



# City of Richmond

## Report to Committee

**To:** Finance Committee **Date:** December 1, 2022  
**From:** Mike Ching, CPA, CMA **File:** 03-0975-01/2022-Vol 01  
 Director, Finance  
**Re:** **Active Capital Projects Information - 3rd Quarter September 30, 2022**

### Staff Recommendation

That the staff report titled, “Active Capital Projects Information – 3rd Quarter September 30, 2022”, dated December 1, 2022 from the Director, Finance, be received for information.

Mike Ching, CPA, CMA  
 Director, Finance  
 (604-276-4137)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE
Information Technology	<input checked="" type="checkbox"/>	Sustainability & District Energy <span style="float: right;"><input checked="" type="checkbox"/></span>
Real Estate Services	<input checked="" type="checkbox"/>	Fire Rescue <span style="float: right;"><input checked="" type="checkbox"/></span>
Arts, Culture & Heritage	<input checked="" type="checkbox"/>	Community Bylaws <span style="float: right;"><input checked="" type="checkbox"/></span>
Community Social Development	<input checked="" type="checkbox"/>	Community Safety Administration <span style="float: right;"><input checked="" type="checkbox"/></span>
Parks Services	<input checked="" type="checkbox"/>	Transportation <span style="float: right;"><input checked="" type="checkbox"/></span>
Recreation and Sport Services	<input checked="" type="checkbox"/>	
Engineering	<input checked="" type="checkbox"/>	
Facilities and Project Development	<input checked="" type="checkbox"/>	
Fleet & Environmental Programs	<input checked="" type="checkbox"/>	
Roads & Construction	<input checked="" type="checkbox"/>	
Sewerage & Drainage	<input checked="" type="checkbox"/>	
		<b>CONCURRENCE OF GENERAL MANAGER</b> 
<b>SENIOR STAFF REPORT REVIEW</b>	<b>INITIALS:</b> 	<b>APPROVED BY CAO</b> 

## Staff Report

### Origin

Active Capital Project Information for the 3rd Quarter (ended September 30, 2022) is provided to the Finance Committee for information purposes. This report includes the approved 2022 Capital Budget and amendments, and other previously approved capital projects.

This report supports Council's Strategic Plan 2018-2022 Strategy #5 Sound Financial Management:

*Accountable, transparent, and responsible financial management that supports the needs of the community into the future.*

*5.2 Clear accountability through transparent budgeting practices and effective public communication.*

### Analysis

#### **SUMMARY OF ACTIVE CAPITAL PROJECTS**

Active capital projects represent construction, non-construction and acquisition (e.g. equipment and land) capital projects previously approved by Council. A capital project is considered active for the purpose of this report if the project falls within one of the following project completion stages:

- Planning and Design – includes projects that were previously approved and are undergoing design specifications, design approvals, or public consultation.
- Contract Award – this includes preparing and issuing a request for proposal, evaluating proposals received, and finalizing contract award agreements.
- Construction – includes build out of the approved design either by City workforce or under executed agreements.
- Functional Completion – certain projects are completed in phases that allow for portions of the project to be functionally complete while the next phase is initiated.
- Project Completion – may include fully functional assets that are in their final inspection and acceptance stage, assets that may still require minor deficiencies to be addressed, as-built drawings to be received, collection of external funding and fulfillment of audit requirements, where applicable.

Capital projects also include amounts set aside for land acquisition, public art, child care and affordable housing which are dependent upon external factors such as market conditions, availability and external partners. Council approval is required for each specific land acquisition transaction. The current balance committed to active capital projects is \$474.5M, and the capital financial information are summarized in Table 1.

**Table 1: Active Capital Projects by Program (in \$'000s)**

Program	Plan Year	Number of Active Projects	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Infrastructure Program	2022	49	\$48,526	\$3,235	\$45,291
	2021	48	48,054	18,913	28,893
	2020	48	64,310	33,783	29,698
	2019	23	26,295	17,258	8,702
	2018 & older	18	101,461	81,788	10,042
<b>Infrastructure Program Total</b>		<b>186</b>	<b>\$288,646</b>	<b>\$154,977</b>	<b>\$122,626</b>
Building Program	2022	9	21,519	491	20,933
	2021	12	106,986	5,889	100,957
	2020	8	17,411	7,341	9,970
	2019	10	13,432	4,427	7,747
	2018 & older	12	150,740	112,488	36,508
<b>Building Program Total</b>		<b>51</b>	<b>\$310,088</b>	<b>\$130,636</b>	<b>\$176,115</b>
Parks Program	2022	10	8,483	133	8,350
	2021	10	12,050	1,681	10,369
	2020	7	10,325	4,463	5,862
	2019	11	12,297	6,453	5,844
	2018 & older	25	35,892	24,405	11,480
<b>Parks Program Total</b>		<b>63</b>	<b>\$79,047</b>	<b>\$37,135</b>	<b>\$41,905</b>
<b>Construction Related Programs</b>		<b>300</b>	<b>\$677,781</b>	<b>\$322,748</b>	<b>\$340,646</b>

**Table 1: Active Capital Projects by Program (in \$'000s) - continued**

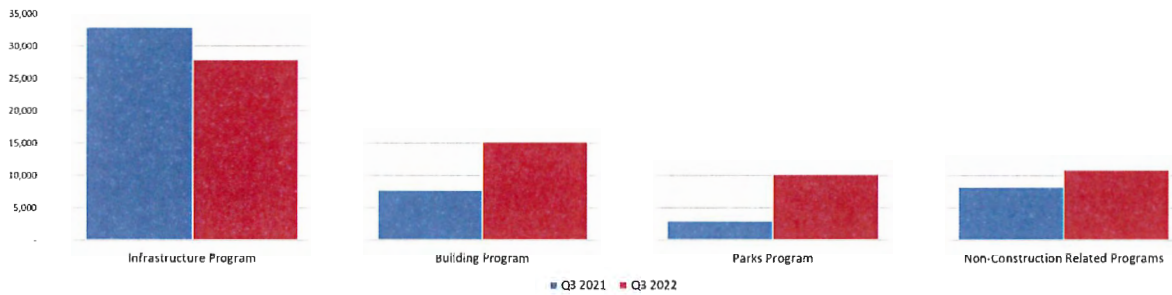
Program	Plan Year	Number of Active Projects	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Equipment Program	2022	6	7,404	41	7,363
	2021	4	4,926	805	4,121
	2020	5	4,481	2,621	1,860
	2019	6	10,430	7,482	2,948
	2018 & older	5	6,477	5,064	1,413
<b>Equipment Program Total</b>		<b>26</b>	<b>\$33,718</b>	<b>\$16,013</b>	<b>\$17,705</b>
Information Technology Program	2022	10	3,282	623	2,659
	2021	7	3,533	2,218	1,315
	2020	2	855	491	363
	2019	4	3,030	631	2,399
	2018 & older	7	6,114	3,400	2,714
<b>Equipment Program Total</b>		<b>30</b>	<b>\$16,814</b>	<b>\$7,363</b>	<b>\$9,450</b>
Land Program	2022	1	5,000	-	5,000
	2021	2	30,000	-	30,000
	2020	1	10,000	1,759	8,241
	2019	1	10,000	-	10,000
	2018 & older	4	52,044	15,520	36,524
<b>Land Program Total</b>		<b>9</b>	<b>\$107,044</b>	<b>\$17,279</b>	<b>\$89,765</b>
Contingent External Contribution	2022	1	8,235	-	8,235
<b>Contingent External Contribution Total</b>		<b>1</b>	<b>\$8,235</b>	<b>\$-</b>	<b>\$8,235</b>
Affordable Housing/Child Care/Public Art Programs	2022	3	810	80	730
	2021	5	4,296	1,256	3,040
	2020	2	1,145	529	616
	2019	3	988	144	844
	2018 & older	6	8,534	5,051	3,483
<b>Affordable Housing/Child Care/Public Art Programs Total</b>		<b>19</b>	<b>\$15,773</b>	<b>\$7,060</b>	<b>\$8,713</b>
<b>Non-construction Related Programs</b>		<b>85</b>	<b>\$181,584</b>	<b>\$47,715</b>	<b>\$133,868</b>
<b>Grand Total</b>		<b>385</b>	<b>\$859,365</b>	<b>\$370,463</b>	<b>\$474,514</b>

An estimate of \$10M for contingent external contribution was included in the 2022 Capital Budget for external grants or contributions that may be approved throughout the year but were not included in the original capital submissions. Funding is transferred to the approved applicable projects only when the external grants or contributions are confirmed. As of September 30, 2022, \$1,764,790 was transferred to the approved applicable projects.

