



# City of Richmond

## Report to Committee

**To:** Finance Committee  
**From:** Jerry Chong, CA  
Director, Finance  
**Re:** 2014 Capital Budget

**Date:** November 29, 2013  
**File:**



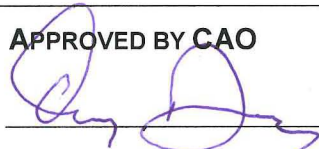
### Staff Recommendation

That:

1. The 2014 Capital Budget be approved and staff authorized to commence the 2014 Capital Projects effective January 1, 2014; and
2. The Five-Year Financial Plan (2014-2018) be prepared for presentation to Council incorporating the 2014 Capital Budget.

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

Att. 6

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

## **Staff Report**

### **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 (2014) and provides estimates for the remaining years of the five-year program. The 5YFP (2014-2018) Bylaw provides the City with the authority to proceed with spending as outlined in the Bylaw.

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 \$1.8 billion. The Capital budget allows the City to sustain existing civic infrastructure, while also adding new facilities and services to serve the growing community. Over the past decade, for example, Council has used the capital budget to fund construction of three new fire halls, acquisition and retrofitting of the new Community Safety building, purchase of the Garden City Lands, purchase of environmentally sensitive lands at Grauer Road and Northeast Bog Forest, completion of a major expansion of Hamilton Community Centre, Highway 91/Nelson Road Interchange, 20 pump stations, and building the Richmond Olympic Oval.

This budget acts as a tool where capital projects (e.g. parks, trails, facilities, roads, etc.) are prioritized and capital resources evaluated over a 5-year time horizon. 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.

The budget also authorizes the use of certain funding sources such as Development Cost Charges (DCCs) and Statutory Reserves for internal transfers, transfers to the operating budget for non-tangible capital assets and debt re-payments.

### **Analysis**

This report presents the proposed 2014 Capital Budget and seeks Council review and approval on 2014 recommended projects and related expenditures. The proposed Capital Budget for 2014 is \$185.9 million.

### **2014 Capital Overview**

Capital funds will be directed towards the most critical infrastructure and asset management programs and the highest priority projects to meet Council direction and the needs of the citizens of Richmond. The priorities are aligned with Council Term Goals such as “Continued implementation and significant progress towards achieving the City’s Sustainability Framework and associated targets.”

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 aging infrastructure and ensuring that the City is consistently meeting industry standards as well as legislated and regulatory requirements.

The proposed Capital Budget for 2014 is \$185.9 million. \$120.1 million or sixty-five percent of the proposed Capital Budget is related to the Corporate Facilities Implementation Plan – Phase 1 (CFIP - Phase 1) endorsed by Council on November 12, 2013 to build a co-located Older Adults Centre and Minoru Aquatic Centre at Minoru 2 Field in Minoru Park, build a new Fire Hall No. 1 and new City Centre Community Centre. The total amount approved by Council for Phase 1 is \$123.7 million. These projects are funded by a combination of internal City funding sources and \$50 million debt financing from Municipal Finance Authority.

The difference between the approved amount and the amount included in the 2014 budget is \$3.6 million and is explained by two factors:

\$4 million was included in the 2013-2017 Five-Year Financial Plan Amendment for advanced design (\$3.5 million) and advanced construction of the tenant improvements for City Centre Community Centre (\$0.5 million) and is therefore not included as part of the 2014 Capital Budget. The project total should therefore be \$119.7 million.

At the time that Council approved this project, there was uncertainty whether the HVAC would be provided by the developer. Typically a developer would not provide the HVAC but as this item was still under negotiation at the time, staff did not want to relieve the developer of this responsibility prematurely. It has now been confirmed that the City is responsible for this cost, which was not included in the project scope for the aforementioned reason. This system is required to meet LEED standards. In addition, in response to feedback from the Disability Resource Committee an elevator instead of a lift was requested and will be more functional. Therefore, an additional \$400,000 is added to the City Centre Community Centre project. The final project total included in the 2014 budget is \$120.1 million.

The following is an overview of the major program areas funded through the capital budget with selected highlights of proposed 2014 initiatives being recommended to Council. A more detailed breakdown of each project is included in the appendices to this report:

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## **Buildings – \$122.1M**

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

For 2014 the building program includes the Corporate Facilities Implementation Plan – Phase 1 for major facilities including Older Adults Centre, Minoru Aquatic Centre, and Fire Hall No. 1.

