



**To:** Public Works and Transportation Committee

**Date:** March 27, 2019

**From:** Lloyd Bie, P. Eng.  
Director, Transportation

**File:** 01-0150-20-ICBC1-  
01/2019-Vol 01

**Re:** ICBC-City of Richmond *Road Improvement Program – 2019 Update*

**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 – 2019 Update*,” dated March 27, 2019 from the Director, Transportation be endorsed for submission to the ICBC 2019 *Road Improvement Program* for consideration of cost-share 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 consolidated 5 Year Financial Plan (2019-2023) be amended accordingly.

Lloyd Bie, P. Eng.  
Director, Transportation  
(604-276-4131)

Att. 2

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

### Staff Report

#### Origin

At the May 28, 2018 Council meeting, Council endorsed a number of proposed joint ICBC-City of Richmond road safety improvement projects for 2018. This report summarizes the projects implemented in 2018 with funding from ICBC and presents a list of projects proposed to be implemented with funding contributions from ICBC as part of the 2019 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 an important 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.

#### Completed 2018 ICBC-City of Richmond Road Improvement Projects

A total of 11 City projects fully or substantially completed in 2018 (Attachment 1) will receive a total of \$264,000 from ICBC’s 2018 *Road Improvement Program*. Over the past five years, ICBC has contributed a total of \$951,390 towards the City’s transportation projects (Figure 1).

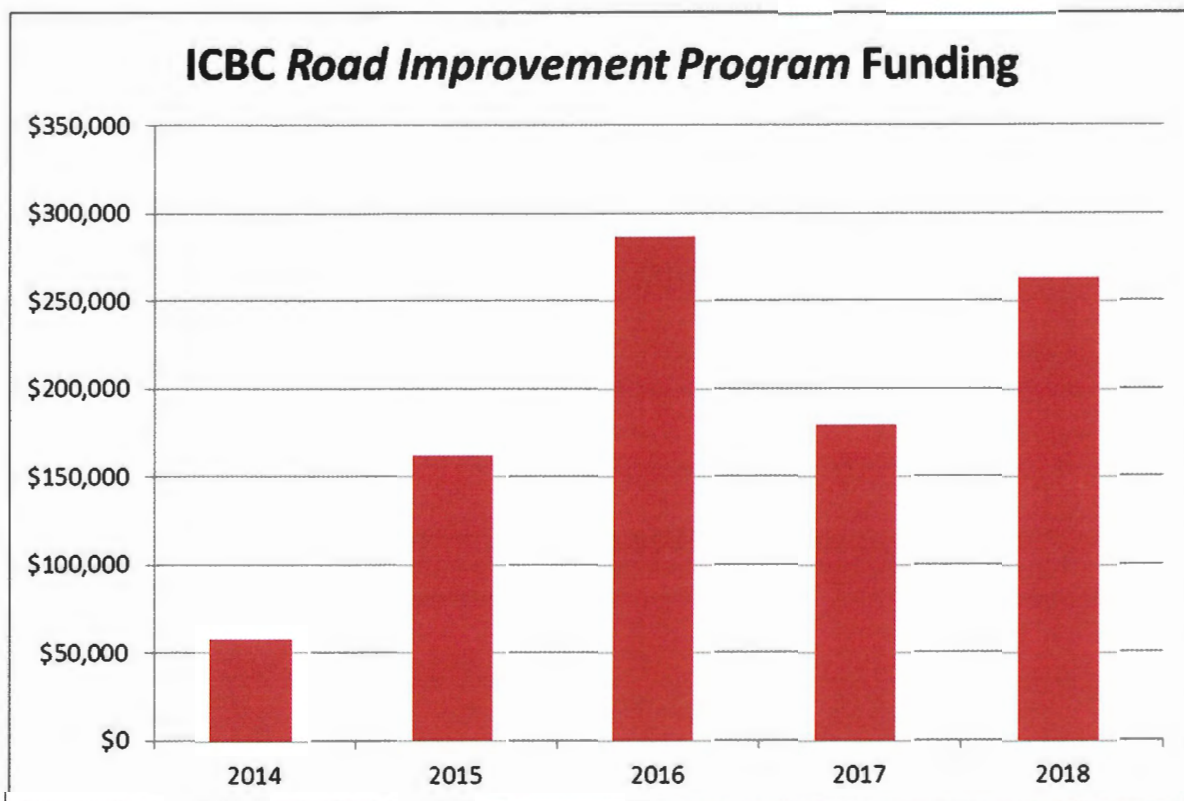


Figure 1: Annual ICBC Road Improvement Program Funding received by City

Proposed 2019 ICBC-City of Richmond Road Improvement Projects

Attachment 2 lists 13 projects proposed for submission to the 2019 *Road Improvement Program* for funding contribution from ICBC, all of which draw from approved Capital Budgets. The projects align with the objectives of the City and ICBC to improve the safety of all road users by implementing new infrastructure improvements to reduce crashes and injuries. 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, project eligibility vis-à-vis the funding guidelines, and the total funding available, which varies from year to year. The outcome of ICBC’s review of the projects will be reported back as part of the 2020 ICBC *Road Improvement Program*.