**YEAR TO DATE CAPITAL EXPENDITURES**

The following is an overview of the actual capital expenditures on a cash-basis for the 9 months ending September 30.

**Figure 1 – Capital Expenditures for the 9 Months Ending September 30**



*Infrastructure Program:*

The year-over-year decrease in capital expenditure is largely comprised of \$4.7M in Roads program, which includes \$3.0M for the Canada Line Capstan Station and \$0.9M for Active Transportation Improvement projects.

*Building Program:*

The year-over-year increase is mainly driven by \$1.9M for Richmond Ice Centre, \$1.2M for Richmond Curling Club Ice Plant Replacement and Other Systems, and \$1.0M for Building Advanced Design.

*Parks Program:*

The year-over-year increase is mainly driven by \$3.7M for Minoru Lakes Renewal, \$2.6M of parkland acquisition at 8528 Ash Street and \$1M for Aberdeen Park - Phase 3.

*Non-Construction Related Programs:*

The year-over-year increase is mainly driven by \$2.4M for Strategic Land Acquisition, \$2.3M for fire vehicle purchases offset against \$1.1M decrease for Closed Circuit Television for Signalized Intersections and \$1.1M decrease for Energy Management Projects spent in 2021, due to capital expenditures for completion of the Library & Cultural Centre Low Carbon Mechanical System Upgrade in 2021.

The following are capital projects with the highest current year-to-date capital expenditures (actuals on a cash-basis) as at September 30, 2022.

**Table 2: Capital Projects with the Highest Current Year-to-Date Capital Expenditures (in \$'000s)**

Project Name (Plan Year)	Current Year-to-Date
	Actuals
Minoru Lakes Renewal (2020)	\$3,142
Richmond Ice Centre Infrastructure Renewals - Phase 1 (2020)	2,660
Parkland Acquisition (2017)	2,586
Watermain Replacement Upgrades Program (2021)	2,584
Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2020)	2,582
Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2021)	2,481
Strategic Land Acquisition (2016)	2,395
Animal Shelter Replacement (2018)	2,181
Annual Asphalt Re-Paving Program - Non-MRN (2021)	1,563
Fire Vehicle Replacement Reserve Purchases (2019)	1,510

### **GRANT APPLICATIONS**

Below are the highlights of the external contributions received during the third quarter:

- \$1,008,254 from Government of Canada Disaster Mitigation and Adaptation Fund (DMAF) for the City's Flood Protection Program
- \$387,057 from the Investing in Canada Infrastructure Program – COVID – 19 Resilience Infrastructure Stream for the Thompson Community Centre & Hall Infrastructure Renewals
- \$200,000 from South Arm Community Association for contributions to South Arm Community Park Playground upgrades
- \$110,000 from Natural Resource Canada Canada's Zero Emission Vehicle Infrastructure Program for the installation of multiple electric vehicle charging ports
- \$167,000 from Insurance Corporation British Columbia (ICBC) for various road improvement programs

The City is currently awaiting results for the following grant applications:

- Investing in Canada Infrastructure Program (ICIP) - Green Infrastructure - Adaptation, Resilience, & Disaster Mitigation (ARDM) sub-stream for No. 3 Road South Pump Station and Dike Upgrade for a funding of \$9,532,900
- Active Transportation Fund – Public Transit Program for the City Centre Cycling Network Expansion project for a funding of \$4,110,000
- Investing in Canada Infrastructure Program – British Columbia - Green Infrastructure - Environmental Quality Sub Stream Fund for the Minoru Park Stormwater Detention Pond and Sustainability Improvements project for a funding of \$2,309,895
- Community Emergency Preparedness Fund (CEPF) - Disaster Risk Reduction - Climate Adaptation for Flood Protection Projects for a maximum funding of \$2,300,000
- 2022/2023 British Columbia Active Transportation Infrastructure Grants Program for Steveston Hwy MUP - Phase 2 (Mortfield Gate to No. 2 Road) for a funding \$500,000
- National Disaster Mitigation Program (NDMP) - Intake 6 Fund for the Steveston Island Preliminary Dike Design project for a funding of \$500,000

- Canada Community Revitalization Fund (CCRF) for the London Heritage Farm Revitalization project for a funding of \$459,000
- Municipal Asset Management Program for the Sanitary Pump Station Condition Assessments project for a funding of \$50,000

### **HIGHLIGHTS OF KEY CAPITAL PROJECTS**

Information on key capital projects include the adjusted project budgets including transfers from other projects and budget amendments, actuals on a cash-basis, and remaining commitments as at September 30, 2022.

### **INFRASTRUCTURE**

The City's Infrastructure program includes construction for roads, lanes, street systems, public walkways and paths, street lighting, water distribution networks, sanitary sewer systems, and flood protection infrastructure. Many of the active infrastructure projects are in the design and permitting stages. With the current Provincial and Federal regulatory framework, the design and approval process for many flood protection (formerly known as drainage) projects (including pump stations and dike upgrades) can take between one to two years.

There are continued upgrades for drainage and sanitary pump stations, flood protection infrastructure, dikes and roads throughout the City along with infrastructure improvements in the Burkeville area, Steveston area and various other locations. Table 3 provides the highlights for the key infrastructure capital projects.

**Table 3: Key Infrastructure Capital Projects (in \$'000s)**

Program	Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Flood Protection	Disaster Mitigation and Adaptation Fund Infrastructure Grant - Drainage Pump Station and Diking Upgrades (2020, 2021, 2022)	\$12,216	\$6,802	\$5,414
Flood Protection	Burkeville Utility Improvements (2021, 2022)	3,266	1,529	1,737
Road	Bridge Rehabilitation Program (2019, 2022)	800	23	777
Road	Annual Asphalt Re-Paving Program (2022)	5,032	337	4,695
Sanitary	Steveston Gravity Sewer Replacement and Rehabilitation (2020, 2021, 2022)	7,400	900	6,500
Water	Watermain Replacement Upgrades Program (2021)	6,196	3,570	2,626
<b>Total Key Infrastructure Capital Projects</b>		<b>\$34,910</b>	<b>\$13,161</b>	<b>\$21,749</b>

## BUILDING

The Building Program includes major building construction and renovation projects as well as minor facility upgrades. Table 4 provides the highlights for the key building capital projects.

**Table 4: Key Building Capital Projects (in \$'000s)**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Animal Shelter Replacement (2018)	\$8,000	\$6,041	\$746
Richmond Curling Club - Priority 1 Repairs (2022)	650	-	650
Richmond Ice Centre (2020-2022)	13,700	3,956	9,744
Community Safety Building (2020-2021)	2,310	700	1,540
Richmond Courthouse (2019-2020)	1,932	182	1,750
South Arm Community Centre Infrastructure Renewals (2022)	1,900	-	1,900
Britannia Shipyards Envelope & Mechanical System Renewals (2022)	2,125	71	2,054
Watermania Mechanical and Pool Equipment Renewals (2019, 2022)	3,636	538	3,003
Cultural Centre Annex (formerly Minoru Place Activity Centre) Program - Implementation (2019)	3,326	210	3,090
Minoru Arenas (2019, 2021)	4,580	2,741	1,459
City Hall Infrastructure Replacement (2019-2021)	5,250	978	4,122
Works Yard Improvements (2018-2020, 2022)	6,624	2,247	3,132
Steveston Community Centre and Library (2021)	95,000	355	94,645
<b>Total Key Building Capital Projects</b>	<b>\$149,033</b>	<b>\$18,019</b>	<b>\$127,835</b>

Attachment 1 includes the Q3 2022 Construction Update on Engineering and Public Works Capital Projects as well as the project budget and the scheduled construction completion.

