



# City of Richmond

## Report to Committee

**To:** Public Works and Transportation Committee

**Date:** February 25, 2016

**From:** Victor Wei, P. Eng.  
Director, Transportation

**File:** 01-0150-20-  
PSAF1/2016-Vol 01

**Re:** **ICBC-City of Richmond Road Improvement Program – Proposed Projects for 2016**

### Staff Recommendation

1. That the list of proposed road safety improvement projects, as described in Attachment 2 of the staff report titled "ICBC-City of Richmond Road Improvement Program – Proposed Projects for 2016," dated February 25, 2016 from the Director, Transportation be endorsed for submission to the ICBC 2016 Road Improvement Program for consideration of cost sharing funding; and
2. That should the above applications be successful, the Chief Administrative Officer and General Manager, Planning and Development be authorized to negotiate and execute the cost-share agreements, and that the 5-Year Financial Plan (2016-2020) be amended accordingly.

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

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Finance	<input checked="" type="checkbox"/>	 FOR JOE ERCEG
Engineering	<input checked="" type="checkbox"/>	
Law	<input checked="" type="checkbox"/>	
RCMP	<input checked="" type="checkbox"/>	
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS: DW	APPROVED BY CAO 

## Staff Report

### Origin

At the February 23, 2015 Council meeting, Council endorsed a number of proposed joint ICBC-City of Richmond road safety improvement projects for 2015. This report summarizes the projects implemented in 2015 with funding from ICBC and presents a list of projects proposed to be implemented with funding contributions from ICBC as part of the 2016 ICBC-City of Richmond *Road Improvement Program* partnership.

### Analysis

The City has been in partnership with ICBC in the *Road Improvement Program* since 1994. This partnership is a vital component of the City's traffic safety program as it enables the City not only to undertake more traffic safety enhancements than it could alone, but also to expedite some of these road safety improvement projects. Each year, a list of potential eligible capital projects is developed for inclusion in the *Road Improvement Program* based on community requests and input from the Traffic Safety Advisory Committee and other stakeholders.

#### 2015 ICBC/City of Richmond Road Improvement Projects

As shown in Attachment 1, a number of City projects substantially completed in 2015 will receive a total of \$162,500 in funding from ICBC's 2015 *Road Improvement Program*.

#### Proposed 2016 ICBC-City of Richmond Road Improvement Projects

Attachment 2 identifies a range of projects proposed for submission to the 2016 *Road Improvement Program* for funding contribution from ICBC that would provide benefits for all road users (i.e., motorists, cyclists, pedestrians, transit users). In continued support of one of Richmond RCMP's key community objectives to increase pedestrian safety and reduce fatalities and injuries, a majority of the proposed projects focus on pedestrian-related improvements, particularly at intersections. These projects include eight special crosswalks, five pedestrian signals on high volume arterial roadways, and several pedestrian walkways. The total estimated cost of these pedestrian-related projects is \$1.5 million.

ICBC's potential funding contribution to these projects will be determined by historical traffic crash rates at these locations and the estimated reduction in ICBC claim costs resulting from the proposed traffic safety improvements as well as eligibility of the project vis-à-vis the funding guidelines. The outcome of ICBC's review of the projects will be reported back as part of the 2017 ICBC *Road Improvement Program*.

Upon approval of a project by ICBC, the City would be required to enter into a funding agreement with ICBC. The agreement is provided by ICBC and generally includes an indemnity in favour of ICBC. Staff recommend that the Chief Administrative Officer and General Manager, Planning and Development be authorized to execute the funding agreements for the approved projects and that the 2016 Capital Plan and 5-Year Financial Plan (2016-2020) be amended accordingly to reflect the receipt of external grants.

**Financial Impact**

The total estimated cost of all the projects identified in Attachment 2 is \$5,876,500.

As indicated in Attachment 2, the City's portion of the costs of the projects are fully funded with the funding sources having been either previously approved by Council or approved as part of the 2016 Capital Budget. Several of the identified projects have additional external grants either approved or pending approval from other agencies such as TransLink. Should any submitted projects receive funding from ICBC, the City's portion of the total capital cost would be reduced accordingly.

