



City of Richmond

Report to Committee

To: Finance Committee
From: Ivy Wong, CPA, CMA
 Acting Director, Finance

Date: August 4, 2021
File: 03-0975-01/2021-Vol
 01

Re: Active Capital Projects Information - 2nd Quarter June 30, 2021

Staff Recommendation

That the staff report titled, "Active Capital Projects Information – 2nd Quarter June 30, 2021", dated August 4, 2021 from the Acting Director, Finance be received for information.

Ivy Wong, CPA, CMA
 Acting Director, Finance
 (604-276-4046)

Att. 2

REPORT CONCURRENCE		
ROUTED TO:	CONCURRENCE	CONCURRENCE OF GENERAL MANAGER
Arts, Culture & Heritage	<input checked="" type="checkbox"/>	 Acting GM, F&CS
Community Social Development	<input checked="" type="checkbox"/>	
Engineering	<input checked="" type="checkbox"/>	
Facility Services & Project Development	<input checked="" type="checkbox"/>	
Fleet	<input checked="" type="checkbox"/>	
Information Technology	<input checked="" type="checkbox"/>	
Parks Services	<input checked="" type="checkbox"/>	
RCMP	<input checked="" type="checkbox"/>	
Real Estate Services	<input checked="" type="checkbox"/>	
Recreation & Sport	<input checked="" type="checkbox"/>	
Roads & Construction	<input checked="" type="checkbox"/>	
Sewerage & Drainage	<input checked="" type="checkbox"/>	
Sustainability & District Energy	<input checked="" type="checkbox"/>	
Transportation	<input checked="" type="checkbox"/>	
SENIOR STAFF REPORT REVIEW	INITIALS: 	APPROVED BY CAO

Staff Report

Origin

Active Capital Project Information for the 2nd Quarter (ended June 30, 2021) is provided to the Finance Committee for information purposes. This report includes the approved 2021 Capital Budget 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 approved in the 2021 budget and other previously approved projects that 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. Therefore, these projects are presented to Council prior to final approval.

The approved 2021 Capital Budget of \$100.3M (excluding internal transfers and debt repayments) and other previously approved active capital projects are summarized by program in Table 1. The current balance committed to active capital projects is \$388.8M.

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

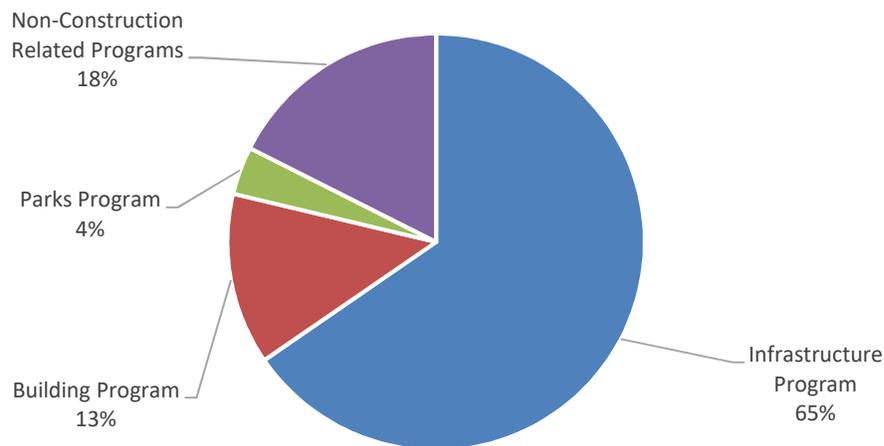
Program	Plan Year	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
Infrastructure Program	2021	\$47,454	\$2,006	\$45,448
	2020	69,500	22,707	46,793
	2019	33,015	18,402	14,613
	2018	81,121	60,345	20,776
	2017 & older	50,187	38,071	12,116
Infrastructure Program Total		\$281,277	\$141,531	\$139,746
Building Program	2021	11,440	70	11,370
	2020	19,493	2,926	16,567
	2019	20,713	7,689	13,024
	2018	56,777	22,533	34,244
	2017 & older	121,008	106,551	14,457
Building Program Total		\$229,431	\$139,769	\$89,662
Parks Program	2021	12,898	25	12,873
	2020	11,150	1,693	9,457
	2019	12,322	3,351	8,971
	2018	10,430	2,678	7,752
	2017 & older	30,456	21,020	9,436
Parks Program Total		\$77,256	\$28,767	\$48,489
Construction Related Programs		\$587,964	\$310,067	\$277,897
Affordable Housing Program	2021	650	-	650
	2020	400	23	377
	2019	425	-	425
	2018	400	-	400
	2017 & older	4,800	90	4,710
Affordable Housing Program Total		\$6,675	\$113	\$6,562
Child Care Program	2021	116	-	116
	2020	110	21	89
	2018	100	5	95
Child Care Program Total		\$326	\$26	\$300
Equipment Program	2021	7,725	636	7,089
	2020	6,409	2,260	4,149
	2019	14,386	3,898	10,488
	2018	9,610	7,545	2,065
	2017 & older	13,561	9,596	3,965
Equipment Program Total		\$51,691	\$23,935	\$27,756
Land Program	2021	10,000	-	10,000
	2020	10,000	1,760	8,240
	2019	10,000	-	10,000
	2018	10,000	-	10,000
	2017 & older	42,044	14,555	27,489
Land Program Total		\$82,044	\$16,315	\$65,729
Public Art Program	2021	185	69	116
	2020	745	451	294
	2019	563	144	419
	2018	1,125	373	752
	2017 & older	4,709	4,191	518
Public Art Program Total		\$7,327	\$5,228	\$2,099
Contingent External Contribution	2021	8,470	-	8,470
Contingent External Contribution Total		\$8,470	\$-	\$8,470
Non-construction Related Programs		\$156,533	\$45,617	\$110,916
Grand Total		\$744,497	\$355,684	\$388,813

An estimate of \$10M was included in the 2021 Capital Plan (2021-2025 Financial Plan Bylaw) for external grants or contributions that may be received throughout the year. Funding is transferred to the approved applicable projects only when funding is confirmed. As of June 30, 2021, \$1,530,000 was received and the budget for Contingent External Contribution was adjusted to \$8,470,000.

