

# **Report to Committee**

To:	Finance Committee	Date:	November 30, 2015
From:	Jerry Chong, CPA, CA Director, Finance	File:	03-0970-01/2015-Vol 01
Re:	2016 Capital Budget		

#### **Staff Recommendation**

That the 2016 Capital Budget totalling \$104.1M be approved and staff authorized to commence the 2016 Capital Projects.

Jerry Chong, CPA, CA Director, Finance (604-276-4064)

Att. 7

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER	
REVIEWED BY SMT	INITIALS:
APPROVED BY CAO	

#### **Executive Summary**

Capital funds are directed towards infrastructure and asset management programs ranked based on the highest priority projects to respond to Council direction and provide services to the citizens of Richmond. The 2016 Capital Budget of \$104.1M includes significant investment in infrastructure renewal to maintain community viability. A more detailed breakdown of each program is included in the appendices to this report.

The following is an overview of the major program areas funded through the capital budget with selected highlights of proposed 2016 initiatives being recommended to Council.

#### Infrastructure – \$43.8M:



The City's Infrastructure Program funds assets that include: dykes, roads, drainage and sanitary pump stations, drainage, water, and sanitary mains.

The 2016 program includes No. 2 Road Widening from Steveston Highway to Dyke Road (\$7.3M), No. 7 Road South Drainage Pump Station Upgrade (\$4.5M), Spires Area Water, Sanitary and Drainage Upgrade (\$4.5M), City Centre Watermain Replacement (\$4.0M), residential water metering, and pavement upgrades.

Land - \$21.2M:



The 2016 land acquisition program relates to the acquisition of real property for the City. Funds for land acquisition to meet the Council Approved Strategic Real Estate Investment Plan, other than DCC and other special reserve funded projects, are set aside in the Capital Reserve under the Industrial Use Fund. Council approval is required for each acquisition; funding is in place to act on opportunities as they arise. Parks - \$15.1M:



Richmond is renowned for its high quality parks and recreation facilities, with over 120 parks totaling approximately 1,700 acres. In addition to the City's parks, Richmond also has 50 kilometers of recreational trails.

The 2016 program includes strategic Parkland Acquisition (\$8.0M) to satisfy the OCP objective of maintaining the parks provision standard of 7.66 acres/1000 population, Garden City Lands Phase 2 (\$3.1M), Cambie Avanti Park (\$1.2M), West Cambie Park (\$0.7M) and Richmond High Artificial Turf Field Replacement (\$0.6M).

#### Equipment - \$8.1M:



Building - \$2.1M:

The 2016 equipment program includes continued implementation of the digital strategy including Peoplesoft HR and Payroll System Upgrade & Workforce Management, Customer Response Management System (CRM) and Business Process Management Suite (BPMS). It also includes fleet and equipment purchases, as well as fire vehicle replacement purchases.



The building program funds major building construction and renovation projects as well as minor facility upgrades.

The 2016 building program activities is scaled down as the City is still in the midst of the \$124.1M Phase 1 of the Major Facilities Replacement Plan approved by Council in 2014 to build a new Minoru Complex, No. 1 Brighouse Fire Hall and the recently-opened City Centre Community Centre.

The City is in the process of planning for Phase 2 of the Major Facilities Replacement Plan. Significant investment is expected and the Capital Plan will be amended once finalized.

#### Staff Report

- 4 -

#### Origin

Subsection 165(1) of the Community Charter requires the City to adopt a Five-Year Financial Plan (5YFP) Bylaw on or before May 15th of each year. The 5YFP Bylaw includes operating, utility and capital budgets for the current year (2016) and provides estimates for the remaining years of the five-year program. The 5YFP (2016-2020) Bylaw provides the City with the authority to proceed with spending as outlined in the Bylaw. The 5YFP must be balanced and therefore includes proposed funding sources.

The 5YFP provides authorization for the use of certain funding sources such as Development Cost Charges (DCCs) and Statutory Reserves. The 5YFP will be prepared once Council has approved each of the 2016 components.

The Capital Budget (the "budget") is one of the main components in preparing the 5YFP. The budget includes all expenditures that improve, replace and extend the useful life of the City's asset inventory, which has a net book value greater than \$1.9 billion. The Capital budget allows the City to sustain existing civic infrastructure, while also adding new assets and services to serve the growing community.

The Long Term Financial Management Strategy (LTFMS) is a set of principles created by Council to guide the financial planning process. It is Council policy and a key component of the LTFMS to ensure that sufficient long term capital funding for infrastructure replacement and renewal is in place in order to maintain community viability and generate economic development.

#### Analysis

This report presents the proposed 2016 Capital Budget and seeks Council review and approval on 2016 recommended projects and the operating expenditures associated with each respective project. The proposed Capital Budget for 2016 is \$104.1 million.

The City's capital budget ensures appropriate planning for required projects and their related funding to demonstrate the complete impact of major multi-year projects. Capital requirements are driven by many factors including growth, maintenance of current ageing infrastructure and ensuring that the City is consistently meeting industry standards as well as legislated and regulatory requirements.

The City continues to see sustained population and economic growth. Significant additional growth is projected through 2041 under the Official Community Plan. This new growth requires expansion of City infrastructure in order to maintain the high level of civic services expected by new and current residents. As the City continues to mature, existing infrastructure is nearing the end of its lifespan and/or capacity. Continuous, ongoing investment in replacement and maintenance of ageing infrastructure is required to maintain service levels and protect civic assets. Capital investment allows the City to take advantage of new technology and building practices to improve operational efficiency and accrue environmental benefits from use of more sustainable building practices and equipment. Finally, the Capital budget also includes internal

transfers and debt repayment to replenish reserve accounts used to provide interim funding for various projects.

#### **2016 Capital Process**

Each division sets priorities specific to their area of expertise. A project submission is completed detailing the scope of work, review of alternatives, financial impact, and proposed funding source. In addition, the submission is self-ranked using established criteria summarized in Appendix 1. The process behind the 2016-2020 Capital Budget is illustrated in Appendix 2.

The Capital Review Committee which is comprised of Directors/Senior Managers from each City division reviewed and ranked each project submission. To ensure consistent application of the established ranking criteria, the Capital Review Committee determines the final ranking for each submission giving consideration to strategic and master plans, policies and Council priorities.

The ranked projects are consolidated and the projects are recommended based on funding availability. Project funding recommendations are then reviewed by the Senior Management Team (SMT) and the CAO and the final recommendation is consolidated to form the 2016 Capital Budget presented to Finance Committee for review and approval.

#### Finance Committee Input

At the Committee's discretion, any Capital project recommended for funding may be removed from the recommended list. Appendix 3 provides a list of the recommended projects. In addition, any Capital project that is not recommended for funding may be reconsidered. Appendix 4 provides a list of those projects not recommended for funding.

For information purposes, Appendix 5 summarizes the projects recommended for funding from the Revolving Fund.

For 2016, the capital budget includes \$21.2M for Strategic Land Acquisition, which approximates the average of \$19.6M for the years 2012 to 2015. This is to position the City for acquisitions to meet the Council Approved Strategic Real Estate Investment Plan.

The 2016 Building Program has been scaled down as the City is implementing Phase 1 of the Major Facilities Replacement Plan that includes building a new Minoru Complex (Aquatics and Older Adult Centre) and No. 1 Brighouse Fire Hall, as well as the recently-opened City Centre Community Centre. The City is in the process of planning for Phase 2 of the Major Facilities Replacement Plan. Significant investment is expected and the Capital Plan will be amended once finalized.

The 2016 recommended capital projects by program are summarized in Figure 1.

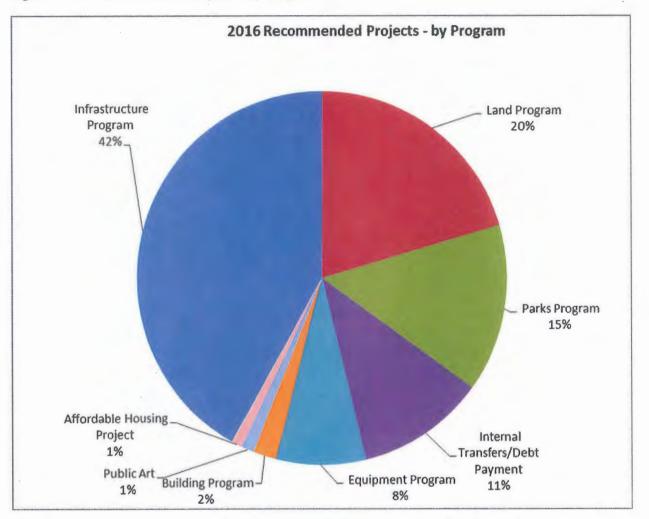


Figure 1 – 2016 Recommended Projects – by Program

The following is an overview of the recommended Capital program that supports new infrastructure needs compared to the replacement of existing infrastructure.

#### New 2016 Capital Costs

The new Capital costs total \$61.8M (59%) of the 2016 Capital Budget including highlights such as:

- ▶ No. 2 Road Widening, Steveston Highway to Dyke Road \$7.3M (page 31)
- Strategic Land Acquisition Acquisitions require Council approval \$21.2M (page 98)
- > Parkland Acquisitions Acquisitions require Council approval \$8.0M (page 94)
- Garden City Lands Phase 2 \$3.1M (page 83), Cambie Avanti Park \$1.2M (page 82) and West Cambie Park – \$0.7M (page 88)
- ▶ Water Residential Water Metering \$1.9M (page 53)
- Equipment Program PeopleSoft HR and Payroll System Upgrade & Workforce Management – \$1.8M (page 118) and Customer Relationship Management System – \$0.9M (page 115)
- ➢ Infrastructure Advance Design − \$1.3M (page 72)
- Roads Donald Road Local Area Service Program \$1.0M (page 25)
- Public Art Program \$1.0M (page 96)

- 6 -

#### Replacement 2016 Capital Costs

The Replacement costs total \$30.6M (30%) of the 2016 Capital Budget, which includes:

- Drainage replacement No. 7 Road South Drainage Pump Station Upgrade \$4.5M (page 50) and Dike Upgrades \$0.8M (page 44)
- Water Main replacement Spires Area Water, Sanitary and Drainage Upgrade \$4.5M (page 54) City Centre
- Lulu Island West Area \$4.0M (page 56)
- Sanitary Sewer replacement City Centre Sanitary Sewer Rehabilitation and Granville Avenue Infrastructure Upgrade – \$2.1M (page 58 and 60)
- ➤ Annual repaying program \$3.5M (page 22-23)
- Equipment Program Annual Fleet Replacement and Fire Vehicle Replacement Reserve Purchases – \$3.2M (page 105 and 108)
- Building Program Garratt Wellness Centre \$0.5M (page 79)
- Parks Program Richmond High Artificial Turf Replacement \$0.6M (page 87)

#### Internal Transfers and Debt Repayment

Internal Transfer and Debt Repayment total \$11.7M (11%) of the 2016 Capital Budget includes:

- Transfer of funding from Revolving Fund to Watermain Replacement \$6.0M (page 128)
- ➢ General Parkland Acquisition Repayment − \$2.0M (page 124)
- River Road/North Loop (2005) Repayment \$1.7M (page 126)
- ▶ West Cambie Parkland Acquisition Repayment \$1.6M (page 129)

The details of each recommended project is attached in Appendix 6.

#### 2016 Capital Budget Funding Sources

The 2016 capital budget uses a variety of funding sources which include:

- Development Cost Charges (DCCs) These contributions are made through development and are used for growth related projects.
- External Sources These include grants awarded from Provincial and Federal Governments, developer contributions (other than DCCs) and other non-City related sources.
- Reserves These are funds established by bylaws for specific purposes and are funded primarily by budgeted contributions from the Operating and Utility Budgets and developer contributions plus interest earned on fund balances.
- Surplus These refer to appropriated surplus (provisions).

The funding of the recommended projects has been allocated while maintaining the long-term strategy of building reserve balances to fund future infrastructure replacement and improvements. Generally, projects are funded up to the annual amount transferred into each available reserve.

The funding sources of the 2016 recommended projects are summarized in Table 1.

#### Table 1 – 2016 Funding Sources

Funding Sources	Amount
Reserves	\$61.6
Surplus	11.5
Subtotal - Internal	\$73.1
DCCs	26.9
External Sources	4.1
Subtotal - External	\$31.0
Total 2016 Funding	\$104.1

Approximately \$62 million of this year's capital plan is funded by the Reserves and \$31 million through external sources and DCCs, which are contributed by developers, significantly reducing the potential impact of these projects upon taxpayers.

Appendix 3 includes a legend of the funding sources for each project. Funding details of each individual submission are included in Appendix 6.

#### Recommended 2016 versus Historical (2012-2015) Capital Budget Analysis

Figure 2 provides analysis of the program types of the capital budget as amended for the past four years compared to the 2016 recommended capital plan. For the years 2012-2015, Capital Budgets as amended average \$119.0 million annually after adjusting for the major facilities approved in the 2014 capital plan.

In 2014, Council approved \$124.1 million for major facilities, of which \$50M was financed through Municipal Finance Authority (MFA). This included funding for the Minoru Complex, new No.1 Brighouse Fire Hall and City Centre Community Centre.

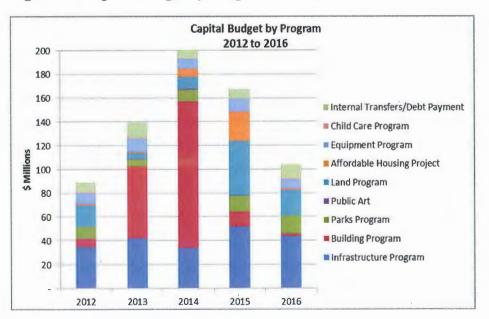
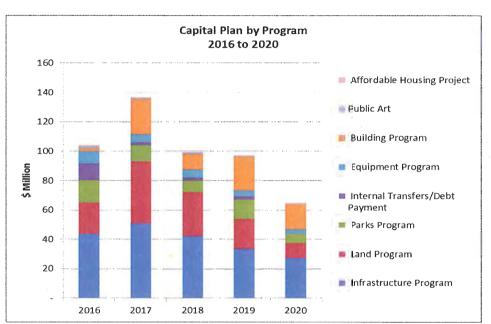


Figure 2 – Capital Budget by Program 2016 vs Historical

FIN - 80

#### Draft 2016-2020 Capital Budget

Figure 3 shows the estimates for the remaining years of the 5 Year Capital Plan, which proposes to continue to invest an average of \$101M each year in the City's assets. The estimates do not include the next phase of the Major Facilities Replacement Plan.





The year 2017 proposed capital budget includes Strategic Land Acquisition of \$42M.

Details of the 2017-2020 Capital Budgets will be presented as part of the 2016-2020 5YFP Report.

#### 2016 Operating Budget Impact

Upon completion of capital projects, new assets are added to the City's inventory. There are costs associated with maintaining these new assets, for example a new building will require staffing, janitorial services, gas and hydro utility costs. A new park will include annual maintenance and labour costs. This ongoing maintenance cost is the Operating Budget Impact (OBI) associated with the new asset which is added to the operating budget.

OBIs were reviewed by the Capital Review Committee as part of the Capital submission review process. The total OBI relating to the 2016 recommended projects is \$545K. \$138K of the OBI is associated with water and sewer utility projects and if the respective projects are approved, these will be incorporated into the 2017 utility budget. The remaining \$407K will be added to the operating budget if the associated projects are approved. To minimize the budget impact, an OBI phase in plan is adopted each year. For the recommended 2016 Capital Program, the OBI is proposed to be phased in over two years.

Table 2 presents a summary of the recommended Capital Budget and associated OBI by program.

Program (in millions)	Amount	OBI
Infrastructure Program	\$43.8	\$0.36
Land Program	21.2	0.00
Parks Program	15.1	0.11
Internal Transfer/Debt Repayment	11.7	0.00
Equipment Program	8.1	0.07
Building Program	2.1	0.00
Public Art Program	1.1	0.01
Affordable Housing Project	0.9	0.00
Child Care Program	<u>0.1</u>	0.00
Total 2016 Funding & OBI	\$104.1	\$0.55

Table 2: Recommended 2016 Funding and OBI by Program (in millions)

#### **Financial Impact**

The 2016 Capital Budget with a total value of \$104.1 million will enable the City to maintain and advance the asset inventory that continues to provide necessities and benefits to the community. The OBI associated with these projects is \$545K and once approved will be incorporated into the 2016-2020 5YFP.

#### Conclusion

The recommended Capital budget for 2016 is \$104.1 million. The Capital Review Committee worked closely with SMT and the CAO to represent the interests of all stakeholders to ensure that the 2016 capital program addresses City priorities and meets the needs of the community while effectively utilizing available funding.

