

Lane Designation – Warden Avenue and St. Clair Avenue East

Date: June 7, 2018
To: Scarborough Community Council
From: Director, Transportation Services, Scarborough District
Wards: Ward 35 – Scarborough Southwest

SUMMARY

This report recommends the adoption of a by-law to designate the northbound right-turn lane on Warden Avenue at St. Clair Avenue East for right turns only, buses excepted. Currently, there is an undesignated northbound bus bay at this intersection.

RECOMMENDATIONS

The Director, Transportation Services recommends that:

1. City Council designate the easterly northbound lane on Warden Avenue, between St. Clair Avenue East and a point 114 metres south, for northbound right turns only, buses excepted.

FINANCIAL IMPACT

The financial cost of installing the northbound right-turn only signs and markings is approximately \$1,800.00. The funding for these signs and markings is available in the Transportation Services Division's 2018 Operating Budget, within Cost Centre TP0397 and TP0398.

DECISION HISTORY

This report addresses a new initiative.

COMMENTS

Further to a request from the Toronto Transit Commission, Transportation Services staff studied the need to provide the appropriate lane designation signage controls for the existing northbound right turn lane/bus bay on Warden Avenue approaching St. Clair Avenue East.

Existing Conditions

Warden Avenue and St. Clair Avenue East is a four-legged signalized intersection.

Warden Avenue is classified as major arterial road (north of St. Clair Avenue East) and a minor arterial road (south of St. Clair Avenue East) with a posted speed limit 60 km/h.

- The land uses on Warden Avenue are composed of residential both sides, parkland on the west side and industrial and a subway/bus station on the east side.
- The lane configuration for northbound motorists on Warden Avenue at St. Clair Avenue East consists of an exclusive left turn lane, two dedicated through lanes and one undesignated right-turn lane/bus bay.
- The right-turn lane forms a 3.3 metre wide lane plus taper for approximately 114 metres on the northbound approach.
- For the northbound approach, there were approximately 28 right-turning and 5 through buses for the peak hour, being 4:00 p.m. to 5:00 p.m. on a weekend (Saturday, April 22, 2017).
- The average recorded daily traffic volume on Warden Avenue is approximately 21,600 vehicles per day.

Analysis

A recent traffic study revealed a total of 4,137 vehicles travelling in the northbound direction during an eight-hour period on Warden Avenue and St. Clair Avenue East, of these, 24% (1,006 vehicles) made a right turn maneuver to proceed in the easterly direction on St. Clair Avenue East.

The existing pavement markings and lack of signs could result in northbound motorists proceeding potentially side-by-side through the intersection and merging into one lane on the far side of the intersection.

The adoption of the designation identified in this report will provide positive guidance to northbound motorists by clearly identifying lane direction and mitigate potential vehicular conflicts for northbound motorists. This will also provide a queue jump lane for northbound through TTC buses. Furthermore, the northbound right turn only lane designation at this intersection will allow for proper enforcement of the lane designation under the Highway Traffic Act.