The City has awarded multiple contracts to successful bidders following procurement processes in order to support the capital construction projects described in this report. Termination provisions within each contract will need to be reviewed on a case-by-case basis by the City’s Law Department to assess the financial and legal implications that would result if the City considers the possible cancellation, or delay of a project.

The following is an overview of the actual current year capital expenditures as at June 30, 2021.

Figure 1 – Current Year Capital Expenditures as at June 30, 2021



The following highlights the capital projects with the highest current year capital expenditures (actuals on a cash-basis) as at June 30, 2021.

Table 2: Capital projects with the highest current year-to-date capital expenditures (in \$'000s)

Project Name	Current Year-to-Date Actuals
2016 Flood Protection Program (2016, 2020)	\$3,334
Advancement of Partial Funding for the Canada Line Capstan Station (2020)	3,013
Eckersley B Sanitary Pump Station (2020)	1,895
Annual Asphalt Re-Paving Program - Non-MRN (2020)	1,039
Closed Circuit Television for Signalized Intersections (2018)	1,035
Energy Management Projects (2017, 2018, 2020)	1,021
Vehicle and Equipment Reserve Purchases (Public Works and Corporate Fleet) (2019)	1,016
Phoenix Net Loft Building Stabilization (2018, 2020)	989
Watermain Replacement Program (2019)	958
Burkeville Utility Improvements Drainage (2020)	912

CAPITAL BUDGET REALLOCATIONS

Council Policy 3001 requires changes to the Capital Budget be reported to the Finance Committee. The following reallocations were recorded in the second quarter of 2021:

Table 3: Budget Reallocations (in \$'000s)

Program	Transfer From	Transfer To	Amount
Parks	Hugh Boyd Artificial Turf Sports Field - Turf Replacement (2019)	Safety and Environmental Enhancements to Richmond High Turf Field Warranty Repair (2021)	98
Contingent External Contribution & Art	Contingent External Contribution (2021)	Public Art Program (2021)	35
Total Budget Reallocations			\$133

PENDING ITEMS - CAPITAL BUDGET

GRANT APPLICATIONS

During the second quarter, the City received approval for the following grant applications. The Consolidated 5 Year Financial Plan (2021-2025) will be amended, if applicable.

- Coast Mountain Bus Company 2021 Transit Related Road Infrastructure Program approved for a maximum available funding of \$88,750
- Federation of Canadian Municipalities' Green Municipal Fund Application for Garden City Lands Soil Management and Remediation Study – approved for a maximum available funding of \$175,000
- TransLink 2021 cost-share programs for road, pedestrian, bicycle, and transit facility improvement projects approved for a maximum available funding of \$4,318,000
- TransLink 2021 cost-share programs – Supplemental Application for the delineator protection on the Granville Avenue approved for a maximum available funding of \$300,000
- TransLink 2021 Major Road Network (MRN) Structures Program for the Steveston Highway and Gilbert Road Drainage Upgrades submission approved for a maximum available funding of \$381,000

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

- ICBC 2021 Road Improvement Program for 2021 ICBC - City of Richmond Road Improvement Program partnership. Funding will be determined at the point of grant approval
- Investing in Canada Infrastructure Program - Community, Culture and Recreation (CCR) - Intake Phase 2 for the Minoru Place Activity Centre Conversion to Arts Centre for a maximum available funding of \$2,400,000
- Investing in Canada Infrastructure Program – COVID-19 Resilience Infrastructure Stream for the Thompson Community Centre and Hall Infrastructure Renewals for a maximum available funding of \$900,000
- National Disaster Mitigation Program (NDMP) for Mitigation Planning – the Steveston Island Preliminary Dike Design submission for a maximum available funding of \$500,000

- Union of British Columbia Municipalities (UBCM) Strengthening Communities' Services Grant Application for a maximum available funding of \$3,348,947
- Union of British Columbia Municipalities (UBCM) Community Emergency Preparedness Fund for the Dike Operation & Maintenance Manual Update for a maximum available funding of \$150,000

CAPITAL PROJECTS

At the Council meeting held on May 25, 2021, Council approved the capital project for Digitization of Development Approvals system (AMANDA) with a budget of \$740,000.

At the Closed Council meeting held on June 14, 2021, Council approved the capital project for the Richmond Curling Club with a budget of \$1,500,000.

At the Council meeting held on July 26, 2021, Council approved the capital project for Steveston Community Centre and Branch Library with a budget of \$90,000,000 for construction costs plus an additional \$5,000,000 for construction escalation contingency.

These capital projects will be included in the amendments to Consolidated 5 Year Financial Plan (2021 – 2025) which is scheduled to be presented to Council in Fall 2021.

HIGHLIGHTS OF KEY CONSTRUCTION RELATED CAPITAL PROJECTS

Information on key capital projects include the project budgets, transfers from other projects and budget amendments, actuals on a cash-basis, and remaining commitments as at June 30, 2021.

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 drainage and flood protection systems. Many of the active infrastructure projects are in the design and permitting stage. With the current Provincial and Federal regulatory framework, the design and approval process for many drainage projects (including pump stations and dike upgrades) can take one to two years.

There are continued upgrades for pump stations, dikes and roads throughout the City along with infrastructure improvements in the Burkeville area, Steveston area and various other locations.

Table 4 provides the highlights for the key infrastructure capital projects.

