




City of Richmond

Report to Committee

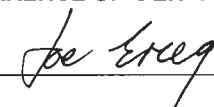

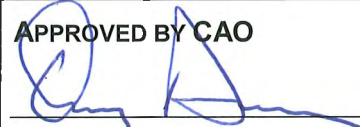
To: Public Works and Transportation Committee **Date:** February 2, 2022
From: Lloyd Bie, P. Eng.
 Director, Transportation **File:** 01-0150-20-ICBC1-01/2022-Vol 01
Re: **ICBC-City of Richmond Road Improvement Program – 2022 Update**

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 – 2022 Update,” dated February 2, 2022 from the Director, Transportation be endorsed for submission to the ICBC 2022 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 execute the cost-share agreements on behalf of the City, and that the Consolidated 5 Year Financial Plan (2022-2026) be amended accordingly.


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

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Finance	<input checked="" type="checkbox"/>	
Engineering	<input checked="" type="checkbox"/>	
RCMP	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO 

Staff Report

Origin

At the April 26, 2021 Council meeting, Council endorsed a number of proposed joint ICBC-City of Richmond road safety improvement projects for 2021. This report summarizes the projects implemented in 2021 with funding from ICBC and presents a list of projects proposed to be implemented with funding contributions from ICBC as part of the 2022 ICBC-City of Richmond Road Improvement Program partnership.

This report supports Council's Strategic Plan 2018-2022 Strategy #1 A Safe and Resilient City:

Enhance and protect the safety and well-being of Richmond.

1.2 Future-proof and maintain city infrastructure to keep the community safe.

This report supports Council's Strategic Plan 2018-2022 Strategy #6 Strategic and Well-Planned Growth:

Leadership in effective and sustainable growth that supports Richmond's physical and social needs.

6.3 Build on transportation and active mobility networks.

Analysis

ICBC Road Improvement Program

ICBC initiated the Road Improvement Program (the Program) in 1990 to help fund the implementation of road safety engineering measures to reduce the frequency and/or severity of crashes at high-risk locations, reduce claims costs and reduce the potential for crashes.

The City has been in partnership with ICBC in the 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 Program based on community requests and input from the Traffic Safety Advisory Committee and other stakeholders.

Completed 2021 ICBC-City of Richmond Road Improvement Projects

Ten groups of City projects fully or substantially completed in 2021 (Attachment 1) will receive a total of \$185,500 from ICBC's 2021 *Road Improvement Program* (example completed project in Figure 1). Over the past 10 years, ICBC has contributed an average of \$226,039 each year towards the City's transportation projects (Figure 2).



