



# City of Richmond

## Report to Committee

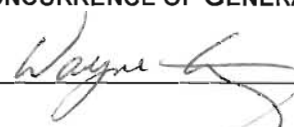


**To:** Public Works and Transportation Committee      **Date:** February 17, 2015  
**From:** Victor Wei, P. Eng.  
 Director, Transportation      **File:** 01-0150-20-THIG1/2015-Vol 01  
**Re:** **Installation of Dynamic Message Sign on Northbound Knight Street**

### Staff Recommendation

That the staff report regarding the installation of a dynamic message sign on northbound Knight Street to support regional transportation management in the Metro Vancouver area, dated February 17, 2015, from the Director, Transportation, be received for information.



Victor Wei, P. Eng.  
 Director, Transportation  
 (604-276-4131)

REPORT CONCURRENCE		
<b>ROUTED TO:</b>	<b>CONCURRENCE</b>	<b>CONCURRENCE OF GENERAL MANAGER</b>
Engineering Real Estate Services	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
<b>REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE</b>	<b>INITIALS:</b> 	<b>APPROVED BY SAO</b> 

## Staff Report

### Origin

At the February 2015 meeting of the Public Works & Transportation Committee, members received a staff report for information regarding the sharing of traffic data between the City's traffic management system and the Ministry of Transportation & Infrastructure (MoTI)'s Regional Transportation Management Centre (RTMC). The integration of the two traffic management centres will benefit Richmond's road users by allowing for more effective monitoring and management of traffic incidents as well as the provision of real-time information to the public.

As part of this expanded use of Intelligent Transportation Systems (ITS), this report describes the forthcoming installation of a dynamic message sign by MoTI to provide northbound road users on Knight Street with up-to-date travel information.

### Analysis

#### Dynamic Message Signs

MoTI has installed a number of dynamic message signs (DMS) along provincial highways in Metro Vancouver that provide travellers with real-time information on road conditions such as travel times and wait times at Canada-US border crossings. Figure 1 is an example of a DMS sign on southbound Highway 99 mounted north of the Cambie Road overpass.



Figure 1: DMS on Southbound Highway 99

As part of the RTMC's role as the region's central hub for the coordination of traffic operations, incident management, special events, and post disaster response/recovery in Metro Vancouver, MoTI is planning to expand the network of DMS beyond the provincial highway system. MoTI has identified the Knight Street corridor as a priority location given it is a critical link for regional goods movement between Port Metro Vancouver facilities.

#### Proposed DMS on Northbound Knight Street

The proposed location of the sign is within the City right-of-way of northbound Knight Street approximately 200 m south of the Cambie Road overpass (see Figures 2 and 3). Messages appearing on the DMS would include information regarding Port Metro Vancouver terminals (e.g., alert commercial vehicles when specific entrances to the Port are closed or there is an emergency Port closure) and public service information as directed by MoTI and the City.



Figure 2: Location of Proposed DMS on Northbound Knight Street 200 m south of Cambie Road

The new sign will expand the breadth of information on current travel conditions available to residents, employees and visitors of Richmond. The DMS will display weather, congestion, safety, and road condition messages for the general public, as well as Amber Alerts when required. Staff would also have the opportunity to input information such as unscheduled traffic incidents. The shared information will help both the City and MoTI to better manage any traffic impacts that may impact roadways under the jurisdiction of both agencies.



Figure 3: Rendering of Proposed DMS with Sample Message

**Financial Impact**

None. MoTI is funding the installation and maintenance costs associated with the dynamic message sign. Staff time to facilitate its installation is expected to be absorbed within regular resources.

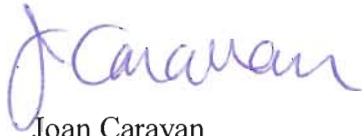
**Conclusion**

Following the integration of the City’s Traffic Management Centre with MoTI’s Regional Transportation Management Centre, the installation of a dynamic message sign on northbound Knight Street will further enhance the ability of both agencies to more effectively manage traffic

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operations and improve the safety and reliability of transportation routes that, in turn, will enhance the flow of people, goods and services within and beyond Richmond.



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