



To: Public Works and Transportation Committee **Date:** February 21, 2007
From: Victor Wei, P. Eng. **File:** 0150-20-ICBC1-01
Director, Transportation
Re: **ICBC/CITY OF RICHMOND ROAD SAFETY IMPROVEMENT PROGRAM –
PROPOSED PROJECTS FOR 2007**

Staff Recommendation

1. That the list of proposed road safety improvement projects, as described in the attached report, be endorsed for submission to the ICBC 2007 *Road Safety Improvement Program*.
2. That should the above applications be successful, the Director of Transportation be authorized to execute the cost-share agreements.

Victor Wei, P. Eng.
Director, Transportation
(4131)

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ROUTED TO:		CONCURRENCE		CONCURRENCE OF GENERAL MANAGER	
Engineering		Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>		
Law	<i>CWE</i>	Y <input checked="" type="checkbox"/>	N <input type="checkbox"/>		
REVIEWED BY TAG	YES	NO	REVIEWED BY CAO		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	YES	NO	
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Staff Report

Origin

At the March 27, 2006 regular Council meeting, Council endorsed a number of proposed joint ICBC/City of Richmond road safety improvement projects for 2006. This report summarizes the projects implemented in 2006 with funding from ICBC and presents a list of projects proposed to be implemented with funding contributions from ICBC as part of the 2007 ICBC/City of Richmond *Road Safety Improvement Program* partnership.

Analysis

1. Partnership with ICBC on Road Safety Improvement Program

The City has been in partnership with ICBC in the *Road Safety 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 projects is developed for inclusion in the *Road Safety Improvement Program* based on the results of joint ICBC/City traffic safety studies and input from the Traffic Safety Advisory Committee and other stakeholders.

Past funding from ICBC has contributed to the implementation of projects such as the realignment of left-turn lanes at intersections to improve sightlines, system-wide upgrade of traffic signs, installation and upgrading of pedestrian crosswalks, installation of new left-turn arrows at a number of intersections, and other traffic safety education initiatives. The most recent independent evaluation of the ICBC *Road Safety Improvement Program* found that for every dollar ICBC invested, ICBC's policyholders saved at least three dollars in claims costs.

2. 2006 ICBC/City of Richmond Road Safety Improvement Projects

In 2006, ICBC invested over \$2.3 million in road improvements throughout the Fraser Valley. In Richmond, 13 projects received committed funding of \$299,000 with the balance funded from the approved 2005-2006 Major Capital Works Programs. The following table summarizes the City projects partly funded by the ICBC *Road Safety Improvement Program*:

Location	Project Description	ICBC Contribution
City-wide	<ul style="list-style-type: none"> • Review and optimize the 24-hour signal setting at each of the 180 traffic signals in the city • Coordination of signal settings will improve traffic flow and reduce the frequency of rear-end and congestion-related collisions 	\$35,000
Garden City Rd & Cambie Rd	<ul style="list-style-type: none"> • Realignment of southbound left-turn lane on Garden City Road • The improvement will enhance visibility for left-turning vehicles and through traffic travelling both northbound and southbound 	\$31,000
Great Canadian Way	<ul style="list-style-type: none"> • Raised median was installed on Great Canadian Way at the Costco access to prevent left turn movements • The improvement will eliminate left turn collisions and conflict that have been occurring at the Costco access 	\$11,000

Location	Project Description	ICBC Contribution
City-wide	<ul style="list-style-type: none"> Upgrade of over 100 signalized intersections with a third primary signal head Additional primary head will increase visibility of the intersection for drivers in all weather and lighting conditions, helping to reduce crashes 	\$125,000
Steveston Hwy. & No. 5 Rd	<ul style="list-style-type: none"> Extension of northbound left turn and right lanes on No. 5 Road Installation of second northbound through lane on No. 5 Road 	\$45,000
Lansdowne Rd & Kwantlen St	<ul style="list-style-type: none"> Installation of upgraded pedestrian crosswalk with an overhead illuminated signs and pedestrian activated flashing lights The upgraded crosswalk will improve visibility of the crosswalk 	\$11,000
No. 5 Rd & McNeely Rd	<ul style="list-style-type: none"> Installation of upgraded pedestrian crosswalk with an overhead illuminated signs and pedestrian activated flashing lights The upgraded crosswalk will improve visibility of the crosswalk 	\$3,000
Steveston Hwy & Roseland Gt	<ul style="list-style-type: none"> Installation of upgraded pedestrian crosswalk with an overhead illuminated signs and pedestrian activated flashing lights The upgraded crosswalk will improve visibility of the crosswalk 	\$5,000
Garden City Rd & Bennett Rd	<ul style="list-style-type: none"> Installation of upgraded pedestrian crosswalk with an overhead illuminated signs and pedestrian activated flashing lights The upgraded crosswalk will improve visibility of the crosswalk 	\$1,000
No. 1 Rd & Springfield Rd	<ul style="list-style-type: none"> Installation of upgraded pedestrian crosswalk with an overhead illuminated signs and pedestrian activated flashing lights The upgraded crosswalk will improve visibility of the crosswalk 	\$2,000
Russ Baker Way & Cessna Dr	<ul style="list-style-type: none"> Modification of southbound left turn lane signal and installation of volume-density technology improve traffic safety Volume-density technology improves timing of lights changing from yellow to red, which reduces "dilemma zone" conflicts that can lead to red light running and unexpected braking 	\$8,000
Minoru Blvd & Blundell Rd	<ul style="list-style-type: none"> Existing pedestrian signal replaced with a full traffic signal The upgraded crosswalk will improve the visibility of the crosswalk to drivers when the crosswalk is in use 	\$15,000
Russ Baker Way & Hudson Ave	<ul style="list-style-type: none"> Modification of northbound left-turn signal and installation of volume-density technology Volume-density technology improves timing of lights changing from yellow to red, which reduces "dilemma zone" conflicts that can lead to red light running and unexpected braking 	\$7,000
Total ICBC Funding		\$299,000