**Infrastructure – \$32.1M:**

The City's Infrastructure Program funds assets that include: road, drainage and sanitary pump stations, drainage, water, and sanitary mains. For 2014 it encompasses investing \$32 million on improving the City's civic infrastructure.

The 2014 program includes No.2 Road North Pump Station upgrade, watermain replacements, residential water metering, and pavement upgrades.

**Equipment – \$8.1M:**

The 2014 equipment program includes a computer software upgrade for public works, library material purchases and fire vehicle replacement purchases.

**Parks – \$6.6M:**

Richmond is renowned for its high quality parks and recreation facilities, with over 90 parks totaling approximately 1,400 acres. In addition to the City's parks, Richmond also has a 200-acre recreational trail system.

The 2014 program includes work on Cambie Mueller Park, Terra Nova Park and Minoru's artificial turf field.

**Land – \$5.0M:**

The 2014 land acquisition program relates to the acquisition of real property for the City, as approved by Council.



### Affordable Housing – \$0.9M:



Affordable Housing is responsible for coordinating the implementation of the Richmond Affordable Housing Strategy adopted in 2007.

The 2014 program includes a City-owned site designated for affordable housing to support the development of affordable housing.

### Child Care – \$50K:



To address child care needs, the City's 2014 Child Care program will provide ongoing capital maintenance costs for facilities such as the Cressey Child Care Facility and Bridgeport Child Care Facility.

## 2014 Project Highlights

Some of the 2014 highlights and their benefits are summarized below. These projects have been prioritized based on Council Term Goals as follows:

#### **Community Safety:**

- Continued drainage improvements including an upgrade of the No.2 Road North pump station to provide greater pumping capacity

#### **Community Social Services:**

- Funding for affordable housing projects and initiatives to ensure affordable rents to Richmond residents

#### **Facility Development:**

- New co-located Older Adults Centre and Minoru Aquatic Centre for the enjoyment of City residents

#### **Financial Management:**

- Funding has been put in place to ensure the City can adhere to the land acquisition strategy to meet the long term needs

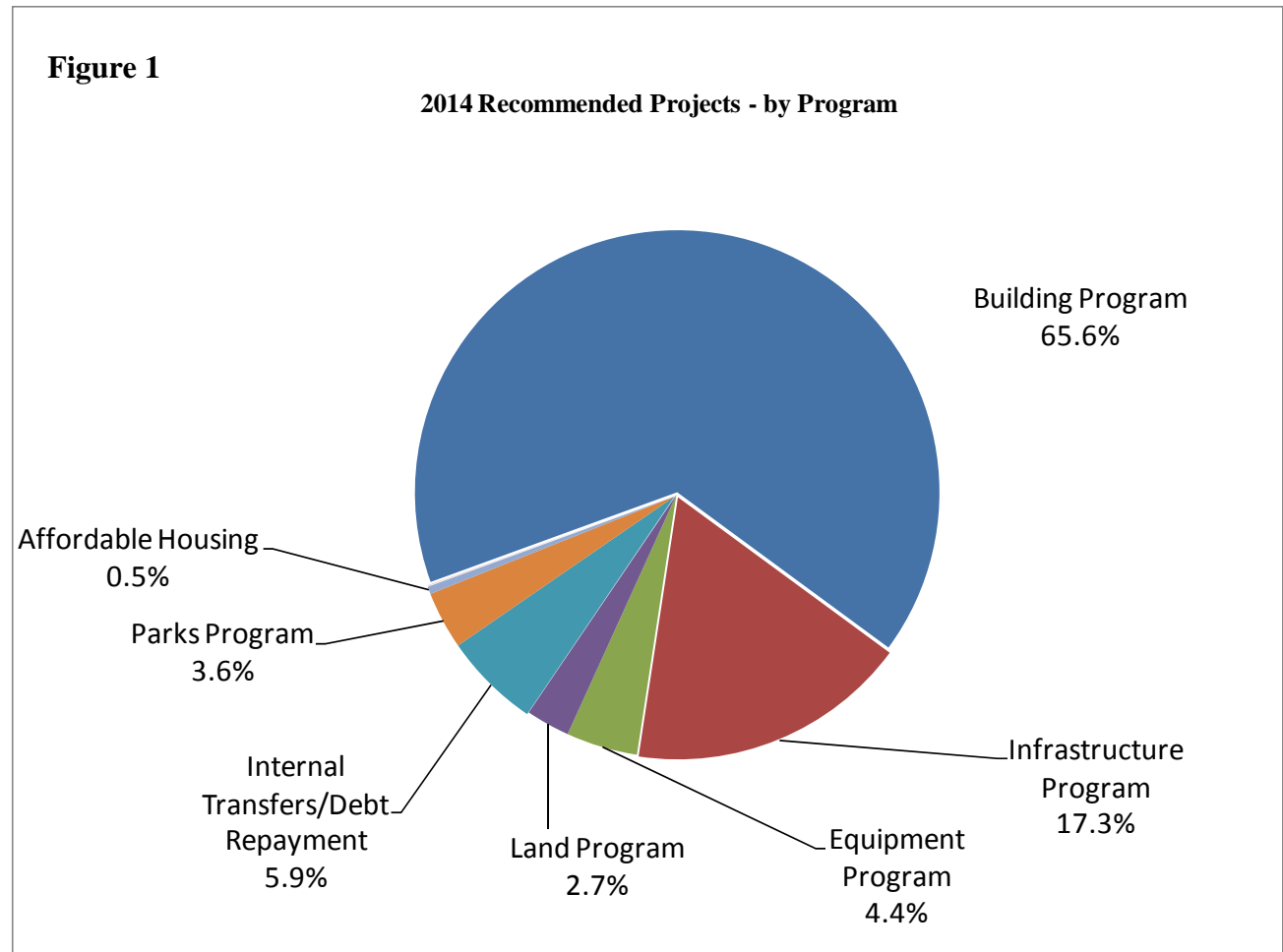
#### **Managing Growth and Development:**

