



**Public Works and Transportation Committee
Electronic Meeting**

**Council Chambers, City Hall
6911 No. 3 Road**

**Wednesday, March 22, 2023
4:00 p.m.**

Pg. # ITEM

MINUTES

PWT-3 *Motion to adopt the **minutes** of the meeting of the Public Works and Transportation Committee held on February 23, 2023.*



NEXT COMMITTEE MEETING DATE

April 19, 2023, (tentative date) at 4:00 p.m. in the Council Chambers.

PLANNING AND DEVELOPMENT DIVISION

1. **2023 ACTIVE TRANSPORTATION INITIATIVES**
(File Ref. No. 10-6500-01) (REDMS No. 7136633)

PWT-8

See Page PWT-8 for full report

Designated Speaker: Sonali Hingorani

STAFF RECOMMENDATION

- (1) *That the report titled “2023 Active Transportation Initiatives” dated February 15, 2023 from the Director, Transportation, be received for information; and*

- (2) *That a copy of the report be forwarded to the Richmond Council-School Board Liaison Committee for information.*

☐

ENGINEERING AND PUBLIC WORKS DIVISION

2. **SANITARY SEWER REPAIRS - 100 TO 1000 BLOCK LANCASTER CRESCENT**

(File Ref. No. 10-6000-01) (REDMS No. 7121083)

PWT-16

[See Page PWT-16 for full report](#)

Designated Speaker: Kevin Roberts

STAFF RECOMMENDATION

That funding of \$1,000,000 from the Sanitary Sewer Reserve Fund for the sanitary sewer repairs along the 100 to 1000 block of Lancaster Crescent, be approved and that the Consolidated 5 Year Financial Plan (2023-2027) be amended accordingly.

☐

3. **MANAGER'S REPORT**

ADJOURNMENT

☐



Public Works and Transportation Committee

Date: Thursday, February 23, 2023

Place: Council Chambers
Richmond City Hall

Present: Councillor Carol Day, Chair
Councillor Michael Wolfe
Councillor Chak Au
Councillor Kash Heed
Councillor Alexa Loo

Also Present: Councillor Bill McNulty
Councillor Andy Hobbs

Call to Order: The Chair called the meeting to order at 4:00 p.m.

MINUTES

It was moved and seconded

That the minutes of the meeting of the Public Works and Transportation Committee held on January 25, 2023, be adopted as circulated.

CARRIED

NEXT COMMITTEE MEETING DATE

March 22, 2023, (tentative date) at 4:00 p.m. in the Council Chambers.

Public Works & Transportation Committee
Thursday, February 23, 2023

PLANNING AND DEVELOPMENT DIVISION

**1. TRAFFIC AND PARKING MANAGEMENT PLANS -
CONSTRUCTION PARKING REVIEW**

(File Ref. No. 02-0775-50-7237) (REDMS No. 7099264)

In response to queries from Committee, staff advised that (i) through a traffic management plan, all staging and loading for construction is done on site, (ii) permits are required for any activities on the street, (iii) financial impacts in relation to option 4 are borne by the contractor, (iv) exemptions are in place for smaller projects outside of the City Centre, however are still subject to City bylaws, (v) any damage to property during construction is the responsibility of the contractor and enforced through current bylaws in place, (vi) stop work orders can be issued for non-compliant projects, (vii) staff have taken action to address resident concerns related to construction activity along Spires Road, (viii) traffic management plans are reviewed by the Transportation Department, and (ix) other municipalities have permanent residential permit parking and staff are exploring options for Richmond.

It was moved and seconded

That Option 4 as described in the staff report titled “Traffic and Parking Management Plans – Construction Parking Review”, dated January 24, 2023, from the Director, Transportation be approved.

The question on the motion was not called as discussion took place on the impact of adopting a city-wide policy, as noted in option 4,, and options for the pilot project such as Spires Road.

The question on the motion was then called and it was **CARRIED** with Cllr. Loo opposed.