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Melissa Shiau, CPA, CA Manager, Financial Planning and Analysis (604-276-4231)

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- Appendix 1: Capital Ranking Criteria
- Appendix 2: Capital Budget Process
- Appendix 3: 2016 Summary of Recommended Projects
- Appendix 4: 2016 Summary of Unfunded Projects
- Appendix 5: 2016 Summary of Projects Funded by the Revolving Fund
- Appendix 6: 2016 Details of Recommended Projects by Program
- Appendix 7: 2016 Details of Unfunded Projects by Program

Alignment with City Vision	<ul> <li>Does this support a Council Term Goal or an approved City strategy?</li> </ul>
Risk Management	<ul> <li>Is there a legal or regulatory compliance requirement and/or a risk that needs to be managed?</li> </ul>
Social	• Will this enhance social equity, vibrancy and/or health and wellness of the community?
Environmental	• Will this improve environmental conditions or reduce waste?
Economic	• Will there be a payback of capital costs and/or economic benefit to the community?

# **Capital Ranking Criteria**

## **Capital Budget Process**



Review Capital Budget process and identify focus areas; and
Publish guidelines for the preparation of capital submissions

• Prepare capital and operating budget impact (OBI) submissions

Division review and ranking of 2016-2020 capital submissions

• Capital Review Committee ranking of all 2016-2020 capital and OBI submissions

 Prepare preliminary list of recommended projects based on rank and funding availability

• CAO/SMT review of Capital Budget and recommendation finalized

Present 2016 Capital Budget to Finance Committee

• Present 2016-2020 Financial Plan Bylaw to Council for approval

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#### Appendix 3

Project Name	Source	<b>Total Investment</b>	Total OBI	Ref
INFRASTRUCTURE PROGRAMS				
Roads				
Accessible Pedestrian Signal Program	D/R	250,000	17,710	20
Active Transportation Improvement Program	D/R	320,000	9,592	21
Annual Asphalt Re-Paving Program - MRN	Е	914,000	-	22
Annual Asphalt Re-Paving Program - Non-MRN	А	2,610,000	-	23
Arterial Roadway Improvement Program	D/R	300,000	16,955	24
Donald Road - Local Area Service Program	R	1,011,000	9,183	25
Dyke Road Fraserwood Road Widening and Trail Connection	D/R	1,000,000	-	26
Functional and Preliminary Design (Transportation)	D/R	25,000	-	27
Granville Avenue Lighting Upgrade	R	140,000	-	28
LED Street Light Replacement Plan	R	375,000	-	29
Neighbourhood Walkway Program	D/R	250,000	12,287	30
No. 2 Road Widening, Steveston Highway to Dyke Road	D/E/R	7,300,000	34,321	31
Root Damaged Surfaces	R	460,000		32
Shell Road Walkway	R	621,000	5,876	33
Sidaway Road Street Lighting	R	250,000	17,625	34
Special Crosswalk Program	D/R	350,000	17,680	35
Street Light Pole Replacement - Seafair & Richmond Gardens - Phase 2	R	120,000	-	36
Traffic Calming Program	D/R	100,000	10,882	37
Traffic Signal Program	D/R	600,000	25,480	38
Transit-Related Amenity Improvement Program	E/D/R	250,000	6,917	39
Transit-Related Roadway Improvement Program	E/D/R	200,000	6,807	40
Total Roads	2,271	\$17,446,000	\$191,315	
Drainage		<i>•••••••••••••••••••••••••••••••••••••</i>	<i>vi,i,vi, vi, v, vi, v <i>i, vi, vi, v <i>i, vi, vi, v <i>i, vi, vi, v <i>i, v <i>i,</i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i></i>	
Aquatic Invasive Species Management	R	175,000	-	42
Development Coordinated Works in Capital	R	200,000	-	43
Dike Upgrades	R	750,000	_	44
Drainage System and Irrigation Upgrades - South Sidaway Area Phase 2	R	450,000	1,250	45
Gilley and Westminster Hwy Culvert Replacement	R	1,250,000	1,230	46
Laneway Drainage - Dennis Crescent (West)	R	245,000	3,344	40
Laneway Drainage - Dennis Crescent (West)	R	240,000	3,298	48
No. 4 Road Box Culvert Section Replacement	R	630,000	5,290	40
No. 7 Road South Drainage Pump Station Upgrade	R	4,500,000	10 465	49 50
	K		10,465	
Total Drainage		\$8,440,000	\$19,927	
Watermain Replacement	D	250.000		50
Development Coordinated Works in Capital	R A/D	250,000	-	52
Residential Water Metering	A/R	1,920,000	96,250	53
Spires Area Water, Sanitary, and Drainage Upgrade	R/D/E	4,500,000	2,493	54
Watermain Installation - Lulu Island East Area	R	370,000	6,250	55
Watermain Replacement - Lulu Island West Area	R/D	4,040,000	-	56
Total Watermain Replacement		\$11,080,000	\$104,993	

Legend: A=Appropriated Surplus; D=Development Cost Charges; E=External Sources; R=Reserves;

Project Name	Source	<b>Total Investment</b>	<b>Total OBI</b>	Ref
INFRASTRUCTURE PROGRAMS				
Sanitary Sewer				
City Centre Sanitary Sewer Rehabilitation	R	1,160,000	1,246	58
Development Coordinated Works in Capital	R	150,000	2,493	59
Granville Ave Infrastructure Upgrade	R	900,000	1,838	60
Miscellaneous SCADA System Improvements	R	250,000	18,785	61
Sanitary Pump Replacements	R	150,000	2,493	62
Sanitary Pump Station Rehabilitation	R	300,000	2,493	63
Steveston Sanitary Sewer Rehabilitation	R	410,000	1,246	64
Total Sanitary Sewer		\$3,320,000	\$30,594	
Minor Public Works				
Drainage Minor Capital	R	450,000	1,250	66
Public Works Minor Capital - Sanitary	R	300,000	1,838	67
Public Works Minor Capital - Water	R	560,000	-	68
PW Minor Capital - Traffic	R	250,000	8,250	69
Roads Minor Capital	R	250,000	1,250	70
Total Minor Public Works		\$1,810,000	\$12,588	
Infrastructure Advanced Design				
PW Infrastructure Advanced Design	R/D	1,255,000	-	72
Total Infrastructure Advanced Design		\$1,255,000	\$0	
District Energy Utility				
City Centre District Energy Utility	A	400,000	-	74
Total District Energy Utility		\$400,000	\$0	
TOTAL INFRASTRUCTURE PROGRAM		\$43,751,000	\$359,417	
BUILDING PROGRAMS				
Building				
Brighouse Park Fieldhouse & Caretaker - Roof & Deck Repairs	R	250,000	-	76
Direct Digital Control Upgrade and Consolidation	A	250,000	-	77
Energy Management Projects - 2016	A	754,500	-	78
Garratt Wellness Centre - Renewals & Upgrades	R/E	525,000	-	79
Project Development Advanced Design 2016	R	300,000	-	80
TOTAL BUILDING PROGRAM		\$2,079,500	\$0	

Legend: A=Appropriated Surplus; D=Development Cost Charges; E=External Sources; R=Reserves;

Appendix 3

Project Name	Source	<b>Total Investment</b>	<b>Total OBI</b>	Ref
PARKS PROGRAM				
Major Parks/Streetscapes				
Cambie Avanti Park	D/R	1,200,000	-	82
Garden City Lands - Phase 2	D/R/E	3,100,000	77,515	83
Park Characterization - Terra Nova	D/R	150,000	3,544	84
Parks Advance Planning & Design	D/R	550,000	-	85
Parks and Open Space Resource Management Planning Project	D/R	150,000	-	86
Richmond High Artificial Turf Field Replacement	R	600,000	-	87
West Cambie Park	D/R	700,000	12,559	88
Total Major Parks/Streetscapes		\$6,450,000	\$93,618	
Minor Parks				
Parks Ageing Infrastructure Replacement Program	R	140,000	-	90
Parks General Development	D/R	350,000	6,166	91
Playground Improvement Program	R	200,000	8,349	92
Total Minor Parks		\$690,000	\$14,515	
Parkland Acquisition				
Parkland Acquisition	D/R	8,000,000	-	94
Total Parkland Acquisition		\$8,000,000	\$0	
TOTAL PARKS PROGRAM		\$15,140,000	\$108,134	
PUBLIC ART PROGRAM				
Public Art Program	R	1,119,813	12,500	96
TOTAL PUBLIC ART PROGRAM		\$1,119,813	\$12,500	
LAND PROGRAM	and a second			
Land Acquisition	and a stand of the second s	· · · · · ·	and the second	
Strategic Land Acquisition	R	21,200,000	-	98
TOTAL LAND PROGRAM		\$21,200,000	\$0	
AFFORDABLE HOUSING PROJECT	and the second second		144	
Affordable Housing 2016 Operating Initiatives	R	130,000	_	100
Affordable Housing Projects - City Wide	R	400,000	-	101
Affordable Housing Projects - West Cambie	R	225,000	-	102
Affordable Housing Strategy Update	R	175,000	-	103
TOTAL AFFORDABLE HOUSING PROJECT		\$930,000	\$0	

Legend: A=Appropriated Surplus; D=Development Cost Charges; E=External Sources; R=Reserves;

Project Name	Source	Total Investment	Total OBI	Ref
EQUIPMENT PROGRAM				
Annual Fleet Replacement				
Vehicle and Equipment Reserve Purchases (PW and Corporate Fleet)	R/A	1,612,000	-	105
Total Annual Fleet Replacement		\$1,612,000	\$0	
Fire Dept Vehicles				
Fire Equipment Replacement	R	25,500	-	107
Fire Vehicle Replacement Reserve Purchases	R	1,629,500	-	108
Total Fire Dept Vehicles and Equipment		\$1,655,000	\$0	
Technology				
2016 Server Replacements	А	303,000	-	110
Anderson Room Improvements	A	105,000	-	111
Annual Computer Hardware Refresh	Α	408,919	-	112
Business Process Management Suite (BPMS)	А	600,000	55,000	113
Bylaws License Plate Recognition (LPR) System	А	197,120	(161,405)	114
Customer Relationship Management System (CRM)	A	900,000	100,000	115
Developing Asset Models for Eng. & Public Works	R	150,000	-	116
Log Management Implementation - Payment Card Industry Compliance	А	120,000	_	117
PeopleSoft HR and Payroll System Upgrade & Workforce Management	А	1,751,000	82,000	118
Software Deployment Replacement Solution	А	115,000	(12,000)	119
WiFi Network Expansion Phase II	А	204,500	1,000	120
Total Technology		4,854,539	\$64,596	
TOTAL EQUIPMENT PROGRAM		\$8,121,539	\$64,596	
		\$\$ <u>1</u>	40 ige> 0	
CHILD CARE PROGRAM				
Child Care Program				
Child Care Projects - City Wide	R	50,000	-	122
TOTAL CHILD CARE PROGRAM		\$50,000	\$0	
INTERNAL TRANSFERS/DEBT PAYMENT				
Internal Transfers/Debt Payment				
General Parkland Acquisition Repayment	D/R	1,992,825		124
Nelson Road Interchange Repayment	D/R D	385,098	-	124
River Rd/North Loop (2005) Repayment	D	1,685,056	-	125
Shovel - Ready Grant (2009) Repayment Lansdowne Rd Extension	D	77,263	-	120
Transfer of funding to Revolving Fund from Watermain Replacement	D	6,000,000	-	127
West Cambie Parkland Acquisition Repayment	D	1,600,000	-	120
	D		-	147
Total Internal Transfers/Debt Payment		\$11,740,242	\$0	
TOTAL INTERNAL TRANSFERS/DEBT PAYMENT		\$11,740,242	\$0	
Total 2016 Capital Program		\$104,132,094	\$544,647	
		<b>OBI</b> Type		
		Operating OBI	\$407,222	
		Utility OBI	137,425	
			0544 (45	

Legend: A=Appropriated Surplus; D=Development Cost Charges; E=External Sources; R=Reserves;

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\$544,647

**Total OBI** 

Project Name	Source	Total Investment	Revolving Fund	Total OBI	Ref
BUILDING PROGRAM	-		-		
Building					
Interurban Tram Restoration	R	396,000	396,000	-	131
London Heritage Farm Outbuildings	R	389,360	389,360	12,702	132
Works Yard Survey Inspector System Renewals	R	315,000	315,000	-	133
TOTAL BUILDING PROGRAM		\$1,100,360	\$1,100,360	\$12,702	
		1			
EQUIPMENT PROGRAM					
Miscellaneous Equipment					
Emergency Supply Cabinets Project	R	125,000	125,000	-	135
Emergency Supplies Container Project	R	515,400	515,400	53,910	136
Meeting Room Evergreen & Media Distribution Network Phase 1	А	337,200	0	-	137
TOTAL EQUIPMENT PROGRAM		\$977,600	\$640,400	\$53,910	
Total 2016 Capital Program - Unfunded		\$2,077,960	\$1,740,760	\$66,612	

#### 2016 Summary of Projects Funded by Revolving Fund

**PURPOSE:** Each year, the Revolving Fund is utilized to fund various capital projects. This summary shows the 2016 capital projects and the corresponding amounts funded by the Revolving Fund.

Project Name	Total Investment	Revolving Fund	Total OBI	Re
Roads	Investment	r unu	Tutai Obi	RC
Granville Avenue Lighting Upgrade	140,000	140,000	_	28
LED Street Light Replacement Plan	375,000	375,000	_	29
Root Damaged Surfaces	460,000	460,000	-	32
Shell Road Walkway	621,000	621,000	5,876	3.
Sidaway Road Street Lighting	250,000	250,000	17,625	3.
Street Light Pole Replacement-Seafair & Richmond Gardens - Phase 2	120,000	120,000	-	3
Total Roads	\$1,966,000	\$1,966,000	\$23,501	5
	\$1,700,000	<i>\$1,700,000</i>	\$23,391	
Minor Public Works				
PW Minor Capital - Traffic	250,000	250,000	8,250	6
Roads Minor Capital	250,000	250,000	1,250	7
Total Minor Public Works	\$500,000	\$500,000	\$9,500	,
	\$500,000	\$500,000	\$7500	
Major Building				
Brighouse Park Fieldhouse & Caretaker - Roof & Deck Repairs	250,000	250,000	-	7
Garratt Wellness Centre - Renewals & Upgrades	525,000	334,000	-	7
Project Development Advanced Design 2016	300,000	300,000	-	8
Total Major Building	\$1,075,000	\$884,000	\$0	
Minor Parks				
Parks Ageing Infrastructure Replacement Program	140,000	140,000	-	9
Playground Improvement Program	200,000	200,000	8,349	9
Total Minor Parks	\$340,000	\$340,000	\$8,349	
	\$3,881,000	\$3,690,000	\$41,350	

City Assist Factor on Parks Acquisition \$595,651

Total Funding from Revolving Fund	\$5,043,189
City Assist Factor on Roads DCC	\$405,000
City Assist Factor on Parks Development	\$352,538
City rissist ructor on runs requisition	<i><i><i><i>ϕ</i>ϕϕϕϕϕϕϕϕϕϕϕ</i></i></i>

# **Infrastructure Program 2016**

The City's Infrastructure Program assets include: road, drainage and sanitary pump stations, drainage, water, and sanitary mains.

#### 2016 Recommended Infrastructure - Roads Program

#### **Table of Contents**

Accessible Pedestrian Signal Program	20
Active Transportation Improvement Program	21
Annual Asphalt Re-Paving Program - MRN	22
Annual Asphalt Re-Paving Program - Non-MRN	23
Arterial Roadway Improvement Program	24
Donald Road - Local Area Service Program	25
Dyke Road – Fraserwood Road Widening and Trail Connection	26
Functional and Preliminary Design (Transportation)	27
Granville Ave Lighting Upgrade	28
LED Street Light Replacement Plan	29
Neighbourhood Walkway Program	30
No. 2 Road Widening, Steveston Highway to Dyke Road	31
Root Damaged Surfaces	32
Shell Road Walkway	33
Sidaway Road Street Lighting	34
Special Crosswalk Program	35
Street Light Pole Replacement - Seafair & Richmond Gardens - Phase 2 of 5	36
Traffic Calming Program	37
Traffic Signal Program	38
Transit-Related Amenity Improvement Program	39
Transit-Related Roadway Improvement Program	40

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Accessible Pedestrian Signal	Program	Submission ID:	5438
Location:	Various			
Cost:	\$250,000		OBI:	\$17,710
Funding Sources:	Roads DCC: Roads City Assist:	\$235,000 \$15,000		
Scope:	The general scope of work incluintersections that exceed the multiplication by the Transportation signage, and other accessible for are to allow the City to meet its by year 2020.	ninimum criteria for p Association of Can friendly features. Th	rioritized locations a ada, by providing au e proposed funding	s per the 2008 guidelines dible messaging, Braille level and project locations
	The program is proposed to be external funding contributions funding contribution.			
	For 2016, approximately 15 exi Accessible Signal systems. The of improvement may be refined funding and/or opportunity to pu improvements.	e actual locations wi I due to factors such	Il be determined in e as priority review, a	arly 2016. The exact scope vailability of external

Program:	Infrastructure Program	Sub-program:	Roads		
Project Name:	Active Transportation Improvement Program	Submission ID:	4691		
Location:	Various Locations				
Cost:	\$320,000	OBI:	\$9,592		
Funding Sources:	Roads DCC:\$300,800Roads City Assist:\$19,200				
Scope:	The general scope involves implementing cycling an Council-approved Cycling Network Plan by support cycling routes and off-street multi-use pathways; an enhancements to existing cycling and rolling infrast	ng: 1) the expansion d 2) cycling and rolli	n of various on-street		
	Typical elements of the program include the constru- street multi-use pathways primarily for transportatio signage, pavement markings, associated minor roa supplementary cycling and rolling amenity improver movement of cyclists and users of other wheeled de	n purposes, installat d geometric improve nents required to fac	ion of bike racks, new ments, and other		
	The following list of improvements is currently being planned for 2016 (subject to factors such as the completion of the detailed design, and confirmation of external funding):				
	1. Great Canadian Way (Bridgeport Road-Van Horne Way): upgrade of existing pathway and sidewalk on the west side to provide a 2-way off-street multi-use pathway;				
	2. Upgrade of intersections along the Railway Greenway to facilitate the crossing of pathway users (e.g., relocation of signal poles, installation of curb and gutter).				
	This project is proposed to be funded by the DCC program funding and may be eligible for funding from external agencies such as the provincial government, TransLink and/or ICBC.				

