



## STAFF REPORT ACTION REQUIRED

### Proposed Minor Street Stop Signs – Benshire Drive Area

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|--------------------------|---|
| <b>Date:</b>             | April 10, 2008  |
| <b>To:</b>               | Scarborough Community Council   |
| <b>From:</b>             | Director, Transportation Services, Scarborough District                             |
| <b>Wards:</b>            | Ward 38 – Scarborough Centre  |
| <b>Reference Number:</b> | P:\2008\Cluster B\TRA\Scarborough\sc08030<br>D07-746 Benshire Drive Area Stop Signs |

#### **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 responds to a request to install an All-Way Stop Control at the intersection of Benshire Drive and Bellechasse Street. The report shows that this intersection failed to meet the required technical warrant for this type of traffic control.

Transportation Services staff also reviewed the installation of minor street stop signs at thirteen uncontrolled three-way intersections in the Woburn Neighbourhood, namely at: Benshire Drive and Brantwood Drive, Brantwood Drive and Bellechasse Street, Brantwood Drive and Jarwick Drive, Chatsmere Place and Deborah Drive, Woodwick Drive and Deborah Drive, Ben Nevis Drive and Benshire Drive, Benary Crescent and Benshire Drive, Benroyal Crescent and Benary Crescent, Benary Crescent and Benroyal Crescent, Ben Doran Boulevard and Benary Crescent, Ben Doran Boulevard and Benorama Crescent, Benhur Crescent and Benalder Drive, and Benfrisco Crescent and Ben Stanton Boulevard.

It is recommended that minor street stop signs be installed at these latter thirteen uncontrolled three-way intersections to clearly define the right-of-way and to regulate traffic flow.

## **RECOMMENDATIONS**

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

1. Not approve the installation of an All-Way Stop Control at Benshire Drive and Bellechasse Street,
2. Adopt the “Compulsory Stops” regulation, as identified in Appendix 1 of this report, and
3. Amend the appropriate by-law accordingly.

### **Financial Impact**

The financial cost of installing these thirteen recommended stop controls is approximately \$3,250.00. The funding for these stop controls is available in the Transportation Services 2008 Operating Budget, within Cost Centre TP0226.

### **ISSUE BACKGROUND**

Further to a request from the ward Councillor, Transportation Services staff reviewed the feasibility of installing an All-Way Stop Control at the intersection of Benshire Drive and Bellechasse Street.

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**

The following characteristics describe the intersection of Benshire Drive and Bellechasse Street:

- This three-way intersection is located in the community east of McCowan Road, north of Lawrence Avenue East, and is presently controlled by an eastbound stop sign on Bellechasse Street.
- Benshire Drive is a two-lane local roadway with a by-law speed limit of 40 kilometres per hour (not signed) and a daily traffic volume of approximately 650 vehicles per day.
- Bellechasse Street is also a two-lane local roadway with a speed limit of 50 kilometres per hour (not signed).
- Sidewalks are located on both sides of Benshire Drive and both sides of Bellechasse Street.

### All-Way Stop Control Warrant Study

A traffic study conducted at the intersection of Benshire Drive and Bellechasse Street during the morning and afternoon peak hours of a typical weekday (Tuesday, June 5, 2007) produced the following results:

| All-Way Stop Control Warrant                                  | A<br>Total Approach Vehicle Volume | B<br>Vehicle/Pedestrian Volume Crossing Major Road | C<br>Unit Volume Split* Major/Minor Roads |
|---|------------------------------------|--|---|
| Two-Hour Study Period Average                                 | 116                                | 64   | 52/48                                     |
| Warrant Requirements For Study Period Average For Local Roads | ≥ 250                              | ≥ 100  | ≥ 30/70 or ≤ 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 Categories A and C, or Categories B and C.

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.

A review of the collision records revealed that no collisions were reported at this intersection during the five-year period ending December 31, 2007.

Accordingly, based on the above-mentioned traffic study results, this intersection is operating in a safe and efficient manner with the existing eastbound stop sign on Bellechasse Street.

During this intersection’s review, staff identified thirteen three-way uncontrolled intersections in the immediate area. Accordingly, to provide stop sign uniformity and to encourage motorists to stop before the sidewalk to enhance pedestrian safety, minor street stop signs are recommended at the following thirteen locations:

1. Benshire Drive at Brantwood Drive
2. Brantwood Drive at Bellechasse Street
3. Brantwood Drive at Jarwick Drive
4. Chatsmere Place at Deborah Drive
5. Woodwick Drive at Deborah Drive
6. Ben Nevis Drive at Benshire Drive
7. Benary Crescent at Benshire Drive
8. Benroyal Crescent at Benary Crescent
9. Benary Crescent at Benroyal Crescent
10. Ben Doran Boulevard at Benary Crescent
11. Ben Doran Boulevard at Benorama Crescent
12. Benhur Crescent at Benalder Drive
13. Benfrisco Crescent at Ben Stanton Boulevard

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

## **CONTACT**

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## **SIGNATURE**

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## **ATTACHMENTS**

1. Appendix 1 – By-law Amendment (enact)
2. Location Plan (Proposed Stop Signs – Benshire Drive Area)

Appendix 1

“Compulsory Stops”  
Regulation to be Enacted

| <u>Column 1</u><br><u>Intersection</u>          | <u>Column 2</u><br><u>Stop Street</u> |
|---|---------------------------------------|
| Benshire Drive and<br>Brantwood Drive           | Benshire Drive                        |
| Brantwood Drive and<br>Bellechasse Street       | Brantwood Drive                       |
| Brantwood Drive and<br>Jarwick Drive            | Brantwood Drive                       |
| Chatsmere Place and<br>Deborah Drive            | Chatsmere Place                       |
| Woodwick Drive and<br>Deborah Drive             | Woodwick Drive                        |
| Ben Nevis Drive and<br>Benshire Drive           | Ben Nevis Drive                       |
| Benary Crescent and<br>Benshire Drive           | Benary Crescent                       |
| Benroyal Crescent and<br>Benary Crescent        | Benroyal Crescent                     |
| Benary Crescent and<br>Benroyal Crescent        | Benary Crescent                       |
| Ben Doran Boulevard and<br>Benary Crescent      | Ben Doran Boulevard                   |
| Ben Doran Boulevard and<br>Benorama Crescent    | Ben Doran Boulevard                   |
| Benhur Crescent and<br>Benalder Drive           | Benhur Crescent                       |
| Benfrisco Crescent and<br>Ben Stanton Boulevard | Benfrisco Crescent                    |