ENGINEERING AND PUBLIC WORKS DIVISION

2. 2023 LIQUID WASTE MANAGEMENT PLAN BIENNIAL REPORT

(File Ref. No. 10-6060-03-01) (REDMS No. 7113213)

In reply to queries from Committee, staff noted that there is no system in place currently for testing for rodenticide, however it can be explored and storm water intake through the pump station is used for irrigation and agricultural purposes.

It was moved and seconded

The City's 2023 Liquid Waste Management Plan Biennial Report as presented in Attachment 1, dated January 25, 2023, from the Director, Engineering, be submitted to Metro Vancouver.

CARRIED

2.

Public Works & Transportation Committee
Thursday, February 23, 2023

**3. UBCM COMMUNITY EMERGENCY PREPAREDNESS FUND:
2022/23 DISASTER RISK REDUCTION – CLIMATE ADAPTATION
GRANT APPLICATION**

(File Ref. No. 10-6060-01) (REDMS No. 7109253)

It was moved and seconded

- (1) *That the application to the Community Emergency Preparedness Fund, Disaster Risk Reduction – Climate Adaptation funding stream as outlined in the staff report titled “UBCM Community Emergency Preparedness Fund: 2022/23 Disaster Risk Reduction – Climate Adaptation Grant Application” dated January 24, 2023 from the Director, Engineering be endorsed;*
- (2) *That should the grant application be successful, the Chief Administrative Officer and the General Manager, Engineering and Public Works, be authorized on behalf of the City to negotiate and execute funding agreements with UBCM for the above mentioned projects; and*
- (3) *That should the grant application be successful, capital projects of \$150,000 for Seepage Assessment and Management Strategy, \$150,000 for Flood Protection Monitoring Stations, and \$2,000,000 for No. 3 Road Canal Improvements be approved with funding from external grant, as outlined in the staff report titled “UBCM Community Emergency Preparedness Fund: 2022/23 Disaster Risk Reduction – Climate Adaptation Grant Application” dated January 24, 2023 from the Director, Engineering, and that the Consolidated 5-Year Financial Plan (2023-2027) be amended accordingly.*

3A. CAMBIE ROAD AND NO. 5 ROAD

(File Ref. No.)

In response to queries from Committee, staff noted that upgrades to the intersection at Cambie Road and No. 5 Road were approved in 2020 and the project is currently in its design phase and a staff memorandum will be provided with additional information.

3B. MULIT-PURPOSE PATHWAY ON STEVESTON HIGHWAY

(File Ref. No.)

In reply to a query from Committee, staff advised that a report on the matter is forthcoming.

Public Works & Transportation Committee

Thursday, February 23, 2023

3C. RICE MILL ROAD

(File Ref. No.)

In reply to a query from Committee, staff advised that the Province has not indicated any plans to construct a Rice Mill Road and Steveston Highway connection, and the City owns No. 6 Road North to South.

4. MANAGER'S REPORT

(i) Outreach Events

Staff highlighted that the Textile Repair Fair took place and was a great success and a second event will take place in March, and at the Children's Arts festival community members were taught to make handbags from t-shirts.

(ii) Burnaby Organics Facility

Staff advised that (i) the City of Burnaby Council has approved the construction of a city owned green waste facility, (ii) the City of Richmond was not consulted, and (iii) the facility will process 250,000 tonnes of organic material.

(iii) Scotch Broom

In reply to a query from Committee with regard to removal of blackberry bushes along a multi-use pathway staff advised that the Parks Department will be able to answer this query.

(iv) Debris along River Road Ditches

In reply to queries from Committee, staff advised that (i) a clean up along the stretch of River Road between No. 6 Road and No. 7 Road has been done recently, (ii) discussions with Recycle BC and GFL have been had to ensure truck loads are properly secured, and (iii) the road will be closely monitored to address the issue.

ADJOURNMENT

It was moved and seconded

That the meeting adjourn (5:03 p.m.).

CARRIED

Public Works & Transportation Committee
Thursday, February 23, 2023

Certified a true and correct copy of the Minutes of the meeting of the Public Works and Transportation Committee of the Council of the City of Richmond held on Thursday, February 23, 2023.

