends that Scarborough Community Council:**

1. Approve the installation of traffic control signals at the intersection of Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall driveway,
2. Subsequent to the foregoing approval, approve the removal of the existing all-way stop control coincident with the installation of the traffic control signals, and
3. Pass or amend the appropriate by-law(s) accordingly.

## Financial Impact

The financial cost of installing these new traffic control signals is approximately \$150,000.00. The funding for these signals is available in Transportation Services Division's Capital Works Budget under Project No. CTP706-01.

## ISSUE BACKGROUND

Further to a request from City Councillor Mike Del Grande, Transportation Services staff reviewed the feasibility of installing traffic control signals at the intersection of Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall driveway.

## COMMENTS

Several characteristics describe the intersection of Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall driveway, including:

- This four-way intersection is located in the L'Amoreaux Neighbourhood and is presently regulated by an all-way stop control, which is supplemented by an overhead four-way red flashing beacon.
- Bridletowne Circle is a wide two-lane (13 metres) minor arterial roadway with a speed limit of 50 kilometres per hour (not signed) and a daily traffic volume of approximately 11,000 vehicles per day (vpd).
- Beverly Glen Boulevard is a two-lane (9.8 metres) collector roadway with a speed limit of 40 kilometres per hour and a daily traffic volume of approximately 3,000 vpd.
- Bridlewood Mall is located on the east side of the intersection.
- Traffic control signals are located 250 metres away north and east of this intersection at Warden Avenue, and a pedestrian crossover is located 215 metres south of the intersection.
- Sidewalks are located on the both sides of Bridletowne Circle and both sides of Beverly Glen Boulevard.

## Traffic Control Signal Warrant Study

Transportation Services staff conducted a Traffic Control Signal Warrant Study at the intersection of Bridletowne Circle and Beverly Glen Boulevard / Bridlewood Mall driveway. Using traffic volumes recorded over the peak eight hours of a typical weekday and a Saturday, the following results were obtained:

Traffic Control Signal Warrant	Compliance Level	
	Wednesday, March 28, 2007	Saturday, May 26, 2007
Minimum Vehicular Volume	95% *	100%
Delay To Cross Traffic	72%	77%
Collision Hazard	0%	0%

\* Projected to meet 100% within 12-months.

For traffic control signals to be numerically justified, one of the “Minimum Vehicular Volume” or “Delay to Cross Traffic” warrants must be 100% satisfied or any two of the three warrants must be at least 80% satisfied.

As outlined in the above table, the “Minimum Vehicular Volume” category is met on a Saturday and is close to being met on a weekday, which is projected to be completely met within twelve months due to the normal increase in traffic volume. The installation of traffic control signals can be justified at the subject intersection based on the foregoing information.

**Collision History**

A review of the Toronto Police Service collision records for the five-year period ending December 31, 2006 revealed the following history:

Five-Year Collision Information	Number of Reported Collisions					
	2002	2003	2004	2005	2006	Total
Total Collisions	0	3	1	2	1	7
Collisions Potentially Preventable by the Installation of Traffic Control Signals	0	0	0	0	0	0
Collisions Involving Pedestrians	0	0	0	0	0	0

In summary, traffic control signals are justified and should be installed at the subject intersection, which should improve traffic operations and should not have a significant impact on the operation of the arterial road network. Coincident with the installation of the traffic control signals, the existing all-way stop control will be removed.

Bridletowne Circle is classified as a Minor Arterial Road in the City's approved Road Classification System; therefore, the final decision on the installation of the proposed traffic control signals has been delegated to Scarborough Community Council.

## **CONTACT**

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## **SIGNATURE**

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Director, Transportation Services, Scarborough District

SR:ca

## **ATTACHMENTS**

1. Appendix 1 – By-law Amendment (rescind)
2. Location Plan (Proposed Traffic Control Signals – Bridletowne Circle at Beverly Glen Boulevard / Bridlewood Mall Driveway)

Appendix 1

“Compulsory Stops”  
Regulation to be Rescinded

Column 1  
Intersection

Column 2  
Stop Street

Bridletowne Circle and  
Beverly Glen Boulevard

Bridletowne Circle