Program: Project Name:	Infrastructure Program Annual Asphalt Re-Paving Program - MRN	Sub-program: Submission ID:	Roads 4866
Location:	City Wide		
Cost:	\$914,000	OBI:	\$ -
Funding Sources:	MRN Rehab Reserve: \$914,000		
Scope:	This annual funding request is to re-pave MRN r Translink). A project list will be determined by th essential ancillary work such as curb and gutter and valve box adjustments, line painting, staff in	e end of 2015. The proj repairs, sidewalk and ro	ect includes the cost of bad base repair, manhole
	To maximize cost efficiencies, road projects are projects that are located within City roads and la		, sanitary and drainage
	Construction is scheduled to be completed by th	e end of 2016.	

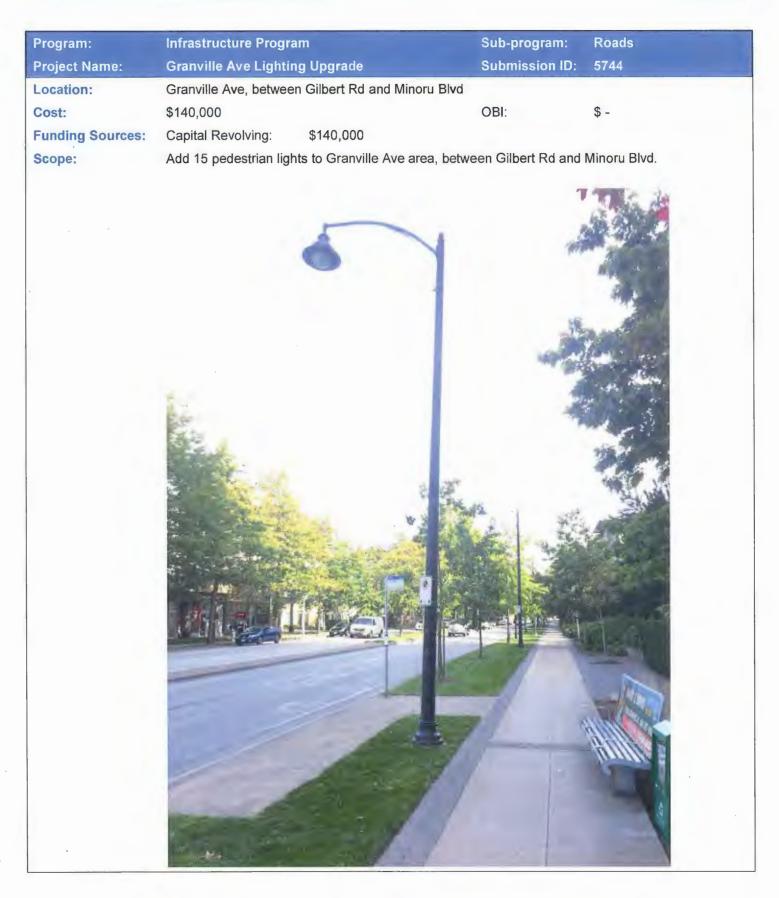
Program:	Infrastructure Program	Sub-program:	Roads
Project Name:	Annual Asphalt Re-Paving Program - Non-MRN	Submission ID:	4854
Location:	City Wide		
Cost:	\$2,610,000	OBI:	\$ -
Funding Sources:	Asphalt Capping Provision: \$2,610,000		
Scope:	This annual funding request is to re-pave City owned and lanes) in alignment with the City's Ageing Infrast determined by the end of 2015.		
	Funding from this project will be used to survey road Richmond Pavement Model. Model results will be us		
	The project does not include the cost of essential an (curb and gutter repairs, road base repair, manhole a inspection time and similar), which are included in th	and valve box adjust	stments, line painting, staff
	To maximize cost efficiencies, projects are co-ordina that are located within City roads and lanes.	ated with water, san	itary and drainage projects
	Model updates and construction are scheduled to be	e completed by the	end of 2016.
	<image/>		

Program:	Infrastructure Program		Sub-program:	Roads	
Project Name:	Arterial Roadway Improvement	nt Program	Submission ID:	4699	
Location:	Various Locations				
Cost:	\$300,000		OBI:	\$16,955	
Funding Sources:	Roads DCC: Roads City Assist:	\$282,000 \$18,000			
Scope:	The general scope includes imp roads and at arterial road inters public and/or Council on issues include the construction of new lanes, improved channelization, enhancements at intersections, arterial roads, priority would be pedestrian activities, such as so service centres, shopping/retail	ections in order to re related to pedestrial and/or enhancement intersection signage and illuminated stre given to walkways/s chools, neighbourhood	espond in a timely be n and traffic safety. It of existing walkwa e enhancement, insi et name signs. For idewalks connecting od service centres, b	asis to requests from the Typical improvements ys/sidewalks, new turn tallation of pedestrian safety sidewalks/walkways along plocations with high bus stops, recreational	
	This project is proposed to be funded by the DCC program funding and may be eligible for funding from external agencies such as the provincial government, TransLink and/or ICBC.				
	The following list of improvements is currently being planned for 2016/2017 (subject to factors such as the completion of the detailed design, confirmation of external funding, etc):				
	1. A new walkway along the north side of Bridgeport Road, from Viking Way to No. 6 Road;				
	2. A new southbound-to-eastbound left-turn lane at Garden City Road / Odlin Road;				
	<ol> <li>A new walkway along the eastside of No. 2 Road, from Granville Avenue to Westminster Highway.</li> </ol>				

Program:	Infrastructure Program	Sub-program:	Roads
Project Name:	Donald Road - Local Area Service Program	Submission ID:	5591
Location:	Donald Road and Gilbert Road		
Cost:	\$1,011,000	OBI:	\$9,183
Funding Sources:	Local Improvements Reserve: \$1,011,000		
Scope:	This Local Area Service Program project will wide lights and boulevard trees from the North side of the project cost will be recovered from a local ser scheduled to be completed by the end of 2016.	Donald road to the end	of Gilbert Road. 100% of

Program: Project Name:	Infrastructure Program Dyke Road – Fraserwood Road Widening and Trail Connection	Sub-program: Roads Submission ID: 5618
Location:	Dyke Road and Fraserwood Road	
Cost:	\$1,000,000	OBI: -
Funding Sources:	Roads DCC:         \$470,000           Roads City Assist:         \$30,000           Parks DCC:         \$470,250           Parks City Assist:         \$29,750	
Scope:	Extend the width of the existing road and include a Road, between the 22,000 and 24,000 block of Dylarea (East Richmond).	
	Purpose of this project is to address public concern movement of pedestrians and trail users in the area extended trail connection along this stretch of Dyke the widening of approximately 700 linear metres of accommodate opposing large commercial vehicles p multi-use trail pathway along Dyke Road. In assoc trail will provide improved passage for pedestrians side of Dyke Road is home to light industrial land u includes a mixture of marine and residential land us This program supports Council Term Goal 2: A Vib Quality Infrastructure Networks.	a by improving the driving width and providing Road in east Richmond. The scope includes existing road where necessary to better bassing each other, and to provide a separate ciation with road widening being proposed, the and cyclists along this corridor. The land (north ses, whereas the river (south) side of the road ses.

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Functional and Preliminar (Transportation)	y Design	Submission ID:	4389
Location:	Various locations		<ul> <li>Control (Control (Contro) (Control (Contro) (Control</li></ul>	
Cost:	\$25,000		OBI:	\$ -
Funding Sources:	Roads DCC: Roads City Assist:	\$23,500 \$1,500		
Scope:	Project scope includes prep required for various transpo Specifically, with this projec cross-section, property impa order to carry out further de	rtation capital projects t, the necessary funct acts, etc. as well as hi	identified within the F ional road elements in gh level cost estimates	ive-Year Capital Program. horizontal alignment,
	project is for consultant and 2% of the cost estimate of of functional designs; design friend within those projects.	apital projects include	ed within annual capita	programs that require
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Program: Project Name:	Infrastructure Program LED Street Light Replacement Plan	Sub-program: Submission ID:	Roads 5660
Location: Cost:	City Wide \$375,000	OBI:	(\$21,500)
Funding Sources:	Capital Revolving: \$375,000		
Scope:	The City has 3,780 HPS (high pressure sodium) ligh life. Replacing these less efficient HPS light fixtures reduce annual energy consumption and improve energy	with LEDs (Light-en	ast the end of their useful nitting diodes) would
· .	Phase 1 of this project proposes to replace approxim starting with the fixtures that are the oldest and most submissions will be brought forward for consideration fixtures.	t in need of replacer	ment. Additional capital

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Neighbourhood Walkway Program		Submission ID:	5441
Location:	Various Locations			
Cost:	\$250,000		OBI:	\$12,287
Funding Sources:	Roads DCC: Roads City Assist:	\$235,000 \$15,000		
Scope:	The general scope of this pro- neighbourhood walkways/sid Council. Consistent with OC priority would be given to wal such as schools, neighbourh shopping/retail centres, etc., cost component of the progra wheelchair ramps, minor curl improvements. Projects will b	ewalks in the City, ir P goals to encourag lkways/sidewalks co ood service centres, particularly roads wi am is the constructio b cuts, boulevard mo	n response to requests e the use of sustainable nnecting locations with bus stops, recreationa th high traffic volumes/i n/upgrade of new/exist odifications, and/or othe	from the public and/or e transportation modes, high pedestrian activities, l services centres, traffic conflicts. The major ing sidewalks, pathways, er supplementary
	The program is proposed to I funding contributions from IC		C program and may be	eligible for external
	For 2016, the following has b side of Seacote Road, from t only gap in sidewalk along So walkways identified through r	he lane north of Will eacote Road north o	ams Road to approxim f Williams Road. There	ately 150m north, to fill the

Program:	Infrastructure Program	Sub-program:	Roads		
Project Name:	No. 2 Road Widening, Steveston Highway to Dyke Road	Submission ID:	5476		
Location:	No. 2 Road, from Steveston Highway to Dyke Road				
Cost:	\$7,300,000	OBI:	\$34,321		
Funding Sources:	Roads DCC:         \$3,572,000           Roads City Assist:         \$228,000           Grant:         \$3,500,000				
Scope:	The general scope of this project includes wide Highway and Dyke Road and provision of a sha No.2 Road. Major components of the project ar	ared continuous cycling/p			
	<ul> <li>At Steveston Highway and Moncton Road inte selective widening and appropriate intersection warranted;</li> </ul>				
	<ul> <li>Moncton Road to Dyke Road: upgrade the road to collector standard and maintain parking on the east side (no parking will be provided on the west side as per existing conditions);</li> </ul>				
	- A new traffic signal at Moncton Road;				
	- A shared cycling/pedestrian pathway along No.2 Road (east side from Steveston Highway to the existing crosswalk located approximately 260m south of Andrews Road then swing over to the west side to Dyke Road); and				
	<ul> <li>Hydro/Tel/cable portion of cost estimate includes pole relocation and potential cost to acquire lands along east side of No. 2 Road, where required</li> </ul>				
	In July 2015, the federal government (Transport Canada) announced that this project was selected to receive funding from the Asia-Pacific Gateway and Corridor Transportation Infrastructure Fund (APGCTIF), up to \$3.5M of the eligible project costs (i.e., not including land acquisition costs).				
	This project is proposed to be phased over 201 detailed design works in early 2016. Once the construction will commence accordingly and the by end of 2017.	lesign is completed, site	preparation and		

Program:	Infrastructure Program		Sub-program:	: Roads	
Project Name:	Root Damaged Surfaces		Submission II	D: 5659	
Location:	Various				
Cost:	\$460,000		OBI:	\$ -	
Funding Sources:	Capital Revolving:	\$460,000	-		
Scope:	To repair sidewalks damaged by trees in Terra Nova, Dover Crescent, Francis, No. 5 Rd, Bird Rd, and Vulcan Way neighborhoods where boulevard trees have been planted adjacent to sidewalks, roadways, curbs and gutters.				
	The trees were planted 10 or more years ago, at which time root barriers and tree wells were not a requirement. These trees have now matured and are causing significant damage to the surrounding surfaces. This damage is beyond the point of traditional maintenance type repairs. If left unattended both functionality and public safety will continue to be reduced.				



Duration of Minister	Infrastructure Program		Sub-program:	Roads
Project Name:	Shell Road Walkway		Submission ID:	5592
_ocation:	Shell Road from Alderbridge	to Westminster Hwy		
Cost:	\$621,000		OBI:	\$5,876
Funding Sources:	Capital Revolving:	\$621,000		
Scope:	Replace an 800 metre failing walkway with a widened 3.0m wide asphalt walkway along Shell Rd between Alderbridge Way and Westminster Hwy. Extruded curbs to separate the walkway from the traveled portion of the roadway. This is a two directional walkway shared between pedestrians and cyclists.			
	Construction is scheduled to	be completed by the	end of 2016.	

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Sidaway Road Street Lighting		Submission ID:	5589
Location:	Sidaway Road South from Westn Steveston Hwy	ninster Hwy to	_	
Cost:	\$250,000		OBI:	\$17,625
Funding Sources:	Capital Revolving:	\$250,000		
Scope:	This is a stand-alone project to install additional street lighting on Sidaway Road South from Westminster Hwy to Steveston Hwy. 10 city street lights and 37 BC Hydro leased lights will be installed. Construction is scheduled for completion by the end of 2016.			
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Program:	Infrastructure Program Special Crosswalk Program		Sub-program:	Roads	
Project Name:			Submission ID:	4669	
				Laboration in the second	
Location:	Various Locations				
Cost:	\$350,000		OBI:	\$17,680	
Funding Sources:	Roads DCC: Roads City Assist:	\$329,000 \$21,000			
Scope:	The general scope involves implementing new traffic control standards that have been adopted by Council, at existing crosswalks on arterial roads. Typical elements of the program include the upgrade of existing crosswalks on arterial roads (typically four-lane arterials) to include overhead illuminated signs with amber flashers, pedestrian-controlled push buttons, as well as enhanced accessible devices. The upgrade would include hardware such as poles, bases, junction boxes, underground/communication conduits, controller, enhanced accessible devices, related wiring, pavement markings, illuminated crosswalk signs, amber flashers, push buttons, etc.				
	The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from ICBC. Some locations may also include funding contribution from nearby developments.				
	The following is the preliminary list of potential locations identified for 2016/2017. The exact scope of improvement may be refined due to factors such as priority review, availability of external funding, etc.:				
	- No 4 Rd. & Dayton Rd.				
	- Garden City Rd. & Jones Rd.				
	- Westminster Hwy & Tiffany Blvd.				
	- Williams Rd. & Deagle Rd.				
	- Willaims Rd. & Lassam Rd.				
	- Granville Ave. & Bridge St.				
	- St. Albans Rd. & Jones Rd.				

Program: Project Name:	Infrastructure Program Street Light Pole Replacement - Seafair & Richmond Gardens - Phase 2 of 5	Sub-program: Submission ID:	Roads 5174		
Location:	Seafair and Richmond Gardens				
Cost:	\$120,000	OBI:	\$ -		
Funding Sources:	Capital Revolving: \$120,000				
Scope:	Remove and replace approximately 200 existing streetlights poles and retrofit concrete bases to allow for the proper installation of new street light poles in the Seafair and Richmond Gardens subdivisions. This is phase 2 of the 5 year project, totaling \$600,000.				
	Construction of phase 2 is scheduled for completion by the end of 2016.				

Program:	Infrastructure Program		Sub-program:	Roads	
Project Name:	Traffic Calming Program		Submission ID:	4700	
Location:	Various Locations				
Cost:	\$100,000		OBI:	\$10,882	
Funding Sources:	Roads DCC: Roads City Assist:	\$94,000 \$6,000			
Scope:	The general scope involves the through (short-cutting) traffic and measures are intended to addre traffic intrusions and other traffic	d excessive speed or ss concerns related	n the City's public r	oads. Specifically, these	
	Typical elements of the program address traffic safety concerns a of the program is the installation construction of curb extensions, delineated walkways, traffic sign contained in this program may a of trees and other landscaping in overall street appearance.	and enhancing neigh of traffic calming rel centre medians, ext age and other traffic lso include suppleme	bourhood livability. ated improvements ruded curbs, traffic reducing measure entary streetscape	The major cost component that includes the circles, speed humps, s. In addition, projects improvements, i.e. Planting	
	The exact scope will be determined pending on the request and complaints expected to be received by members of public and Council, as well as subject to factors such as the availability of external funding, and/or opportunity to pursue these improvements as part of development frontage improvements.				
	The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from TransLink and ICBC.				