Councillor Carol Day
Chair

Sarah Goddard
Legislative Services Associate



City of Richmond

Report to Committee

To: Public Works and Transportation Committee
From: Lloyd Bie, P.Eng.
Director, Transportation
Re: 2023 Active Transportation Initiatives

Date: February 15, 2023
File: 10-6500-01/2023-Vol
01

Staff Recommendation

1. That the report titled "2023 Active Transportation Initiatives" dated February 15, 2023 from the Director, Transportation, be received for information; and
2. That a copy of the report be forwarded to the Richmond Council-School Board Liaison Committee for information.

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

Att.1

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

Staff Report

Origin

The City undertakes and supports a number of infrastructure projects, initiatives and on-going activities to support active transportation (human-powered transportation) around Richmond. In addition to projects and programs included in the capital budget, joint initiatives with the Richmond Active Transportation Committee and HUB Cycling are undertaken throughout the year to encourage walking, cycling and rolling trips in the City. The City also funds cycling skills education courses for all Grade 6 & 7 students and continues safety related campaigns for personal mobility devices, such as e-scooters.

This report provides an overview of the active transportation initiatives planned for 2023 to support the planning, development, improvement, and promotion of the City's active transportation network. The report also highlights the 2022 active transportation accomplishments. Input and collaboration with the cycling community is integral to the delivery of these initiatives.

This report supports Council's Strategic Plan 2018-2022 Strategy #4 An Active and Thriving Richmond:

4.1 Robust, affordable, and accessible sport, recreation, wellness and social programs for people of all ages and abilities.

4.2 Ensure infrastructure meets changing community needs, current trends and best practices.

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

6.3 Build on transportation and active mobility networks.

Analysis

As part of the planning and review of active transportation projects, staff meet monthly with the Richmond Active Transportation Committee (RATC) to seek input and feedback on infrastructure projects designed for cyclists, pedestrians and other micro-mobility devices. The committee also undertakes various activities in co-operation with the City to encourage, educate and raise awareness of active transportation. Committee members are local residents and/or employees who reflect a diverse range of ages and cycling skills. RATC will be providing input and participating in the active transportation initiatives planned for 2023 as identified in this report.

Planned 2023 Active Transportation Initiatives

Capital Projects - Active Transportation Network Expansion: Commence and continue design efforts and implementation of approved active transportation capital projects including:

- Complete the detailed designs for off-street multi-use pathways (MUP) on No. 2 Road (Steveston Highway to Williams Road), Shell Road (Hwy 99 to River Road) and Phase 3 of the Steveston Highway MUP (No. 2 Road to Railway Avenue).
- Commence construction of Phases 1 and 2 of the Steveston Highway MUP (Shell Road to No. 2 Road).
- Complete construction of the Westminster Highway MUP (Smith Crescent to Fraserside Gate). Construction of this project raised concerns from area residents in 2022 when construction commenced. Concerns included driveway access, on-street parking and vehicle speeds on Westminster Highway. Staff engaged with residents and coordinated with appropriate staff and the contractor to address concerns, which included some minor alterations to the design. Substantial completion is anticipated in summer 2023.
- Addition of bike lane delineators on Garden City Road from Granville Ave to Sea Island Way. Delineators between Granville Avenue and Railway Avenue have been installed as part of a pilot project.

E-Scooter and E-Bike Pilot Project: Continue to monitor the City's pilot project, particularly regarding the operation of the public shared e-scooter and e-bike system and its impact on existing cycling infrastructure and users. A public survey using the Let's Talk Richmond platform is planned for spring to seek feedback from e-scooter device operators and others sharing the road and pathways with these devices.

Active Transportation Network Spot Improvements: Potential projects include localized improvements to existing on-street cycling facilities such as improved pavement markings (e.g., green painted bike lanes at potential conflict areas), additional signage, new ramps to facilitate access to off-street pathways, and installation of delineators to prevent motorists from encroaching into bike lanes.