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

Program	Project Name	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
Drainage	Drainage Pump Station & Diking Upgrades including Provincial Grant (2016, 2020)	\$28,302	\$21,808	\$6,494
Drainage	Drainage Pump Station and Diking Upgrades – Federal Grant (2020, 2021)	9,516	52	9,464
Drainage & Sanitary	Burkeville Area Drainage and Utility Improvements - Phase 2 (2019, 2020)	3,369	2,209	1,160
Drainage	Laneway Drainage Upgrades (2020)	1,460	1,126	334
Road	River Parkway Extension (2018)	13,200	7,430	5,770
Road & Drainage	No. 4 Road Reconstruction and Box Culvert Repair (2018, 2020)	4,286	320	3,966
Road	Annual Asphalt Re-Paving Program - MRN and Non MRN (2020)	4,842	2,190	2,652
Sanitary	Eckersley B Sanitary Pump Station Replacement and Spires Utility Servicing (2020)	5,100	3,026	2,074
Sanitary	Steveston Laneway Sanitary Sewer Rehabilitation (2018, 2020, 2021)	5,439	1,541	3,898
Sanitary	Hamilton Sanitary Pump Station (2020)	2,800	1,617	1,183
Water	Watermain Replacement Program (2020)	5,793	4,169	1,624
Total Key Infrastructure Capital Projects		\$84,107	\$45,488	\$38,619

BUILDING

The Building Program includes major building construction and renovation projects as well as minor facility upgrades. Table 5 provides the highlights for the key building capital projects.

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

Project Name	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
Animal Shelter Replacement (2018)	\$8,000	\$981	\$7,019
Lawn Bowling Club Replacement (2018)	5,300	-	5,300
Phoenix Net Loft (2018, 2020)	19,440	1,455	17,985
Minoru Place Activity Centre (2019)	3,326	185	3,141
Richmond Ice Centre Infrastructure Renewals - Phase 1 (2020)	6,850	595	6,255
Richmond Courthouse (2019, 2020)	1,932	-	1,932
Community Safety Building (2020)	1,420	28	1,392

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

Project Name	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
City Hall Infrastructure Replacement (2020, 2021)	4,270	103	4,167
Works Yard Improvements (2018, 2019)	4,222	931	3,291
Minoru Arenas (2019, 2021)	4,580	482	4,098
Total Key Building Capital Projects	\$59,340	\$4,760	\$54,580

Attachment 1 includes the Q2 2021 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 below with the project highlights included in Attachment 2.

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

Project Name	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
Alexandra Park (formerly West Cambie Park) (2016, 2019)	\$2,554	\$338	\$2,216
Aberdeen Park Phase 2 and 3 (2018, 2019)	2,050	156	1,894
Railway Granville Bike Park (2020)	270	259	11
Garden City Lands Phase 2 and 3 (2016-2018)	5,995	2,854	3,141
Riverport and Cook Community Gardens (2020)	180	169	11
Minoru Lakes Renewal (2018-2020)	6,060	468	5,592
Safety and Environmental Enhancements to Richmond High Turf Field Warranty Repair (2021)	448	-	448
King George Park Rugby Field Upgrades (2013-2015, 2019)	374	166	208
Lang Park Completion (2020)	250	61	189
Dog Park Upgrades (2021)	200	1	199
The Gardens Agricultural Park (2015)	1,100	434	666
London / Steveston Park Enhancements (2017, 2019)	550	500	50
Hollybridge Pier/Middle Arm (2010, 2012, 2015)	2,350	1,918	432
South Arm Park Renewal (2021)	300	-	300
Playground Improvement & Replacement (2018, 2020)	1,100	369	731
Parks Aging Infrastructure (2018-2020)	2,040	1,602	438
Parks General Development (2020)	400	172	228
Parks Identity Signage Program (2019, 2020)	100	64	36
Total Key Parks Capital Projects	\$26,321	\$9,531	\$16,790

TRANSPORTATION

The key transportation capital project is highlighted below. Top 20 Collision Prone Intersections – Short-term Improvements (2020) implements short-term improvements determined through the Network Screening Study to enhance intersection safety at the identified intersections. To date, the project is substantially completed with minor work remaining at some locations for lighting upgrade to Light Emitting Diode (LED), delineators upgrade and enlargement of signal heads. Long-term Improvements at two intersections are being advanced through separate approved Capital projects. Table 7 provides the highlight for the key transportation capital project.

Table 7: Key Transportation Capital Project (in \$'000s)

Project Name	Budget	Actuals as at June 30, 2021	Expected Commitments / Work In Progress
Top 20 Collision Prone Intersections- Short-term Improvements (2020)	\$500	\$273	\$227
Total Key Transportation Capital Project	\$500	\$273	\$227

CAPITAL PROJECTS COMPLETED IN THE QUARTER

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

Table 8: Projects Closed in the Quarter Ended June 30, 2021 (in \$'000s)

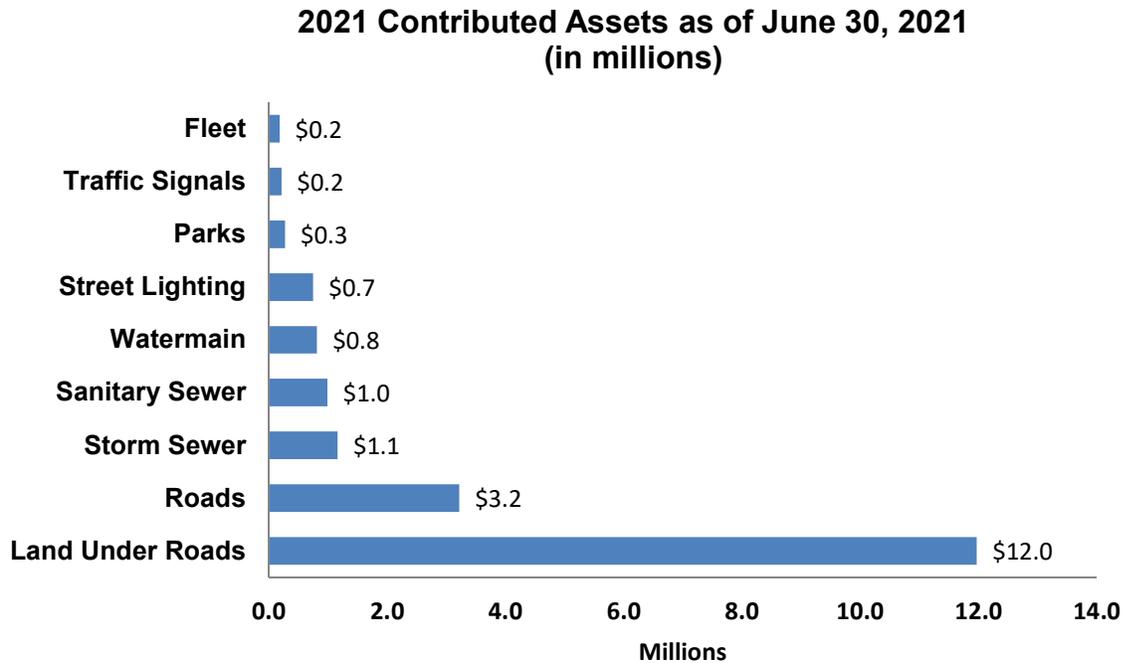
Project Name	Budget	Actuals as at June 30, 2021	Remaining Budget*
Burkeville Drainage Improvements (2018)	\$2,000	\$1,998	\$2
Annual Hardware Refresh (2019)	468	467	1
Gravity Sewer Assessment Program (2018)	450	444	6
Annual Hardware Refresh (2018)	427	423	4
Public Works Minor Capital - Sanitary (2019)	400	398	2
Traffic Calming Program (2020)	300	300	-
Transportation Planning, Functional and Preliminary Design (2020)	257	257	-
Accessible Pedestrian Signal Program (2019)	250	247	3
Watermain Tie-in and Restoration (2018)	250	247	3
LED Street Name Sign Program (2019)	200	200	-
SCADA System Improvements (2020)	150	149	1
Child Care - Administration (2019)	100	100	-
Child Care Projects - City-wide (Capital Grants) (2021)	50	46	4
Child Care Projects - City-wide Non-Capital Grants (2020)	10	6	4
Total	\$5,312	\$5,282	\$30

