

Proposed Stop Controls at the West Intersection of Dolly Varden Boulevard and Bluefin Crescent in the Woburn Neighbourhood

Date:	December 20, 2006
To:	Scarborough Community Council
From:	Director, Transportation Services, Scarborough District
Wards:	Ward 38 – Scarborough Centre
Reference Number:	P:\2007\Cluster B\TRA\Scarborough\sc07007 D06-2553 Dolly Varden Bluefin Stop Signs

SUMMARY

This report responds to a request to install all-way stop controls at the west intersection of Dolly Varden Boulevard and Bluefin Crescent. At the same time, staff reviewed the installation of minor street stop signs at five other uncontrolled three-way intersections in the Woburn Neighbourhood. It is recommended that minor street stop signs be installed at the six uncontrolled three-way intersections to clearly define the right-of-way and to regulate traffic flow.

RECOMMENDATIONS

Transportation Services, Scarborough District, recommends that:

1. An all-way stop control not be installed at the west intersection of Dolly Varden Boulevard and Bluefin Crescent.
2. The “Compulsory Stops” regulation, as identified in the Appendix 1 of this report, be adopted.
3. The appropriate by-law be amended.

FINANCIAL IMPACT

The financial cost of installing these stop controls is approximately \$900.00. The funding for these stop controls is available in the Transportation Services 2007 Operating Budget, within Cost Centre TP0226.

The Deputy City Manager and Chief Financial Officer has reviewed this report and agrees with the financial impact information.

DECISION HISTORY

Further to a request from City Councillor Glenn De Baeremaeker, Transportation Services staff reviewed the feasibility of installing all-way stop controls at Dolly Varden Boulevard and Bluefin Crescent (west intersection).

ISSUE BACKGROUND

The justification for the installation of an all-way stop control is based on a technical warrant adopted by Council for use in the City of Toronto.

COMMENTS

Several factors describing the intersection of Dolly Varden Boulevard and Bluefin Crescent include:

- This west intersection is located in the community west of Markham Road and south of Ellesmere Road.
- Dolly Varden Boulevard is a two-lane local road with a posted speed limit of 40 kilometres per hour and a daily traffic volume of approximately 460 vehicles per day.
- Bluefin Crescent is also a two-lane local road which intersects Dolly Varden Boulevard at two locations to form three-way intersections.
- The east intersection is controlled by a stop sign on Bluefin Crescent, and the west intersection is presently uncontrolled.
- Sidewalks are located on both sides of Dolly Varden Boulevard.

All-Way Stop Control Warrant Study

A traffic study conducted at the west intersection of Dolly Varden Boulevard and Bluefin Crescent during the morning and afternoon peak hours of a typical weekday (Tuesday, November 7, 2006) produced the following results:

All-Way Stop Control Warrant	Total Approach Vehicle Volume	Vehicle/Pedestrian Volume Crossing Major Road	Unit Volume Split* Major/Minor Roads
Two-Hour Study Period Average	51	21	69/31
Warrant Requirements For Study Period Average For Local Roads	≥ 250	≥ 100	$\geq 30/70$ or $\leq 70/30$

* "Unit Volume Split": Major Road Volume – Vehicles only.
Minor Road Volume – Vehicles plus pedestrians crossing the major road.

For an all-way stop control to be numerically justified, the traffic volume requirements for the "Study Period Average" must be completely satisfied in either of the following two combinations of the three categories:

1. "Total Approach Vehicle Volume" and "Unit Volume Split – Major/Minor Roads"
- or
2. "Vehicle/Pedestrian Volume Crossing Major Road" and "Unit Volume Split – Major/Minor Roads"

As outlined in the above table, the traffic volumes do not meet the requirements to install an all-way stop control at the subject intersection at this time.

However, although a review of the collision records revealed that no collisions were reported at this intersection during the past five years, 2001 to 2005, it would be prudent to install a stop sign on Bluefin Crescent. This stop sign would encourage motorists to stop before the sidewalk to enhance pedestrian safety.

In addition to the west intersection of Dolly Varden Boulevard and Bluefin Crescent, there are five other uncontrolled three-way intersections in the immediate area. Accordingly, to provide stop sign uniformity in the vicinity and for the same safety reasons, stop signs are also recommended at the following five locations:

1. Albacore Crescent at Bridlington Street
2. Bridlington Street at Amberjack Boulevard
3. Highcourt Crescent at Amberjack Boulevard, North Intersection
4. Highcourt Crescent at Amberjack Boulevard, South Intersection
5. Pendle Hill Court at Amberjack Boulevard

When installed, the warranted stop signs will help to clarify road right-of-way and regulate traffic flow.

CONTACT

Ian R. Harvey
Acting Manager, Traffic Operations, Scarborough District
Tel: 416-396-7148
Fax: 416-396-5681
E-Mail: iharvey@toronto.ca

SIGNATURE

Peter J. Noehammer, P. Eng.
Director
Transportation Services, Scarborough District

JAB/FJB:ca

ATTACHMENTS

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Stop Signs – Amberjack Boulevard and Dolly Varden Boulevard Area)

Appendix 1

“Compulsory Stops” Regulation to be Enacted

Column 1 Intersection

Column 2 Stop Street

Albacore Crescent and
Bridlington Street

Albacore Crescent

Bluefin Crescent and
Dolly Varden Boulevard,
West Intersection

Bluefin Crescent

“Through Streets” Regulation to be Enacted

Column 1 Highway

Column 2 From

To

Amberjack Boulevard

East Limit of
Bellamy Road North,
North Intersection

North Limit of
Brimorton Drive