Park, Road and Development Projects: Review additional City and external agency projects that impact existing or would incorporate new active transportation infrastructure as part of the overall project such as the Province's Fraser River Tunnel Project and through the development applications process.

Cycling Network Plan Update: Identify cycling network upgrades as determined in the plan to prioritize future capital projects for Council consideration.

Bicycle-Pedestrian Counters: There are currently seven counters that record pedestrian and bicycle counts by direction on various facilities across the City (Table 1). The data will track usage and help inform the need for and timing of future improvements. Further expansion of the network of monitors will be coordinated as part of future cycling facilities.

Table 1: Bike-Pedestrian Counters

Bike Route	Location
Great Canadian Way MUP	South of Brackwith Road
McCallan Road MUP	South of Westminster Hwy
No. 2 Road MUP	South of Steveston Hwy
Alderbridge Way MUP	East of No. 4 Road
River Road MUP	West of No. 4 Road
Bridgeport Road MUP	West of No. 6 Road
Railway Greenway	South of Maple Road

Public Bicycle Parking: Research vendors and products to potentially trial secured bike parking facilities for public use.

Cost Share Grants and Awards: Continue to explore and apply for external grants related to active transportation projects. On February 16, 2023, the Province announced the City's application for Phase 2 of the Steveston Highway Multi-Use Pathway project has been approved to receive \$500,000 in cost-shared grant funding.

Promotion and Education of Active Transportation in 2023

Activities to encourage and promote active transportation as sustainable travel modes that also have significant health benefits are planned for 2023. RATC members and HUB Cycling will assist in the planning, promotion and staging of the following events in 2023:

- Cycling Go by Bike Week (May and September/October): The May 2023 event of this region-wide annual initiative organized by HUB Cycling will be held from May 29 to June 4, 2023. People cycling log their daily bike trips for a chance to win prizes and to help support cycling in Metro Vancouver. Staff and the RATC will assist in the planning and promotion of this event, which will include celebration stations in the city.
- Bike to School Week (May): An annual celebration where students of all ages are encouraged to bike, roll, or walk to school. The week long event will take place from May 29 to June 2, 2023. Cycling and rolling trips are logged by schools with prizes drawn at the end of the week.
- Cycling Bike to Shop Week (August): HUB Cycling stages this annual event to encourage people to ride to and shop at local businesses. Bike to Shop is both a 'support local' and tourism campaign, designed to bring people directly to local stores as well as travel to new areas. In the past, the event in Richmond has been focused in Steveston and includes participating businesses that offer promotions and discounts to participants.
- 21st "Island City, by Bike" Tour: The bike tour of Richmond is tentatively set for Sunday, June 11, 2023. Both a long and short route will seek to feature recent improvements to the active transportation network to raise community awareness of the neighbourhood facilities that support sustainable travel options.
- Bicycle Education for Students: Jointly with HUB Cycling and the Richmond School District, the City will facilitate in the expansion of cycling education courses to all Grade 6 and 7 elementary school students over a two-year period (i.e., approximately 19 schools per year). Students will learn the rules and responsibilities of riding on City streets and bike paths and receive hands-on practice with fundamental cycling skills on school grounds and local neighbourhood streets. HUB's fleet of bikes includes a range of specialized adaptive bikes that are available to children with physical and cognitive differences to help achieve a goal of 100 per cent participation.
- Promotion of Active Transportation Network: Continue to participate in City events related to health and transportation to raise the awareness of new active transportation facilities both locally and regionally. RATC will be engaged to help enhance active transportation information and resources on the City's website.

- *E-Scooter and E-Bike Safety Campaign:* Staff continue social media posts to deploy safety and education regarding the use of e-bicycles and e-scooters, focused on raising awareness of the e-scooter pilot project, bylaws and the safe operation of e-scooters (Figure 1). Staff will continue to collaborate with the Richmond RCMP to educate and inform residents on the safe and lawful operation of e-scooters. An information handout to convey the rules and regulations of e-scooters in the city was developed by the Richmond Block Watch office (Figure 2). These were distributed on shared pathways, at road side and at community events in 2022. Similar outreach is planned for 2023.



