



To: Public Works and Transportation Committee **Date:** April 19, 2024
From: Lloyd Bie, P. Eng. **File:** 10-6460-01/2024-Vol
Director, Transportation 01
Re: ICBC-City of Richmond Road Improvement Program – 2024 Update

Staff Recommendations

1. That the proposed road safety improvement projects, as described in Attachment 2 of the staff report titled “ICBC-City of Richmond Road Improvement Program – 2024 Update,” dated April 19, 2024 from the Director, Transportation, be endorsed for submission to the ICBC 2024 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 (2024-2028) 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"/>	
SENIOR STAFF REPORT REVIEW	INITIALS:	APPROVED BY CAO

Staff Report

Origin

At the May 23, 2023 Council meeting, Council endorsed a number of proposed joint ICBC-City of Richmond road safety improvement projects for 2023. This report summarizes the projects implemented in 2023 with funding from ICBC and presents a list of projects proposed to be implemented with funding contributions from ICBC as part of the 2024 ICBC-City of Richmond Road Improvement Program partnership.

This report supports Council's Strategic Plan 2022-2026 Strategy #3 A Safe and Prepared Community:

Community safety and preparedness through effective planning, strategic partnerships and proactive programs.

3.2 Leverage strategic partnerships and community-based approaches for comprehensive safety services.

3.4 Ensure civic infrastructure, assets and resources are affectively maintained and continue to meet the needs of the community as it grows.

This report supports Council's Strategic Plan 2022-2026 Strategy #4 Responsible Financial Management and Governance:

Responsible financial management and efficient use of public resources to meet the needs of the community.

4.1 Ensure effective financial planning to support a sustainable future for the City.

4.4 Work with all levels of governments for grant and funding opportunities.

Analysis

ICBC Road Improvement Program

ICBC initiated the Road Improvement 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 partnered with ICBC in the Road Improvement Program since 1994. This partnership enables the City to undertake more traffic safety enhancements with available funding and helps expedite the delivery of road safety improvement projects. Each year, a list of Council-approved road improvement projects eligible for funding through the Road Improvement Program is compiled for submission to ICBC.

Completed ICBC-City of Richmond Road Improvement Projects

The City was awarded \$215,500 through the 2023 ICBC Road Improvement Program for the implementation of twelve bundles of road improvement projects, as identified in Attachment 1.

Projects include the installation of traffic signals, special crosswalks, overhead LED street name signs and pedestrian and cycling improvements. Figure 1 shows the installation of a traffic signal that received funding through the 2023 ICBC Road Improvement Program.



Figure 1: Installation of a New Traffic Signal at St. Albans Road and Bennett Road

Over the past 5 years, ICBC has contributed over \$1.1 million towards road improvement projects within Richmond. These contributions helped facilitate improvements to the top 20 collision-prone intersections within the City, the installation of 32 video detection cameras, four new traffic signals, 53 LED overhead street name signs, 11 special crosswalks, 17 marked pedestrian zones at schools and 44 uninterrupted power supplies at intersections.

Proposed 2024 ICBC-City of Richmond Road Improvement Projects

Twelve bundles of projects are proposed to be included in the 2024 Road Improvement Program submission to ICBC for funding contribution, as detailed in Attachment 2. The projects align with the objectives of the City and ICBC to improve safety for road users and reduce crashes and injuries. Projects include the removal of channelized right-turn islands at two locations, upgrades to four Top 20 Collision Prone Intersections, installation of new traffic and pedestrian signals and installation of special crosswalks, including the first three solar-powered special crosswalks within the City.

ICBC's funding contribution towards each project will be determined through review of historical crash rates at these locations, the estimated reduction in ICBC claim costs resulting from the proposed improvements, project eligibility in relation to the funding guidelines and the total funding availability.

The outcome of ICBC's review of all submitted projects will be reported back as part of the 2024 update of the ICBC-City of Richmond Road Improvement Program.

Should a project be approved for funding by ICBC, the City will be required to enter into a funding agreement with ICBC.