Figure 1: Installation of Speed Humps on Fundy Drive

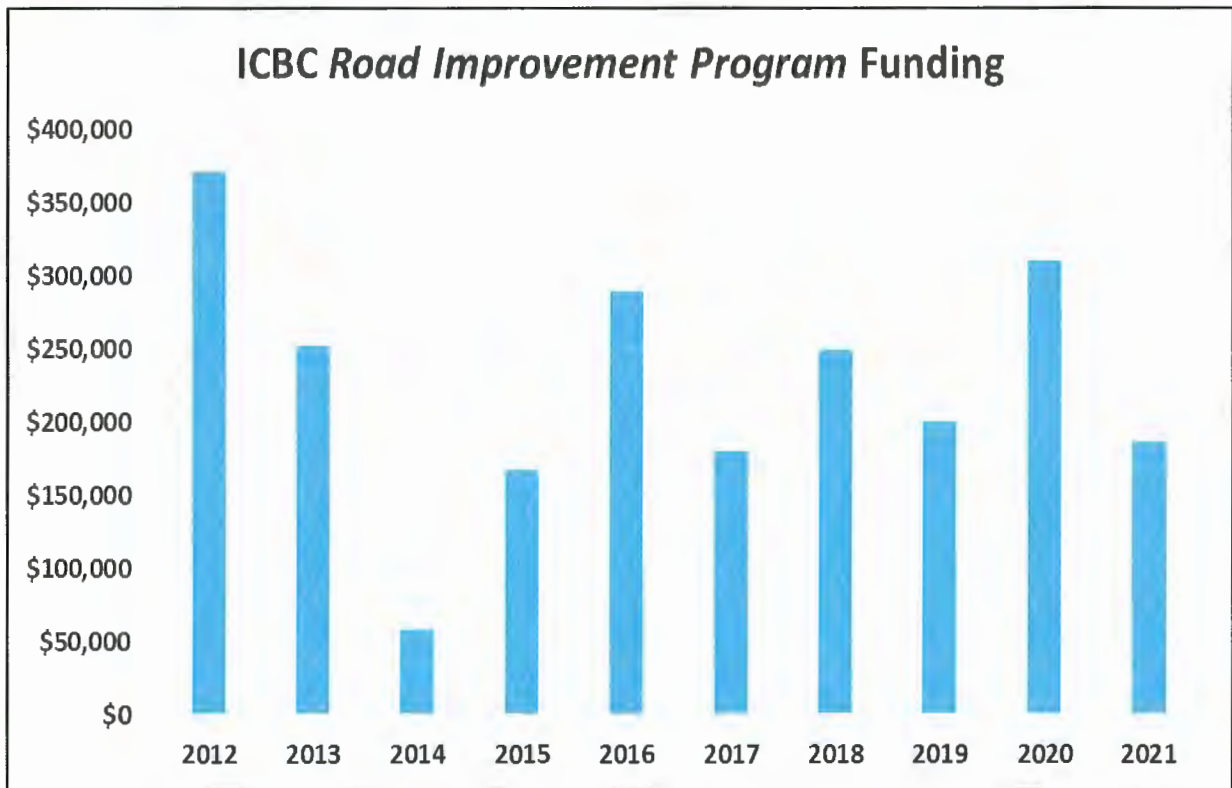


Figure 2: Annual ICBC Road Improvement Program Funding received by City

Proposed 2022 ICBC-City of Richmond Road Improvement Projects

Attachment 2 lists 13 bundles of projects proposed for submission to the 2022 *Road Improvement Program* for funding contributions from ICBC, all of which are included in 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 2023 update of the City-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 on behalf of the City to execute the funding agreements for the approved projects and that the consolidated 5 Year Financial Plan (2022-2026) 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 \$9,450,000. As indicated in Attachment 2, the City's estimated portion of the costs of the projects (\$5,865,000) is fully funded with the funding sources having been previously approved by Council as part of past or current Capital Budgets.

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 2022 joint ICBC-City of Richmond Road Improvement Program.



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Transportation Planner
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Att. 1: 2021 Road Improvement Projects receiving ICBC Funding