Program:	Infrastructure Program		Sub-program:	Roads	
Project Name:	Traffic Signal Program		Submission ID:	4692	
Location:	Various Locations				
Cost:	\$600,000		OBI:	\$25,480	
Funding Sources:	Roads DCC: Roads City Assist:	\$564,000 \$36,000			
Scope:	The project includes the followi	ng three key comp	onents:		
	<ol> <li>Install new or upgrade existing to better manage pedestrian and</li> </ol>				
	<ol> <li>Install video detection camer vehicles and bicycles, optimize Traffic Management Centre (TM (in one minute intervals) of app</li> </ol>	traffic operations, MC) for observing a	provide real time vide and enhancing operati	o of traffic conditions to ons, and providing photos	
	<ol> <li>Upgrade conduit and cable in electronics for Ethernet to commissionals. Includes conduit, juncti switching equipment as require such as controllers, electronic sintersection power back-up system.</li> </ol>	municate with mult ion boxes, fibre op ed to link multiple tr switches, video car	iple remote programm tic cable and electron affic signal electronic neras, accessible ped	able devices at traffic ic communications components to the TMC	
	The major cost component of the program is the installation of traffic controllers/cabinets, poles, bases, junction boxes, underground conduits, in ground and video detection systems, enhanced accessible devices, wiring and pavement markings, traffic signal communications, minor corner property acquisitions, and minor curb cuts and boulevard modifications as necessary.				
	The program is proposed to be funded by the DCC program funding and may be eligible for external funding.				
	The exact scope will be determ to factors such as the availabili improvements as part of develo sites for new traffic signals in 2	ty of external fundi opment frontage im	ng, and/or opportunity provements. Currently	to pursue these y, two potential candidate	
		aba tin	B		

Program:	Infrastructure Program	Sub-progran	n: Roads
Project Name:	Transit-Related Amenity Improvement P	rogram Submission	ID: 5440
Location:	Various Locations		
Cost:	\$250,000	OBI:	\$6,917
Funding Sources:	Roads DCC:\$94,00Roads City Assist:\$6,00Developer Contribution:\$150,00	0	
Scope:	The general scope includes transit-related ways that are required to support the introd as on-going enhancements to existing tran expected to include the installation of new transit routes and other pedestrian generat improvements required to facilitate pedestri	uction of various transit sit infrastructure. The ma non-advertising bus stop ors, and other suppleme	service improvements as well ajor cost components are shelters, new benches along ntary pedestrian amenity
	The program is proposed to be funded by to contribution (\$150,000) and may be eligible ICBC. Some locations may also include fur	e for external funding cor	tributions from TransLink and
	Locations for bus stop shelters will be prior subject to sufficient availability of right-of-winclude: - Southbound No. 3 Rd far-side Williams R - Northbound No. 2 Rd far-side Danube Rd - Northbound Cooney Rd far-side Westmin - Northbound Garden City Rd far-side Fern - Eastbound Blundell Rd far-side Moffatt Rd - Westbound Cook Rd far-side Garden City - Eastbound Granville Ave far-side Gilbert - Westbound Cambie Rd far-side Shell Rd - Northbound Garden City Rd far-side Willi - Eastbound Garden City Rd far-side Willi - Eastbound Garden City Rd far-side Lan: - Westbound Garden City Rd far-side Lan: - Westbound Granville Ave far-side Minoru - Eastbound Chatham Street near-side 2n - Eastbound Steveston Hwy far-side Seaw The exact scope of improvements may be detailed design, availability of external func- as part of development frontage improvem	ay. Potential locations id d ster Hwy dale Rd d Rd Rd Rd ams Rd by sdowne Rd d Avenue Blvd rard Gate refined subject to factors ling, and/or opportunity t	entified for 2016 and 2017
4761439	FIN - 11	1	Page

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Transit-Related Roadway Improven Program	nent	Submission ID:	5439
Location:	Various Locations			
Cost:	\$200,000 <sup>′</sup>		OBI:	\$6,807
Funding Sources:	Roads City Assist:	94,000 \$6,000 00,000		
Scope:	The general scope includes municipal the introduction of various transit serv existing transit infrastructure. The maj new bus stop pads, minor road geome minor sidewalk/walkway construction, accessible (wheelchair) standards, etc passengers.	ice improveme jor cost compor etric improveme wheelchair rar	nts as well as on-go nents are expected ents (e.g. intersection nps, upgrade of exi	bing enhancements to to include the installation of on corner improvements), sting bus stops to
	The program is proposed to be funder external funding contributions from Tr contribution from nearby development	ansLink and IC		
	Locations for bus stop landing pad im activity and customer requests subject for 2016 include: Railway Ave/Francis Gate, Horseshoe Way/Horseshoe Pl, approximately 20 additional locations Bus Company.	t to sufficient a Rd, Railway A Gilbert Rd/Luc	vailability of right-of ve/Linfield Gate, S as Rd, Steveston H	-way. Potential locations teveston Hwy/Roseland wy/Bonavista Gate and
	The exact scope of improvement may detailed design, availability of externa as part of development frontage impro	l funding, and/o		

## 2016 Recommended Infrastructure – Drainage Program

#### **Table of Contents**

Aquatic Invasive Species Management	42
Development Coordinated Works in Capital	43
Dike Upgrades	44
Drainage System and Irrigation Upgrades - South Sidaway Area Phase 2	45
Gilley and Westminster Hwy Culvert Replacement	46
Laneway Drainage Upgrade - Dennis Crescent (West)	47
Laneway Drainage Upgrade - Swinton Cr (East)	48
No. 4 Road Box Culvert Section Replacement	49
No. 7 Road South Drainage Pump Station Upgrade	50

Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Aquatic Invasive Species Management	Submission ID:	5707
ocation:	City Wide		
Cost:	\$175,000	OBI:	\$ -
Funding Sources:	Drainage Utility: \$175,000		
Scope:	The general scope includes the identification, invasive species from the City drainage syste performance of the drainage system. Typical or minimize the spread of aggressive invasive loosestrife, mapping and control treatments for infrastructure (i.e. pump stations) and biodive of-ways and City drainage infrastructure. The invasive species in order to reduce the impact	m and City lands, with a vi activities will include contr species such as Parrot's or knotweed species which rsity, and removal of wild o intent of this program is t	ew to maintain the require ol techniques to eliminate feather and purple pose a threat to City chervil from roadside right- poreduce the spread of

Program: Project Name:	Infrastructure Program Development Coordinated Works in Capital	Sub-program: Submission ID:	Drainage 5306
Location:	City Wide		
Cost:	\$200,000	OBI:	\$ -
Funding Sources:	Drainage Utility: \$200,000		,
Scope:	This project will fund infrastructure upgrades and development projects that are outside of the dev	l replacements co-ordir elopment's scope.	ated through City or privat
	Although not currently scheduled, construction is opportunities to leverage development occurs.	expected to proceed t	hrough 2016 and 2017 as
		1699	

Program:	Infrastructure Program		Sub-program: Drainage	
Project Name:	Dike Upgrades		Submission ID:	5160
ocation:	City Wide		0.51	0
Cost:	\$750,000		OBI:	\$ -
Funding Sources:	Drainage Utility:	\$750,000		
Scope:	Raise a section of existing dike South Arm. Construction is sch	by approximately 1. eduled to be comple	.2 meters, along the eted by the end of 20	Fraser River's North and
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Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Drainage System and Irrigation Upgrades - South Sidaway Area Phase 2	Submission ID:	5585
Location:	Sidaway Road and Steveston Hwy		
Cost:	\$450,000	OBI:	\$1,250
Funding Sources:	Drainage Utility: \$450,000		
Scope:	Replace and lower culvert watercourse crossings a Highway between Sidaway Road and Palmberg Ro Highway and the Francis Road Right-of-Way for an undertaken in 3 phases to balance other drainage phases is scheduled to be completed by the end of	bad and on Sidaway oproximately 1,800m. funding priorities. Co	Road between Steveston The work is being

Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Gilley and Westminster Hwy Culvert Replacement	Submission ID:	5586
Location:	Gilley Road and Westminster Hwy		
Cost:	\$1,250,000	OBI:	\$1,570
Funding Sources:	Drainage Utility: \$1,250,000		
Scope:	Replace the existing 25 metres long drainage cu Density Polyethylene (HDPE) pipes at the inters	ulvert with 2x 85 metres section between Westmi	1500mm diameter High nster Hwy and Gilley road.
	Construction is scheduled to be completed by the	ne end of 2016.	

## Appendix 6

## Details of Recommended Projects by Program

Program:	Infrastructure Program		Sub-program:	Drainage
Project Name:	Laneway Drainage Upgrade (West)	- Dennis Crescent	Submission ID: 4763	
Location:	Dennis Crescent West Lanew Road to Aquila Road	ay from Wilkinson		
Cost:	\$245,000		OBI:	\$3,344
Funding Sources:	Drainage Utility:	\$245,000		
Scope:	Install drainage and upgrade 3 Aquila Road and Wilkinson Ro Construction is scheduled to b	oad. Does not include	the addition of street	
	Funding is requested from the Paving Program.	e Drainage Utility. Pav	ing will be completed	d under the Annual Aspha

## Appendix 6

## **Details of Recommended Projects by Program**

Program:	Infrastructure Program		Sub-program:	Drainage
Project Name:	Laneway Drainage Upgrade -	Swinton Cr (East)	Submission ID:	4784
Location:	Swinton Crescent between Aqui Maddocks Road	ila Road and		
Cost:	\$240,000		OBI:	\$3,298
Funding Sources:	Drainage Utility:	\$240,000		
Scope:	Install drainage and upgrade 37 Aquila Road and Maddocks Roa Construction is scheduled to be	ad. Does not include	the addition of stree	
	Funding is requested from the D Paving Program.	Drainage Utility. Pavi	ng will be completed	d under the Annual Asphal

Program:	Infrastructure Program	Sub-program:	Drainage	
Project Name:	No. 4 Road Box Culvert Section Replacement	Submission ID:	5760	
Location:	South of the No 7 Road Right-of-Way			
Cost:	\$630,000	OBI:	\$-	
Funding Sources:	Drainage Utility: \$630,000			
Scope:	Scope of work includes upgrade of approximately 3 road by Tuttle Ave. The existing culvert has undergo there are signs of deterioration due to the end of se the overall condition and performance of the drainage	one repairs in the pa rvice life. Completior	st couple of years and	
	Construction is scheduled to be completed by Summ	mer of 2016.		

Program:	Infrastructure Program		Sub-program:	Drainage	
Project Name:	No. 7 Road South Drain Upgrade	age Pump Station	Submission ID:		
Location:	South of the No 7 Road F	Right-of-Way	and and a set of the s	and the second	
Cost:	\$4,500,000		OBI:	\$10,465	
Funding Sources:	Drainage Utility:	\$4,500,000			
Scope:	Demolish the existing pur and landscape the constr 2017.	np station and rebuild it uction area. Constructio	to a modern standard, n is scheduled to be co	make local dike upgrades, ompleted by the end of	

#### 2016 Recommended Infrastructure - Water Main Replacement Program

#### Table of Contents

Development Coordinated Works in Capital	. 52
Residential Water Metering	.53
Spires Area Water, Sanitary, and Drainage Upgrade	54
Watermain Installation - Lulu Island East Area	55
Watermain Replacement - Lulu Island West Area	56

Program:	Infrastructure Program		Sub-program:	Water Main Replacement
Project Name:	Development Coordinated V	Works in Capital	Submission ID:	5310
Location:	City Wide			
Cost:	\$250,000		OBI:	\$ -
Funding Sources:	Water Utility:	\$250,000		
Scope:	This project will enable the Ci construct water infrastructure			
	These are upgrades and repla separately but economic and complete this work at the sam	engineering efficiencie	s can be achieved b	ity would complete by having the developer

Program:	Infrastructure Program	Sub-program:	Water Main Replacement
Project Name:	Residential Water Metering	Submission ID:	5162
Location:	City Wide		
Cost:	\$1,920,000	OBI:	\$96,250
Funding Sources:	Water Utility:\$6Water Metering Provision:\$1,3	600,000 320,000	
Scope:	This project is year 3 of the 5-year un volunteer metering program for multi-	iversal metering program for singl family dwellings.	e-family dwellings, and a

Program:	Infrastructure Program Spires Area Water, Sanitary, and Drainage Upgrade		Sub-program:	Water Main Replacement	
Project Name:			Submission ID:	5587	
Location:	Cooney Rd, Spires Gate, Cook Gate and Cook Rd				
Cost:	\$4,500,000		OBI:	\$2,493	
Funding Sources:	Water Utility:\$1Sanitary Utility:\$Water DCC:\$Sewer DCC:\$	947,000 ,378,124 994,005 6424,876 6581,873 6174,122			
Scope:	Watermain, sanitary sewer, drainage Cooney Rd. and Cook Rd. area as f		nent and upgrades	will be constructed in the	
	Watermain (1500metres): \$1	,803,000			
	Sanitary Sewer (390metres): \$1	,750,000			
	Drainage Sewer (400metres):	\$947,000			
	scheduled to be completed by the e	nd of 2016.			

Program:	Infrastructure Program	Sub-program:	Water Main Replacement
Project Name:	Watermain Installation - Lulu Island East Area	Submission ID:	4796
Location:	See Scope		
Cost:	\$370,000	OBI:	\$6,250
Funding Sources:	Water Utility: \$370,000		
Scope:	This project includes the installation of 370m of 300 ends on Sidaway Rd, between Blundell Rd and Wes		nain to connect two dead

Program:	Infrastructure Program	Sub-program:	Water Main Replacement
Project Name:	Watermain Replacement - Lulu Island West Area	Submission ID:	5302
Location:	See scope		
Cost:	\$4,040,000	OBI:	\$ -
Funding Sources:	Water Utility:         \$3,503,580           Water DCC:         \$531,109           Water City Assist:         \$5,311		
Scope:	This project includes the installation of 4700 me existing infrastructure.	eters of 200mm diameter	watermain to replace the
	The Waterworks Capital Program is based on proposed road-paving program.	watermain age, material,	break history and the
	The program replaces ageing infrastructure pri	or to failure and improves	s fire protection.

## 2016 Recommended Infrastructure – Sanitary Sewer Program

#### Table of Contents

City Centre Sanitary Sewer Rehabilitation	58
Development Coordinated Works in Capital	
Granville Ave Infrastructure Upgrade	60
Miscellaneous SCADA System Improvements	61
Sanitary Pump Replacements	62
Sanitary Pump Station Rehabilitation	63
Steveston Sanitary Sewer Rehabilitation	64

Program:	Infrastructure Program		Sub-program:	Sanitary Sewer
Project Name:	City Centre Sanitary Sewer	Rehabilitation	Submission ID:	5013
Location:	Various Locations			
Cost:	\$1,160,000		OBI:	\$1,246
Funding Sources:	Sanitary Utility:	\$1,160,000		
Scope:	This project involves rehabilit grouting) of sanitary sewer m rehabilitation work is based o program.	ains in various locati	ons of the City Centre	Sanitary Sewer Area. The
	Rehabilitation will extend the related infrastructure failures,		ry sewers, lower their	ifecycle costs and prevent
	If ageing sanitary sewers are maintenance costs will increa increase.	not rehabilitated, se ase and the risk of da	rvice levels will decrea amage to local road an	ise, operation and d utility infrastructure will
	The project supports an object sewage system to protect put			to maintain an efficient

Program: Project Name:	Infrastructure Program Development Coordinated Works in Capital	Sub-program: Submission ID:	Sanitary Sewer 5316
Location:	Various Locations		
Cost:	\$150,000	OBI:	\$2,493
Funding Sources:	Sanitary Utility: \$150,000		
Scope:	This project will enable the City to leverage develo construct sanitary infrastructure outside of what we		
	<text></text>	cies can be achieved b	<image/>

Program: Project Name:	Infrastructure Program Granville Ave Infrastructure Upgrade		Sub-program: Submission ID:	Sanitary Sewer 5742
Location:	Granville Ave, between Gilbert Ro	and Minoru Blvd		
Cost:	\$900,000		OBI:	\$1,838
Funding Sources:	Drainage Utility: Water Utility: Sanitary Utility:	\$210,000 \$190,000 \$500,000		
Scope:	Water, sanitary and drainage upg as follows:	rades to Granville	Ave area, between	Gilbert Rd and Minoru Blvd,
	Water \$190,000			
	Sanitary \$500,000			
	Drainage \$210,000			

Program:	Infrastructure Program	Sub-program:	Sanitary Sewer
Project Name:	Miscellaneous SCADA System Improvements	Submission ID:	4841
Location:	Various Locations		
Cost:	\$250,000	OBI:	\$18,785
Funding Sources:	Sanitary Utility: \$250,000		
Scope:	This project involves rehabilitating and upgrading of throughout the SCADA network.	computer, instrument	and electrical installations
	Via its SCADA system, the City monitors and cont mechanical and electrical equipment. This project operation, as well as maintain system security and	will maintain and impl	rove sanitary sewer system
	Failure to complete the work will result in increase service levels and increasing cost and disruption of repairs.		