Upon approval of a project by ICBC, the City will 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 consolidated 5 Year Financial Plan (2019-2023) be amended accordingly to reflect the receipt of external grants. Should any submitted projects receive funding from ICBC, the City’s portion of the total capital cost would be reduced accordingly.

**Financial Impact**

The total estimated cost of all the projects identified in Attachment 2 is \$9,345,000. As indicated in Attachment 2, the City’s estimated portion of the costs of the projects (\$5,381,250) is fully funded with the funding sources having been previously approved by Council as part of past or current Capital Budgets. The projects with external agency funding will proceed only if a minimum of 50% external funding is secured.

**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 2019 joint ICBC-City of Richmond *Road Improvement Program*.

For   
 Fred Lin, P.Eng., PTOE  
 Senior Transportation Engineer  
 (604-247-4627)

  
 Joan Caravan  
 Transportation Planner  
 (604-276-4035)

- Att. 1: 2018 Road Improvement Projects receiving ICBC Funding
- Att. 2: Proposed 2019 City-ICBC Road Improvement Projects

## 2018 Road Improvement Projects receiving ICBC Funding

Location	Project Description	ICBC Contribution	Estimated Total Cost
<ul style="list-style-type: none"> <li>No. 1 Road-Tucker Ave</li> <li>Cedarbridge Way-Elmbridge Way</li> <li>Woodwards Road-Railway Ave</li> <li>Deagle Road-Williams Road</li> <li>8200-block Ackroyd Road</li> </ul>	Installation of Special Crosswalk	\$40,500	\$420,000
Kwantlen Street-Lansdowne Road	Upgrade of Special Crosswalk to Full Traffic Signal with LED Overhead Street Name Signs	\$35,500	\$350,000
<ul style="list-style-type: none"> <li>Russ Baker Way-Miller Road</li> <li>Garden City Road/Great Canadian Way-Sea Island Way</li> <li>Great Canadian Way-Bridgeport Road</li> <li>Knight Street-Westminster Hwy</li> <li>No. 6 Road-Westminster Hwy</li> <li>Garden City Road-Westminster Hwy</li> <li>Lynas Lane-Westminster Hwy</li> <li>Fraserwood Pl-Westminster Hwy</li> <li>Russ Baker Way-Gilbert Road</li> <li>Minoru Blvd-Granville Avenue</li> </ul>	Installation of LED Overhead Street Name Signs	\$66,000	\$160,000
Granville Avenue-Minoru Gate	Upgrade of Pedestrian Signal to Full Traffic Signal with LED Overhead Street Name Signs and Video Detection Cameras	\$19,500	\$350,000
Granville Avenue-Minoru Complex Access	Installation of Pedestrian Signal	\$7,000	\$150,000
<ul style="list-style-type: none"> <li>Lynas Lane-Westminster Highway</li> <li>No. 3 Road-Lansdowne Road</li> <li>No. 3 Road-Cook Road</li> <li>No. 3 Road-Alderbridge Way</li> <li>Viking Way-Bridgeport Road</li> <li>No. 6 Road-Cambie Road</li> </ul>	Installation of Video Detection Cameras	\$42,000	\$210,000
<ul style="list-style-type: none"> <li>Shell Road-Cambie Road</li> <li>No. 5 Road-Bridgeport Road</li> <li>Viking Way-Bridgeport Road</li> <li>No. 6 Road-Bridgeport Road</li> <li>Coppersmith Pl -Steveston Highway</li> </ul>	Installation of UPS (Uninterruptible Power Supply) at Intersections	\$12,500	\$85,000
<ul style="list-style-type: none"> <li>Westminster Highway (No. 8 Road-Nelson Road)</li> <li>No. 2 Road (Steveston Hwy-Dyke Road)</li> <li>River Dr (No. 4 Road-Van Horne Way)</li> <li>Riverside Industrial Park</li> </ul>	Construction of new multi-use pathways or sidewalks	\$19,000	\$4,634,000
Airport Road at Burkeville Park	Installation of 2 Speed Humps for Traffic Calming	\$5,000	\$6,000
Railway Avenue at Homma Elementary School	Installation of 2 In-Street Pedestrian Zone Markers	\$2,000	\$5,000
Network Screening Study	Identification of high crash locations and road safety countermeasures	\$15,000	\$30,000
<b>Total</b>		<b>\$264,000</b>	