## PARKS

The Parks program includes the development and replacement of parks, trails, community garden and natural areas in Richmond. Key Parks capital projects are summarized in Table 5 below with the project highlights outlined in Attachment 2.

**Table 5: Key Parks Capital Projects (in \$'000s)**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Alexandra Neighbourhood Park (formerly West Cambie Park) (2019)	\$1,770	\$1,379	\$391
Aberdeen Neighbourhood Park – Phase 2 (2018-2019)	2,050	2,034	16
Garden City Lands Phase 2 and 3 (2016-2018)	6,170	3,506	2,664
City-wide Community Gardens (2021)	200	198	2
Minoru Lakes Renewal (2019-2021)	9,810	4,072	5,738
King George Artificial Turf Field Replacement (2021)	850	707	143



**Table 5: Key Parks Capital Projects (in \$'000s) - continued**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Lang Park Completion (2020)	275	145	130
London Heritage Farm Master Plan Phase 1 (2022)	612	129	483
Dog Park Upgrades (2021)	200	79	121
London/Steveston Neighbourhood Park (2017, 2019-2020)	950	669	281
Hollybridge Pier/Middle Arm (2010, 2012, 2015)	2,350	2,054	296
The Gardens Agricultural Park (2015)	1,100	598	502
South Arm Park Renewal (2021)	300	4	296
Playground Improvement & Replacement (2018, 2020, 2022)	1,650	566	1,084
Parks Ageing Infrastructure (2018-2022)	2,720	2,012	708
Parks General Development (2019-2022)	1,725	857	868
Parks Identity Signage Program (2021-2022)	200	41	159
<b>Total Key Parks Capital Projects</b>	<b>\$32,932</b>	<b>\$19,050</b>	<b>\$13,882</b>

## TRANSPORTATION

The Transportation department implements a range of capital projects each year throughout Richmond, including new or widening of existing arterial roads, traffic signals, sidewalks, walkways, bicycle lanes, upgrades to transit-related road infrastructures and traffic safety and traffic calming projects. Table 6 provides the highlights for the key Transportation capital projects.

### Garden City Road Pedestrian and Cyclist Enhancements, Westminster Highway to Lansdowne Road

This project adds separated cycling and pedestrian facilities along a popular cycling route to improve public safety and contribute to the City's long-term objective of providing physical separation between cyclists and motor vehicles along arterial roads. The addition of an extruded curb and paving of a 1.8m wide cycling path have been completed. This adds an additional 350m of separated cycling path to the City network, while maintaining the existing number of vehicle travel lanes. Works have been fully completed in Q3 2022.

### Active Transportation Improvement Program

Through the City's Active Transportation Program, delineators were installed along on-street cycling lanes along Granville Avenue. This feature creates a physical barrier separating cyclists and vehicles, which is proven to improve cyclist safety and reduce collisions. Works were substantially completed in Q2, installing 3.4km of delineators along Granville Avenue from Garden City Road to Railway Avenue.

### Arterial Road Improvement Program

Through the Arterial Road Improvement Program, Transportation has been making improvements to reduce collisions and improve pedestrian and cycling safety at intersections, such as the removal of channelized right-turn islands. At the northwest intersection of Garden City Road and Lansdowne Road, the channelized right-turn lane and corresponding island were

removed and replaced with a standard curb return and pedestrian facilities. A 40m section of the southbound on-street bike lane was also upgraded to an off-street bike path including an additional 25m of boulevard. This project connects to the work on the west side of Garden City Road between Lansdowne Road and Westminster Highway where the paved shoulder was upgraded to a protected multi-use pathway. Two other channelized island removals within this project are slated to be completed in Q1 2023.

**Table 6: Key Transportation Capital Projects (in \$'000s)**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Garden City Road Pedestrian and Cyclist Enhancements, Westminster Highway to Lansdowne Road (2019)	\$1,000	\$793	\$207
Active Transportation Improvement Program (2020)	900	448	452
Arterial Roadway Improvement Program (2020)	800	255	545
<b>Total Key Transportation Capital Projects</b>	<b>\$2,700</b>	<b>\$1,496</b>	<b>\$1,204</b>

## EQUIPMENT

The equipment program includes machinery and vehicles for Public Works (PW), Richmond Fire Rescue and other miscellaneous equipment. Table 7 provides the highlights for the key equipment capital projects.

### Energy Management Projects - Gas Equipment Replacement and Upgrade Phase 1

This project involves an upgrade to the heating and cooling control system equipment at the Steveston Tennis Shed, two buildings within the City's Operation Works Yard, and one building in the Britannia Shipyard. This capital project budget also covers the heating replacement at Thompson Community Centre, which is at the early design stage.

### Vehicle and Equipment Reserve Purchases (Public Works and Corporate Fleet)

The Vehicle and Equipment Reserve Purchases projects in Plan Year 2019 to 2022 are currently in replacement progress. These projects have combined outstanding acquisitions that involve over 70 vehicles and pieces of equipment that have been identified for replacement. As of Q3 2022, 18 of these outstanding units have been completed and 36 units are on order.

### Public Electric Vehicle Charging Expansion

This project involves the installation of 20 charging stations at eight different locations throughout the city. The charging stations are now operational and the project is complete. According to the grant agreement, a final report has been submitted to Natural Resources Canada (NRCan) and the City is awaiting the final tranche of the grant funding from NRCan.

### Fire Vehicle Replacement Reserve Purchases

The Fire Vehicle and Equipment Reserve Purchases projects in Plan Year 2019 to 2022 have a combined outstanding acquisition of four front line vehicles and five support vehicles. The projects are currently in development stage of the required specifications.

Closed Circuit Television for Signalized Intersections

This project is being done in coordination with the Traffic Department. The closed circuit television cameras operate on the fibre optic network. Additional cameras will be implemented based on the timing of the fibre optic network and new traffic signals upgrades in the City. Phase 3 of the project is planned in 2023.

Bylaws License Plate Recognition (LPR) System

The License Plate Recognition project under the Parking Department is near completion. The project is in its final stage and should be fully operational by the end of 2022.

Vehicles for RCMP Detachment Team

The operational requirements for the RCMP detachment include support vehicles to be used by the municipal staff for work related duties only. The acquisition of these vehicles was deferred due to global supply chain issues. The vehicles are currently being sourced with the expectation that they will be electric or hybrid vehicles in line with the Sustainable Green Fleet Policy 2020.

**Table 7: Key Equipment Capital Projects (in \$'000s)**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Energy Management Projects - Gas Equipment Replacement and Upgrade Phase 1 (2019)	\$675	\$7	\$668
Vehicle and Equipment Reserve Purchases (Public Works and Corporate Fleet) (2019-2022)	14,382	5,706	8,676
Public Electric Vehicle Charging Expansion (2019)	700	649	51
Fire Vehicle Replacement Reserve Purchases (2019-2022)	8,297	3,818	4,479
Closed Circuit Television for Signalized Intersections (2018)	2,185	1,281	904
Bylaws License Plate Recognition (LPR) System (2016)	208	172	36
Vehicles for RCMP Detachment Team (2014)	105	-	105
<b>Total Key Equipment Capital Projects</b>	<b>\$26,552</b>	<b>\$11,633</b>	<b>\$14,919</b>

**INFORMATION TECHNOLOGY**

The Information Technology (IT) program includes City Hall computer hardware, software and other miscellaneous IT equipment. Table 8 provides the highlight for the key IT capital projects.