* Unspent funds will be returned to the original source of funding

CONTRIBUTED ASSETS

Included in the Consolidated 5 Year Financial Plan (2021-2025) Bylaw was an estimated \$61.5M for assets that are transferred to the City by developers. Under the Public Sector Accounting Standards, these are recorded as revenue at the fair market value at the time of contribution. Any variance between the budgeted and the actual contributed assets received will be included in the annual surplus reported on the financial statements. The following assets totalling \$19.5M have been recorded as of June 30, 2021:

Figure 2 – Current Year-To-Date Contributed Assets as at June 30, 2021



Included in Land Under Roads are the road extensions of:

- The lane on the Lansdowne Road to the No. 3 Road as part of the rezoning application for the property at 5671 No. 3 Road recorded at the fair market value of \$9.0M; and
- Lansdowne Road to the No. 3 Road as part of the rezoning application for the property at 5500 No. 3 Road 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 previously approved active capital projects are currently within budget.

A handwritten signature in cursive script that reads "Jenny Ho".

Jenny Ho, CPA, CGA
Acting Manager, Budgets
(604-276-4223)

JH:sx

- Att. 1: Q2 2021 Construction Update on Engineering and Public Works Capital Projects
- 2: Q2 2021 Construction Update on Parks Capital Projects

Q2 2021 Construction Update on Engineering and Public Works Capital Projects

Flood Protection

Drainage Pump Station and Diking Upgrades – Provincial Grant

The City secured \$16.6 million from the Provincial Government under the Flood Protection Program. This project includes the upgrades of four drainage pump stations and diking upgrades. Construction for the South Dike upgrade (Gilbert Road to No. 3 Road), Horseshoe Slough drainage pump station and Shell Road North drainage pump station is substantially complete. Construction for the No. 7 Road South drainage pump station is ongoing.

Drainage Pump Station and Diking Upgrades – Federal Grant

The City secured \$13.8 million from the Federal Government through the Disaster Mitigation and Adaptation Fund Grant to contribute towards the multi-year \$34.45M Flood Protection Program that are budgeted from 2020 to 2025. This project includes the upgrades of various drainage pump station and diking upgrades. Procurement of the Steveston Highway and Gilbert Road drainage pump station and South Dike Upgrades from No. 3 Road to west of No. 4 Rd is ongoing.

Burkeville Area Drainage, Watermain and Sanitary Sewer Upgrades

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 will be performed in phases over 5 to 10 years. Phase 2 is ongoing with Phase 3 commencing in Q3 2021.

Laneway Drainage Upgrades

This project consists of upgrades to laneways in the Broadmoor area to reduce local flood risks by increasing the City's storm system capacity. Construction at Bates Road East laneway is ongoing, followed by Reeder Road South laneway in Q3 2021.

Roads

River Parkway Extension

This project involves the construction of the interim two-lane road along the former railway corridor, from 200m northeast of Gilbert Road to Cambie Road. The new River Parkway connects to the existing Leslie Road, Gilbert Road, Cambie Road and future Minoru Boulevard as well as provides access to the future park. River Parkway has replaced the existing River Road between Gilbert Road and Cambie Road and provides a continuous alternate route to No. 3 Road and existing River Road. This project is substantially complete and River Parkway is open for public use. The River Road access at Gilbert Road has been closed and the construction of a cul-de-sac at the west end of River Road is complete.

No. 4 Road Reconstruction and Box Culvert Repair from Blundell Road to Granville Avenue

This project involves the reconstruction of the northbound lanes of No. 4 Road from Blundell Road to Granville Avenue. This section has undergone settlement over the years resulting in road surface deterioration. In addition, the joints in the drainage box culvert located on the west side of No. 4 Road are failing which will also be repaired through this project. Construction is ongoing.

Paving Program – Various Locations – City-Wide

The annual Paving Program works are ongoing. Locations completed include 11000 Block Railway Avenue, 10000 Block No. 4 Road, 8000 Block Lansdowne Road, 8000 Block Westminster Highway, and 6000 Block Cooney Road. Upcoming locations include: 11000 Block No. 3 Road, Alderbridge and Garden City Road, Bridgeport and No. 5 Road, and various spot repairs.

Sanitary Sewers

Eckersley B Sanitary Pump Station

This project includes the replacement of the existing sanitary pump station located at William Cook Elementary School and will connect to the existing sanitary system and recently completed Spires area upgrades. Construction is ongoing.