- Addition of the Cambie Mueller Park

### Arts and Culture:

- Restoration and rehabilitation of the Minoru Chapel to ensure the longevity of this iconic Heritage building for the continued use of City residents

The 2014 recommended capital projects by program are summarized in Figure 1.

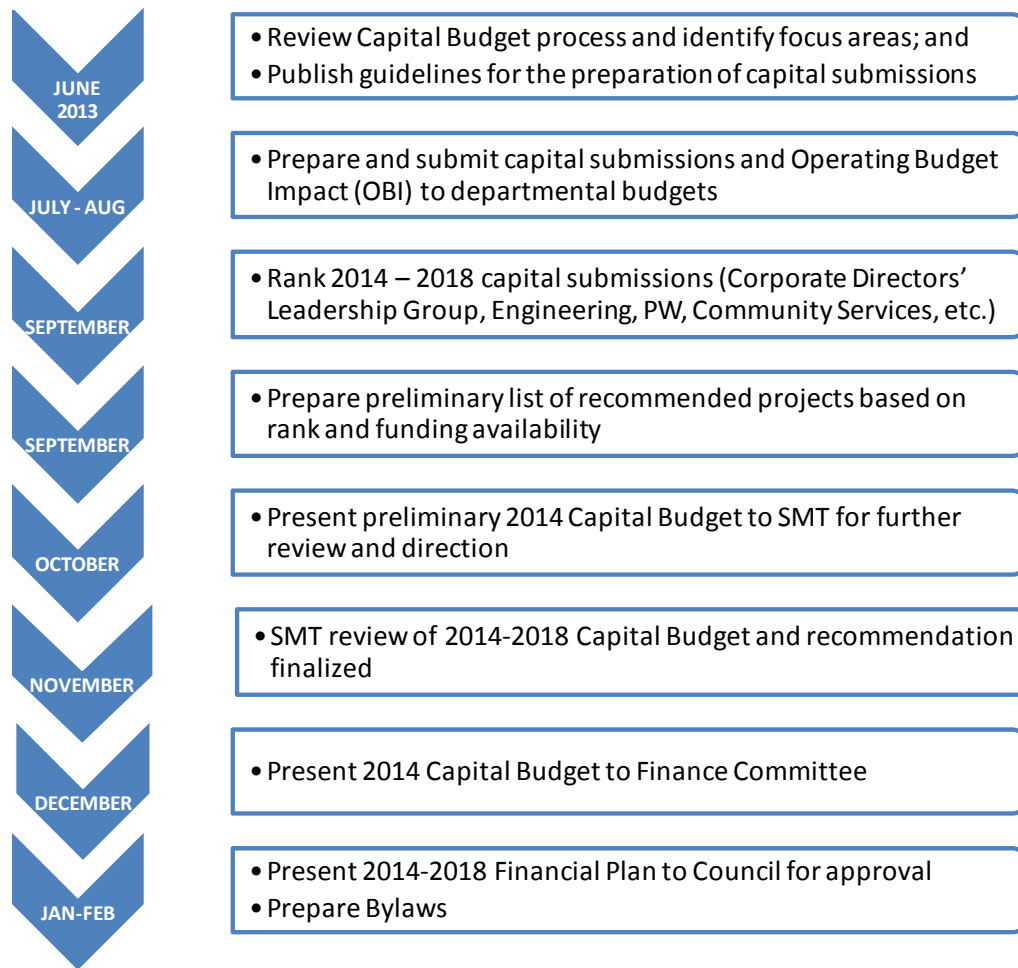


For a complete listing of 2014 projects see Appendix 1.