Master Customer Data

There is an increasing expectation from Richmond residents and businesses to access City online services at any time and from any location, and the City's Digital Strategy has provided a wide range of benefits to users including increased availability and access to streamlined processes. The latest initiative to support this objective is the MyRichmond module, MyBusiness, which was launched on July 11, 2022. MyBusiness offers business owners a comprehensive dashboard of information and available services at a glance, allowing them to apply, obtain approvals and pay for business licenses without leaving the comfort of their home or office.

Business Continuity Transition to Laptops

This project invests in the technical infrastructure required to support staff with hybrid work and ensures that the City has the capacity to operate business services during emergency events and planned site interruptions. This project was significant to continuing business operations during the recent COVID-19 pandemic and has mostly completed its deployment, with estimated completion in Q4 2022.

Field Devices

This initiative supports equipping City field workers with devices to securely interface with Public Works asset management systems, allowing remote access and the ability to update service status while working offsite. Completion is expected by Q4 2022.

Oracle RAC Enterprise and Solaris SPARC Server Upgrades

Oracle Real Application Clusters (RAC) are mission-critical database component services used in the City's financial, payroll, taxation, Public Works asset management, identity access management and Geographic Information Systems (GIS). This project will implement a cost-effective, highly available and modernized Oracle Database RAC infrastructure. Equipment has been installed and production database migration is estimated to complete by Q4 2022.

Annual Hardware Refresh

This is a planned annual replacement program for end-of-service City computer hardware, which includes desktops, laptops, printers, monitors, cellular phones and iPads. This approach maintains business productivity, reduces maintenance costs and ensures computer hardware is technically appropriate for the software applications used in City business services and practices. Equipment is scheduled for ongoing replacement during the year.

**Table 8: Key Information Technology Capital Projects (in \$'000s)**

Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Expected Commitments / Work In Progress
Master Customer Data (2015)	\$900	\$321	\$579
Business Continuity Transition to Laptops (2021)	365	283	82
Field devices (2021)	281	204	77
Oracle RAC Enterprise and Solaris SPARC Server Upgrades (2021)	850	782	68
Annual Hardware Refresh (2021-2022)	1,041	393	648
<b>Total Key IT Capital Projects</b>	<b>\$3,437</b>	<b>\$1,983</b>	<b>\$1,454</b>

**CAPITAL PROJECTS EXPECTED TO BE COMPLETED IN NEXT QUARTER**

The following active capital projects are expected to be completed in Q4 2022.

**Table 9: Capital Projects Expected to be completed in Next Quarter**

Program	Project Name (Plan Year)
Infrastructure Program	Active Transportation Improvement Program (2018)
	Active Transportation Improvement Program (2019)
	Annual Asphalt Re-Paving Program - MRN (2021)
	Annual Asphalt Re-Paving Program - Non-MRN (2021)
	Arterial Roadway Improvement Program (2018)
	Boundary Road Drainage Pump Station Upgrade Fronting Costs (2022)
	Cambie Overpass Rehabilitation Project (2020)
	Canal Stabilization and Drainage & Irrigation Upgrades (2021)
	City Centre Cycling Network Plan (2018)
	Drainage Network Ecological Enhancement (2020)
	Fire Hydrant Upgrades (2022)
	Invasive Species Management (2019)
	Neighbourhood Walkway Program (2018)
	Neighbourhood Walkway Program (2019)
	Neighbourhood Walkway Program (2020)
	Pilot Sewer Grease and Heat Recovery Facility (2018)
	Public Works Infrastructure Advanced Design (2019)
	Public Works Minor Capital - Sanitary (2021)
	Public Works Minor Capital - Water (2019)
	Pump Station Resiliency - Pilot Project (2018)
	Railway Crossings and Environmental Works (2018)
	Road Weather Information System (2019)
	South Dike Repair - Gilbert Road Area (2021)
	Steveston Highway & No. 3 Road Pump Station Upgrade (2019)
	Top 20 Collision Prone Intersections- Short-term Improvements (2020)
	Traffic Video and Communication Program (2019)
	Traffic Video and Communication Program (2020)
	Transit-Related Amenity Improvement Program (2019)
	Transit-Related Amenity Improvement Program (2020)
	Transit-Related Roadway Improvement Program (2019)
Water Metering Program (2020)	
Watermain Tie-in and Restoration (2020)	
Building Program	Capital Buildings Project Development Advanced Design (2020)
	City Hall Council Chamber Roof Replacement (2021)
	Thompson Community Centre & Hall Infrastructure Renewals (2021)
	Hamilton Community Centre - HVAC Replacement (2021)
	Library and Cultural Centre Chiller Replacement (2017)
Minor Building Capital Improvement (2019)	
Parks Program	City-Wide Community Gardens (2021)
	Dog Park Upgrades (2021)

**Table 9: Capital Projects Expected to be completed in Next Quarter - continued**

Program	Project Name (Plan Year)
Parks Program	Parks Strategic Ageing Infrastructure Replacement Program (2018)
	Playground Improvement Program (2020)
	Terra Nova Park - Waterfront Development (2013)
Equipment Program	2018 Digital Strategy Implementation (2018)
	Annual Hardware Refresh (2021)
	Annual Hardware Refresh (2022)
	Business Continuity Transition to Laptops (2021)
	Business Process Management Suite (BPMS) (2016)
	Bylaws License Plate Recognition (LPR) System (2016)
	Corporate Website Increased Functionalities (2022)
	Customer Response Management System (CRM) (2016)
	Data Centre Server Refresh / Update (Phase 1 of 2) (2020)
	Data Centre Server Refresh / Update (Phase 2 of 2) (2022)
	Digital Communication Enhancement / Public Participation at Cityhall (2022)
	Field devices (2021)
	Fire Equipment Replacement from Reserve (2020)
	Fire Equipment Replacement from Reserve (2021)
	Public Electric Vehicle Charging Expansion (2019)
	Information Technology
MS SQL Server Refresh (2022)	
Network Refresh for City Facilities (Phase 2 of 3) (2021)	
Network Refresh for City Facilities (Phase 3 of 3) (2022)	
Oracle RAC Enterprise and Solaris SPARC Server Upgrades (2021)	
Program Registration & Facility Booking Solution (2017)	
Snow and Ice Response Tracking (2022)	
Child Care/Public Art Program	Child Care - Administration (2021)
	Child Care Projects - City Wide (Projects) (2018)
	Public Art Program (2016)
	West Cambie Neighbourhood Park Public Art Project (2018)
	Public Art Program (2019)
	Richmond Oval Public Art (2005-2008)

**CAPITAL PROJECTS CLOSED IN THE QUARTER**

The following active capital projects were closed in the third quarter. Any unspent funding will be returned to the original source (e.g. Reserve Fund) for distribution toward future projects.