Program:	Infrastructure Program		Sub-program:	Sanitary Sewer
Project Name:	Sanitary Pump Replacements		Submission ID:	5392
Location:	Various Locations			
Cost:	\$150,000		OBI:	\$2,493
Funding Sources:	Sanitary Utility:	\$150,000		
Scope:	This project includes replacing ex existing pumps have been in ser- manufacturer's suggested service consumption, and service disrupt	vice for up to 43 y e life. The new pu	ears, which is signific	antly over the
	Planned upgrades include the fol	llowing pump stat	ions:	
	Colbeck, Cheviot, Donald, Living	stone, McLennan	, Piggott East, Piggott	West, Utah North, Utah
	South, Berry, Daniels, Gabriola, I	Lurgan, Minler, Pa	almer	

Program: Project Name:	Infrastructure Program Sanitary Pump Station Rehabil	itation	Sub-program: Submission ID:	Sanitary Sewer 5630
Location:	Various Locations		OBI:	\$2,493
Cost: Funding Sources:	\$300,000 Sanitary Utility:	\$300,000	OBI.	φ2,493
Scope:	This project involves the rehabilit Bennett East, and Edgemere. So upgrade, new motor control center aluminum hatch installation.	ation of existing san	s electrical kiosk re	placement, power supply

Seate of Manager	Infrastructure Program		Sub-program:	Sanitary Sewer
Project Name:	Steveston Sanitary Sewer Rel	nabilitation	Submission ID:	5391
ocation:	Various Locations			
Cost:	\$410,000		OBI:	\$1,246
Funding Sources:	Sanitary Utility:	\$410,000		
Scope:	This project involves rehabilitati grouting) of sanitary sewer mair rehabilitation work is based on o program.	is in various location	s of the Steveston S	Sanitary Sewer Area. The
	Rehabilitation will extend the se related infrastructure failures, su		sewers, lower their	lifecycle costs and prevent
	If ageing sanitary sewers are no maintenance costs will increase increase.			
	The project supports an objective sewage system to protect public.			

#### 2016 Recommended Infrastructure - Minor Public Works Program

#### Table of Contents

Drainage Minor Capital	66
Public Works Minor Capital - Sanitary	67
Public Works Minor Capital - Water	68
PW Minor Capital - Traffic	69
Roads Minor Capital	70

Program: Project Name:	Infrastructure Program Drainage Minor Capital	,	Sub-program: Submission ID:	Minor Public Works 4765
Location:	City Wide			
Cost:	\$450,000		OBI:	\$1,250
Funding Sources:	Drainage Utility:	\$450,000		
Scope:	Complete minor drainage infrastruc chamber installation, sewer pipe an installation of monitoring equipmer efficiencies and responding to resid construction is expected to proceed	nd manhole rehabi nt, safety upgrades dent service reque	ilitation, minor pum	p station projects, hnologies to improve

Program: Project Name:	Infrastructure Program Public Works Minor Capital - Sanit	tary	Sub-program: Submission ID:	Minor Public Works 4831
Location:	Various Locations		· · · · · · · · · · · · · · · · · · ·	
Cost:	\$300,000		OBI:	\$1,838
Funding Sources:	Sanitary Utility: \$	300,000		
Scope:	This project involves minor work rela upgrades, modifications to improve of technologies, forcemain repairs, site- manhole and valve box repairs.	operational efficient	ency and functional	ity, testing of new
	Every year, Engineering and Public N minor capital program allows the dep effective manner.			

Infrastructure Program		Sub-program:	Minor Public Works
Public Works Minor Capital - V	Vater	Submission ID:	789
Various Locations			
\$560,000		OBI:	\$ -
Water Utility:	\$560,000		
repairs and replacements, opera	tional efficiencies, c	hanges to safety rea	quirements, testing of new
	Public Works Minor Capital - V Various Locations \$560,000 Water Utility: This project involves minor work repairs and replacements, opera technologies, and response to re Every year, Engineering and Put minor capital program allows the	Public Works Minor Capital - Water Various Locations \$560,000 Water Utility: \$560,000 This project involves minor work related to the water repairs and replacements, operational efficiencies, c technologies, and response to resident complaints th Every year, Engineering and Public Works receives minor capital program allows the department to resp	Public Works Minor Capital - Water       Submission ID:         Various Locations       \$560,000       OBI:         Vater Utility:       \$560,000       States of the st

#### Appendix 6

Program:	Infrastructure Program		Sub-program:	Minor Public Works
Project Name:	PW Minor Capital - Traffic		Submission ID:	4705
	Mariana			
Location:	Various Locations		0.51	<b>A</b> 0.050
Cost:	\$250,000	4050 000	OBI:	\$8,250
Funding Sources:	Capital Revolving:	\$250,000		
Scope:	The general scope of this program includes the follow			ffic systems as required.
	A. Traffic Improvements: for un wheelchair ramps, traffic signage separate from the programs whether the separate from the programs whether the separate from the programs whether the separate from the separate	ge, pavement markin	gs and traffic safety	
	B. Traffic Signal/Communicatio ongoing infrastructure developr Roads DCC would fund new tra	ment testing and com		
	This program is an annual recu as general revenue. Funding a these projects may be available	ssistance from ICBC	and TransLink's MI	RN sources for some of

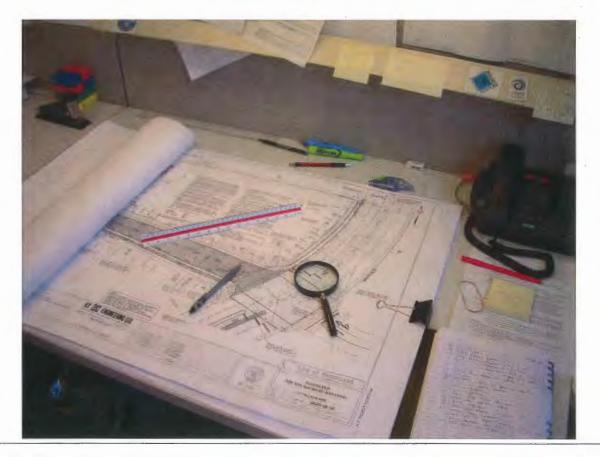
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Program:	Infrastructure Program	Sub-program:	Minor Public Works
Project Name:	Roads Minor Capital	Submission ID:	4895
Location:	City Wide	·	
Cost:	\$250,000	OBI:	\$1,250
Funding Sources:	Capital Revolving: \$250,000		
Scope:	Complete minor road related infrastructure upgrade limited to, the installation of wheel chair ramps, the small road sections (e.g. that are damaged through repair, and responding to resident service requests.	replacement of unev tree root ingress or	en sidewalks, curbs and

## 2016 Recommended Infrastructure – Infrastructure Advanced Design Program

W Infrastructure Advanced Design
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Program:	Infrastructure Program PW Infrastructure Advanced Design		Sub-program: Submission ID:	Infrastructure Advanced Design & Land 5041
Project Name:				
Location:	City-Wide			
Cost:	\$1,255,000		OBI:	\$ -
Funding Sources:	Drainage Utility: Water Utility: Sanitary Utility: Roads DCC: Roads City Assist:	\$500,000 \$430,000 \$270,000 \$51,700 \$3,300		
Scope:	The scope of work includes hiring consultants and contractors to plan and design the 2017 capita plan and deliver reports that define long-term infrastructure upgrades.			
	Sanitary Project Design and Plann	ing \$220,000		
	Sanitary System Modelling	\$50,000		
	Water Project Design and Planning	g \$380,000		
	Water System Modelling	\$50,000		
	Drainage Project Design and Planning \$500,000			
	Roads	\$55,000		
	Total	\$1,255,000		



# 2016 Recommended Infrastructure – District Energy Utility Program

City Centre District Energy	Utility	.74
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Program: Project Name:	Infrastructure Program City Centre District Energy Utility	Sub-program: Submission ID:	District Energy Utility 5601
rioject Maine.	City Centre District Energy Curry		
Location:	City Centre		
Cost:	\$400,000	OBI:	\$ -
Funding Sources:	Water Utility: \$400,000		
	neighbourhoods, including DEU corridors. Co developments. Legal fees for negotiation, der Coordinating negotiation of DEU servicing ag Negotiation and implementation of a Reques plan to provide district energy services in the for transfer of the Alexandra DEU assets und	velopment and registration preements, and implementa t for Expressions of Interes City Centre North (Capsta	of DE-ready covenants. tion of City Centre DEU. t (RFEOI) to execute the n) area. Professional fees

# **Building Program 2016**

The building program includes major building construction and renovation projects as well as minor facility upgrades and repairs. The City's building assets include: arenas, pools, community centres, libraries, heritage buildings, police stations, fire halls and other government facilities.

#### 2016 Recommended Building Program

Brighouse Park Fieldhouse & Caretaker - Roof & Deck Repairs	76
Direct Digital Control Upgrade and Consolidation	77
Energy Management Projects - 2016	78
Garratt Wellness Centre - Renewals & Upgrades	79
Project Development Advanced Design 2016	80

#### Appendix 6

Program:	Building Program		Sub-program:	Major Building
Project Name:	Brighouse Park Fieldhouse & Care & Deck Repairs	taker - Roof	Submission ID:	5405
Location:	7840 Granville Ave.			
Cost:	\$250,000		OBI:	\$ -
Funding Sources:	Capital Revolving: \$2	250,000		
Scope:	The facility currently is in poor conditi			

the life-cycle renewals will correct identified requirements reducing maintenance costs and reduce the FCI to 10% ensuring many more years of service to the community.

Existing wood observation deck is rotten and affecting the integrity of the roof underneath. The membrane underneath is deteriorating and will be replaced. The roof with concrete pavers has deteriorated and some pavers are cracked with vegetation growing. Metal roofing requires inspection, screws, fasteners, and grommets, which will be replaced as needed.

Miscellaneous upgrades identified as work proceeds.



Program:	Building Program	Sub-program:	Major Building	
Project Name:	Direct Digital Control Upgrade and Consolidation	Submission ID:	5621	
Location:	Various City Facilities	A second s		
Cost:	\$250,000	OBI:	\$ -	
Funding Sources:	Enterprise: \$250,00	00	٨	
Scope:	The general scope of work for this Phase 2 control systems associated with HVAC and Upgrade and Management Plan.			
	There are approximately 25 City buildings control mechanical and lighting functions. parameters, equipment performance, and problems. Currently the City has seven diff systems having reached their end of life. T systems are now obsolete, makes it challe monitor, and operate the comfort systems	These systems are used to m building scheduling, as well a ferent types of control applica he number of different system nging to effectively and efficie	onitor and adjust comfort s remotely diagnose tions, with some of the ns and the fact that some	
	The replacement and upgrading of these s increased ability for effective and timely in- multiple legacy systems, and increased ab notification. (See associated spreadsheet	house programming, reduced ility for energy use monitoring	d training requirements for g and system anomaly	
	The DDC upgrade plan will be phased over 3 years with a funding breakdown of:			
	- Year 1: \$290,000 (2015 capital submission - being implemented)			
	- Year 2: \$241,500			
	- Year 3: \$195,000			
	Similar to Phase 1 of this project, it is proposed for Phase 2 to be funded from the Enterprise Fund with the anticipated energy utility cost savings (~\$38,000/year) from increased energy efficient operation of these buildings used to re-pay the fund.			
	In addition to internal funding, external inco the capital cost of the project or repay the		explored to potentially offset	

Program:	Building Program	Sub-program	n: Minor Building
Project Name:	Energy Management Projects - 201	6 Submission	ID: 4837
Location:	Various Locations		
Cost:	\$754,500	OBI:	\$ -
Funding Sources:	Enterprise: \$7	54,500	
Scope:	Reduce the energy used at City infra- at City locations;	structure through the following	energy conservation measures
	1. Fire Hall No.4, Fire Hall No.5, and	Fire Hall No.6 - Optimize heat	ing and cooling systems
	2. Community Safety Building - Optin	ize heating, control, and lighti	ing systems.
	3. Thompson Community Centre - Re	e-commission and optimize the	e geo-exchange system
	4. East Richmond Community Hall - (	Optimize heating, cooling and	lighting systems
	5. City Hall - Install a solar photovolta	ic system at City Hall	
	6. South Arm Community Centre - Op		
	7. Lighting Retrofits - Conduct 2-4 lig	nting retrofit and upgrade proje	ects at needed facilities
	<text></text>		

Program:	Building Program		Sub-program:	Major Building	
Project Name:	Garratt Wellness Centre - I Upgrades	Renewals &	Submission ID:	5406	
Location:	7504 Chelsea Place				
Cost:	\$525,000		OBI:	\$ -	
Funding Sources:	Capital Revolving: Grant:	\$334,000 \$191,000			
Scope:	Exterior:				
	Exterior walls require repairs which will be repaired or rep		. Wood window frames	have rotten members	
	Exterior doors are original to and door hardware moderniz		d are aged and deterio	rating and will be replaced	
	Mechanical:				
· · · · · · · · · · · · · · · · · · ·	The Perimeter Heat System expected service life. The fa used as a rehabilitative fitne conditioning in the building. during the summer and more upgrade will eliminate the gr would no longer be necessa	icility was originally a iss and wellness cent A heat pump AC sys e efficient heating du een house gas emise	grade 1 - 4 elementan tre. There is no mechai tem will be installed to ring the winter. This he	r school but is now being nical ventilation nor air provide comfort cooling ating and cooling system	
	Electrical and Lighting:				
	Light fixtures in the building increases to the lighting effe replacement of these ineffici life, and will also be replaced	ectiveness and reduct ient lights. Electrical	tions in electricity can b	e realized with the	
	The fire alarm system does which requires both audio an fire alarm panel is beyond lif	nd visual devices to b	be installed as part of the		
	The existing exit signs are antiquated and beyond life expectancy. Exit signs within the building use inefficient incandescent or fluorescent lamps. New LED type fixtures will be installed.				
	Miscellaneous:				
	Required upgrades identified	d as the work procee	ds.		
			3		

Program:	Building Program	Sub-program:	Major Building
Project Name:	Project Development Advanced Design 2016	Submission ID:	5697
Location:	City Wide		
Cost:	\$300,000	OBI:	\$ -
Funding Sources:	Capital Revolving: \$300,000		
Scope:	Engage the appropriate consultants (i.e. Architects proposed facility projects to provide a range of pro completion.	s, engineers, cost con fessional services fro	sultants) for a variety of n project concept to
		-	-

# Parks Program 2016

Richmond is renowned for its high quality parks and recreation facilities. The City's park system has over 120 parks that total approximately 1,700 acres. Parks are unique places designed and developed for the enjoyment of all city residents as well as visitors to Richmond. These sites usually contain a wide variety of recreational and sports facilities, play equipment and other specialized facilities. In addition to parks, Richmond has 50 kilometers of recreational trails.

#### 2016 Recommended Parks – Major Parks/Steetscapes Program

82
83
84
85
86
87
88



Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Garden City Lands - Phase 2	Submission ID:	5461
Location:	Garden City Road & Westminster Hwy.		
Cost:	\$3,100,000	OBI:	\$77,515
Funding Sources:	Drainage Utility:\$500,000Parks Development DCC:\$2,186,662Parks Development City Assist:\$138,338Developer Contribution:\$275,000		
Scope:	Garden City Lands Phase 2 Water Management	Infrastructure and Pub	lic Amenities
	This is Phase Two of the Garden City Lands pro- managmement infrastructure which will support is at the same time as enabling agricultural uses. E support both the ecological objectives of the Gar and create a buffer between the perimeter trails addition, development of public amenities such a expanded public access to the 136.5 acre site.	he sustainability of the xtensive tree planting a den City Lands ("GCL") and the major streets s	bog ecosystem on the site around the perimeter will ) Legacy Landscape Plan urrounding the site. In
	After an extensive public process, City Council a 9, 2014 as the guide for developing these public 20 REDMS No. 4219968). The Legacy Plan outl development of the GCL supports within a variet agricultural, ecological health, community wellne	lands for community us ines over 25 City policie y of focus areas such a	se (File Ref. No. 06-2345- es and objectives that s sustainability,

# Appendix 6

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Park Characterization – Terra Nova	Submission ID:	317
Location:	Terra Nova		
Cost:	\$150,000	OBI:	\$3,544
Funding Sources:	Parks Development DCC: \$141,075 Parks Development City Assist: \$8,925		
Scope:	The purpose of this capital program is to enhance parks within the City's Park and Open S300pace creation of a detailed program, interpretation, and cultural landscapes on the north side of Terra No House, Mellis House and the Cannery Store and Richmond residents.	system. The proposed d restoration plan for th va Rural Park. The pla	project for 2016 is the e heritage buildings and n will focus on Parsons
	The Council-endorsed Terra Nova Concept Plan reuse of the park's heritage buildings and for inte Terra Nova. The Edwardian Cottage was comple Terra Nova Nature Preschool. Potential uses for centre, multi-purpose program space, artist or far and/or office space. The Terra Nova Conservatio character defining elements of both the landscap	rpretation of the farmin ted and is now success the site's other building mer in residence, care n Review (2014) detail	g and fishing history of sfully operating as the is include an interpretive taker suite, retail space, s the heritage value and

.