Att. 2: Proposed 2022 City-ICBC Road Improvement Projects

2021 Road Improvement Projects receiving ICBC Funding

Project Description	Location	ICBC Contribution	TransLink Funding	Est. Total Cost ⁽¹⁾
Installation of Special Crosswalk	<ul style="list-style-type: none"> Van Home Way-River Drive (side-mounted) 4100-block Williams Road Francis Road-Minler Road No. 5 Road-Jacobson Way 	\$14,000	-	\$360,000
Installation of Video Detection Cameras	<ul style="list-style-type: none"> No. 5 Road and Williams Road No. 5 Road and Blundell Road Graybar Road and Westminster Hwy Fraserwood Place and Westminster Hwy No. 8 Road and Westminster Hwy No. 5 Road and Westminster Hwy 	\$85,000	-	\$170,000
Installation of UPS (Uninterruptible Power Supply) at Intersections	<ul style="list-style-type: none"> Gilbert Road and Lansdowne Road No. 2 Road and Westminster Hwy No. 3 Road and Granville Avenue No. 4 Road and Cambie Road Garden City Road and Blundell Road No. 1 Road and Steveston Hwy Gilbert Road and Blundell Road No. 1 Road and Francis Road 	\$20,000	-	\$160,000
Construction of New Multi-Use Pathways	<ul style="list-style-type: none"> Charles Street (Sexsmith Road-Bridgeport Station Entrance) 		\$193,340	\$350,000
	<ul style="list-style-type: none"> West Side of Garden City Road (Lansdowne Road-Westminster Hwy) 	\$16,500	\$500,000	\$1,000,000
	<ul style="list-style-type: none"> Alderbridge Way (Fisher Drive-Shell Road) 		\$300,000	\$600,000
Removal of Channelized Right-Turn Island	<ul style="list-style-type: none"> Garden City Road-Lansdowne Road (northwest corner) 	\$17,000	-	\$483,000
Re-striping of Lane Lines	<ul style="list-style-type: none"> Railway Avenue (Steveston Highway-Williams Road) 	\$7,000	-	\$33,400
Installation of Delineators to Bike Lane	<ul style="list-style-type: none"> Granville Avenue (Garden City Road-Gilbert Road) 	\$10,000	\$150,000	\$200,000
Warning Sign for Left-Turn Motorists (pilot project)	<ul style="list-style-type: none"> Westminster Highway-No. 8 Road 	\$11,000	-	\$20,000
Traffic Calming: Speed Humps	<ul style="list-style-type: none"> Fundy Drive Shell Road East Monteith Road 	\$3,000	-	\$22,000
Installation of Pedestrian Zone Markers	<ul style="list-style-type: none"> Fundy Drive 	\$2,000	-	\$4,000
Total		\$185,500	\$1,143,340	\$3,402,400

(1) Actual cost to be determined after project completion.

Proposed 2022 City-ICBC Road Improvement Projects

Proposed 2022 ICBC-City of Richmond Road Improvement Program Project	Estimated Total Cost	Source & Amount of City Funds ⁽¹⁾		Confirmed Funding: TransLink ⁽²⁾
Installation of special crosswalk: <ul style="list-style-type: none"> • Granville Ave-Mayflower Drive • Third Ave-Chatham Street • Shell Road-Bamfield Gate (side-mounted) • Cook Road-Pimlico Way • Williams Road-Leonard Road • Other locations to be determined⁽⁴⁾ 	\$100,000 \$100,000 \$60,000 \$100,000 \$100,000	2022 Special Crosswalk Program	\$460,000	-
Installation of full traffic signal: <ul style="list-style-type: none"> • St Albans Road-Bennett Road • Other locations to be determined⁽⁴⁾ 	\$350,000	2022 Traffic Signal Program	\$350,000	-
Installation of pedestrian signal: <ul style="list-style-type: none"> • Westminster Hwy-Westminster Hwy North (upgrade from existing fire signal) • No. 3 Road-Saunders Road (upgrade from existing special crosswalk) • Other locations to be determined⁽⁴⁾ 	\$100,000 \$180,000	2020 Traffic Signal Program 2021 Active Transportation Improvement Program	\$100,000 \$180,000	-
Installation of traffic video cameras: <ul style="list-style-type: none"> • No. 1 Road-Osmond Avenue • Bridgeport Road-St. Edwards Dr • Bridgeport Road-Shell Road • Bridgeport Road-Simpson Road • Other locations to be determined⁽⁴⁾ 	\$30,000 \$25,000 \$30,000 \$30,000	2022 Traffic Video and Communication Program	\$115,000	-
Installation of overhead LED street name signs: <ul style="list-style-type: none"> • No. 1 Road-Chatham Street • No. 1 Road-Williams Road • No. 1 Road-Osmond Ave • No. 1 Road-Francis Road • No. 1 Road-Blundell Road • No. 1 Road-Granville Ave • No. 1 Road-Westminster Hwy • Gilbert Road-Williams Road • Gilbert Road-Francis Road • Gilbert Road-Blundell Road • No. 3 Road-Park Road • No. 3 Road-Cook Road • Shell Road-Williams Road • No. 5 Road at 11000-block • Railway Ave-Moncton Street • Elmbridge Way-Westminster Hwy • Minoru Blvd-Minoru Gate • Minoru Blvd-Alderbridge Way • Alderbridge Way-Westminster Hwy • Alderbridge Way-Elmbridge Way • Other locations to be determined⁽⁴⁾ 	\$300,000 (\$15,000 per intersection)	2021 LED Street Name Sign Program	\$300,000	-
Installation of pedestrian zone markers in various locations pending results of traffic studies ⁽³⁾	\$10,000	2022 Traffic Calming Program	\$10,000	-
Traffic calming measures: <ul style="list-style-type: none"> • Barnard Drive-Robson Drive/Lam Drive: Traffic Circle • Other locations pending results of traffic studies⁽³⁾ 	\$22,000 \$568,000	2022 Traffic Calming Program	\$590,000	-