**Table 10: Projects Closed in the Quarter Ended September 30, 2022 (in \$'000s)**

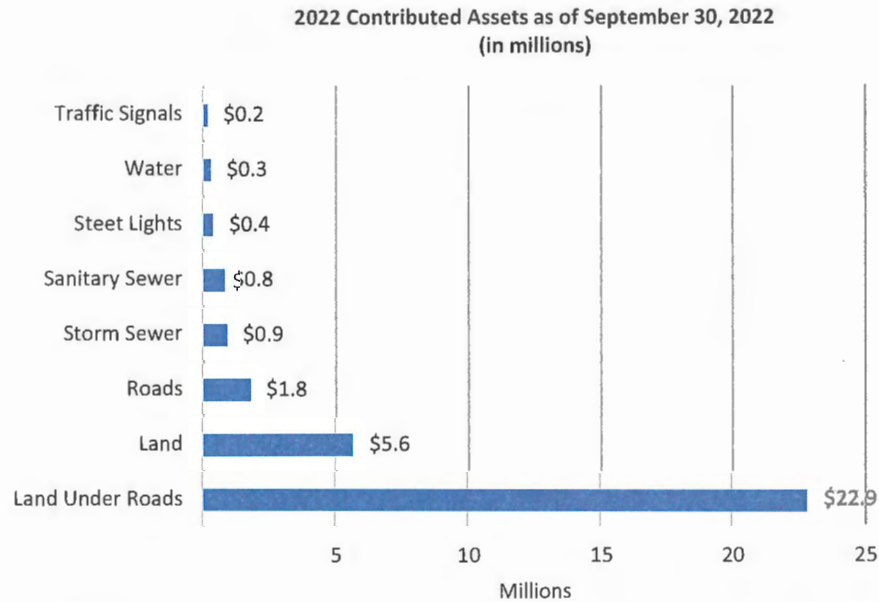
Project Name (Plan Year)	Budget	Actuals as at September 30, 2022	Remaining Budget
Gateway Theatre Infrastructure (2017, 2018)*	\$4,395	\$4,305	\$90
Gateway Theatre Infrastructure Replacements Phase 2 (2019)	3,700	3,223	477
Minoru Aquatics Centre Demolition (2021)	2,700	1,668	1,032
Library Cultural Centre Conveyance Replacements (2019)	709	496	213
2019 Capital Buildings Project Development Advanced Design (2019)	602	503	99
Citywide Sidewalk and Street Light Replacement Program (2021)	500	500	-
Citywide Sidewalk and Street Light Replacement Program (2020)	500	499	1
Network Infrastructure Core Refresh (2019)	481	479	2
Playground Improvement Program (2021)	400	400	-
Street Light LED Upgrade Program (2020)	400	398	2
Public Works Minor Capital - Roads (2020)	400	398	2
Brazilian Elodea Management (2018)	223	223	-
Riverport and Cook Community Gardens (2020)	180	180	-
<b>Total</b>	<b>\$15,190</b>	<b>\$13,272</b>	<b>\$1,918</b>

\* Gateway Theatre Infrastructure includes Gateway Theatre Main Stage Lighting Replacement (2017) with an approved budget of \$385,000, Gateway Theatre Infrastructure Replacements - First Stage (2018) with an approved budget of \$3,337,000 and Gateway Theatre Lighting Infrastructure and Systems Renewal (2018) with an approved budget of \$673,400.

**CONTRIBUTED ASSETS**

Included in the Consolidated 5 Year Financial Plan (2022-2026) Bylaw was an estimated \$54.8M for assets that are transferred to the City by developers and third parties. Under the Public Sector Accounting Standards, these are recorded as revenue at the fair market value at the time of contribution. The following assets totalling \$32.9M have been recorded as of September 30, 2022:

**Figure 2 – Current Year – To – Date Contributed Assets as at September 30, 2022**



Land Under Roads are roads dedicated to the City as part of rezoning applications and consist of the following significant asset contributions:

- A strip of land along the south side of Lansdowne Road and the east side of Minoru Boulevard through the rezoning application for the property at 5740 Minoru Boulevard. The fair market value is recorded at \$9.5M.
- The lane on the east side of Minoru Boulevard is part of the rezoning application for the property at 6533 Park Road and is recorded at the fair market value of \$8.1M.
- Two strips of land along the north and south sides of the property at 8091 Capstan Way are recorded at the fair market value of \$4.3M.

Included in Land are:

- The linear parkland along the north side of the property at 5740 Minoru Boulevard recorded at the fair market value of \$4.1M.
- The linear parkland along the east side of the property at 23400 - 23500 Gates Avenue recorded at the fair market value of \$1.5M.

**Financial Impact**

None.



**Conclusion**

This report provides information on active capital projects that were previously approved by Council. All active capital projects are currently within budget.



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Manager, Tangible Capital Assets  
(604-276-4223)

JH :sx

- Att. 1: Q3 2022 Construction Update on Engineering and Public Works Capital Projects
- 2: Q3 2022 Construction Update on Parks Capital Projects

## **Q3 2022 Construction Update on Engineering and Public Works Capital Projects**

### **Flood Protection**

#### **Disaster Mitigation and Adaptation Fund Infrastructure Grant - Drainage Pump Station and Diking Upgrades**

The City secured \$13.8 million from the Federal Government through the Disaster Mitigation and Adaptation Fund Grant to contribute towards the Flood Protection Program. This project includes the upgrades of various drainage pump stations and diking upgrades. The construction of the South Dike Upgrades from No. 3 Road to west of No. 4 Road was substantially completed in July 2022 and the Steveston Highway and Gilbert Road drainage pump station was substantially completed in August 2022. Construction for the South Dike Upgrade at No. 9 Road is on schedule with completion anticipated for the end of 2022. The design of the South Dike Upgrade at No. 4 Road to No. 5 Road is currently underway and construction is planned to commence in 2024.

#### **Burkeville Utility Improvements**

This project consists of upgrades to the City's storm sewer capacity. Ageing watermain and sanitary sewers will also be upgraded at the same time to minimize ongoing disruption to residents and overall construction costs. This project is being constructed in phases and is scheduled to be completed in approximately five years. Phase 3 was completed in Q3 2022, Phase 4 construction is currently underway and is located in the north eastern section of the neighbourhood. Completion is estimated for Q2 2023.

### **Roads**

#### **Bridge Rehabilitation Program**

As part of the bridge replacement program, the wooden bridge crossing the canal on the West Dyke Trail at Springhill Crescent has been identified for renewal. The structure was reaching its end of service life, and was showing signs of wear. The construction of both east and west abutments, secured with piles, and adjacent retaining walls, have been completed. The new steel bridge is anticipated to be installed before the end of this year. The finished structure will include a ramp, a feature not present in the existing structure, to improve accessibility on the trail.

#### **Annual Asphalt Re-Paving Program**

The annual Paving Program works have commenced and enabling concrete works are ongoing. Upcoming locations include: Finlayson Drive from Gagnon Place to McLennan Avenue, Great Canadian Way from Sea Island Way to Bridgeport Road, No.6 Road from Highway 91 to Maycrest Way, Fraserwood Place from Westminster Highway to Gordon Way, and No. 3 Road from Granville Avenue to Blundell Road. The paving program is scheduled to be complete in Q2 2023.

## **Sanitary Sewers**

### **Steveston Gravity Sewer Replacement and Rehabilitation**

This project includes rehabilitation and upgrades to the City's sanitary sewer in the Steveston Area. This project will be performed in phases over a 5 to 10 year period. This project will utilize various trenchless technologies as well as limited open cut methods of installation, which will reduce disruption to nearby residents and businesses during construction. The 2022 phase of rehabilitation includes sanitary works in the several back laneways where trenchless installation techniques can be utilized, and is scheduled to commence in Q1 2023.

## **Water**

### **Watermain Replacement Upgrades Program**

This project replaces and upsizes ageing watermains at the end of their service life with PVC pipes, in line with the City's Ageing Infrastructure Replacement Strategy. This will minimize unplanned maintenance and improve fire protection. City crews have commenced work in the Nevis and Petts neighborhood, including replacement of the watermain on Williams Road between Gilbert Road and No. 3 Road. Construction will be completed by Q2 2023. Construction of new watermain under this program will continue in early 2023.

## **Buildings**

### **Richmond Animal Shelter**

The existing 4,580 sq. ft. facility was updated and a new 1,600 sq. ft. addition was completed in Q1 2022. Animals were transitioned to their new spaces in Q2 2022 and the grand opening ceremony was held on July 22, 2022.

### **Richmond Curling Club**

The Richmond Curling Club requires significant repairs to the building envelope to stop current water ingress and prevent future water damage. The repair work will include roofing works and the replacement of various building envelope components including drains, window sills, and doors. Additionally, several critical pieces of mechanical equipment will be replaced with new higher efficiency units to ensure the health and safety of all occupants and visitors. Construction is anticipated to complete by Q2 2023.

### **Richmond Ice Centre**

Richmond Ice Centre is a 155,000 sq. ft. facility that includes six ice rinks, change rooms, restaurant and concession, as well as retail spaces. Existing ageing equipment and infrastructure will be replaced with new and more efficient alternatives. This includes the roof, ice rink floors and various mechanical equipment. The equipment and infrastructure replacements will

minimize unplanned maintenance and improve life and safety for the users and operators. The construction started in Q1 2022 and is anticipated for completion in Q4 2023. To enhance the public experience, this project is multi-phased to minimize impact on programming, operations and service levels.