### 2014 Capital Process

As part of the budget process, the Corporate Directors' Leadership Group (the “CDLG”) which is comprised of Directors from all departments considered strategic and master plans, policies such as the LTFMS and Council priorities. The CDLG completed a ranking process for each capital submission proposed to be funded from the Revolving Fund and Gaming Fund based on the established criteria. Individual departments with reserve funds established by Council rank their own projects which are proposed to be funded from the specific reserves which allow the department to set priorities specific to their area of expertise.

Figure 2 outlines the process behind the 2014-2018 Capital Budget.

**Figure 2**

The CDLG and Departments utilized a ranking system that is contained within the Capital Planning Model (the “model”). This model has proven to be an effective mechanism for prioritizing capital funding requests to ensure that infrastructure needs are managed. The team ranked every capital submission out of a score of 100 based on the established evaluation criteria outlined in figure 3.

**Figure 3**

The ranked projects are consolidated and the projects are recommended based on the funding availability.

Starting with the 2014 budget year process, Information Technology projects were ranked by a separate team using a separate set of criteria. Each IT capital submission was scored out of 70 based on the evaluation criteria outlined in Figure 4.

**Figure 4**



The ranked IT projects are summarized and recommended based on funding availability. All recommended projects are consolidated to form the basis for the 2014-2018 Capital Budget. The budget is then brought forward and reviewed by the Senior Management Team (SMT) and then presented to Council for review and approval.

## 2014 Capital Budget Overview

Capital budgets include:

- Land acquisition, construction and infrastructure (i.e. Roads, recreation centres, etc.)
- Procurement of items used for one-time costs with a life expectancy of more than one year
- Projects funded through government grants, debts and reserves

Table 1 is a breakdown of the 2014 recommended projects by program and the associated Operating Budget Impact (OBI):

**Table 1: Total 2014 Funding by Program**

(in millions)		
Program	Amount	OBI
Infrastructure	\$32.1	\$0.15
Parks	\$6.6	\$0.12
Land	\$5.0	\$0.00
Internal Transfers/Debt Repayment	\$11.0	\$0.00
Equipment	\$8.1	\$0.11
Buildings	\$122.1	\$3.57
Affordable Housing	\$0.9	\$0.00
Child Care	\$0.1	\$0.00
<b>Total 2014 Funding &amp; OBI</b>	<b>\$185.9</b>	<b>\$3.95</b>

\*The detail of each recommended project is attached in Appendix 3.

#### 2014 Operating Budget Impact

Upon completion of capital projects or upon receipt of developer contributions, new assets are added to the City's inventory. There are costs associated with maintaining these new assets, for example a new car added to the City's fleet will require insurance and maintenance costs while a new building will require janitorial, gas and hydro utility costs. This ongoing maintenance cost is the OBI associated with the new asset which is added to the operating budget.

The total OBI relating to the 2014 recommended projects is \$3.95 million. \$3.56 million of this relates to the estimated OBI for the Corporate Facilities Implementation Plan – Phase 1. The OBI for all other recommended projects is \$387k. \$20K of the OBI is associated with water and sewer utility projects and will be addressed through the 2014 utility budget process.

The net impact on the operating budget of \$3.93 million in OBI would result in a property tax impact of 2.25% if this entire amount had to be included in the 2014 Budget. However, the completion of construction of these new facilities will be in 2015 and 2017; therefore, the OBI requirements are staggered over that period of time. An OBI phase-in plan which corresponds with the timing of funding requirements and meets Council policies will be implemented to maintain a modest tax increase. For 2014, an OBI of \$600,000 is proposed to be included in the budget, or a tax impact of 0.34%.