3. Proposed 2007 ICBC/City of Richmond Road Safety Improvement Projects

The table below identifies a number of projects proposed for submission to the 2007 *Road Safety Improvement Program* for funding contribution from ICBC. The implementation of these projects will be subject to review by and cost sharing with ICBC.

Proposed 2007 ICBC/City of Richmond Road Safety Improvement Program Projects	Estimated Total Cost	Source of City Funds
Westminster Highway Widening: McMillan Way to Hwy 91 Interchange	\$6,500,000	2004-2006 Major Capital
Garden City Road/Cook Road: Left-Turn Bay Installation (Southbound to Eastbound) & Signal Upgrade	\$183,000	2006 Major Capital
Steveston Highway/No. 5 Road: Northbound Left-Turn Bay & Right-Turn Lane Extension	\$165,000	Developer Funded (DCC Credit)

Proposed 2007 ICBC/City of Richmond Road Safety Improvement Program Projects	Estimated Total Cost	Source of City Funds	
Elmbridge Way/Gilbert Road: Right-Turn Bay Installation (Eastbound to Southbound) & Signal Upgrade	\$185,000	2005-2007 Major Capital	
Elmbridge Way/Hollybridge Way: Right-Turn Bay Installation (Southbound to Westbound) & Signal Installation	\$240,000	2007 Major Capital	
Gilbert Road/Lansdowne Road Improvements, including: <ul style="list-style-type: none"> • Lansdowne Rd construction (Gilbert Road to Alderbridge Way) • Gilbert Rd widening (Elmbridge Way to just north of Lansdowne Rd) • new traffic signals at Alderbridge Way/Lansdowne Road & Gilbert Road/Lansdowne Road • revised pavement markings at Alderbridge Way/Lansdowne Road 	\$1,362,000	Developer Funded (DCC Credit)	
No. 6 Road: Cable Roadside Railing at "S" Curve (between Westminster Highway & Blundell Road)	\$90,900	2007 Major Capital	
Special Crosswalks: Enhanced Pavement Markings	\$10,000	2007 Major Capital	
Arterial Road Crosswalk Upgrades: <ul style="list-style-type: none"> • Blundell Road & Heather Street • 11,000 block No. 5 Road • Williams Road & Sheridan Road 	<ul style="list-style-type: none"> • 11,000 block Coppersmith Place • Moncton Street & Easthope Road 	\$200,000	2005-2006 Minor Capital & 2007 Major Capital
Westminster Hwy/Graybar Rd: Signal Installation	\$140,000	2004-2006 Major Capital	
TOTAL	\$9,075,900+		

ICBC's potential funding contribution to these projects will be determined by historical traffic accident rates at these locations and the estimated reduction in ICBC claim costs resulting from the proposed traffic safety improvements. The outcome of ICBC's review of the above projects will be reported back as part of 2008 ICBC *Road Safety Improvement Program*.

Financial Impact

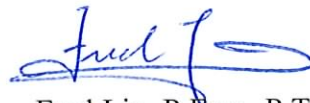
The proposed funding sources for the City's portion of the costs of the projects are the approved 2004-2007 Major Capital Works Programs.

Conclusion

ICBC is a significant 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 the City. Therefore, staff recommend that Council endorse the various local road safety improvements for submission to the 2007 joint ICBC/City of Richmond *Road Safety Improvement Program*. Upon approval by ICBC of any projects, a cost-share agreement will be executed by staff with ICBC.



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