Figure 1: Social Media Safety Campaign for E-Scooters and E-Bikes



Figure 2: E-Scooter Safety Information Card

- *Promotion of Active Transportation Initiatives:* Pursue additional opportunities and efforts that can be explored to enhance education and outreach regarding cycling and pedestrian safety in the City, including updating information on the City's social media platforms. Continue to support HUB Cycling activities including learn to ride and bike maintenance courses.

2022 Active Transportation Highlights

The City continued to expand and enhance the active transportation network in 2022. RATC was engaged in the planning and implementation of the projects highlighted below:

Improvement of Existing Facilities

- *Garden City Road Multi-Use Pathway (Lansdowne Road to Westminster Highway):* Works in 2022 included completing the paving of the north section of the project and reconfiguring the bus stop area. The project provides a wider facility that is protected from vehicle traffic.
- *Alderbridge Way Multi-Use Pathway (Fisher Gate to Shell Road):* Completion of Phase 2 of the project along the north side of Alderbridge Way. Phase 1 of the MUP between No. 4 Road and Fisher Gate was completed in 2020.

- Cycling Network Plan Update: Updated City-wide cycling master plan that supports long-term mobility objectives, reflects best practices in cycling infrastructure design and current community needs, and includes a prioritized implementation strategy.

Promotion and Education of Active Transportation

- Go by Week (May and October 2022): Both the May and October 2022 events were held in-person and via digital programming to help with re-integration as restrictions eased for the COVID-19 pandemic. Richmond had 360 participants (a 13% increase compared to 2021). Collectively, Richmond participants logged 1,770 trips for a total distance of nearly 24,000 km.
- HUB Cycling Bike to Shop Week (August 13 to 21, 2022): The event in Richmond was focused in Steveston and included five participating businesses that offered promotions and discounts to participants.
- Bike to School Education for Students: In 2022, with revised delivery methods to comply with existing public health guidelines, a total of 1,627 students from 19 elementary schools (Attachment 1) received hands-on practice with fundamental cycling skills on school grounds and local neighbourhood streets.
- Cycling Education: HUB Cycling hosted learn to ride and bike maintenance courses in partnership with the City. Courses and online webinars totaled 137 attendees with 11 courses taught.
- E-Scooter and E-Bike Pilot Project: Use of the shared e-scooters has grown over the last year with trips continuing to be logged in the winter months. Since the shared e-scooter system deployed in May 2022, over 40,000 trips have been taken in 2022 with an average distance travelled of 1.6 kilometre. Lime provides in-app education and safety tips to avoid accidents and has hosted five in person First Ride safety events in 2022 in partnership with HUB Cycling. Staff report back annually on the status of the pilot project concurrent with the City's required reporting to the BC government. A report to Council providing a comprehensive update on the project is anticipated in Q2 2023.

Financial Impact

None.

Conclusion

The active transportation initiatives planned for 2023 will continue efforts to further encourage greater and safer use of pedestrian and cycling modes in Richmond. Active transportation also promotes physical activity and overall health and wellness outcomes. The Richmond Active Transportation Committee continues to participate and support the City's sustainable transportation objectives, which in turn will support progress towards meeting the City's target for the reduction of greenhouse gas emissions as well as the travel mode share targets of the City's Official Community Plan.

February 15, 2023

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As the Richmond School District is an essential partner in the delivery of the cycling education courses for students, staff recommend that the report be forwarded to the Richmond Council-School Board Liaison Committee for information.

A handwritten signature in black ink, appearing to read "Sonali Hingorani".