**Conclusion**

ICBC is a significant long-time partner working with the City to promote traffic safety in Richmond. The traffic safety initiatives jointly implemented by ICBC and the City, including various road and traffic management enhancements, educational efforts and enforcement measures, have resulted in safer streets for all road users in Richmond. Therefore, staff recommend that Council endorse the various local road safety improvement projects for submission to the 2016 joint ICBC-City of Richmond *Road Improvement Program*.



Joan Caravan  
Transportation Planner  
(604-276-4035)

Att. 1: 2015 Road Improvement Projects receiving ICBC Funding  
Att. 2: Proposed 2016 City-ICBC Road Improvement Projects

## 2015 Road Improvement Projects receiving ICBC Funding

Location	Project Description	ICBC Contribution
Cook Road- No. 3 Road	WB Left Turn Traffic Signal Arrow	\$13,000
Garden City Road-Cook Road	NB Left Turn Traffic Signal Arrow	\$8,000
No. 3 Road-Park Road	SB Left Turn Traffic Signal Arrow	\$1,500
Shell Road-Alderbridge Way	WB Left Turn Traffic Signal Arrow	\$31,000
<ul style="list-style-type: none"> <li>• Shell Rd / Alderbridge Way</li> <li>• Bridgeport Road-Great Canadian Way</li> <li>• Sea Island Way-Garden City Road</li> <li>• Russ Baker Way-Cessna Drive</li> </ul>	Installation of UPS (Uninterrupted Power Supply) for traffic signals	\$2,500 \$2,500 \$2,500 \$2,500
Burkeville Area	Installation of 4 Speed Humps	\$4,000
Alberta Road at Henry Anderson Elementary School	Installation of 1 Pedestrian Zone Marker	\$500
Ferndale Road-Katsura Street	Installation of Stop Control Signage & Pavement Markings	\$1,500
<ul style="list-style-type: none"> <li>• Chatham Street-1<sup>st</sup> Avenue</li> <li>• Railway Avenue-Hollymount Gate</li> <li>• Elmbridge Way-WorkSafeBC Entrance</li> </ul>	Installation of Special Crosswalk	\$3,000 \$4,000 \$5,000
<ul style="list-style-type: none"> <li>• Francis Road-St Albans Road</li> <li>• Kwantlen Street-Kwantlen Polytechnic University Entrance</li> </ul>	Upgrade of Marked Crosswalk to Pedestrian Signal	\$8,000 \$5,000
Great Canadian Way-Van Horne Way	Upgrade of Pedestrian Signal to Full Traffic Signal	\$8,000
Steveston Hwy Corridor & Shell Road-Alderbridge Way	CCTV Camera Installations - Advanced Traffic Signal Management System	\$55,000
Minoru Blvd (Elmbridge Way-Alderbridge Way)	Construction of pedestrian pathway on east side	\$5,000
<b>Total</b>		<b>\$162,500</b>