Steveston Sanitary Sewer

This project includes the rehabilitation and upgrades to the City's sanitary sewer in the Steveston catchment. This project will be performed in phases over 5 to 10 year. Construction started in 2020 to address priority locations and the design of the master plan is ongoing with some rehabilitation work planned for late-2021.

Water

Watermain Replacement Program

This project replaces and upsizes ageing watermains at the end of their service life with PVC pipe, in line with the City's Ageing Infrastructure Replacement Strategy. This will minimize unplanned maintenance and improve fire protection. Construction in the Bridgeport/Simpson/Olafson area and Bates area is complete. Construction in the Chatsworth/Chelmsford area is ongoing.

Thompson Gate Pressure Reducing Valve (PRV) Station

This project includes the construction of a new PRV station on Boundary Road and Thompson Gate to connect the neighbourhood's watermain system to Metro Vancouver's Annacis transmission main. Completion of the project is required to provide adequate flows to support upcoming development in the area. Construction is ongoing.

Buildings

Animal Shelter

The project scope includes upgrading the existing 4,580 sq. ft. facility and building a new 1,600 sq. ft. addition. This work will support the growing population of Richmond, while providing improved facilities, amenities and a high quality environment for animal care. Design development is complete, abatement works are in progress and the construction contract has been awarded. It is anticipated that this project will be complete by Q2 2022.

Bowling Green Community Activity Centre

The current Richmond Lawn Bowling Clubhouse was constructed in 1963 and is located in the northeast corner of Minoru Park. This facility will be demolished and replaced with a modern 4,900 sq. ft. single-storey facility in the same location. It is anticipated that the design will be complete and ready for tendering by Q3 2021 with construction to be completed by Q1 2023.

Phoenix Net Loft

Deconstruction and salvage of the Phoenix Net Loft is complete and salvaged materials are stored at the City owned warehouse at 7400 River Road.

Minoru Place Activity Centre

BC Housing is temporarily operating the facility as an Emergency Response Centre for the vulnerable population experiencing homelessness due to COVID-19. The Minoru Place Activity Centre will be repurposed to a Community Arts Program and Education space (Cultural Centre Annex), once the license agreement with BC Housing is complete. In September 2020, Council approved the submission of a grant to Investing in Canada Infrastructure Program – Community, Culture and Recreation Stream. The detailed design phase of the project has been completed and construction is anticipated to begin in Q3 2022.

City Centre Community Centre North

The developer driven amenity will feature an indoor activity track, gymnasium, multi-purpose rooms and Children's Exploratorium. The 33,000 sq. ft. project is currently in the detailed design phase by the developer and it is anticipated to be under construction in 2021, with an estimated completion by the end of 2023.

Richmond Ice Centre- Phase 1

Existing ageing equipment and infrastructure will be replaced with new and more efficient alternatives. Three new compressors will use less ammonia, have more efficient power consumption and improved control operation. The equipment and infrastructure replacements will minimize unplanned maintenance and improve life and safety for the users and operators. The compressors replacement and the other upgrades to the refrigeration plant will be completed in Q3 2021, whereas the design for the remainder of the work is ongoing, with construction scheduled to start in Q1 2022.

Child Care Centres

A combined total of approximately 64,880 sq. ft. has been designed to accommodate about 201 children in various licensed child care programs. Funding was collected through both the Development Cost Charges and Community Amenities Charges. Design and construction, which is the responsibility of the developer, continue for the following:

- Sprouts Early Childhood Development Hub - Pinnacle International (construction completion anticipated by Q3 2021)
- Seedlings Early Childhood Development Hub - Keltic Canada Development Co. Ltd. (construction completion anticipated by Q1 2022)
- Hummingbird Child Care - Aspac Development Ltd. (construction completion anticipated by Q3 2022)

Richmond Courthouse

The two-storey, 64,000 sq. ft. building was originally built in 1975 and currently houses spaces for the Attorney General Office, Richmond Community Corrections, Richmond Family Justice Centre and RCMP Community Services. Existing ageing equipment will be replaced with new and more efficient alternatives. Existing infrastructure will be improved to enhance life and safety for the users and operators. Staff have procured the consulting team and contractor, with anticipated completion for the design in Q4 2021 and construction start in Q2 2022.

Community Safety Building

The heat pump system has reached the end of its life expectancy. This is the last phase of the heat pump replacement works, which will prevent service disruption and potential closure for this building. The design has been completed and construction is planned to start in Q3 2021.

City Hall Infrastructure Replacement

Multiple building components and mechanical equipment at City Hall will be replaced with modern energy efficient systems, with construction completion anticipated by Q1 2022. In addition, the replacement of the Council Chamber roof is anticipated to be complete in Q3 2022.

Works Yard Improvements

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 for this phase is complete and construction tendering is in progress. Construction is estimated to be complete by Q1 2022.

Minoru Arenas

Building infrastructure renewals and replacements include mechanical and electrical upgrades, life and safety equipment upgrades and architectural improvements of the mezzanine viewing area and change rooms. Construction started in Q2 2021 with anticipated completion in Q2 2022.

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
INFRASTRUCTURE - ENGINEERING				
ROADS				
1	Garden City Road Pedestrian and Cyclist Enhancements, Westminster Highway to Lansdowne Road (2019)	Garden City Pedestrian and Cyclist Enhancements - Westminster Highway to Lansdowne Road	\$1,000	Q3 2021
2	Arterial Roadway Improvement Program (2019)	Railway Greenway intersections	\$950	Q3 2021
	Neighbourhood Walkway Program (2019)			
3	River Parkway Road Extension - Gilbert Road to Cambie Road (2018)	River Parkway Road Extension - Gilbert Road to Cambie Road	\$13,200	Complete
	Cambie Road Improvement, River Road to No. 3 Road (2018)			
	Leslie Road Improvement, River Parkway to approximately 150m to the east (2018)			
4	Street Light LED Upgrade Program (2020)	Year 4 - Continuation of LED replacement program	\$400	Q3 2021
5	Cambie Overpass Rehabilitation Project (2020)	Rehabilitation of the Cambie Overpass approach at Knight Street	\$1,355	Q3 2021