As mentioned above, \$3.56 million of the OBI relates to the CFIP Phase 1. These amounts are preliminary estimates and will be subject to further review and analysis before they are presented to Council for approval. The details of the programming and service levels for these facilities will be the subject of a future Council report to be submitted by Community Services staff. The CAO has requested that this significant OBI request and all future OBI requests be scrutinized by an Operational Review Committee to verify the appropriateness of the service levels and amounts

requested. The CAO also requested that the Operational Review Committee enlist an independent external technical resource should such assistance prove necessary.

\$1.61 million of the estimated \$3.56 million OBI for Phase 1 relates to the new City Centre Community Centre which is scheduled to be completed in 2015. \$1.74 million OBI is for the integrated Older Adults Centre and Minoru Aquatic Centre which is scheduled to be completed by the end of 2017.

Staff recommend commencing the phase-in plan in 2014 based on these estimates and will adjust the plan accordingly once the programming and service level decisions are made. Staff prepared three options for Council's review which are shown in Appendix 6 and summarized in Table 2. Under all options presented, the proposed 2014 OBI increment exceeds the funding requirement as a significant portion of the funding requirements begin in 2015. This surplus will be carried forward and applied towards the 2015 funding requirements.

**Table 2: OBI Phase-In Options**

	Option 1	Option 2 (Recommended)	Option 3
OBI Increment	\$500,000	\$600,000	\$700,000
Year Phase-in Completed	2021	2020	2019
Annual Tax Impact	0.29%	0.34%	0.40%

#### **OBI Phase-in Option 1:**

Option 1 has an incremental OBI impact of \$500,000 each year until the 2014 OBI of \$3.93 million is complete in 2021. This results in an annual tax impact of 0.29%.

Surplus funding from 2014 will be carried forward to fund the 2015 requirement. For years 2015 through 2020 the funding requirement exceeds the amount of OBI phased-in for each year, this difference is proposed to be funded from appropriated surplus to minimize the tax impact until the full OBI amount is phased-in.

Option 1 has the lowest tax impact for each year; however the annual increment does not keep up with the timing of the funding requirement as services are provided. A significant contribution from appropriated surplus would be required to meet Council's policy of keeping the tax increase at Vancouver's CPI rate. Option 1 is not recommended.

#### **OBI Phase-in Option 2 (Recommended):**

Option 2 has an incremental OBI impact of \$600,000 each year until the 2014 OBI of \$3.93 million is complete in 2020. This results in an annual tax impact of 0.34%.

Surplus funding from 2014 will be carried forward to fund the 2015 requirement. For years 2015 through 2019 the funding requirement exceeds the amount of OBI phased-in, this difference is proposed to be funded from appropriated surplus to minimize the tax impact until the full OBI amount is phased-in.



Option 2 utilizes appropriated surplus to minimize the tax impact, but the amount is less than Option 1 and more than Option 3. This option commits a 0.34% tax impact each year until 2019. This option is recommended as the tax impact is modest and supports Council's policy of keeping the tax increase to Vancouver's CPI rate.

### **OBI Phase-in Option 3:**

Option 3 has an incremental OBI impact of \$700,000 each year until the 2014 OBI of \$3.93 million is complete in 2019. This results in an annual tax impact of 0.40%.

Surplus funding from 2014 and 2015 will be carried forward to fund the 2015 and 2016 requirements, respectively. For 2016 through 2018, the funding requirement exceeds the amount of OBI phased-in; this difference is proposed to be funded from appropriated surplus.

Option 3 utilizes appropriated surplus to minimize the tax impact, but the amount is less than Option 2. This option commits a 0.40% tax impact each year until 2018 and a 0.24% tax impact in 2019. This commitment could result in budget challenges for future years making it difficult to meet Council's policy of keeping tax increases at Vancouver's CPI rate. This option is not recommended as Option 2 has a lower annual tax impact with similar timing to phase-in the OBI.

### **2014 New Versus Replacement Capital Construction Costs**

The new Capital Construction costs totals \$23.20 million including highlights such as \$6.70 million for City Centre Community Centre, \$4.23 million for Major Parks, \$3.71 million for Sanitary Sewer, \$2.33 million for Roads, and \$1.92 million for Water. The Replacement Construction costs totals \$151.68 million of which \$113.40 million is due to the Corporate Facilities Implementation Plan for the Older Adults Centre, Minoru Aquatics Centre, and Fire Hall No.1. Other Replacement Construction costs include Water Main replacement for \$7.73 million and Drainage replacement for \$8.54 million.

### **2014 Capital Budget Funding Sources**

The 2014 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 debt borrowings, grants awarded from Provincial and Federal Governments, developer cash contributions (other than DCCs) and other non-City related sources.
- Utilities – These are funds collected through utility bills and are specified for waterworks, sanitary sewer and drainage.
- City Sources – This includes all other sources of City funding such as statutory reserves, appropriated surplus (provisions) and accumulated surplus.