## Proposed 2019 City-ICBC Road Improvement Projects

Proposed 2019 ICBC-City of Richmond Road Improvement Program Project	Estimated Total Cost	Source & Amount of City Funds <sup>(1)</sup>		External Agency Funding: TransLink <sup>(2)</sup>
Installation of special crosswalk: <ul style="list-style-type: none"> <li>Garden City Road &amp; Saunders Road</li> <li>Westminster Highway &amp; Windsor Court</li> <li>No. 4 Road &amp; Mortfield Road</li> <li>Railway Avenue &amp; Maple Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$60,000 \$60,000 \$120,000 \$60,000 -	2019 Special Crosswalk Program	\$300,000	-
Installation of full traffic signal: <ul style="list-style-type: none"> <li>Railway Avenue &amp; Garry Street</li> <li>No. 5 Road &amp; King Road</li> <li>No. 5 Road &amp; Vulcan Way</li> <li>Park Road &amp; Cooney Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$350,000 \$325,000 \$325,000 \$350,000 -	2019 Traffic Signal Program	\$1,350,000	-
Installation of LED street name signs: <ul style="list-style-type: none"> <li>Railway Avenue &amp; Williams Road</li> <li>Railway Avenue and Blundell Road</li> <li>Railway Avenue and Granville Avenue</li> <li>Shell Road and Bridgeport Road</li> <li>Shell Road and Cambie Road</li> <li>Shell Road and Alderbridge Way</li> <li>Kwantlen Street and Alderbridge Way</li> <li>Hazelbridge Way and Alderbridge Way</li> <li>No. 4 Road and Cambie Road</li> <li>No. 5 Road and Bridgeport Road</li> <li>Simpson Road and Bridgeport Road</li> <li>St. Edwards Drive and Bridgeport Road</li> <li>Railway Avenue and Francis Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 \$15,000 -	2019 LED Street Name Sign Program	\$195,000	-
Installation of traffic video cameras: <ul style="list-style-type: none"> <li>No. 1 Road &amp; Francis Road</li> <li>Railway Avenue &amp; Francis Road</li> <li>Railway Avenue &amp; Steveston Highway</li> <li>Gilbert Road &amp; Lansdowne Road</li> <li>3600-block No. 3 Road</li> <li>Buswell Street &amp; Granville Avenue</li> <li>Garden City Road &amp; Williams Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 \$40,000 -	2019 Traffic Video and Communication Program	\$280,000	-
Installation of UPS (uninterruptible power supply): <ul style="list-style-type: none"> <li>Lynas Lane &amp; Westminster Hwy</li> <li>Russ Baker Way &amp; Cessna Dr</li> <li>Russ Baker Way &amp; Inglis Way</li> <li>No. 2 Road &amp; Granville Avenue</li> <li>No. 2 Road &amp; Blundell Road</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$20,000 \$20,000 \$20,000 \$20,000 \$20,000 -	2019 Public Works Minor Capital – Traffic	\$100,000	-
Construction of pedestrian pathway: <ul style="list-style-type: none"> <li>River Road (No. 6 Road-Burdette Ave)</li> <li>Other locations to be determined<sup>(4)</sup></li> </ul>	\$350,000 -	2018 Arterial Roadway Improvement Program	\$350,000	-
Upgrade of Railway Greenway intersections at: <ul style="list-style-type: none"> <li>Blundell Road (north and south sides)</li> <li>Francis Road (south side)</li> <li>Williams Road (north and south sides)</li> </ul>	\$450,000 -	2019 Arterial Road Improvement Program	\$168,750	\$281,250 (Pending)

## Proposed 2019 City-ICBC Road Improvement Projects

Proposed 2019 ICBC-City of Richmond Road Improvement Program Project	Estimated Total Cost	Source & Amount of City Funds <sup>(1)</sup>		External Agency Funding: TransLink <sup>(2)</sup>
Construction of multi-use pathway:				
• Westminster Hwy (Smith Cr-Fraserside Gt)	\$1,100,000	2019 Roads DCC Program	\$440,000	\$660,000 (Pending)
• Garden City Road (Lansdowne Road-Westminster Hwy)	\$1,000,000	2019 Roads DCC Program	\$500,000	\$500,000 (Pending)
• Alderbridge Way (Shell Rd-No. 4 Road)	\$1,200,000	2018 Roads DCC Program	\$600,000	\$600,000 (Pending)
• Steveston Hwy (Shell Road-Mortfield Gate)	\$2,000,000	2019 Roads DCC Program	\$590,000	\$1,410,000 (Pending)
• Charles Street (Sexsmith Road-Bridgeport Station Entrance)	\$350,000	2019 Active Transportation Improvement Program	\$87,500	\$262,500 (Pending)
• No. 6 Road (Cambie Road-Bridgeport Road)	\$500,000	2019 Neighbourhood Walkway Program	\$250,000	\$250,000 (Pending)
Traffic calming measures in various locations pending results of traffic studies <sup>(3)</sup>	\$55,000	2019 Traffic Calming Program	\$55,000	-
Installation of pedestrian zone markers pending results of traffic studies <sup>(3)</sup> :	\$10,000	2019 Traffic Calming Program	\$10,000	-
• Locations to be determined <sup>(4)</sup>				
River Road (No. 6 Road-Westminster Hwy): installation of speed reader boards	\$35,000	2019 Traffic Calming Program	\$35,000	-
Westminster Hwy: installation of delineator posts at Sidaway Road-Jacombs Road	\$20,000	2017 Active Transportation Improvement Program	\$20,000	
Road Safety Studies: locations to be determined <sup>(4)</sup>	\$50,000	2019 Transportation Planning, Functional and Preliminary Design	\$50,000	
<b>Total</b>	<b>\$9,345,000</b>		<b>\$5,381,250</b>	<b>\$3,963,750 (Pending)</b>

- (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. The projects will proceed only if a minimum of 50% external funding is secured.
- (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.