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
6	No. 4 Road Reconstruction from Blundell Road to Granville Ave (2018)	Granville Avenue to Blundell Road	\$4,286	Q4 2021
	Box Culvert Repair (2018)			
	Box Culvert Repair (2020)			
7	Bridge Rehabilitation Program (2018)	Various locations Citywide including West Dikes Bridge and Bird Road Bridge	\$590	Q4 2021
	Bridge Rehabilitation Program (2019)			
8	Annual Asphalt Re-Paving Program - MRN (2020)	Annual asphalt re-paving	\$1,554	Q4 2021
9	Annual Asphalt Re-Paving Program - Non-MRN (2020)	Annual asphalt re-paving	\$3,288	Q4 2021
10	Annual Asphalt Re-Paving Program - MRN (2021)	Annual asphalt re-paving	\$1,589	Q4 2021

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
11	Annual Asphalt Re-Paving Program - Non-MRN (2021)	Annual asphalt re-paving	\$3,344	Q4 2021
12	Arterial Roadway Improvement Program (2018)	River Road Sidewalk - No. 6 Road to Burdette Street, Sidewalk Upgrades - Lucas at No. 3 Road	\$350	Q4 2021
13	Active Transportation Improvement Program (2018)	Odlin Road Bike Route, Westminster Highway MUP - 14600 block to No. 7 Road, and Charles Street MUP - Sexsmith to Bridgeport Canada Line Station	\$2,000	Q4 2021
	Active Transportation Improvement Program (2019)			
14	Alderbridge Way Multi-Use Pathway, No. 4 Road to Shell Road (2018)	Alderbridge Way MUP - Shell Road to No. 4 Road	\$1,200	Q4 2021
15	Steveston Highway Multi-Use Pathway, Shell Road to Mortfield Gate (2019)	Steveston Highway MUP - Shell Road to Mortfield Gate	\$2,000	Q2 2022

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
16	Cambie Road/No. 5 Road- Intersection Improvements (2020)	Intersection safety improvements at Cambie Road and No. 5 Road	\$2,760	Q2 2022
17	Neighbourhood Walkway Program (2020)	Viking Way Sidewalk - Cambie Road to Bridgeport Road and Westminster Highway Walkway - Muir Drive to 22411 Westminster Highway	\$750	Q4 2021
18	Transit-Related Roadway Improvement Program (2020)	Various locations Citywide including Westminster Hwy at No. 8 Road, Railway Avenue at Linfield Gate, Railway Avenue at Lancing Road, and Railway Avenue at Maple Road	\$500	Q4 2021
DRAINAGE				
19	Heather Street Improvement (2019)	Neighbourhood improvement on Heather Street, from Francis Road to Dayton Avenue	\$1,757	Complete
20	Burkeville Utility Improvements Drainage (2020)	Burkeville Drainage Upgrades (Second phase of construction)	\$3,369	Q3 2021
	Burkeville Utility Improvements - Sanitary (2019)			

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
21	Watercourse Crossing Rehabilitation & Replacement (2020)	Replacement of the a failed culvert crossing that serves City’s tree nursery, KPU incubator farm and Richmond Food Security Society’s Community Farmers	\$300	Q3 2021
22	2016 Flood Protection (2016)	South dike upgrades - No. 3 Road to Gilbert Road, Horseshoe Slough Pump Station, No. 7 Road South Drainage Pump Station, Shell North Drainage Pump Station	\$28,302	Q3 2021
23	South Dike Repair - Gilbert Road Area (2021)	South Dike Repair - Gilbert Road Area	\$500	Complete
24	East Richmond Drainage & Irrigation Upgrades (2018)	Canal stabilization and drainage and irrigation upgrades throughout Richmond including Cambie and No. 7 Culvert Replacement, Westminster Hwy Cross Culvert, 11000-12000 Block No. 3 Road, and 9000 block No. 6 Road	\$3,266	Q4 2021
	Canal Stabilization (2020)			
	East Richmond Drainage & Irrigation Upgrades (2020)			
	Canal Stabilization and Drainage & Irrigation Upgrades (2021)			

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
25	Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2021)	Second phase of drainage pump station upgrades and perimeter dike raising design as per the awarded Disaster Mitigation and Adaptation Fund including dike upgrades from No. 3 Road to 400m west of No. 4 Road, and dike upgrades at No. 9 Road	\$5,000	Q4 2022
26	Laneway Drainage Upgrade (2020)	Laneway drainage upgrade in Greenlees Road east lane, Bates Road east lane, and Bates Road south lane.	\$1,460	Q4 2021
27	Storm Main Drainage Upgrade (2021)	Drainage improvements at the intersection of Gilbert Road	\$950	Q4 2021
28	Steveston Highway & No. 3 Road Pump Station Upgrade (2019)	Upgrade of the existing drainage pump station at Steveston Highway and No. 3 Road	\$2,439	Q2 2022
29	Burkeville Utility Improvements Drainage (2021)	Burkeville Drainage Upgrades (Third phase of construction)	\$2,026	Q3 2022
30	Disaster Mitigation and Adaptation Fund Infrastructure Upgrades (2020)	First phase of drainage pump station upgrades and perimeter dike raising design as per the awarded Disaster Mitigation and Adaptation Fund including upgrades at the existing drainage pump station at Steveston Highway and Gilbert Road	\$4,516	Q4 2022

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
31	Laneway Drainage Upgrade (2021)	Laneway drainage upgrade at Reeder Road south lane, and Railway Avenue East lane	\$800	Q4 2022
SANITARY				
32	Hamilton Area Sanitary Sewer and Pump Station (2020)	Sanitary Pump station located in Hamilton VLA Park	\$2,800	Q4 2021
33	Eckersley B Sanitary Pump Station (2020)	Eckersley B Sanitary Pump Station	\$5,100	Q3 2021
34	Sanitary Sewer Tie-in and Restoration (2021)	Sanitary Sewer Tie-in and Restoration	\$150	Q2 2022
35	Steveston Gravity Sewer Replacement and Rehabilitation (2018)	Multi-year sanitary rehabilitation and upgrade program in the Steveston area	\$5,439	Q4 2022
	Steveston Gravity Sewer Replacement and Rehabilitation (2020)			
	Gravity Sewer Rehabilitation and Upgrades (2021)			