Proposed 2022 City-ICBC Road Improvement Projects

Proposed 2022 ICBC-City of Richmond Road Improvement Program Project	Estimated Total Cost	Source & Amount of City Funds ⁽¹⁾		Confirmed Funding: TransLink ⁽²⁾
Cambie Road-No. 5 Road intersection upgrade: <ul style="list-style-type: none"> left-turn lanes on all four legs multi-use pathways on Cambie Road (at intersection) and No. 5 Road (Cambie Road-Thorpe Road) 	\$2,760,000	2020 Roads DCC Program	\$1,380,000	\$1,380,000
Installation of UPS (uninterruptible power supply): <ul style="list-style-type: none"> Jacombs Road-Cambie Road No. 6 Road-Mayfield Drive No. 8 Road-Blundell Road No. 6 Road-Commerce Parkway No. 3 Road-Leslie Road No. 3 Road-Ackroyd Road No. 6 Road-Cambie Road No. 4 Road-Alderbridge Way Viking Way-Cambie Road Other locations to be determined⁽⁴⁾ 	\$225,000 (\$25,000 per intersection)	2022 Traffic Signal Power Backup System (UPS)	\$225,000	-
Construction of pedestrian pathway: <ul style="list-style-type: none"> River Road (No. 6 Road-Burdette Ave) St. Edwards Drive (350m east of Cambie Road-Bird Road) Westminster Hwy (Muir Road-150m east) Other locations to be determined⁽⁴⁾ 	\$350,000 \$420,000 \$190,000	2018 Arterial Roadway Improvement Program 2020 Arterial Roadway Improvement Program 2021 Arterial Roadway Improvement Program 2020 Neighbourhood Walkway Program	\$350,000 \$306,000 \$114,000 \$95,000	- - \$95,000
Construction of multi-use pathway/cycling facilities: <ul style="list-style-type: none"> Westminster Hwy (Smith Cr-Fraserside Gate) Steveston Hwy (Shell Road-Mortfield Gate) Other locations to be determined⁽⁴⁾ 	\$1,100,000 \$2,000,000	2019 Roads DCC Program 2019 Roads DCC Program	\$550,000 \$590,000	\$550,000 ⁽⁵⁾ \$1,410,000
Granville Avenue (Gilbert Road-Railway Avenue): Bike Lane Protection Pilot Project	\$200,000	2020 Active Transportation Improvement Program	\$50,000	\$150,000
Road Safety Studies: locations to be determined ⁽⁴⁾	\$100,000	2022 Transportation Planning, Functional & Preliminary Design	\$100,000	-
Total	\$9,450,000		\$5,865,000	\$3,585,000

(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 based on the City's cost estimate for the project. The actual invoiced amount follows project completion and is based on incurred costs.

(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.

(5) TransLink funding comprised of \$489,500 (confirmed) and \$60,500 (pending).