Sonali Hingorani, P. Eng.
Manager, Transportation Planning and New Mobility
(604-276-4049)

SH:cas

Att. 1: 2022 Summary of Bike to School Education for Students

2022 Summary of Bike to School Education for Students

School Name	Dates of Instruction	# Students
Daniel Woodward Elementary	October 12th, 13th, 14th	56
F. A. Tomsett Elementary	October 3rd, 5th, 6th, 7th, 11th	83
General Currie Elementary	March 28th, 29th, 30th, 31st, April 1st	112
J. G. Diefenbaker Elementary	November 1st, 3rd, 4th, 7th, 8th	122
James Gilmore Elementary	May 11th, 12th, 13th, 16th, 17th	102
James McKinney Elementary	June 16th, 17th, 20th, 22nd, 24th	75
James Whiteside Elementary	May 19th, 25th, 26th, 30th, 31st	134
Kathleen McNeely Elementary	March 28th, 29th, 31st, April 4th, 5th	81
Kingswood Elementary	September 20th, 21st, 22nd, 23rd	84
Manoah Steves Elementary	October 17th, 18th, 19th, 24th, 25th	72
Maple Lane Elementary	September 26th, 27th, 28th	56
McKay Elementary	November 4th, 7th, 8th, 9th, 14th	78
Quilchena Elementary	October 24th, 25th, 26th	56
R. J. Tait Elementary	November 7th, 8th, 9th, 10th, 14th	51
Thomas Kidd Elementary	June 7th, 8th, 10th	50
W. D. Ferris Elementary	May 27th, 31st, June 1st, 2nd, 3rd	140
Walter Lee Elementary	June 9th, 13th, 14th, 15th, 16th	79
William Bridge Elementary	October 25th, 26th, 28th	56
William Cook Elementary	October 12th, 13th, 17th, 19th, 20th	140



City of Richmond

Report to Committee

To: Public Works and Transportation Committee
From: Milton Chan, P.Eng
Director, Engineering
Date: February 16, 2023
File: 10-6000-01/2023-Vol
01
Re: Sanitary Sewer Repairs – 100 to 1000 Block Lancaster Crescent

Staff Recommendation

That funding of \$1,000,000 from the Sanitary Sewer Reserve Fund for the sanitary sewer repairs along the 100 to 1000 block of Lancaster Crescent, be approved and that the Consolidated 5 Year Financial Plan (2023-2027) be amended accordingly.

Milton Chan, P.Eng
Director, Engineering
(604-276-4377)

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

Staff Report

Origin

In December 2022, a section of failed sanitary sewer was discovered by City maintenance staff in the 1000 block of Lancaster Crescent within the Burkeville community.

The failed section of sanitary sewer was isolated and a temporary bypass system was installed by City forces to provide continuous sewer service to the surrounding properties.

Staff recommend that funding for the repairs be provided from the Sanitary Sewer Reserve Fund.

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.

Analysis

The City has a failed 200 millimeter diameter gravity sanitary sewer, constructed around 1940, that is located under Lancaster Crescent in Burkeville and is approximately 2.5 metres below ground level.

City forces installed a temporary sanitary sewer bypass system to maintain continuous sewer service to nearby properties while the sewer was inspected to determine the extents of the repair work required.

The proposed repair work will include an open trench repair at the location of the break, and the use of trenchless technologies to repair approximately 445 meters of sanitary sewer line. This line services the 28 residential homes between the 100 to 1000 block of Lancaster Crescent. The repair will restore regular sanitary service in a timely manner and improve the existing infrastructure, resulting in extended asset lifespan for this sewer. It will also minimize the risk of additional breaks in the future.

The costs for this repair are estimated at \$1,000,000, including engineering consultant design and construction works.

Financial Impact

The total estimated capital cost for the repair of the failed sanitary sewer along Lancaster Crescent is \$1,000,000.

A temporary funding source will be utilized to fund the repair until the Consolidated 5 Year Financial Plan (2023-2027) can be amended with this additional \$1,000,000 to be funded by the Sanitary Sewer Reserve Fund. Any unused funds will be returned to the funding source.

Conclusion

The sanitary sewer system in the 100 to 1000 block of Lancaster Crescent has failed. Staff will be using a temporary funding source to fund the repair. Staff recommend that funding for the repair work be provided from the Sanitary Sewer Reserve Fund.

A handwritten signature in blue ink, appearing to read 'KR', is positioned above the typed name and title.

Kevin Roberts, P.Eng.
Acting Manager, Engineering Design and Construction
(604-204-8512)