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
WATER				
36	Watermain Replacement Program (2019)	Watermain Replacement Program - McDonald Road Area, Colbeck Area, Palmberg Area and Gilhurst/Bates Area	\$5,395	Complete
37	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	Q4 2021
38	Watermain Replacement Upgrades Program (2020)	Watermain Replacement Program - No. 4 Rd, Chatsworth/Chelmsford Area, Bridgeport/Olafsen Area and Monteith Area	\$5,793	Q4 2021
39	Watermain Tie-in and Restoration (2021)	Watermain Tie-in and Restoration	\$200	Q2 2022
40	Water Metering Program (2021)	Upgrade touch pad meters to radio meters; volunteer multi-family dwelling meters	\$1,286	Q2 2022
41	Watermain Replacement Upgrades Program (2021)	Watermain Replacement Program - Danube/Minler Area, Nevis/Petts Area, Springfield Area, No. 3 Road, Terra Nova Park and Granville Avenue	\$6,196	Q4 2022

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
BUILDINGS - PROJECT DEVELOPMENT				
42	London Farm House Envelope Renewals (2019)	Envelope Renewals	\$376	Complete
43	Works Yard Salt Shed Repairs (2019)	Salt Shed Repair	\$266	Complete
44	City Hall Annex Transformer Replacement (2019)	Transformer Replacement	\$500	Complete
45	Library Cultural Centre Conveyance Replacements (2019)	Conveyance Replacement and Mechanical Upgrades	\$4,209	Complete
	Library and Cultural Centre Chiller Replacement (2017)			
	Energy Management Projects (2017)			
46	Phoenix Net Loft Building Stabilization (2018)	Deconstruction/Salvage (\$1.4M)	\$19,440	Complete
47	Minoru Arena System Renewals (2019)	Systems Renewal	\$3,300	Q4 2021
48	Community Safety Building - Mechanical Component Replacements and Associated Works (2020)	Components Replacement	\$1,420	Q4 2022
49	Works Yard Electrical Service Upgrade and EV Infrastructure (2020)	Electrical Upgrade and EV Infrastructure	\$1,688	Q3 2022
50	City Hall Upgrades and Repairs (2019)	Mechanical Upgrades and repairs	\$980	Q4 2021

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
51	Minoru Aquatics Centre Demolition (2021)	Demolition	\$2,700	Q4 2021
52	Minor Capital Buildings Project Development (2018)	62 projects (roof replacement, flooring, mechanical equipment, etc.)	\$4,334	Q4 2021
53	Minoru Place Activity Centre Program - Implementation (2019)	Repurposing	\$3,326	Q1 2023
54	Works Yard Ageing Mechanical and Building Envelope Infrastructure Replacement (2018)	Design of site wide infrastructure replacements	\$2,515	Q1 2022
55	Works Yard Mechanical Replacements (2019)	Mechanical Systems Replacement	\$1,707	Q1 2022
56	City Hall - Replacement of Mechanical, Life/Safety, and Envelope Components and Associated Works (2020)	Replacement Components	\$2,630	Q1 2022
57	Hamilton Community Centre - HVAC Replacement (2021)	HVAC Replacements	\$500	Q3 2022
58	Animal Shelter Replacement (2018)	Replacement	\$8,000	Q2 2022
59	Richmond Ice Centre Infrastructure Renewals - Phase 1 (2020)	Renewals	\$6,850	Q4 2022

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
60	City Hall Council Chamber Roof Replacement (2021)	Council Chamber Roof Replacement	\$1,640	Q3 2022
61	Watermania Aging Mechanical and Building Envelope Infrastructure Replacement Phase 2 (2019)	Mechanical and Envelope Replacement	\$1,341	Q4 2022
62	Richmond Courthouse - Mechanical Components Replacements, Envelope Renewals, Electrical Replacements, Structural Renewals and Associated Works (2020)	Infrastructure Replacements	\$1,932	Q4 2022
	Richmond Courthouse - Mechanical Components Replacements, Envelope Renewals, Electrical Replacements, Structural Renewals and Associated Works (2019)			
63	Lawn Bowling Club Replacement (2018)	Replacement of Clubhouse	\$5,300	Q1 2023

	Project Name	Scope of Work	Capital Funding (x1000)	Scheduled Construction Completion
64	Thompson Community Centre & Hall Infrastructure Renewals (2021)	Infrastructure Upgrades	\$900	Q1 2022
65	Minoru Arenas - Mechanical & Life Safety System Renewals (2021)	Mechanical and Life Safety Renewals	\$1,280	Q2 2022
66	West Richmond Community Centre - HVAC and Mechanical renewals (2021)	HVAC Renewals	\$1,330	Q4 2023

Q2 2021 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. In March 2019, Council approved the re-naming of this park from West Cambie Park to Alexandra Neighbourhood Park. Request for Proposals (RFPs) for the work were issued in **Q2 2020**, and the construction contract was awarded in **Q2 2021**. Park construction is now underway, and expected to be completed in **Q4 2021**.

Aberdeen Neighbourhood Park – Phase 2

Aberdeen Neighbourhood Park is located at the intersection of Cambie Road and Hazelbridge Way. In July 2017, Council approved the naming of this new park from Cambie City Centre to Aberdeen Neighbourhood Park. The RFP for Phase 2 works was issued in Q3 2020. Purchasing staff identified a lead proponent, and cost savings opportunities were finalized with the prospective contractor and consultant team. The construction contract was awarded in **Q2 2021**. Park construction is now underway, and expected to be completed in **Q4 2021**.

Railway Granville Bike Park

This project is now substantially complete and open for public use and enjoyment. Public feedback has been positive and the park is well used on a daily basis. This coming fall, two benches will be installed along the Railway Greenway, several trees within the bike park to provide shade and line painting on the track to provide riders guidance on ride line ratings and direction.