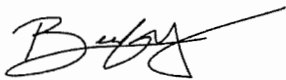
The agreement is provided by ICBC and generally includes an indemnity in favour of ICBC. Staff recommend that the Chief Administrative Officer and General Manager, Planning and Development, be authorized to execute any such funding agreements on behalf of the City.

Financial Impact

The total estimated cost of all the projects identified in Attachment 2 is \$17,711,500. All projects are fully funded through previously approved Capital Budgets. Should any submitted projects receive funding from ICBC exceeding the original budgeted external contribution, staff recommend that the excess external grants be used to reduce the previously approved City funding sources, and that the Consolidated 5 Year Financial Plan (2024-2028) be amended accordingly.

Conclusion

ICBC is a long-time partner working with the City to promote traffic safety in Richmond. The traffic safety initiatives jointly implemented by ICBC and the City have resulted in safer streets for all road users in Richmond. Staff recommend that Council endorse the various local road safety improvement projects for submission to the 2024 joint ICBC-City of Richmond Road Improvement Program.



Beata Ng, P. Eng.
Manager, Transportation
Development and Design
(604-247-4627)



Kevin Whitmarsh
Project Leader, Transportation
(604-204-8703)

BN:kw

Att. 1: 2023 Road Improvement Program Projects receiving ICBC Funding
Att. 2: Proposed 2024 City-ICBC Road Improvement Program Projects

2023 Road Improvement Program Projects receiving ICBC Funding

Project Description	Location	ICBC Contribution	Estimated Total Cost ⁽¹⁾
Installation of Special Crosswalk	<ul style="list-style-type: none"> Granville Ave / Mayflower Dr Williams Rd / Leonard Rd Moncton Ave (4500 Block) 	\$10,500	\$246,000
Installation of Traffic Signal	<ul style="list-style-type: none"> St Albans Rd / Bennett Rd 	\$49,500	\$350,000
Installation of UPS (Uninterruptible Power Supply) at Intersections	<ul style="list-style-type: none"> No 1 Rd & Westminster Hwy No 1 Rd & Granville Ave Railway Ave & Granville Ave Railway Ave & Blundell Rd Railway Ave & Francis Rd Railway Ave & Williams Rd No 1 Rd & Chatham St Oval Way & River Rd Elmbridge Way & Westminster Hwy Minoru Blvd & Westminster Hwy Kwantlen St & Alderbridge Way 	\$27,500	\$200,000
Construction of New Multi-Use Pathway	<ul style="list-style-type: none"> Steveston Hwy Phase 1 (Shell Rd-Mortfield Gt) 	\$16,000	\$6,600,000
Installation of Traffic Video Cameras	<ul style="list-style-type: none"> No 5 Rd / Bridgeport Rd Sweden Way / Bridgeport Rd No 5 Rd / Cambie Rd 	\$33,000	\$90,000
Installation of Overhead LED Street Name Signs	<ul style="list-style-type: none"> St Albans Rd & Blundell Rd No 3 Rd & Williams Rd No 3 Rd & Francis R No 3 Rd & Blundell Rd Cooney Rd & Cook Rd Cooney Rd & Saba Rd Cooney Rd & Ackroyd Rd Hazelbridge Way & Alexandra Rd Hazelbridge Way & Leslie Rd Hazelbridge Way & Browngate Rd Garden City Rd & Francis Rd Garden City Rd & Williams Rd Garden City Rd & Blundell Rd Garden City Rd & Cook Rd Garden City Rd & Lansdowne Rd Garden City Rd & Odlin Rd 	\$48,000	\$240,000
Construction of Pedestrian Pathways	<ul style="list-style-type: none"> Westminster Hwy (Muir Rd-150m east) 	\$7,000	\$190,000
Bike Lane Protection Project	<ul style="list-style-type: none"> Garden City Rd – Granville Ave to Sea Island Way 	\$17,000	\$300,000
Traffic Calming: Raised Crosswalks	<ul style="list-style-type: none"> Walter Lee School Tomsett School Jessie Wowk School Kittiwake Dr Bardmond Ave 	\$5,000	\$45,000
Installation of Pedestrian Zone Markers	<ul style="list-style-type: none"> Dover Neighbourhood Park 	\$2,000	\$16,000
Total		\$215,500	\$8,277,000

⁽¹⁾ Actual total project costs are being compiled and are unavailable at the time of this report.