CONTACT

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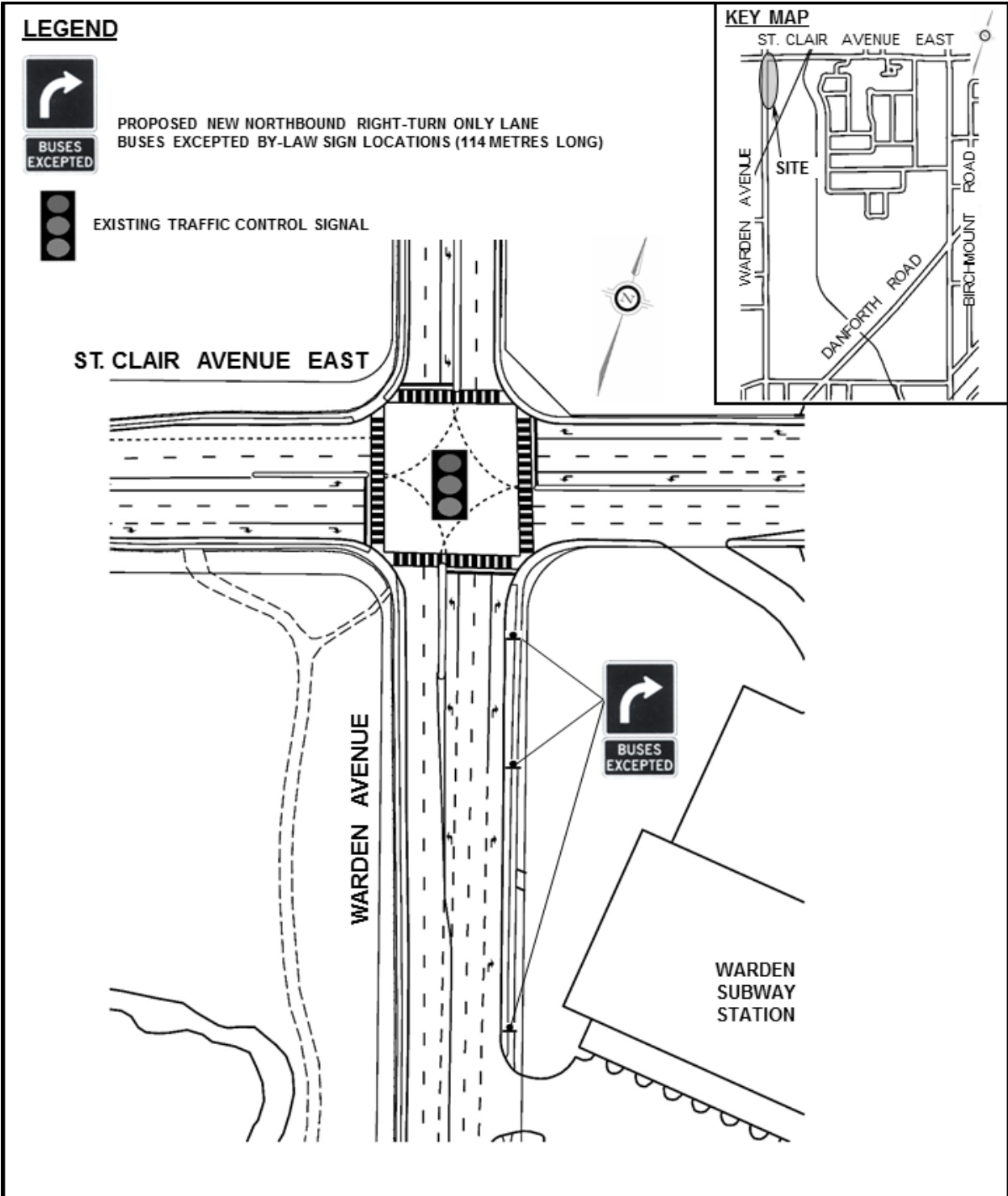
Myles Currie, B.A.
Director, Transportation Services, Scarborough District

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ATTACHMENTS

1. Location Plan (Lane Designation - Warden Avenue and St. Clair Avenue East)



LEGEND

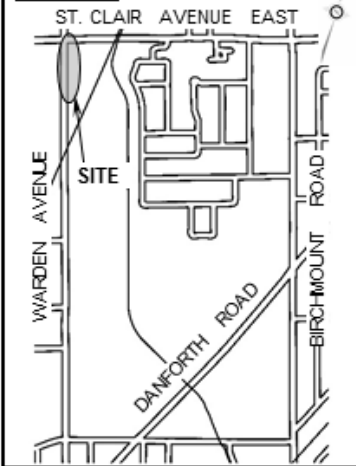


PROPOSED NEW NORTHBOUND RIGHT-TURN ONLY LANE
BUSES EXCEPTED BY-LAW SIGN LOCATIONS (114 METRES LONG)



EXISTING TRAFFIC CONTROL SIGNAL

KEY MAP



Toronto TRANSPORTATION SERVICES

TRAFFIC OPERATIONS
Scarborough District

SCALE:	Not to scale
DATE:	June 2018
DRAFTING:	OK/FL

**LANE DESIGNATION
WARDEN AVENUE AND ST. CLAIR AVENUE EAST**

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ATTACHMENT 1	WARD 35