Garden City Lands (GCL)

Staff will be proceeding with construction of the community gardens on the site with an expected completion of early **Q3 2021**, pending Agricultural Land Commission (ALC) approval. An extensive contaminated sites testing program will be proceeding in **Q3 2021** once a work plan is developed and RFP issued to identify the project's qualified environmental professional (QEP). Staff will be installing park benches along the Perimeter Recreational Trail in **Q3 2021** and additional native tree and shrub plantings in late **Q4 2021** along the same trail. The scale and extent of this planting effort will be similar to what was successfully completed in 2018. The Perimeter Recreational Trail will remain open to residents to enjoy the site during this time.

City-wide Community Gardens

Several new community gardens are being planned for construction throughout the City in **Q3/Q4 2021**, subject to further public consultation.

Minoru Lakes Renewal

Detailed design for the renewed Minoru Lakes District is nearing completion. A report was presented at the Parks, Recreation and Cultural Services (PRCS) Committee in April 2021 to describe the design of the project. The request for proposals for construction services will be issued in **Q3 2021 and phase one construction is planned to start in 2022**.

Safety and Environmental Enhancements to Richmond High Turf Field Warranty

Replacement of the artificial turf field was completed in 2016, however due to product defects, the vendor will be replacing the synthetic turf under warranty at no cost to the City. Staff have identified opportunities to improve the safety, performance and play experience of the field. Construction has begun near **end of Q2 2021**, and is expected to be completed in **Q3 2021**.

King George Park – Artificial Turf Field Replacement

Synthetic sports fields generally last 8 to 12 years depending on the usage and the maintenance of the fields. Installed in 2008, the King George field is at the end of its expected lifespan and is failing to meet minimum operating safety standards for shock attenuation (e.g. risk of injury). The RFP process has been completed and the contract has been awarded. **This project is anticipated to start in Q3 2021.**

King George Community Park – Gathering Area

The construction phases of the social gathering area was completed in **Q2 2021**. Remaining works are scheduled for **fall 2021**. These works include tree planting, native shrub planting in bioretention areas, and temporary irrigation for plant establishment. The new gathering area features a community stage, a large harvest table, and additional site furnishings reflective of public feedback gathered as part of the King George Community Park Master Plan.

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. The table tennis table installations and book exchange kiosk were completed in **Q1 2021** and fabrication of the overhead shelter is underway and expected to be completed near end of **Q3 2021**.

Dog Park Upgrades

The existing Steveston Dogs Off-Leash Area is slated to be upgraded in 2021. Upgrades are expected to include improved surfacing, play features, tree planting, site furnishings, and a drinking fountain. **Detailed design is anticipated to begin in Q3 2021.**

The Gardens Agricultural Park

Rehabilitation of the existing park features is ongoing, including pathways, a bridge, planting and site furnishings. The southern part of the park is open to the public with the northern section under final planning and detailed design. Full implementation of the approved park concept is currently on hold due to the potential impacts of the George Massey Tunnel project.

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 includes a playground, half-court basketball plaza and park shelter. Construction of the playground was completed in July 2020 and the half-court basketball plaza was completed in December 2020. The park shelter was installed in **February 2021**. The fourth and final phase of enhancements include an off-leash dog park. The off-leash area will include a variety of surface treatments, fencing, play elements, tree planting, and site furnishings. **Detailed design is anticipated to begin in Q3 2021.**

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 delayed 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 in March 2021. A report is being prepared for the redesign process of a structure that does not require Crown Provincial's water lot.

South Arm Community Park Renewal

South Arm Community Park Renewal includes enhanced trail connections, a plaza with park shelter, expanded picnic areas, new furnishings and shade trees. Detailed design is currently underway with the playground improvement project, with construction anticipated to start after playground construction to be completed in **2022**.

Playground Improvement and Replacement

- South Arm Community Park Playground – The request for proposals will be issued to market near end of **Q3 2021**. Construction is expected to start in **spring 2022**.
- Talmey Neighbourhood School Park and Garnet Tot Lot Playgrounds – Construction on both playgrounds has been completed in **Q2 2021**.
- Steveston Community Park Playground Renewal – A staff report on the Steveston Community Park Playground Next Steps received Council support in **Q1 2021**. Preparation for a request for proposals for detailed design and costing services is underway and targeted to be issued in **Q3 2021**.
- Odlin Park Playground – Procurement and detailed design has been completed and the playground improvement project is scheduled for construction in **Q3 2021**.

Parks Aging Infrastructure

- South Arm Park Basketball Courts – improvements were completed in **Q1 2021** through replacement of the existing basketball hoops and backboards. Sport surfacing replacement of the courts started on the first week of July and expected completion by **August 2021**.

- No. 2 Road Pier – A Structural Conditional Assessment was completed in August 2018. Phase 1 repairs to the pile foundation were completed in July 2020. Replacement of the perimeter rail fence was completed in November 2020. Planning for Phase 2 of the pile foundation replacement is now anticipated for 2022-2023. A capital submission will be submitted for consideration in the future year’s budget process.
- No. 3 Road Pier – A conditional assessment of the pier was completed in March 2021. Minor repairs to the piled foundation is scheduled to start in **fall of 2021**.
- Gibbons Park – Installation of storm drainage onto the field is scheduled to start in **fall 2021**.
- Thompson Burnett Tennis Courts – In **May 2021**, repairs to cracks on the courts and resurfacing of play areas was completed.

Parks General Development

- London Heritage Farm – The implementation of the Master Plan has started in **Q2 2021** following Council approval of the plan in Q1 2021. Works started include upgrades to the irrigation system, a new lavender garden, and site preparation for further works scheduled for **Q3 2021**, including renovations to an existing chicken run and upgrades to a bee apiary.
- Richmond Nature Park – Upgrades to the bird feeding stations were performed with realigned fence sections and new bases for the posts. These works reduce maintenance issues for the stations by levelling the surfaces for easier cleaning and sweeping.
- Thompson Burnett School Park – New pathway alignments were installed in **Q2 2021** to improve pedestrian circulation throughout the site.

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 is currently underway for 10 locations in the west zone, between Granville and Francis Road.