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes	
Project Name:	Parks Advance Planning & Design	Submission ID:	835	
Location:	Various Locations			
Cost:	\$550,000	OBI:	\$ -	
Funding Sources:	Parks Development DCC:\$517,275Parks Development City Assist:\$32,725			
Scope:	This annual project submission for Parks Advance research, consultation, project management, and future projects in park construction or strategic op	construction detailing		
ł	The scope of work includes: researching best pra geographical information; and securing consultati services as part of a planning and design process producing concept designs, reports, presentations upcoming Major Capital projects. Projects are bot includes working with developers with the design new development area within the City.	on for landscape archi s. The design process s and detailed construct th community and oppo	tectural and engineering includes preparing and ction drawings for prtunity driven. This	
	For 2016, projects include the design and consult Historical Park master planning process.	ation for Minoru Park a	and Britannia National	
	This program supports Council Term Goals of a V multiple Strategic Initiatives including: Placemakir Spaces, Parkland Acquisition Plan, World Class V Neighbourhoods, Event Friendly City); Financial S Sustainability (Vibrant Communities). It contribute appealing and livable city in Canada.	ng (Creating Experienc Waterfront, Excellence Strategies (Infrastructu	es, Unique Parks & Open in Design, Connected re Replacement), and	
	2016 Projects may also include:			
	Conceptual Park & Open Space Planning for varia Topographical Surveys (engineering site survey p Waterfront & Trails Strategy Implementation project Park Characterization projects GIS implementation for Parkland Inventory Best practices research	pick-up)		
	Landon / Sharvisten Park	Final Concept Desig	JE1	
	i o v andreasanna ta			

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Parks and Open Space Resource Management Planning Project	Submission ID:	5628
Location:	City Wide		
Cost:	\$150,000	OBI:	\$ -
Funding Sources:	Parks Development DCC: \$141,075 Parks Development City Assist: \$8,925		
	improving the planning for parks capital projects and Richmond's parks and open space system expands, expansion and improved tracking of new infrastructu comprehensive review of the methods and systems analysis of service gaps in the parks and open space recommendations for changes will be implemented. expanded use of the City's Geographical Information assist staff in completing this project (e.g., to perform	greater capacity fo re is required. Thro used for planning and system) will be co The project will also System. A consult	r planning for that ugh this project a nd management (e.g., nducted and o include planning for ant team will be retained to

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes	
Project Name:	Richmond High Artificial Turf Field Replacement	Submission ID:	5240	
Location:	Richmond High, Granville Ave and Min	oru Blvd.		
Cost:	\$600,000	OBI:	\$ -	
Funding Sources:	Special Sports: \$60	0,000		
Scope:	The purpose of this project is the remove Richmond High.	val, disposal and replacement of	the artificial turf surface at	
	Richmond High artificial turf field was constructed by School District and the City. Since the first school, it is used for all purposes and a areas and special events until 6:00 pm. public and organized programmed use.	field serves as the only "green sp activities during school hours inclu . After 6:00 pm the fields are cor	ace" available for the uding sports, gathering	
·	Artificial turf fields generally have a lifed breakdown due to wear and tear. Since public use year round on a daily basis, turf fields in the City.	e this field has extended demand	s from both the School and	
	This project will be funded through the Special Sports Reserve account (collection from the sports fields user fees program).			
	This project supports Council Term Goals of a vibrant, active, and connected city and maintaining quality infrastructure for the sports and schools community.			
	Scope of work involves the removal, replacement and disposal of the artificial turf layer at Richmond High.			
	Estimated cost:			
	Removal and disposal of existing turf	\$80,000		
	Replacement and installation of new tu	rf \$450,000		
	Design and contingencies for base pre	paration \$70,000		

FIN - 159

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	West Cambie Park	Submission ID:	3858
Location:	West Cambie Area		
Cost:	\$700,000	OBI:	\$12,559
Funding Sources:		8,350 1,650	
Scope:	This park and greenway are the main of Cambie. The park is six acres in size, a it contains stands of large trees, and re- lots. The greenways will complete the of particularly to the Garden City Lands to natural features while introducing new of energy utility features to the park site.	and is centrally located within the mnants of garden landscapes fro connection to other sites within th o the south. A major objective will	area. It is unique because om the original single family ne overall City network, I be to preserve existing
	This project supports Council's Term G support active living, wellness, and a se and urban design."		
	Work on the park has been deferred un and installation of the geo-exchange fie include community consultation. This p drainage and other underground utilitie first phase implementation of the play e furniture.	eld are completed in late fall of 20 hase will focus on works includin s; completion of grading; constru	015. Park planning will lg: installation of storm lotion of a pathway system;

# 2016 Recommended Parks - Minor Parks Program

Parks Ageing Infrastructure Replacement Program	.90
Parks General Development	.91
Playground Improvement Program	.92

rogram:	Parks Program		Sub-program:	Minor Parks
roject Name:	Parks Ageing Infrastructure Replace Program	ment	Submission ID:	4722
ocation:	Various Locations			
ost:	\$140,000		OBI:	\$ -
unding Sources:	Capital Revolving: \$140	0,000		
cope:	The purpose of this replacement progra failed hard surfaces, parks and open sp basketball, lacrosse, and hockey courts amenities that cannot be funded throug Capital Construction eligibility.	ace infrastruct	ture. These include kstops, sports ligh	e outdoor tennis, ting fixtures and other
	Many of these types of amenities have damaged condition. As a result, City Sta consistently being contacted to address This program addresses the Council ter Safe Community.	aff, Community the safety con	y Centres and their ncerns from the pu	r Associations are ublic and sports groups.
	For 2016, Thompson lacrosse box and tennis courts will be resurfaced. Blundell tennis courts also require repair. Also included are various chainlink fencing retrofits to backstops and park perimeter fencing.			
	Chainlink fencing retrofit (various sites) \$70,000			
	Tennis Courts	\$30,000		
	Lacrosse box retrofit	\$40,000		
	Total \$140,000			

Program:	Parks Program	Sub-program:	Minor Parks
Project Name:	Parks General Development	Submission ID:	4685
Location:	Various		
Cost:	\$350,000	OBI:	\$6,166
Funding Sources:		9,175 0,825	
Scope:	This ongoing program addresses speci- concerns from the public. As per City C park amenities and facilities that are no allows the City the flexibility and ability requests in a timely fashion.	ouncil, this program funds new i t part of other larger park capital	mprovements of various programs. This funding
	Examples of projects that have been fu gardens, new dog off-leash areas, walk drainage systems.		
	This project is relative to Council term g Safe Community.	goals of providing Quality Infrastr	ructure Networks and a

Program:	Parks Program		Sub-program:	Minor Parks
Project Name:	Playground Improvement P	rogram	Submission ID:	300
Lesstien	Voicus Loootiens			
Location:	Various Locations		0.51	00.010
Cost:	\$200,000		OBI:	\$8,349
Funding Sources:	Revolving Fund:	\$200,000		
Scope:	This Capital program address (according to the industry stat and Equipment", or can no lo or vandalism. The program is replacement of playground ec drainage) and landscape feat	ndard, the Canadian nger be maintained directed toward rep quipment, playgroun	Standards Associatio to meet the guidelines lacing all or part of a p	n's "Children's Playspaces due to age, obsolescence layground and includes
	This program relates to the fo	llowing Council Terr	m Goals :	
	Goal 2 - A Vibrant, Active and	d Connected City		
	Goal 6 - Quality Infrastructure	e Networks		

# 2016 Recommended Parks – Parkland Acquisition Program

arkland Acquisition
---------------------

Program:	Parks Program	Sub-program:	Parkland Acquisition
Project Name:	Parkland Acquisition	Submission ID:	4741
Location:	As per Parks DCC Land Acquisition Plan		
Cost:	\$8,000,000	OBI:	\$ -
Funding Sources:	Parks Acquisition DCC: \$7,524,000 Parks Acquisition City Assist: \$476,000		
Scope:	The purpose of the Parkland Acquisition program is address development and population growth. The p projections, as per the OCP, with the objective of m acres/1000 population. The program is funded throu Charges (DCC's) and is guided by the Council appr which provides the criteria for evaluating proposed allow the City to be strategic and responsive as pro need to borrow the funding from other City sources acquisition. The funding is typically allocated to an a	orogram is based on aintaining the parks ugh Parkland Acquis oved 2009 Park Lan acquisitions. Funding perties become avai or pass bylaws to re	the City's population provision standard of 7.66 ition Developer Cost d Acquisition Strategy g is required each year to lable, thus avoiding the lease the funds for each

# Public Art Program 2016

The Public Art Program is a self-sustaining project funded by private development contributions to the Public Art Reserve. Council approved the updated policy (Policy 8703, adopted July 27, 2010) and the Program is supported by a Council appointed Public Art Advisory Committee. The Public Art Program also supports the initiatives expressed in the Richmond Art Strategy 2012-2017, which was presented to and supported by Council in September 2012. The above proposal assists in its annual implementation, which is necessary to its success. Private sector, private donations and community contributions are successfully sought and received.

The public art program contributes to the Council Term Goals for 2014-2018, for a vibrant, active and connected city through a commitment to strong urban design, investment in public art and place making.

#### 2016 Recommended Public Art Program

Public Art Program
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Program:	Parks Program	Sub-program:	Public Art
Project Name:	Public Art Program	Submission ID:	4870
Location:	Various Locations		
Location.			
Cost:	\$1,119,813	OBI:	\$10,000
Funding Sources:	Public Art Program: \$1,119,813		
Scope:	The scope of work consists of a variety of public art	projects.	
	City initiated public art projects of \$100,000 are fund Public Art Reserve.	ded by private devel	opers contributions to the
	<ul> <li>Artwork located within City streets, parks and build</li> <li>Community public art projects: \$50,000</li> <li>Public education and promotion of the public art p</li> <li>Collaboration with other City cultural programs: \$1</li> <li>Community public art partnerships: \$10,000</li> </ul>	rogram: \$20,000	
	Private development public art projects for \$1,019,8 contributions to the Public Art Reserve for artwork t throughout the City.		

# Land Program 2016

The land acquisition program relates to the acquisition and disposition of real property for the City, as approved by Council.

2016 Recommended Land – Land Acquisition Program

#### Table of Contents

Program:	Land Program	Sub-program:	Land Acquisition
Project Name:	Strategic Land Acquisition	Submission ID:	4922
Location:	Various		
Cost:	\$21,200,000	OBI:	\$ -
Funding Sources:	Capital Industrial: \$21,200,000		
Scope:	Funds for land acquisition to meet the Council A other than DCC and other special reserve funde under the Industrial Use Fund. This capital budg from this fund as well as additional general fund	ed projects, are set aside jet submission is to use	e in the Capital Reserve
	ADART BULERED T		
	Guide and a second a		

# **Affordable Housing Project Program 2016**

Affordable Housing is responsible for coordinating the implementation of the Richmond Affordable Housing Strategy – a Strategy that was adopted in 2007 which contains recommendations, policies, directions, priorities, definitions and annual targets for affordable housing in the city. The City is working with other levels of government, the non-profit sector, the private sector, local groups and the community in pursuit of the Strategy's goals.

#### 2016 Recommended Affordable Housing Project Program

Affordable Housing 2016 Operating Initiatives	100
Affordable Housing Projects - City Wide	101
Affordable Housing Projects - West Cambie	
Affordable Housing Strategy Update	103

Program:	Affordable Housing Project	Sub-program:	Affordable Housing Project	
Project Name:	Affordable Housing 2016 Operating Initiatives	Submission ID:	5703	
Location:	City Wide			
Cost:	\$130,000	OBI:	\$ -	
Funding Sources:	Affordable Housing: \$130,000			
Scope:	<ol> <li>Affordable Housing Legal - The scope of work w housing agreements, and any other legal services developments occur \$50,000.</li> </ol>			
	2. Single family rezoning accessory dwelling surve complete a survey of accessory dwelling units prov determine: are they rented/occupied; to whom; and consultant to survey a percentage of the accessory this rezoning requirement and gauge how the unit gathered will inform future Council decisions with r of accessory dwellings through single family rezon affordable housing solutions for residents of Richm	ided through single fa for how much. The s d dwellings that have s are currently being espect to the success ings and whether this	amily rezonings to strategy will include hiring a been created as a result of used. The information s of the requirement/supply	
	3. Video Production - A videographer is required to periodically film key benchmarks during the construction of the Storeys development (129 subsidized rental units targeted towards individuals at-risk of or experiencing homelessness, and community programming space). The end deliverable will be a video which will be submitted for award(s)/grant applications \$15,000.			
	4. Printing, Publication, Media and Advertising - Ongoing printing and publication services through the course of the year, including meeting traditional and social media needs as they arise \$15,000.			
	<ol> <li>Richmond Homelessness Coalition (meeting exp together on a bi-monthly basis to discuss and enach needs of Richmond's homeless and at-risk/vulnera</li> </ol>	t initiatives to addres	s the immediate and future	
	6. Affordable Housing Economic Analysis (Consulting) - Procure the services of a consultant to complete economic analysis of complex development applications as required Amount \$10,000			
	Publicat	tions		
		Legge	ents	

Program:	Affordable Housing Project	Sub-program:	Affordable Housing Project
Project Name:	Affordable Housing Projects - City Wide	Submission ID:	4862
Location:	Various	- T	-
Cost:	\$400,000	OBI:	\$ -
Funding Sources:	Affordable Housing: \$400,000		
Scope:	To purchase land and financially contribute to variou identified, in accordance with the Council-adopted A	Is affordable housing S	g projects as needs are trategy.

Program:	Affordable Housing Project	Sub-program:	Affordable Housing Project
Project Name:	Affordable Housing Projects - We	st Cambie Submission ID:	4868
Location:	Various		
Cost:	\$225,000	OBI:	\$ -
Funding Sources:		\$225,000	Ψ
Scope:	To purchase land and financially con identified in West Cambie, in accord	ntribute to various affordable housi	ng projects as needs are ordable Housing Strategy.

Affordable Housing Project	Sub-program:	Affordable Housing Project
Affordable Housing Strategy Update	Submission ID:	5675
City Wide		
\$175,000	OBI:	\$ -
Affordable Housing: \$175,000		
Affordable Housing: \$175,000 The scope of work will include: reviewing the existing Affordable Housing Strategy (AHS), its stated community priorities, and updating policies; stakeholder consultation on affordable housing issues/solutions; information gathering and drafting of input received/findings; creation of draft Housing Action Plan (HAP); presentation of updated AHS and draft HAP to stakeholders from comment; presentation of updated AHS and draft HAP to Council for consideration/adoption.		
	Affordable Housing Strategy Update Strop Strop Strategy Update Strop Strop S	Affordable Housing Strategy Update       Submission IP         City Wide       E         \$175,000       DBI:         Affordable Housing:       \$175,000         The scope of work will include: reviewing the existing Affordable Housing stated community priorities, and updating policies; stakeholder consultati issues/solutions; information gathering and drafting of input received/find Housing Action Plan (HAP); presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and draft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentation of updated AHS and traft HAP to Council for comment; presentatio

# 2016 Recommended Equipment – Annual Fleet Replacement Program

Vehicle and Equipment Reserve Purchases	PW and Corporate Fleet)	
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Program:	Equipment Program	Sub-program:	Annual Fleet Replacement
Project Name:	Vehicle and Equipment Reserve Purchases (PW and Corporate Fleet)	Submission ID:	5664
Location:	Works Yard and Various City Departments		
Cost:	\$1,612,000	OBI:	\$ -
Funding Sources:	Water Utility:\$400,000Sanitary Utility:\$260,000Public Works Equipment:\$952,000		
Scope:	Annual replacement of vehicles eligible due to age and condition in accordance Green Fleet Policy 2020.		
	Vehicle replacements in 2016 include 1 aerator, 1 style vans, 2 tandem dump trucks, 1 single axle du		
	Process for replacement of aging fleet is to establis vehicle/equipment replacements. Send bid informa submissions and award accordingly.		
			- Alt

# 2016 Recommended Equipment – Fire Department Vehicles Program

Fire Equipment Replacement	.107
Fire Vehicle Replacement Reserve Purchases	.108

Program:	Equipment Program	Sub-program:	Fire Dept Vehicles
Project Name:	Fire Equipment Replacement	Submission ID:	4673
Location:	Fire-Rescue		
Cost:	\$25,500	OBI:	\$ -
Funding Sources:	Fire Equipment: \$25,500		
Scope:	To ensure we are able to provide fire services to maintains an inventory of hose.	the community Richmo	ond Fire Rescue (RFR)
	Hose Replacement planned and funded by the F hose.	ire Equipment Reserve	for 2016 is 30 lengths of
	Richmond Fire maintains an inventory of fire hos failing hose is replaced.	e. This hose is inspecte	ed and tested annually and
	The objective is to maintain an adequate invento	ry of fire hose to effecti	vely maintain the services.
	Richmond Fire expects to continue with replacing inventory.	g 30 lengths of hose pe	r year to maintain the hose
	<image/>		

Program: Project Name:	Equipment Program Fire Vehicle Replacement Reserve Purchases	Sub-program: Submission ID:	Fire Dept Vehicles 4672	
Location:	Fire-Rescue			
Cost:	\$1,629,500	OBI:	\$ -	
Funding Sources:	Fire Equipment: \$1,629,500			
Scope:	To ensure we are able to provide fire services to the Richmond Fire Rescue (RFR) maintains a fleet of a vehicles.		rucks as well as support	
	RFR has a designated "Vehicle & Equipment Rese funded through the reserve.	erve". The replacement	nt plan for all apparatus is	
	In 2011 a report was approved by Council on the s and put forward a replacement schedule for all fire replacements requested are aligned with this life c	vehicles and some e	quipment. The	
	ensure that RFR has a robust modern fleet of fire a	replacement apparatus is contemplated in the scheduled plan of the equipment reserve. To ure that RFR has a robust modern fleet of fire apparatus to deliver Fire and Rescue services community, RFR has developed a replacement plan that maintains financial stability and		
	RFR strives to maintain a maximum replacement of	ycle of 20 years with	all suppression apparatus.	
		<image/>		

# **Equipment Program 2016**

The equipment program includes machinery and vehicles for Public Works and Fire Rescue Services, computer hardware, software, library collections, and other miscellaneous equipment.