#### Community Safety Building

The last phase of the heat pump replacement works was completed in Q2 2022. This work will prevent service disruption and potential closure for this building.

The design for the emergency power upgrades project started in Q4 2022 with construction anticipated to complete in Q2 2023. Fuel tanks and electrical panels will be connected to the emergency power supply to prevent service disruption in case of an emergency.

#### Richmond Courthouse

The two-storey, 64,000 sq. ft. Courthouse and Annex buildings were originally built in 1975 and include spaces for the Attorney General Office, Richmond Community Corrections and Richmond Family Justice Centre. Ageing rooftop mechanical equipment and the electrical panel will be replaced with new and more efficient alternatives. Structural seismic upgrades will be done to enhance life and safety for the users and operators. Perimeter drainage system improvements, floor slab repairs and releveling and minor building envelope repairs will also be completed. Design was completed in Q1 2022 and construction is underway, with completion estimated for Q3 2023.

#### Community Amenity Contributions

Design and construction for the following facilities are the responsibility of the developers:

- Hummingbird Child Care - Aspac Development Ltd.  
(Construction completed).
- Capstan Community Centre - Yuanheng Holdings Ltd.  
(Construction anticipated to begin in Q1 2023).

#### South Arm Community Centre

South Arm Community Centre is located on Williams Road between Garden City and No. 3 Road. Multiple building components within the facility will be replaced with new energy efficient equipment and components. The renewals will include but are not limited to fire alarm system replacement, flooring replacement, and HVAC upgrades. Construction is scheduled to begin in Q1 2023, with construction completion anticipated in Q4 2023.

#### Britannia Shipyards

Within the Britannia Shipyard National Historical Site, there are many buildings that require exterior maintenance, roofing and cladding repairs. Additionally, a new dust extraction system

will be installed in the Richmond Boat Builders Building, restoring the building's use as a functional workshop. Construction will begin in Q1 2023 with anticipated completion in Q4 2023.

#### Watermania

Watermania is part of the Riverport Sports and Entertainment Complex, and offers a complete aquatic and fitness experience. Multiple building components in this facility will be replaced with new energy efficient equipment and components. Improvements will include upgrades to heat exchangers, pool equipment, building envelope, and all washrooms and change rooms. Construction completion is anticipated in Q4 2023.

#### Richmond Cultural Centre Annex

Richmond Cultural Centre Annex will be repurposed to serve as a Community Arts Programming and Education space. The project includes the renovation of interior spaces to accommodate programming for two dance studios (with ancillary spaces), a pottery studio, a media arts studio, three multipurpose program rooms (one with a workshop), flex lobby space, reception and administration offices. This project is partially funded by the Provincial and Federal Government through the Investing in Canada Infrastructure Program – Community, Culture and Recreation Program. Construction has commenced, following decommissioning of the space, previously occupied by BC Housing as an Emergency Response Centre. The new Richmond Cultural Centre Annex is estimated to complete by Q2 2023.

#### Minoru Arenas

Building infrastructure renewals and replacements including mechanical and electrical upgrades, life and safety equipment upgrades, and architectural improvements of the mezzanine viewing area and change rooms are complete.

#### City Hall

The green roof membrane above Council Chambers and the fifth floor terrace roof failed and was leaking. Roof replacement work is complete.

In addition, the electrical room cooling units, Council Chambers fan coil and hot water control valves at City Hall will be replaced with modern energy efficient systems. Most of the work will occur within unoccupied spaces such as the main mechanical and electrical rooms and will have minimal disruption to normal City operations. Other work includes replacement of the sewage ejector pump, renewal of the underground parking lines and replacement of various life-safety devices. Construction completion is anticipated by Q1 2023.

#### Works Yard

Buildings in general at the Works Yard have aged beyond their expected lifespan. In advance of a broader rebuilding program being finalised and funded, there are many building components within each of the active Works Yard facilities that require replacement in order to maintain

operability. Design is complete and construction is in progress. Construction is estimated to complete by the end of 2022.

Design has commenced for electrical upgrades and installation of new Electric Vehicle (EV) infrastructure with anticipated construction completion in Q4 2023.

Steveston Community Centre and Library

Following approval of the Form and Character, design development is progressing for this priority Major Facility Phase 2 project. The design will be innovative, sustainable, inclusive and a model of wellness, and be based on the guiding principles established for the project, including Richmond's Enhanced Accessibility Design Guidelines, Leadership in Energy and Environmental Design (LEED) Gold Certification, and the City's Circular Economy Principles.

Enabling works for site preparation of the new, three-storey, 60,350 sq. ft. facility has commenced. Construction of the new facility is anticipated to be complete by Q1 2026.

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
<b>INFRASTRUCTURE - ENGINEERING</b>				
<b>ROADS</b>				
1	No. 4 Road Reconstruction from Blundell Road to Granville Ave (2018)	Granville Avenue to Blundell Road	\$2,786	Complete
	Box Culvert Repair (2020)			
2	Alderbridge Way Multi-Use Pathway, No. 4 Road to Shell Road (2018)	Alderbridge Way Multi-Use Pathway (MUP) - Shell Road to No. 4 Road	\$1,200	Complete
3	Arterial Roadway Improvement Program (2019)	Railway Greenway - Intersection Improvements for Pedestrians and Cyclists at Blundell, Francis, and Williams	\$506	Complete
4	Active Transportation Improvement Program (2018)	Charles Street MUP - Sexsmith to Bridgeport Canada Line Station, Browngate Road, Garden City Road (Francis Rd-Williams Rd): rebuild MUP on west side	\$2,000	Complete
	Active Transportation Improvement Program (2019)			
5	Annual Asphalt Re-Paving Program - MRN (2021)	Annual asphalt re-paving	\$1,589	Q4 2022
6	Annual Asphalt Re-Paving Program - Non-MRN (2021)	Annual asphalt re-paving	\$3,344	Q4 2022
7	Steveston Highway Multi-Use Pathway, Shell Road to Mortfield Gate (2019)	Steveston Highway Multi-Use Pathway – Shell Road to Mortfield Gate	\$2,410	Q4 2023
8	Arterial Roadway Improvement Program (2018)	River Road Sidewalk - No. 6 Road to Burdette Street, Sidewalk Upgrades - Lucas at No. 3 Road	\$856	Q2 2023
	Arterial Roadway Improvement Program (2019)			
9	Cambie Road / No. 5 Road – Intersection Improvements (2020)	Intersection safety improvement at Cambie Road and No. 5 Road, including Left Turn (LT) lanes on all 4 legs and MUPs	\$2,760	Q3 2024
10	Bridge Rehabilitation Program (2019)	Various locations Citywide including West Dike Trail Bridge and Bird Road Bridge	\$300	Q1 2023
11	Annual Asphalt Re-Paving Program - MRN (2022)	Annual asphalt re-paving	\$1,621	Q2 2023