Proposed 2024 City-ICBC Road Improvement Program Projects

Proposed 2024 ICBC-City of Richmond Road Improvement Program Projects	Estimated Total Cost
Removal of Channelized Right-Turn Island: <ul style="list-style-type: none"> St. Edwards Dr & Cambie Rd Westminster Hwy & Cooney Rd 	\$830,000
Construction of Intersection Safety Improvements: <ul style="list-style-type: none"> Westminster Hwy & No 5 Rd Cambie Rd & No 5 Rd Cambie Rd & No 4 Rd Westminster Hwy & No 2 Rd 	6,960,000
Installation of special crosswalk: <ul style="list-style-type: none"> Shell Rd Trail and Granville Ave Shell Rd Trail and Blundell Rd No. 2 Rd and Kittiwake Dr Williams Rd and Elkmond Rd No. 4 Rd and Dennis Pl Heather St & Granville Ave Other locations to be determined⁽²⁾ 	\$455,000
Installation of full traffic signal: <ul style="list-style-type: none"> Great Canadian Way and Beckwith Rd. Other locations to be determined⁽²⁾ 	\$350,000
Installation of pedestrian signal: <ul style="list-style-type: none"> No. 3 Road-Saunders Road (upgrade from existing special crosswalk) Other locations to be determined⁽²⁾ 	\$180,000
Installation of traffic video cameras: <ul style="list-style-type: none"> No. 4 Rd and Francis Rd No. 4 Rd and Blundell Rd No. 4 Rd and Granville Ave Other locations to be determined⁽²⁾ 	\$90,000
Installation of overhead LED street name signs <ul style="list-style-type: none"> Great Canadian Way and Van Horne Way Great Canadian Way and River Rd No. 4 Rd and Williams Rd. No. 4 Rd and Granville Ave No. 4 Rd and Alderbridge Way No. 4 Rd and Odlin Rd No. 4 Rd and Cambie Rd No. 4 Rd and Blundell Rd Aberdeen Mall and Cambie Rd Hazelbridge Way and Cambie Rd Sexsmith Rd and Cambie Rd Gilbert Rd and Granville Ave Other locations to be determined⁽²⁾ 	\$180,000
Traffic calming measures: Raised crosswalks <ul style="list-style-type: none"> Bridge Elementary School McKinney Elementary School Choice School Other locations pending results of traffic studies⁽¹⁾ 	\$30,000
Installation of stop signs via stop-sign infill program <ul style="list-style-type: none"> 91 locations across the City 	\$45,500

Proposed 2024 City-ICBC Road Improvement Program Projects

Proposed 2024 ICBC-City of Richmond Road Improvement Program Projects	Estimated Total Cost
Installation of UPS (uninterruptible power supply) <ul style="list-style-type: none"> • No. 1 Rd and Williams Rd • No. 1 Rd and Osmond Rd • No. 1 Rd and Blundell Rd • Garden City Rd and Williams Rd • Garden City Rd and Francis Rd • Railway Ave and Moncton St • Garden City Rd and Lansdowne Rd • No. 8 Rd and Westminster Hwy • No. 2 Rd and Blundell Centre • Alderbridge Way and Westminster Hwy • Other locations to be determined⁽²⁾ 	\$200,000
Construction of pedestrian pathway: <ul style="list-style-type: none"> • St. Edwards Drive (350m east of Cambie Rd-Bird Rd) • Other locations to be determined⁽²⁾ 	\$600,000
Construction of multi-use pathway: <ul style="list-style-type: none"> • Steveston Hwy Ph 2 (Mortfield Gate to No 2 Rd) • Garden City Rd (Williams Rd to Francis Rd) • No 2 Rd (Steveston Hwy to Williams Rd) • Other locations to be determined⁽²⁾ 	\$7,800,000
Total	\$17,720,500

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

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