2016 Recommended Equipment – Technology Program

#### Table of Contents

110
111
112
113
<b>1</b> 14
116
117
118
119
120

Project Name:	Equipment Program 2016 Server Replacemen		Sub-program: Submission ID:	Computer Capital 5716
Project Name.	2010 Server Replacement	15	Submission iD.	5710
Location:	City Hall & Works Yard			
Cost:	\$303,000		OBI:	\$ -
Funding Sources:	Hardware Upgrade:	\$303,000		
Scope:	In order to maintain our ser cycle. After that period of t the age of equipment. Equ failures can cause extended	ime, manufacturers wil ipment begins to fail m	Il no longer provide se hore frequently after th	vice agreements due to is period of use. These
	This capital request covers	servers used for the for	ollowing purposes:	
	Corporate database server City web site, City GIS, and		ations including Emerg	ency Notification System,
	Servers responsible for mainformation.	naging all of the City's	access accounts, pas	swords, and security
	File servers which are user "home" drives. There have Financial and Human Reso	been a few recent failu		
	Storage controllers, which used by virtually every app			s. These storage arrays are

Program:	Equipment Program	Sub-program:	Computer Capital
Project Name:	Anderson Room Improvements	Submission ID:	5709
Location:	City Hall		
Cost:	\$105,000	OBI:	\$ -
Funding Sources:	Hardware Provision: \$105,000	)	
Scope:	The audio-visual equipment in Anderson Roo was provided when City Hall was built. Fiftee equipment.		
	The technology has advanced considerably meeting facilities with wireless collaboration podiums that contain VCR and Cassette equ	tools are expected. Instead	, we provide users with
	Shaw has discontinued distribution of analog with HD-capable distribution equipment in m		es equipment replacement
	The old analog audio equipment that require by a number of contractors over the last fifte cables are now full and extensive re-cabling	en years. As a result, the co	
	Council Chambers equipment was replaced needing replacement includes that in the An- meeting rooms in City Hall tower.	in 2013 at a cost of \$377K. derson Room, other public	The remaining equipment meeting rooms, and staff
	With a proper distribution network, Anderson Room, Council Chamber, and M2.004 could be used for "spillovers" during issues such as the Land Use Contract discussions.		
	<u>Anderson Room 2016</u> : Acoustical upgrade, upgrade, audio system upgrade \$80K Analog to digital CATV distribution system re		l system, audio-visual

Annual Computer Hardware Refres	h Submission I	D: 4901
AL 11 II		
		0
		\$ -
10		
corporate computer equipment is rep replacement inventory for unexpecte productivity, reduces maintenance co	laced on a fixed schedule; it a d equipment failures. This app osts and ensures corporate des	lso provides a marginal proach maintains business sktop computers are
The planned equipment list for the 20 277 Desktops	916 Annual Computer Hardwa	re Evergreen includes:
13 Workstations		
212 Monitors		
13 iPads		
3 Large Footprint Printers		
	The IT Department Annual Computer corporate computer equipment is rep replacement inventory for unexpecter productivity, reduces maintenance co technically appropriate for the softwar practices. The planned equipment list for the 20 277 Desktops 13 Workstations 28 Laptops 4 Laptops w/Docking station 212 Monitors 13 iPads	\$408,919OBI:Hardware Upgrade Provision:\$408,919The IT Department Annual Computer Hardware Refresh is an equip corporate computer equipment is replaced on a fixed schedule; it a replacement inventory for unexpected equipment failures. This app productivity, reduces maintenance costs and ensures corporate des technically appropriate for the software applications used in its City practices.The planned equipment list for the 2016 Annual Computer Hardware 277 Desktops 13 Workstations 28 Laptops 4 Laptops w/Docking station 212 Monitors 13 iPads 3 Large Footprint Printers

Program:	Equipment Program	Sub-program:	Computer Capital/Software
Project Name:	Business Process Management Suite (BPMS)	Submission ID:	5725
Location:	City Hall		
Cost:	\$600,000	OBI:	\$55,000
Funding Sources:	Software Provision: \$600,000		
Scope:	As part of the Digital Strategy, the City of Richmond city to optimize and support processes across busine customers to easily request services through a com	ess units. This tech	nology will enable
	The process management system will interface to ea digital nervous ecosystem and enable an integrated customers. Through the integration of business proc our customers will have an easy and consistent view	approach in how se ess and customer r	ervices are managed for our elationship management,
	Processes will be created, automated and optimized customer experience.	across business u	nits for enhancing the
	Through continued use of this system, business pro- ongoing best practice reviews which enables the Cit		
		·	

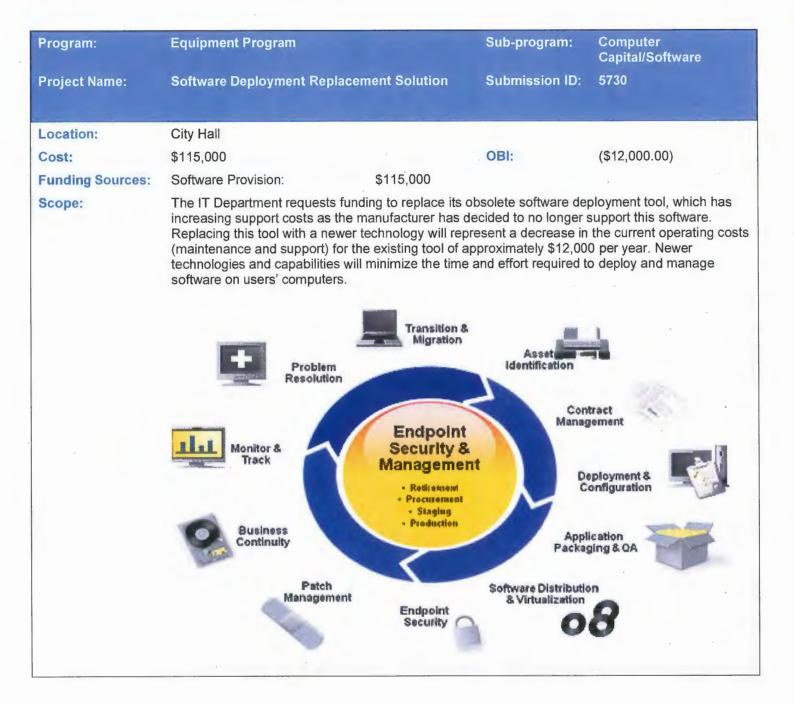
Program:	Equipment Program		Sub-program:	Technology
Project Name:	Bylaws License Plate Recogr System	hition (LPR)	Submission ID:	5695
Location:	City Hall			
Cost:	\$197,120		OBI:	(\$161,404.50)
Funding Sources:	Enterprise:	\$197,120		
Scope:	The License Plate Recognition increase in revenue for the City reallocate resources to other ne LPR system moves the City to a the City's new parking meters.	of Richmond (appro eds in the City. This	ximately \$261,920 a project will have a p	annually) and a potential to bayback within 3 years. The
	Users enter their license plate r Parking enforcement vehicle ec streets and parking lots the can have no permit or are unpaid. A officer places the citation on the	uipped with an LPR nera reads license p a citation is printed u	camera and system lates identifying licer sing a mobile printer	. As the vehicle patrols nse plates that are paid,
	This solution can use either a s the one being used by staff toda significant decrease in the origi repair or replace.	ay. They are linked t	o a portable thermal	printer. Benefits are a
	This system provides efficiencie information allows customers 2 and appeal violations and purch statistical and audit purposes a related to infractions. Other ber information and vehicle data, an Tempest system as well as the	4/7 access to handle hase parking permits re available to save nefits include the imp nd interfaces with IC	e parking business of like the City tags ar staff time and can be portation of violation BC to obtain vehicle	n-line. The ability to pay nd decals. Reports for e used to print evidence tickets, customer
			ROOM	ced

Program:	Equipment Program	Sub-program:	Computer Capital/Software
Project Name:	Customer Relationship Management System (CRM)	Submission ID:	5723
Location:	City Hall		
Cost:	\$900,000	OBI:	\$100,000
Funding Sources:	Sotware Provision: \$900,000		
Scope:	As part of the Digital Strategy, the City is implemen focus which includes Customer Relationship Manage Web Portal.		
	The vision is to provide software that will connect in relationships with the City's customers. The system manage customer expectations across various bun	n acts as a single poi	
	The benefits of a CRM includes:		
	<ul> <li>Citizens will have a single view of all their request website or mobile app.</li> </ul>	s, case history and re	eal time status on the City's
	-Operational entities will set performance standards Actual performance will be measured and monitore		ng to service requests.

Program:	Equipment Program	Sub-program:	Technology
Project Name:	Developing Asset Models for Eng. & Public Works	Submission ID:	5726
Location:	City Wide		
Cost:	\$150,000	OBI:	\$ -
Funding Sources:	Computer Equipment: \$150,000		
Scope:	Public Works is proposing to engage an external con- current financial and engineering standards and best Model (CMDM) to our asset models (i.e. hierarchica asset types). Deliverables include a project plan and data collection and analysis. The project will also include Geographical Information System.	at practices as per th I structuring of Publi d budget to convert	e Canadian Municipal Data c Works and Facilities our assets and/or perform
•			- Contraction

Project Name:       Log Management Implementation Payment Card Industry Compliance       Submission ID: 5731         Location:       City Hall         Cost:       \$120,000       OBI:       \$-         Funding Sources:       Other Equipment:       \$120,000       OBI:       \$-         Scope:       Payment Card Industry Data Security Standard (PCI DSS) is a set of information security standards to ensure that organizations that process, store or transmit credit card information are minimizan a secure environment. These standards were created to increase controls around cardholder data to reduce fraud and theft involving payment cards. As part of the compliancy process to meet these standards, the City is to implement an electronic log management system proactively and centrally track system user activities which will enhance security, detect and minimize the impact of a data compromise.         Security Information and Event Management       Log Anniyyis         PCI DSS HIPAA Stabanee-Oxing       Peat-time monitoring HipAa       Nationation HipAa         Stabanee-Oxing       Log Management       User driven         Log Management       User driven       Nationation		Equipment Program		Sub-program:	Computer Capital/Software
Cost:       \$120,000       DEI:       \$-         Funding Sources:       Other Equipment:       \$120,000       Secore:       Secore:         Scope:       Dayment Card Industry Data Security Standard (PCI DSS) is a set of information security standards to ensure that organizations that process, store or transmit credit card information are maintain a secure environment. These standards were created to increase controls around cardholder data to reduce fraud and thefi involving payment cards. As part of the compliancy process to meet these standards, the City is to implement an electronic log management system proactively and centrally track system user activities which will enhance security, detect and minimize the impact of a data compromise.         Security Information and Event Management       Log Anatysis         Neporting       Event Management       Log Anatysis         HPAA       Sarbanes-Oxley       Alerting         Incident management       Discretion       Automated         User data       Class       Automated         Log Management       Discretion       Log Anatysis         User datas       Automated       User-datased	Project Name:			Submission ID:	5731
Funding Sources:       Other Equipment:       \$120,000         Scope:       Payment Card Industry Data Security Standard (PCI DSS) is a set of information security standards to ensure that organizations that process, store or transmit credit card information are maintain a secure environment. These standards were created to increase controls around cardholder data to reduce riaud and theft involving payment cards. As part of the compliancy process to meet these standards, the City is to implement an electronic log management system proactively and centrally track system user activities which will enhance security, detect and minimize the impact of a data compromise.         Security Information and Event Management       Log Anniyyis         HiPAA       Reporting       Event Management       Log Anniyyis         Incldent management       Besponse       Automated         Incldent management       User driven       Log Anniyyis         Incldent management       User driven       Automated         Incldent management       User driven       Log Anniyyis         Incldent management       User driven       User driven         Incldent management       User driven       User driven	Location:	City Hall			
Scope:       Payment Card Industry Data Security Standard (PCI DSS) is a set of information security standards to ensure that organizations that process, store or transmit credit card information are maintain a secure environment. These standards were created to increase controls around cardholder data to reduce fraud and theft involving payment cards. As part of the compliancy process to meet these standards, the City is to implement an electronic log management system proactively and centrally track system user activities which will enhance security, detect and minimize the impact of a data compromise.         Security Information and Event Management       Log Analysis         PCI DSS       Event Management         PCI DSS       HIPAA         Sirbanes-Oxley       Alerting         Log Management       Alerting         Log Management       User-driven	Cost:	\$120,000		OBI:	\$ -
standards to ensure that organizations that process, store or transmit credit card information are maintain a secure environment. These standards were created to increase controls around cardholder date to reduce fraud and theft involving payment cards. As part of the compliancy process to meet these standards, the City is to implement an electronic log management system proactively and centrally track system user activities which will enhance security, detect and minimize the impact of a data compromise.	Funding Sources:	Other Equipment:	\$120,000		
Reporting       Event Management       Log Analysis         • PCI DSS       • Real-time monitoring       • Automated         • HIPAA       • Incident management       • Automated         • Sarbanes-Oxley       • Alerting       • User-driven         • GLBA       • Alerting       • Log Management		maintain a secure environ cardholder data to reduce process to meet these sta proactively and centrally tr minimize the impact of a d	ment. These standards we fraud and theft involving p ndards, the City is to imple rack system user activities data compromise.	ere created to increa bayment cards. As ement an electronic which will enhance	ase controls around part of the compliancy log management system
GLBA     Alerting     Log Management			aron management		
		• PCI DSS • HIPAA	<ul> <li>Reai-time monitoring</li> <li>Incident management</li> </ul>	<ul> <li>Automated</li> </ul>	
		<ul> <li>PCI DSS</li> <li>HIPAA</li> <li>Sarbanes-Oxley</li> </ul>	<ul> <li>Real-time monitoring</li> <li>Incident management</li> <li>Response</li> </ul>	<ul> <li>Automated</li> </ul>	
System Logs         Application         Audit         Database         Device           Logs         Logs         Logs         Logs         Logs         Logs		<ul> <li>PCI DSS</li> <li>HIPAA</li> <li>Sarbanes-Oxley</li> </ul>	<ul> <li>Real-time monitoring</li> <li>Incident management</li> <li>Response</li> <li>Alerting</li> </ul>	<ul> <li>Automated</li> </ul>	

Program:	Equipment Program		Sub-program:	Computer Capital/Software
Project Name:	PeopleSoft HR and Payro Workforce Management	II System Upgrade &	Submission ID:	5724
Location:	City Hall	an an ann an Annair. Ann an Annair		
Cost:	\$1,751,000		OBI:	\$82,000
Funding Sources:	Software Provision: Other:	\$951.000 \$800,000		
Scope:	The City is implementing te The vision is to provide soft generate statistics and anal efficiencies.	ware that will automate s	staff scheduling, tim	e and labour entries, and
	Technology automation will clocks for time entry, teleph configurations, and mobile	one access to schedule,	automated confirm	ation of shifts
	This project will be a 2-year	r undertaking. The fundin	g request is for 2 ye	ears.
	The first year focused on u Human Capital Manageme		in Resources and F	Payroll System (Peoplesoft
	The second year will be the number of business units.	e implementation of the W	/orkforce Managen	nent System to a select



Program:	Equipment Program		Sub-program:	Technology
Project Name:	WiFi Network Expansion	Phase II	Submission ID:	5468
Location:	Firehall/Community Centres	s/Parks/Heritage Sites	3	
Cost:	\$204,500		OBI:	\$1,000
Funding Sources:	Hardware Provision:	\$204,500		
Scope:	As part of the Digital Strates indoor areas in the following			
	This service will allow the guests to obtain internet access on demand, and staff will have coverage for business purposes such as mobile card scanning, and telephone portablility. Coverage would be extended to all publicly accessable areas in these buildings.			
-	Richmond Ice Cent	re		
- -	Watermania			
	Cambie CC			
	Branscombe House			
	East Richmond Community Hall			
	Steveston JCC & Martial Arts Building			
	Hamilton CC			
	Lang CC			
5				

# **Child Care Program 2016**

To address child care needs, the City plans the development of and partners with organizations to support a range of quality and affordable child care facilities.