	<b>Project Name</b>	<b>Scope of Work</b>	<b>Capital Funding (x1000)</b>	<b>Scheduled Construction Completion</b>
12	Annual Asphalt Re-Paving Program - Non-MRN (2022)	Annual asphalt re-paving	\$3,411	Q2 2023
13	Steveston Highway Multi-Use Pathway, Mortfield Gate to No. 2 Road (2020)	Steveston Highway Multi-Use Pathway - Mortfield Gate to No. 2 Road	\$6,600	Q4 2023
14	Street Light LED Upgrade Program (2022)	City-wide Light Emitting Diode (LED) street light replacement program	\$490	Q3 2023
<b>DRAINAGE</b>				
15	Steveston Highway & No. 3 Road Pump Station Upgrade (2019)	Upgrades to the existing drainage pump station at Steveston Highway and No. 3 Road	\$2,439	Complete
16	Burkeville Utility Improvements Drainage (2021)	Burkeville Drainage Upgrades (Third phase of construction)	\$2,026	Complete
17	Laneway Drainage Upgrade (2021)	Laneway drainage upgrade at Railway Avenue East Lane	\$800	Complete
18	Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2020)	First phase of drainage pump station upgrades and perimeter dike raising design including pump stations at Steveston Highway and Gilbert Road, and south dike upgrades from No. 3 Road to Finn Slough	\$4,516	Complete
19	Storm Main Drainage Upgrade (2021)	Drainage improvements at the intersection of Gilbert Road and Steveston Highway	\$950	Q4 2023
20	Laneway Drainage Upgrade (2022)	Ashwood Drive/Francis Road Lane and Seaton Road North Lane	\$1,183	Q1 2023
21	Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2021)	Second phase of drainage pump station upgrades and perimeter dike raising design including dike upgrades from No. 3 Road to Finn Slough, and dike upgrades from No. 9 Road to Dyke Road	\$5,000	Q4 2023
22	Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2022)	Third phase of drainage pump station upgrades and perimeter dike raising design including dike upgrades from No. 4 Road to No. 5 Road	\$2,700	Q4 2024
<b>SANITARY</b>				
23	Hamilton Area Sanitary Sewer and Pump Station (2020)	Sanitary pump station located in Hamilton VLA Park	\$2,800	Complete
24	Sanitary Sewer Tie-in and Restoration (2021)	Sanitary sewer tie-in and restoration	\$150	Q2 2023



	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
25	Steveston Gravity Sewer Replacement and Rehabilitation (2020)	Multi-year sanitary rehabilitation and upgrade program in the Steveston area	\$7,400	Q4 2024
	Gravity Sewer Rehabilitation and Upgrades (2021)			
	Steveston Sanitary Sewer and Hammersmith Forcemain Rehabilitation (2022)			
<b>WATER</b>				
26	Watermain Replacement Upgrades Program (2020)	Watermain Replacement Program - Monteith Area	\$5,793	Complete
27	Thompson Gate Pressure Reducing Valve Station (2020)	Water pressure reducing valve station to reduce Metro Vancouver's distribution pressure to local pressure to provide additional water service to the East Richmond area	\$1,500	Q1 2023
28	Watermain Tie-in and Restoration (2021)	Watermain tie-in and restoration	\$200	Q2 2023
29	Watermain Replacement Upgrades Program (2021)	Watermain Replacement Program - Nevis/Petts Area, Danube/Minler Area, Springfield Area, No. 3 Road, Terra Nova Park and Granville Avenue	\$6,196	Q4 2023
30	Watermain Replacement Upgrades Program (2022)	Watermain Replacement Program - Sealord Neighbourhood 2, No. 7 Road, and Montego/Aztec	\$5,566	Q4 2024
<b>BUILDINGS - PROJECT DEVELOPMENT</b>				
31	Minoru Arenas System Renewals (2019)	Mechanical and Life Safety Renewals	\$4,580	Q4 2023
	Minoru Arenas - Mechanical & Life Safety System Renewals (2021)			
32	City Hall Council Chamber Roof Replacement (2021)	Council Chamber Roof Replacement	\$1,640	Complete
33	Community Safety Building - Mechanical Component Replacements and Associated Works (2020)	Components Replacement	\$1,420	Complete

	<b>Project Name</b>	<b>Scope of Work</b>	<b>Capital Funding (x1000)</b>	<b>Scheduled Construction Completion</b>
34	Hamilton Community Centre - HVAC Replacement (2021)	Heating, Ventilation, and Air Conditioning (HVAC) Replacements	\$500	Complete
35	Works Yard Mechanical Replacements (2019)	Mechanical Systems Replacement	\$1,707	Q4 2022
36	Works Yard Ageing Mechanical and Building Envelope Infrastructure Replacement (2018)	Site wide infrastructure replacements	\$2,935	Q4 2022
	Works Yard Infrastructure Renewals - Phase 1 - Design (2022)			
37	Minor Capital Buildings Project Development	36 projects (roof replacement, flooring, mechanical equipment, etc.)	\$4,613	Q4 2022
38	City Hall Upgrades and Repairs (2019)	Replacement Components and upgrades	\$3,610	Q1 2023
	City Hall - Replacement of Mechanical, Life/Safety, and Envelope Components and Associated Works (2020)			
39	Community Safety Building Emergency Power and Interior Upgrades (2021)	Emergency Power Upgrades	\$890	Q2 2023
40	Richmond Curling Club - Priority 1 Repairs (2022)	Infrastructure Repairs and Replacements	\$650	Q2 2023
41	Cultural Centre Annex (previously known as Minoru Place Activity Centre) Program - Implementation (2019)	Repurposing	\$3,326	Q2 2023
42	Richmond Courthouse - Mechanical Components Replacements, Envelope Renewals, Electrical Replacements, Structural Renewals and Associated Works (2020)	Infrastructure Replacements	\$1,932	Q3 2023
	Richmond Courthouse - Mechanical Components Replacements, Envelope Renewals, Electrical Replacements, Structural Renewals and Associated			

	Works (2019)			
	<b>Project Name</b>	<b>Scope of Work</b>	<b>Capital Funding (x1000)</b>	<b>Scheduled Construction Completion</b>
43	Britannia Shipyards Envelope & Mechanical System Renewals (2022)	Infrastructure and Envelope Upgrades	\$2,125	Q4 2023
44	Works Yard Electrical Service Upgrade and EV Infrastructure (2020)	Electrical Upgrade and Electric Vehicle (EV) Infrastructure	\$1,982	Q4 2023
45	South Arm Community Centre Infrastructure Renewals (2022)	Infrastructure Renewals	\$1,900	Q4 2023
46	Richmond Ice Centre Infrastructure Renewals - Phase 1 (2020)	Infrastructure Renewals	\$13,700	Q4 2023
	Richmond Ice Centre Renewals - Phase 2 Design and associated works (2021)			
	Richmond Ice Centre Renewals - Phase 2 Construction and associated works (2022)			
47	Watermania Ageing Mechanical and Building Envelope Infrastructure Replacement Phase 2 (2019)	Mechanical and Envelope Replacement	\$1,341	Q4 2023
48	Watermania Mechanical and Pool Equipment Renewals (2022)	Infrastructure Renewals	\$2,295	Q4 2023
49	West Richmond Community Centre - HVAC and Mechanical renewals (2021)	HVAC Renewals	\$1,330	Q4 2023
50	Richmond Nature Park Infrastructure Renewals (2022)	Infrastructure Renewals	\$4,775	Q1 2024
51	Steveston Community Centre and Library (2021)	Replacement of Existing Facility	\$95,000	Q1 2026
	Steveston Community Centre and Library Contingency (2021)			

### **Q3 2022 Construction Update on Parks Capital Projects**

#### Alexandra Neighbourhood Park

Alexandra Neighbourhood Park is located in the newly established Alexandra neighbourhood, at the intersection of Odlin Road and May Drive. Construction was completed in **Q2 2022** and the official park opening event was held on Wednesday, June 8, 2022. The one-year maintenance period is underway, and the project team will be working with the contractor to monitor and address outstanding deficiencies during this time. In response to feedback received from local residents, staff have directed the contractor to replace crushed gravel surfaces adjacent to the playground and table tennis areas with poured-in-place safety rubber surfaces and add timber bench tops to all gabion walls. The contractor has completed the rubber surfacing work and the gabion bench retrofits are expected to be completed in **Q4 2022**.

#### Aberdeen Neighbourhood Park – Phase 2

Aberdeen Neighbourhood Park is located at the intersection of Cambie Road and Hazelbridge Way. Construction was completed in **Q3 2022** and the official park opening event was held on Wednesday, July 27, 2022. The one-year maintenance period is underway and the project team will be working with the contractor to monitor and address outstanding deficiencies during this time. The public washroom is currently closed, awaiting occupancy to be granted by Building Approvals. All required documentation has now been submitted and the building is anticipated to be open to the public in **Q4 2022**.

