

# RENNIE'S RIVER EAST TRAFFIC PATTERN REVIEW

## Introduction

Resident feedback regarding the traffic calming no-entry restriction on Winter Avenue at King's Bridge Road has identified larger scale frustration with restricted turning movements in the area of Rennie's River between Portugal Cove Road and King's Bridge Road. Council has expressed an interest in completing a review of the existing traffic operations, circulation, and restrictions in the area to determine if changes can be made to improve network connectivity.

## Study Area

The general focus of the review would be the primary roadway network within the area surrounding the east portion of Rennie's River. **Figure 1** illustrates the study area intersections listed below. Traffic circulation at these intersections will be included in the scope of the review:

1. King's Bridge Road/Empire Avenue (Circular Road);
2. King's Bridge Road/Lake Avenue;
3. King's Bridge Road/Memorial Stadium Dominion Access;
4. King's Bridge Road/Winter Avenue;
5. Rennie's Mill Road/Empire Avenue;
6. Rennie's Mill Road/Circular Road; and
7. Carpasian Road/Empire Avenue.

In addition to existing turning movement restrictions in place at the study intersections identified, one-way eastbound traffic circulation along Circular Road between Carpasian Road and Rennie's Mill Road will be reviewed.

Traffic count data (including pedestrians) will be collected at the study intersections above and at the following additional area intersections.

- A. King's Bridge Road (Kenna's Hill)/The Boulevard (New Cove Road);
- B. Portugal Cove Road/Winter Avenue;
- C. Memorial Stadium Access/Lake Avenue;
- D. Carnell Drive/Lake Avenue (Clancey Drive);
- E. Carnell Drive/The Boulevard;
- F. Portugal Cove Road/Rennie's Mill Road; and
- G. Bannerman Road/Circular Road
- H. Lake View Avenue / Forest Road
- I. Forest Road / Empire Avenue

FIGURE 1: STUDY AREA INTERSECTIONS



### Scope of the Traffic Pattern Review

Traffic movement through the study area relates to wider network consideration of travel between neighbourhoods and key destinations in this area of the City and beyond. This includes vehicle traffic as well as public transit and active transportation traffic.

The purpose of this review is to target measures within the study area that can be completed in the short-term such as roadway paint markings, adjustments to existing intersection signal timings, and/or modifications to existing turning movement restrictions or roadway circulation. The review will also identify medium-term or pilot recommendations that include curb removal/reconstruction and large scale long-term improvement projects such as intersection reconstruction. In forming recommendations, this review will give preference to lower-cost opportunities first.

The technical scope of the traffic pattern review includes the following five project components:

#### 1. Existing Restrictions

Existing area traffic restrictions such as no-entry regulations, turning movement restrictions, and one-way circulation will be identified and mapped at study intersections and along study roadways.

#### 2. Existing and Desired Circulation

Traffic counts will be completed at the study intersections identified to determine existing study area traffic patterns given current restrictions. Available routes through or around the area between key origins and destinations will be identified. Specific consideration will be given to

access of area development and amenities including Memorial Stadium. Desirable routes that would provide more direct connections through the area will then be developed and the corresponding traffic restrictions preventing this circulation will be identified as circulation barriers.

### ***3. Circulation Barriers***

The identified circulation barriers prevent more desired traffic routes will be explored. The original justification for implementing these restrictions will be evaluated and a review of relevant safety concerns and related constraints such as roadway grades, intersections angles and sightlines, road right-of-way, and traffic volumes will be completed.

### ***4. Improvement Options***

Opportunities to remove or modify restrictions creating circulation barriers will be explored giving consideration to relevant constraints. Implementation of alternative solutions will be considered where possible. Viable improvement options and the corresponding impacts on area traffic patterns will be identified.

### ***5. King's Bridge Road/Empire Avenue Intersection Configuration***

Prior studies completed for the King's Bridge Road/Empire Avenue intersection will be reviewed and updated peak hour capacity assessments will be completed. The existing configuration of the King's Bridge Road/Empire Avenue intersection will be reviewed to determine if alternative configurations may provide improved traffic operations and network connectivity.

## **Public Consultation**

City staff will develop a communications and engagement strategy to share preliminary study findings with study area stakeholders. This consultation will also solicit feedback from stakeholders to highlight concerns and identify potential solutions regarding the four project components identified in the scope of the traffic pattern review above.

## **Deliverables**

Study findings, rationale, and stakeholder feedback will be documented and recommendations regarding potential changes to traffic circulation will be presented to Council for consideration.

This review will not complete design and/or cost estimation for identified changes to the study area. Based on the options that are developed through this review, additional effort may be required to complete a comprehensive comparison of alternatives.