## Proposed 2016 City-ICBC Road Improvement Projects

Proposed 2016 ICBC-City of Richmond Road Improvement Program Projects	Estimated Total Cost	Source & Amount of City Funds <sup>(1)</sup>		External Agency Funding <sup>(2)</sup>
Traffic calming measures in various locations pending results of traffic studies <sup>(3)</sup>	\$95,000	2016 Traffic Calming Program	\$95,000	-
Installation of pedestrian zone markers pending results of traffic studies <sup>(3)</sup> : <ul style="list-style-type: none"> <li>Azure Blvd school zone fronting Brighthouse Elementary School</li> <li>Cook Road school zone fronting Cook Elementary School</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$5,000	2016 Traffic Calming Program	\$5,000	-
Installation of special crosswalks: <ul style="list-style-type: none"> <li>St Albans Road-Jones Road</li> <li>Garden City Road-Jones Road</li> <li>Shell Road-Bird Road</li> <li>No. 4 Road-Dayton Avenue</li> <li>Westminster Highway-Tiffany Blvd</li> <li>Williams Road-Deagle Road</li> <li>Williams Road-Lassam Road</li> <li>Granville Avenue-Bridge Street</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$70,000 \$70,000 \$45,000 \$70,000 \$70,000 \$70,000 \$70,000 \$45,000 \$510,000	2015 Special Crosswalk Program 2016 Special Crosswalk Program	\$510,000	-
Installation of pedestrian signals: <ul style="list-style-type: none"> <li>Westminster Hwy-McCallan Road</li> <li>Blundell Road-Ash Street</li> <li>No. 2 Road-Colville Road</li> <li>No. 1 Road-Regent Street</li> <li>Gilbert Road-Lucas Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$120,000 \$120,000 \$120,000 \$120,000 \$120,000 \$600,000	2016 Traffic Signal Program 2014 Active Transportation Program	\$120,000 \$240,000	\$240,000 TransLink (confirmed)
Installation of full traffic signal: <ul style="list-style-type: none"> <li>No. 2 Road-Blundell Centre Entrance</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$80,000	2015 Traffic Signal Program	\$40,000	\$40,000 Developer Contribution (confirmed)
Video detection cameras & controllers: <ul style="list-style-type: none"> <li>Locations to be determined</li> </ul>	\$125,000	2015 Traffic Signal Program	\$125,000	-
Installation of UPS (Uninterrupted Power Supply) at traffic signals: Locations to be determined	\$30,000	2016 Traffic Signal Program	\$30,000	-
Installation of advance left-turn arrows at traffic signals: Locations to be determined	\$50,000	2016 Public Works Minor Capital - Traffic	\$50,000	-
Gilbert Road Widening (River Road-Lansdowne Road)	\$2,103,000	Roads DCC Credits	\$1,178,250	\$924,750 TransLink (confirmed)
Great Canadian Way (Bridgeport Road-Van Horne Way): multi-use pathway on west side	\$300,000	2016 Active Transportation Program	\$300,000	-
Westminster Highway (No. 8 Road-Nelson Road): multi-use pathway on south side	\$225,000	2015 Active Transportation Program	\$225,000	-
Dyke Road-Fraserwood Road: road widening and trail connection	\$1,000,000	2016 Roads DCC 2016 Parks DCC	\$500,000 \$500,000	-
Garden City Road-Odlin Road: southbound to eastbound left-turn lane	\$200,000	2016 Arterial Roadway Improvement Program	\$200,000	-
Construction of pedestrian path/sidewalk: <ul style="list-style-type: none"> <li>7<sup>th</sup> Avenue: Pleasant Street-Regent Street</li> <li>Seacote Road: Williams Road-150 m north</li> <li>River Road: Cambie Road-250 m west</li> <li>Bridgeport Road: Viking Way-No. 6 Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$80,000 \$150,000 \$85,000 \$80,000 \$395,000	2015 Neighbourhood Walkway Program 2016 Neighbourhood Walkway Program 2016 Neighbourhood Walkway Program 2015 Arterial Roadway Improvement Program	\$80,000 \$150,000 \$85,000 \$80,000	-
Bus stop upgrade and/or construction of connecting sidewalk/pathway: <ul style="list-style-type: none"> <li>Multiple locations city-wide</li> </ul>	\$158,500	2016 Transit-Related Road Improvement Program	\$79,250	\$79,250 TransLink (pending)

(1) Should the submitted project receive funding from ICBC, the City's portion of the total cost would be reduced accordingly.

(2) The amount shown represents the maximum funding contribution to be received from the external agency based on the City's cost estimate for the project. The actual approved amount may be lower than requested. The actual invoiced amount follows project completion and is based on incurred costs. Should the project receive funding from an external agency, the City's portion of the total cost would be reduced accordingly.

(3) Implementation is subject to consultation with and support from affected residents.

(4) Additional locations may be identified for submission to ICBC prior to its annual program deadline.