

## **All-Way Stop Control - Lockie Avenue and Donalda Crescent**

**Date:** February 2, 2021

**To:** Scarborough Community Council

**From:** Acting Director, Traffic Management, Transportation Services

**Wards:** Ward 22, Scarborough-Agincourt

### **SUMMARY**

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This staff report is about a matter that Scarborough Community Council has delegated authority from City Council to make a final decision.

Transportation Services is requesting approval to install all-way stop control at the intersection of Lockie Avenue and Donalda Crescent. Based on the assessment undertaken, the installation of all-way stop control is recommended. Installing an all-way stop control at this location will provide a safer environment for all road users at this intersection.

### **RECOMMENDATION**

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The Acting Director, Traffic Management, Transportation Services recommends that:

1. Scarborough Community Council authorize all-way stop control at the intersection of Lockie Avenue and Donalda Crescent.

### **FINANCIAL IMPACT**

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The estimated costs associated with the proposed amendment is approximately \$12,000. Funding is anticipated to be available within the Transportation Services 2021 Operating and Capital Budgets.

## **DECISION HISTORY**

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This report addresses a new initiative.

## **COMMENTS**

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At the request of former Councillor Jim Karygiannis office, on behalf of Agincourt Village Community Association, Transportation Services investigated the feasibility of installing all-way stop control at the intersection of Lockie Avenue and Donalda Crescent.

### **Existing Conditions**

Lockie Avenue is characterized by the following conditions:

- It is a two-lane, east-west, local road
- It operates two-way traffic on a pavement width of approximate variance between 9.5 metres and 7.5 metres
- The daily two-way traffic volume is approximately 700 vehicles
- The posted speed limit is 40 km/h
- Heavy trucks are prohibited at all times
- There are sidewalks located on the south side of the street with culvert boulevards and no curbs

Donalda Crescent is characterized by the following conditions:

- It is a two-lane, east-west, local road
- It operates two-way traffic on a pavement width of approximately 7.5 metres
- The unposted default speed limit is 50 km/h
- Heavy trucks are prohibited at all times
- There are no sidewalks located on Donalda Crescent

These two streets intersect to form a right-angled four-leg intersection, with right-of-way controlled by stop signs for northbound and southbound traffic on Donalda Crescent.

Lockie Avenue was recently designated as a School Safety Zone and Community Safety Zone. The School Safety Zones program involves the installation of various signs and pavement markings enhancements along frontages of schools within 150 metres of the school property, including new School Safety Zone signs with flashing beacons, radar speed display signs (also referred to as driver feedback signs), "SCHOOL" and speed limit stencils painted on the roadway and zebra crossings at all stop-controlled intersections.

With regards to Community Safety Zones, in 2018 City Council approved the designation of Community Safety Zones within approximately 150 metres of the school property in front of all elementary schools. The Community Safety Zones signs have also been recently installed on Lockie Avenue for both vehicular directions. Agincourt Junior Public School is located on Lockie Avenue east of this intersection at the southwest corner of the intersection of Lockie Avenue and Midland Avenue.

A map of the area is included in Attachment 1.

## Study Results

In order for all-way stop control to be warranted at an intersection established warrant criteria must be satisfied. The warrants consist of four components, including collision history, total vehicle volume, combined vehicle and pedestrian volumes crossing the major road and the percentage of traffic on the major road.

Collision history provided by the Toronto Police Service for the three-year period ending December 31, 2019, disclosed that one reported collision occurred at this intersection and none of these collisions involved pedestrians. None of these collisions were considered potentially preventable by the installation of all-way stop control.

Transportation Services conducted an all-way stop control study on Wednesday, May 22, 2019 at the subject intersection. The results of the study were evaluated against the warrant criteria for all-way stop control as adopted by City Council. The evaluation is summarized in Table 1.

Table 1: All-Way Stop Control Study at Lockie Avenue and Donalda Crescent

| No. | Warrant Type                                                                        | Actual   | Required | Satisfied (Yes/No) |
|-----|-------------------------------------------------------------------------------------|----------|----------|--------------------|
| A   | Number of Potentially Preventable Collisions (January 1, 2017 to December 31, 2019) | 0        | 6        | No                 |
| B1  | Average Vehicle Volumes                                                             | 183/hour | 250/hour | No                 |

| No. | Warrant Type                                                         | Actual   | Required | Satisfied (Yes/No) |
|-----|----------------------------------------------------------------------|----------|----------|--------------------|
| B2  | Combined Vehicle & Pedestrian Volumes Crossing Major Road (Average)* | 115/hour | 100/hour | Yes                |
| B3  | Percentage of Traffic on Major Street*                               | 56%      | ≤70%     | Yes                |

\*New pedestrian warrants applied as adopted by City Council on July 16, 2019 in the Vision Zero 2.0 report.

In order for the all-way stop control to be technically warranted, either Warrant A must be met or Warrant B1 or B2 combined with Warrant B3 must be achieved. Based on the study results, the technical warrants for the installation of all-way stop control are satisfied. Therefore, it is recommended that all-way stop control be installed at the intersection of Lockie Avenue and Donalda Crescent to appropriately assign the right of way.

The Ward Councillor has been advised of the recommendation of this staff report.

## CONTACT

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## SIGNATURE

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Roger Browne, M.A.Sc., P. Eng.  
Acting Director, Traffic Management, Transportation Services

## ATTACHMENTS

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Attachment 1: Map - All-Way Stop Control - Lockie Avenue and Donalda Crescent

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