#### 2016 Recommended Child Care Program

#### Table of Contents

Child Care Projects - City Wide	122
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Program:	Child Care Program	Sub-program:	Child Care Program
Project Name:	Child Care Projects - City Wide	Submission ID:	4888
Location:	Various		
Cost:	\$50,000	OBI:	\$ -
Funding Sources:	Child Care Development Reserve: \$50,000		
Scope:	To provide sufficient funding to administer the City's These grants support non-profit child care operators child care programs, e.g., minor renovations, outdoor equipment and furnishings.	with capital improve	ements to enhance their

# **Internal Transfers/Debt Payment Program 2016**

The internal transfers/debt program relates to the use of capital funding for repayment of capital funds borrowed from other internal sources of funding.

2016 Recommended Internal Transfers/Debt Payment Program

#### **Table of Contents**

General Parkland Acquisition Repayment	124
Nelson Road Interchange Repayment	125
River Rd/North Loop (2005) Repayment	126
Shovel - Ready Grant (2009) Repayment Lansdowne Rd Extension	127
Transfer of funding to Revolving Fund from Watermain Replacement Reserve	128
West Cambie Parkland Acquisition Repayment	129

Program:	Internal Transfers/Debt	Payment	Sub-program:	Internal Transfers/Debt Payment	
Project Name:	General Parkland Acqui	sition Repayment	Submission ID:	5752	
Location:	Finance				
Cost:	\$1,992,825		OBI:	\$ -	
Funding Sources:	Parks DCC: Parks City Assist:	\$1,873,174 \$119,651			
Scope:	The purpose of this subm Parkland Acquisitions fror			rial Use Fund for previous es (DCC's).	
	acres/1000 population. The Charges (DCC's) and is g	I population growth. The P with the objective of r ne program is funded the uided by the Council ap a for evaluating propose gic and responsive as p	e program is based on maintaining the parks p rough Parkland Acquis proved 2009 Park Lar d acquisitions. Fundin properties become ava	the City's population provision standard of 7.66 sition Developer Cost and Acquisition Strategy g is required each year to ilable thus avoiding the	
	Acquisition of land as pric the purposes of creating of growing population. The f			nd Acquisition strategy for the needs of the city's	

Program:	Internal T	<b>ransfe</b>	ers/Debt Payr	nent	S	Sub-program:	Internal Transfers/Debt Payment
Project Name:	Nelson R	oad In	terchange Re	epayment	S	Submission ID:	5298
Location:	Finance			-			· · · ·
Cost:	\$385,098				C	OBI:	\$ -
Funding Sources:	Roads DC	CC:		\$385,098	3		
Scope:	A total of	\$2.54N	l is to be repa	id from Roads	DCC to Si	urplus over 8 yea	rs.
	The 2016	payme	ent of \$385,09	8 is the 3rd of	eight equa	l payments.	
	Payment	Year	Balance	Payment	Interest	Principal	,
	1	2014	\$2,540,065	\$(385,098)	114,303	270,795	
	2	2015	\$2,269,270	\$(385,098)	102,117	282,981	
	3	2016	\$1,986,289	\$(385,098)	89,383	295,715	
	4	2017	\$1,690,574	\$(385,098)	76,076	309,022	
	5	2018	\$1,381,552	\$(385,098)	62,170	322,928	
۰.	6	2019	\$1,058,624	\$(385,098)	47,638	337,460	
	7	2020	\$ 721,164	\$(385,098)	32,452	352,646	
	8	2021	\$ 368,518	\$(385,098)	16,583	368,515	

Program:	Internal Tr	ansfers	/Debt Paymer	nt	Sub-pi	rogram:	Internal Transfers/Debt Payment
Project Name:	River Rd/North Loop (2005) Repayment				Submi	ssion ID:	2305
Location:	Finance	30m			(),		
Cost:	\$1,685,056	5			OBI:		\$ -
Funding Sources:	Roads DC	C:		\$1,685,056			
Scope:	A total of \$	18.2M is	to be repaid f	rom Roads DC0	Cs to Surplu	s over 18 ye	ears.
	The 2016 p	payment	of \$1,685,056	is the 11th of 1	8 payments.		
	Payments	Year	Balance	Payment	Interest	Principa	ıl
	1	2006	17,100,000	(1,769,576)	598,500	1,171,076	
	2	2007	15,928,924	(1,200,000)	557,512	642,488	*
	3	2008	16,236,436	(1,867,000)	568,275	1,298,725	
	4	2009	14,937,712	(1,867,000)	522,820	1,344,180	
	5	2010	13,593,532	(468,210)	475,774	(7,564)	)
×	6	2011	13,601,095	(300,000)	476,038	(176,038)	)
	7	2012	13,777,133	(200,000)	482,200	(282,200)	)
	8	2013	14,059,333	(1,939,202)	492,077	1,477,125	
	9	2014	12,612,208	(1,317,000)	441,427	875,573	
	10	2015	11,736,635	(1,685,056)	410,782	1,274,274	
	11	2016	10,462,361	(1,685,056)	366,183	1,318,873	
	12	2017	9,143,566	(1,685,056)	320,022	1,365,034	
	13	2018	7,778,454	(1,685,056)	272,246	1,412,810	
	14	2019	6,365,644	(1,685,056)	222,798	1,462,258	
	15	2020	4,903,386	(1,334,953)	171,618	1,163,334	
	16	2021	3,488,258	(1,334,953)	130,902	1,204,051	
	17	2022	2,023,601	(1,334,953)	88,760	1,246,193	
	18	2023	507,681	(1,334,955)	45,143	1,289,812	

Program:	Internal T	ransfer	s/Debt Pay	ment	Si	ıb-program:	Internal Transfers/Deb Payment
Project Name:	Shovel - Ready Gr Lansdowne Rd Ex			t (2009) Repayment ision		ubmission ID:	3781
Location:	Finance						
Cost:	\$77,263				0	BI:	\$ -
Funding Sources:	Roads DC	C:		\$77,26	3		· · · · ·
Scope:	A total of s 10 years.	\$626,666	3 is to be re	paid from Roa	ads DCC to th	ne Watermain R	eplacement Reserve over
	The 2016	paymen	t of \$77,263	3 is the 7th of	10 equal pay	ments	
	The loan a	amortiza	tion schedu	le is:			
	Payment	Year	Balance	Payment	Interest	Principal	
-	1 -	2010	626,666	\$(77,263)	25,067	52,196	
	2 -	2011	574,470	\$(77,263)	22,979	54,284	
	3 -	2012	520,185	\$(77,263)	20,807	56,456	2
	4 -	2013	463,730	\$(77,263)	18,549	58,714	
	5 -	2014	405,016	\$(77,263)	16,201	61,062	
	6 -	2015	343,954	\$(77,263)	13,758	63,505	
	7 -	2016	280,449	\$(77,263)	11,218	66,045	
	8 -	2017	214,404	\$(77,263)	8,576	68,687	
	9 -	2018	145,717	\$(77,263)	5,829	71,434	
	10 -	2019	74,283	\$(77,254)	2,971	74,283	

Program:	Internal Transfers/Debt Payment	Sub-program:	Internal Transfers/Debt Payment
Project Name:	Transfer of funding to Revolving Fund Watermain Replacement Reserve	from Submission ID:	5758
Location:	Finance		
Cost:	\$6,000,000	OBI:	\$ -
Funding Sources:	Revolving Fund \$6,000,	000	
Scope:	The purpose of this submission is to cha projects related to the Alexandra District		viously approved capital
	The Alexandra District Energy Utility ass Corporation in 2016. In preparation of thi Fund with future repayments to be depos	is transfer, the project will be fu	inded from the Revolving

Program:	Internal Transfers/Debt	Payment	Sub-program:	Internal Transfers/Debt Payment
Project Name:	West Cambie Parkland	Acquisition Repayment	Submission ID:	5753
Location:	Finance			
Cost:	\$1,600,000		OBI:	\$ -
Funding Sources:	Parks DCC: Parks City Assist:	\$1,600,000 -		
Scope:	West Cambie Parkland A previous Parkland Acquis	cquisition DCC is repaying sitions.	General Parkland	Acquisition DCC for
	and population growth. T with the objective of main program is funded throug the Council approved 200 evaluating proposed acqu and responsive as prope	he program is based on the ntaining the parks provision gh Parkland Acquisition Dev 09 Park Land Acquisition S uisitions. Funding is require	e City's population p standard of 7.66 ac veloper Cost Charge trategy which provided ed each year to allow s avoiding the need	cres/1000 population. The es (DCC's) and is guided by des the criteria for w the City to be strategic to borrow the funding from
		oritized in the Council appro or completing parks and or funding is typically allocate	pen spaces to meet	the needs of the city's

# **Building Program Unfunded Projects 2016**

Due to funding constraints and higher priority projects, the following building projects are not recommended for funding.

#### 2016 Unfunded Building Program

#### **Table of Contents**

nterurban Tram Restoration	.131
London Heritage Farm Outbuildings	132
Works Yard Survey Inspector System Renewals	.133

Program:	Building Program	Sub-program:	Major Building
Project Name:	Interurban Tram Restoration	Submission ID:	5671
Location:	Steveston Park		
Cost:	\$396,000	OBI:	\$ -
Funding Sources:	Capital Revolving: \$396,000		
Funding Sources: Scope:	Capital Revolving: \$396,000 The BC Electric Railway Interurban Tram #1220, bu artefact in the City's collection. The first phase of res Ends account, will be completed by mid 2016 and in hazardous materials assessment, an inventory of par restoration plan. Phase 2 is the final stage of restora repair, detailed electrical and mechanical assessment systems including the undercarriage and trucks as we restoration of this artefact ensures optimum preserver restoration will risk further deterioration. Phase 2 fur subsequently diverted in 2012 to the Tram building of the 2011 submission.	storation, funded thr includes extensive m arts, review of best p ation and will include ent, stabilization and well as interior finish ration for future gene inding was approved	ough the Steveston Road ould remediation, a practices, and a draft e exterior bodywork, roof repair (if necessary) of all es and furnishings. Full erations while delayed for 2011 but was

	Building Program	Sub-program:	Major Building
Project Name:	London Heritage Farm Outbuildings	Submission ID:	5708
Location:	London Heritage Farm		
Cost:	\$389,360	OBI:	\$13,611
Funding Sources:	Capital Revolving: \$389,360	)	
Scope:	Repair the out buildings (barn, toolsheds, ch provide ongoing maintenance. London Herit the London Heritage Farm Society (LHFS). 4.06 acres of land including gardens, a herit washrooms and various outbuildings. Over weddings, picnics and other private function	age Farm (LHF) is owned b LHF, designated a Heritage age building, a caretaker's 15,000 visitors come to LHF	y the City and operated by Site in 1979, encompasse residence, public
	As demands on the site grow, there has been for the outbuildings, for which historically the is not limited to tool sheds, a gazebo, barn, resources to maintain the site as many of the staff and volunteers and exceed their resource the end of their life-cycle without the resource buildings pose a risk to public health and sa	e LHFS had assumed respond chicken and bee house. LH e maintenance issues are b troes. This has resulted in out ces to fix or replace them. S	nsibility. This includes but FS does not have the eyond the skill set of their itbuildng systems reaching ubsequently, deteriorating
	they may focus their work on heritage interp a unique visitor experience of a valued City		ommunity and tourists with

Program:	Building Program	Sub-program:	Minor Building
Project Name:	Works Yard Survey Inspector System Renewals	Submission ID:	5502
Location:	5599 Lynas Lane		alan nama ang ang ang ang ang ang ang ang ang an
Cost:	\$315,000	OBI:	\$ -
Funding Sources:	Capital Revolving: \$315,000		
Scope:	Replacement and renewal of outdated and obsolete finishes that have reached the end of their useful se		cal, building envelope and
	Mechanical to include water heater and exhaust sys	stem replacement.	
	Electrical to include lighting upgrades and security	system replacement.	
	Envelope and finishes to include: exterior windows, tiling, flooring and ceilings. Exterior painting will also	door assemblies, ro be performed.	ofing system, ceramic
	Miscellaneous upgrades as required as the work pr	ogresses.	

# **Equipment Program Unfunded Projects 2016**

Due to funding constraints and higher priority projects, the following equipment projects are not recommended for funding.

#### 2016 Unfunded Equipment Program

#### **Table of Contents**

Emergency Supply Cabinets Project	135
Emergency Supplies Container Project	136
Meeting Room Evergreen & Media Distribution Network Phase I	137

# Appendix 7

Program:	Equipment Program		Sub-program:	Miscellaneous Equipment	
Project Name:	Emergency Supply Cabinets Project		Submission ID:	5722	
Location:	City Wide				
Cost:	\$125,000		OBI:	\$ -	
Funding Sources:	Capital Revolving:	\$125,000			
Scope:	This Capital Project is for the supply and installation of thirty cabinets of emergency supplies in City facilities for immediate short term response to emergencies. The cabinets are of sturdy steel construction containing emergency supplies for staff that are containerized for immediate deployment.				
	<ul> <li>Cabinets would be located:</li> <li>1. On each floor of City Hall</li> <li>2. On the occupied floors of the Annex</li> <li>3. In one of the Minoru complex buildings</li> <li>4. At the Richmond Olympic Oval</li> <li>5. In nine cabinets at the Works Yard for the staff based there</li> <li>6. Eight other locations around Richmond for staff working in those areas.</li> <li>Cabinets would contain:</li> <li>1. Rescue and safety equipment such as hard hats, work gloves and safety goggles.</li> <li>2. Emergency supplies such as emergency blankets, radio, flashlights and whistles.</li> <li>3. Emergency food bars and drinking water.</li> <li>4. First aid kits to assist until advanced medical personnel arrive.</li> </ul>				
	This project provides critical resources and supplies at the onset of an emergency or disaster for staff to respond to the incident and provide critical services to the community. The intent of this project is for short term immediate emergency response,.				
	An additional Capital Project proposal has also been submitted for the supply and installation of sea containers and emergency supplies (Emergency Supplies Container / Disaster Staging Area project) located around the City. The intent of this project is for more robust supplies in sea containers to provide staff with a physical muster point, critical emergency supplies, food, water, portable sanitation stations and additional equipment and resources to provide for a sustained response by staff for larger emergencies or disasters such as an earthquake				

FIN - 207

# Appendix 7

Program:	Equipment Program		Sub-program:	Miscellaneous Equipment	
Project Name:	Emergency Supplies Container Project		Submission ID:	5694	
Location:	City Wide	anar ah ta barbarisi ana sadimba dinisi ara ta ba			
Cost:	\$515,400		OBI:	\$53,910	
Funding Sources:	Capital Revolving:	\$515,400			
Scope:	This Capital Project is for the su emergency supplies for a sustai Located strategically around the	ined long term resp	oonse to major emerge		
	<ol> <li>Dedicated physical muster points for staff out working around the City to gather and establish staff accountability</li> <li>Provision of emergency supplies including first aid, food, water, portable sanitation and rescue response equipment to support staff efforts post a disaster</li> </ol>				
	The ten containers will require insulation, heating, cooling and lighting and would be located on City property at City centre, the Works Yard and eight other strategic locations around the City.				
	During a large scale emergency or disaster, supply chain management may be impacted. These caches of emergency response supplies would bridge the time period between the onset of the emergency and the re-establishment of the supply chain.				
	Staff emergency supplies would include items such as work gloves, flash lights, safety goggles, tarps, portable sanitation stations and first aid equipment. Emergency food and water solutions would be selected to have a longer term shelf life (5 years), meet nutritional requirements and be ready to eat with no additional resource requirements.				
	This project provides critical resources and supplies at the onset of a major emergency or disaster for staff to respond and provide critical services to the community until supply chains can be re- established. The intent of this project is for the longer term sustained response by staff for larger emergencies or disasters such as an earthquake.				
	An additional Capital Project pro thirty emergency supplies cabin term immediate emergency res	ets located around			
				,	
r					
			manuf -3		

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Program: Project Name:	Equipment Program Meeting Room Evergreen & Media Distribution Network Phase I	Sub-program: Submission ID:	Computer Capital 5759
Location: Cost: Funding Sources: Scope:	City Hall \$337,200 Hardware Upgrade Provision: \$337.200 Public Meeting Rooms paging equipment & sound st Public Meeting Rooms video distribution network Fibre cabling for media distribution Analog-to-digital cable TV system upgrade Cat-6e or fibre cabling for digital TV Public Meeting Rooms podium & presentation system Upgrade the video distribution network, include conf rooms (cameras in each room)	ms upgrade	\$-