

## **All-Way Stop Control - Armour Boulevard and Lyonsgate Drive**

**Date:** June 28, 2017

**To:** North York Community Council

**From:** Acting Director, Transportation Services, North York District

**Wards:** Ward 10 - York Centre

### **SUMMARY**

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This staff report is about a matter for which Community Council has delegated authority to make a final decision, provided that it is not amended so that it varies with City policy or by-laws.

Transportation Services was requested to review the need for all-way stop control at the intersection of Armour Boulevard and Lyonsgate Drive.

The installation of an all-way stop control at this intersection is not warranted as the combined vehicle and pedestrian volumes crossing the major street and percentage of traffic on major road are insufficient to warrant the installation of an all-way stop control. Additionally, there are all-way stop controlled intersections located on Armour Boulevard in close proximity to this intersection in both directions.

### **RECOMMENDATIONS**

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The Acting Director, Transportation Services, North York District recommends that North York Community Council:

1. Deny the installation of an all-way stop control at the intersection of Armour Boulevard and Lyonsgate Drive.

### **FINANCIAL IMPACT**

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There are no financial implications to this report. However, should North York Community Council overturn staff's recommendation, the installation of the all-way stop control at Armour Boulevard and Lyonsgate Drive, including required pedestrian ramps,

are estimated at \$4,000.00 and will be included within the Transportation Services 2017 Operating Budget.

## DECISION HISTORY

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This report addresses a new initiative.

## COMMENTS

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Armour Boulevard is a north/south local road with a regulatory speed limit of 40 km/h with municipal sidewalks on the east side of the road. Lyonsgate Drive is an east/west local road with a posted speed limit of 40 km/h. Armour Boulevard and Lyonsgate Drive form a "T" type intersection. At this intersection, Armour Boulevard is free flow and Lyonsgate Drive is stop controlled.

On Armour Boulevard, there are all-way stop controlled intersections located about 90 metres to the north, at Sandringham Drive and about 55 metres to the south, at Westgate Boulevard.

A review of Toronto Police Service collision records for the three-year period ending December 31, 2016, revealed that one collision has been reported at the intersection of Armour Boulevard and Lyonsgate Drive of a type susceptible to correction by the installation of an all-way stop control.

In order to assess the feasibility of installing an all-way stop control, we reviewed existing traffic conditions at the intersection of Armour Boulevard and Lyonsgate Drive.

The warrants for the installation of an all-way stop control consist of four components; collision hazard, total vehicular volume, combined vehicular and pedestrian volumes crossing the major roadway and vehicle volume split. In order for all-way stop control to be justified the warrant criteria adopted by City Council must be satisfied. The results of the most recent study conducted are as follows:

Table 1: Warrant Analysis for All Way Stop for Armour Boulevard and Lyonsgate Drive (May 3, 2017)

Armour Boulevard and Lyonsgate Drive		Actual	Required	Satisfied (Yes/No)
A	Collision History	1/3 yrs	9/3 yrs	No
B1	Total Vehicle Volumes	396	375/avg hr	Yes
B2	Combined Vehicle and Pedestrian Volumes Crossing Major Road	40	150/avg hr	No
B3	Percentage of Traffic on Major Road	90	≤70	No
	Overall Warrant			No

In order for all-way stop control to be justified either Warrant A must be met or Warrants B1 or B2 combined with Warrant B3 must be met. Our study results indicate an all-way stop control is not justified. The data illustrates that 90 percent of the traffic at this intersection was recorded on Armour Boulevard, the local roadway serving this area.

Motorists and pedestrians sightlines were found to be clear and unobstructed for all approaches.

The Ward Councillor is aware of the recommendations in this staff report.

## **CONTACT**

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## **SIGNATURE**

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Peter K. Hillier  
Acting Director

## **ATTACHMENTS**

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Attachment 1: Map - All-Way Stop Control: Armour Boulevard and Lyonsgate Drive