

**Turn Restrictions: Avenue Road at Glencairn Avenue**

<b>Date:</b>	September 18, 2009
<b>To:</b>	North York Community Council
<b>From:</b>	Director, Transportation Services Division, North York District
<b>Wards:</b>	<b>Ward 16 – Eglinton Lawrence</b>
<b>Reference Number:</b>	<i>ny09063</i>

**SUMMARY**

---

To obtain approval to implement turn restrictions at the intersection of Avenue Road and Glencairn Avenue.

The proposed turn restrictions will address the safety concerns regarding left turning and through movements at the intersection of Avenue Road and Glencairn Avenue.

Since the Toronto Transit Commission (TTC) operates a transit service on Avenue Road, City Council approval of this report is required. TTC staff has been consulted on the proposed turn prohibition removal and have not objected to the proposal.

**RECOMMENDATIONS**

---

Transportation Services Division recommends that City Council:

1. Prohibit eastbound left turns from 6:00 a.m. to 10:00 a.m. and. 3:00 p.m. to 6:00 p.m., Monday to Friday, except public holidays, on Glencairn Avenue at Avenue Road;
2. Prohibit westbound left turns from 6:00 a.m. to 10:00 a.m. and. 3:00 p.m. to 6:00 p.m., Monday to Friday, except public holidays, on Glencairn Avenue at Avenue Road;
3. Prohibit eastbound through traffic movements from 6:00 a.m. to 10:00 a.m. and. 3:00 p.m. to 6:00 p.m., Monday to Friday, except public holidays on Glencairn Avenue and Avenue Road; and

4. Prohibit westbound through traffic movements from 6:00 a.m. to 10:00 a.m. and 3:00 p.m. to 6:00 p.m., Monday to Friday, except public holidays on Glencairn Avenue at Avenue Road.

## **FINANCIAL IMPACT**

All costs associated with the installation of the turn restrictions are included within the Transportation Services Division's 2009 Operating Budget.

## **ISSUE BACKGROUND**

Transportation Services Division, North York District, was requested by Councillor Karen Stintz on behalf of area residents, to review intersection operations and the feasibility of installing traffic control signals at the intersection of Avenue Road and Glencairn Avenue. The review at the Avenue Road/Glencairn Avenue intersection was in response to a continued collision hazard pattern involving east-west through and left turning vehicles attempting to cross Avenue Road during the morning and afternoon peak periods.

## **COMMENTS**

Avenue Road is a four-lane arterial road with a daily two-way traffic volume of approximately 42,000 vehicles and a regulatory speed limit of 50 km/h. Glencairn Avenue is a two-lane local roadway with a posted speed limit of 40 km/h. The right-of-way for traffic on Glencairn Avenue at Avenue Road is controlled by stop signs. Traffic control signals are located on Avenue Road 125 metres to the north at Glengrove Avenue and 215 metres to the south at Lytton Boulevard.

The visibility at the Avenue Road/Glencairn Avenue intersection is restricted for the eastbound, northbound and southbound approaches due to the horizontal alignment of Avenue Road. As such, a four-way overhead flashing beacon is in operation to reinforce the existing traffic controls on Glencairn Avenue and to caution motorists on Avenue Road of existing geometric conditions.

A traffic study conducted at this intersection on June 17, 2009 indicated that the technical warrants for the installation of traffic control signals were met to the following extent:

Warrant 1:	Minimum Vehicular Volume	77 %
Warrant 2:	Delay to Cross Traffic	43 %
Warrant 3:	Collision Hazard	100 %

To satisfy the installation of traffic control signals, one of either the Minimum Vehicular Volume or Delay to Cross Traffic warrants must be 100 percent satisfied, or both must be satisfied to the extent of 80 percent. The Collision Hazard warrant is based on the number of collisions susceptible to correction by the installation of traffic control signals, and must be 100 percent satisfied.

A review of the Toronto Police Service collision records revealed that over a three-year period ending December 31, 2008, there were a total of 21 collisions involving eastbound and westbound motorists of a type susceptible to correction by the installation of traffic control signals. Of the 21 collisions, 12 collisions occurred during the am peak (6:00 am to 10:00am) and pm peak (3:00 pm to 6:00 pm). As such, the Collision Hazard warrant is 100 percent satisfied.

It should be noted that when the installation of a traffic control signal is warranted only on the basis of the Collision Hazard, staff of the City of Toronto reviews alternative solutions which are considered prior to recommending the installation of traffic control signals.

As such, this Division recommends the installation of eastbound and westbound left turn and through prohibitions during the am and pm peak traffic periods at this location. This will reduce vehicle conflicts thus reducing the collision hazard by approximately 60%. The restrictions will result in the existing traffic being displaced to other adjacent intersections such as Glengrove Avenue at Avenue Road, which is currently controlled by traffic control signals.

The prohibition of the eastbound and westbound left turn and through movements at Glencairn Avenue is the preferred action since the installation of a traffic control signal is not appropriate at this location due to the substandard spacing to the adjacent traffic control signals at Glengrove Avenue and restricted sightlines for southbound and northbound motorists.

Councillor Karen Stintz has been advised of the recommendations in this report.

## **CONTACT**

Robert Declair  
Acting Manager, Traffic Operations  
Transportation Services Division, North York District  
Tel: 416-395-7463  
Fax: 416-395-7544  
Email: [rdeclair@toronto.ca](mailto:rdeclair@toronto.ca)

## **SIGNATURE**

---

Myles Currie, B.A.  
Director

## **ATTACHMENTS:**

Map 1 – Avenue Road at Glencairn Avenue, Left and Through Prohibitions (*ny09063\_map*)