#### Garden City Lands (GCL)

An extensive contaminated sites testing program commenced in **Q4 2021** with a Qualified Environmental Professional (QEP) engaged. The QEP took soil samples for testing and further analysis. Staff have installed benches along the Perimeter Recreational Trail, and installation of additional native tree and shrub plantings was finished in **Q2 2022** along the same trail, in the vicinity of No. 4 Road and a portion of Alderbridge Way. Planting along Westminster Highway and Garden City Road is expected to proceed in **Q4 2022**. Soil importation from the Polygon Talisman site for the KPU farm commenced in **Q2 2022** and will continue into **Q4 2022**. Soil screening was completed in **Q3 2022** to ensure the highest quality of soil is placed on site. The Perimeter Recreational Trail will remain open to residents to enjoy the site during this time.

#### City-wide Community Gardens

An expansion of the Cook Community Gardens was completed in **Q2 2022** with 40 new community garden plots, including two wheelchair accessible plots. Three new community gardens along the Railway Greenway were substantially completed in **Q3 2022** with 96 new community garden plots, including two wheelchair accessible plots. Amenities such as picnic tables, chairs and bike racks are anticipated to be installed by the end of **Q4 2022**.

#### Minoru Lakes Renewal

Construction started in late **Q1 2022**. The lakes were dewatered in compliance with environmental regulations. In **Q2** and **Q3 2022**, demolition and earthworks were completed with construction prioritizing lakes infrastructure upgrades and new embankments. Civil infrastructure upgrades are approaching completion, with remaining waterworks scheduled for

mid **Q4 2022**. Finish surfaces including boardwalks, stonework, and pathways are underway and will proceed through **Q4 2022**. New mechanical components, furnishings, and remaining finish surfaces are on target for **Q1 2023** including plazas, benches, picnic tables, light poles, and planting.

#### King George Park – Artificial Turf Field Replacement

Synthetic sports fields generally last eight to 12 years depending on the usage and the maintenance of the fields. Originally constructed in 2008, the King George field has now been replaced with a new synthetic sports surface and a shock attenuation base-pad for extended durability and performance playability. The new sports surfacing system also includes a thermoplastic elastomer (TPE) infill with enhanced environmental and playability benefits that replaced the old crumb rubber infill. The project was completed in **Q3 2022** with use of the renewed field starting on Saturday August 13, 2022.

#### Lang Park Redevelopment Plan – Phase 3 Completion

The current construction phase of the Lang Park Redevelopment Plan includes an overhead shelter, table tennis tables and a community book exchange kiosk as part of the approved park program to address the needs of the community. Materials for the shelter's roof assembly were purchased in late **Q2 2022** for work to proceed in **Q3 2022**. The project is planned for completion in **Q4 2022**.

#### London Heritage Farm – Master Plan Phase 1

Council approved a Heritage Alteration Permit (HAP) in **Q1 2022**. Components of the project were completed in **Q2 2022** including an apiary expansion, chicken run renovations and heritage garden planting. Remaining site improvements include pathway upgrades, new furnishings, updated signage, renewed heritage displays and a new boardwalk. To minimize impact to gardeners and site programming, construction started in late **Q3 2022**. Earthworks and pathway improvements are underway and will be completed in **Q4 2022**. The boardwalk and a site arrival kiosk, which were not included in the previous HAP, will be presented to Council for consideration as part of an upcoming HAP.

#### Dog Park Upgrades

The existing Steveston Community Park Dogs Off-leash Area upgrades will include improved drainage, surfacing, play features, tree planting, site furnishings and a drinking fountain. Detailed design started in **Q1 2022**. Public consultation and engagement by staff within the Steveston Community took place in **Q2 2022**. Construction started in late **Q3 2022** and is anticipated to be completed in **Q4 2022**. A temporary off-leash area west of Fentiman Place was installed and is open for the duration of the closure.

### London/Steveston Neighbourhood Park

London/Steveston Neighbourhood Park enhancements are being implemented in phases. The first phase was completed in 2018 and included greenway connections to No. 2 Road. The second phase, completed in 2019, included a pathway loop, trees, landforms and stormwater detention ponds. The third phase of the project included a playground, half-court basketball plaza and park shelter. Construction of the playground and the half-court basketball plaza were completed in 2020. The park shelter was installed in 2021. The fourth and final phase of enhancements includes an off-leash dog park. The off-leash area will include a variety of surface treatments, fencing, play elements, tree planting and site furnishings. Preliminary planning and design work is expected to commence in **Q4 2022**.

### Hollybridge Pier/Middle Arm

This project is the continuation of the Oval West waterfront development as part of the Middle Arm waterfront with a new public pier at the end of Hollybridge Way. The project has been halted as the City has received a final decision letter from the Ministry of Forest, Lands, Natural Resources Operations and Rural Development (FLNRORD), stating that the City's application to construct a public pier has been rejected. **Further consultation is required for the potential next steps to move the project forward.**

### The Gardens Agricultural Park

Rehabilitation of the existing park features has been completed, including pathways, a bridge, planting and site furnishings. The northern section of the park was previously closed off to the public for safety reasons, and has now been reopened following completion of pathway and landscape improvements. As the Province has recently announced the approval of the George Massey Crossing Project, staff will study its impact to the implementation of the approved park concept.

### South Arm Community Park Renewal

South Arm Community Park Renewal includes a new playground, enhanced trail connections, a new plaza, expanded picnic areas, updated furnishings and shade trees. Detailed design for these elements and the new playground are complete. Construction is anticipated to start in **Q4 2022** and be complete by **Q2 2023**, depending on weather.

### Playground Improvement and Replacement

- South Arm Community Park Playground – Construction is expected to start in **Q4 2022**.
- Steveston Community Park Playground Renewal (detailed design) – A staff report on the Steveston Community Park Playground Next Steps received Council support in **Q1 2021**. The RFP was issued to market in **Q1 2022** and the contract was awarded in **Q2 2022**. Detailed design is underway.
- Playground Replacement – Great Cannery West site survey was completed in **Q2 2022**. Site surveys scheduled for Odlinwood and Heather/Dolphin for **Q4 2022**. Planning and design will proceed into **Q1/Q2 2023** with construction intended from **Q3/Q4 2023** for the playground replacement program.

### Parks Ageing Infrastructure

- No. 3 Road Pier – A conditional assessment of the pier was completed in 2021. Minor repairs to the piled foundation was completed in **Q4 2021**; however, more damage has been identified due to storms experienced this past fall and winter season. Further repairs to the sheer boom and piled dolphins is now anticipated for **Q4 2022**.
- No. 2 Road Pier – A structural conditional assessment was completed in August 2018. Phase 1 repairs for the pile foundation were completed in **Q3 2020**. Replacement of the perimeter rail fence was completed in **Q4 2020**. Planning for Phase 2 of the pile foundation replacement is anticipated for 2023 when funding is available through the 5 Year Capital Planning process.
- King George Park caretaker's house and public washrooms drainage upgrades have been substantially completed in **Q1 2022**. Repairs to the pathways and sidewalks for the new drainage are anticipated for completion in **Q4 2022**.

### Parks General Development

- Terra Nova Park – Phase 1 of the new fencing around the community gardens was completed in **Q2 2022**. Planning for Phase 2 is underway.

### Parks Identity Signage Program

This project consists of the design and fabrication of various Park and Open Space signage including wayfinding and identity signs. Completed sites for the signage include various neighbourhood park locations in the Thompson area, e.g., Brighthouse, Dover, Gibbons, Thompson, McCallan, Terra Nova School, Terra Nova South and Quilchena.

Fabrication and installation of new bases and signs are currently underway for Birch, Blundell, General Currie, Gilmore, Grauer, Katsura, McKay, Morris, Palmer and Paulik parks. An additional 12 new park identification locations are being reviewed and site plans are being developed for parks west of No. 2 Road between Francis Road and Williams Road. Additional works are also in progress for Garden City Park Arboretum interpretation signage upgrade.