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.

Council endorsed the funding strategy for the Major Capital Facilities Program Phase 1 to use a mix of internal funding and \$50 million external financing from Municipal Finance Authority (MFA). As outlined in the report to Council on June 24, 2013 there is no tax impact as a result of this debt borrowing.

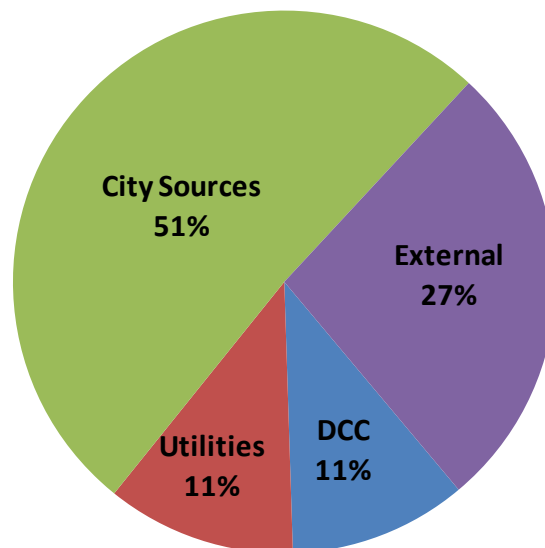
The funding sources of the 2014 recommended projects are summarized in Table 3 and Figure 5.

**Table 3: 2014 Funding Sources**

(in millions)	
Funding Sources	Amount
City Sources	\$93.2
DCC	\$19.7
Utilities	\$22.9
External Sources	<u>\$50.1</u>
<b>Total 2014 Funding</b>	<b>\$185.9</b>

**Figure 5**

**2014 Recommended Projects - By Funding Source**



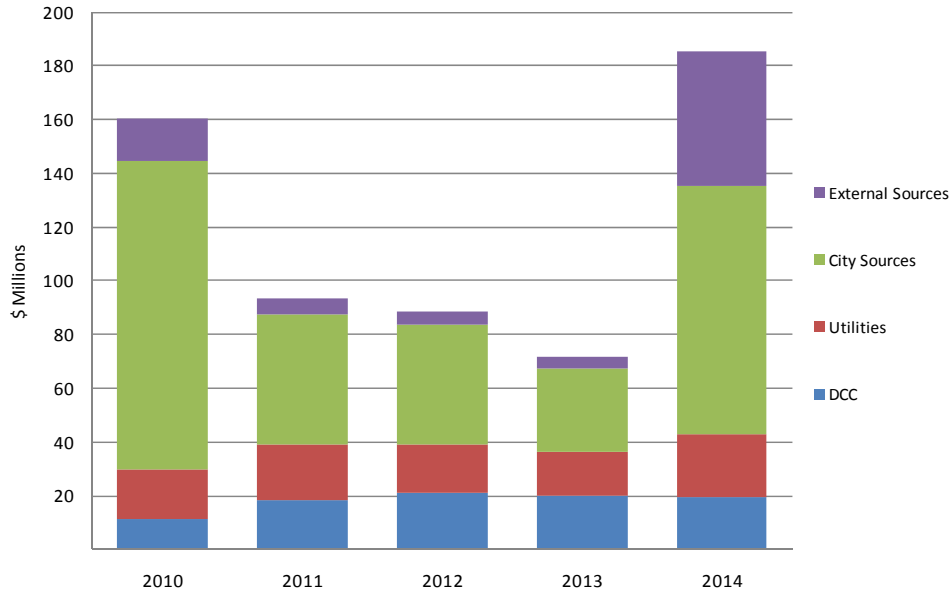
#### Recommended 2014 Versus Historical (2010 to 2014) Capital Budget Analysis

Figures 6 and 7 provide analysis of the funding sources and the program types of the capital budget for the past four years compared to the 2014 recommended capital plan.

As is evident by these charts, capital expenditures have decreased to normal levels around \$70 million annually after adjusting for the RCMP building, Garden City Lands acquisition and Oval

legacy programs in 2010 and 2011. If the major facilities are adjusted from the 2014 capital plan, the capital expenditures are in line with normal levels.

**Figure 6** Capital Budget by Funding Sources  
2010 to 2014



**Figure 7** Capital Budget by Program  
2010 to 2014

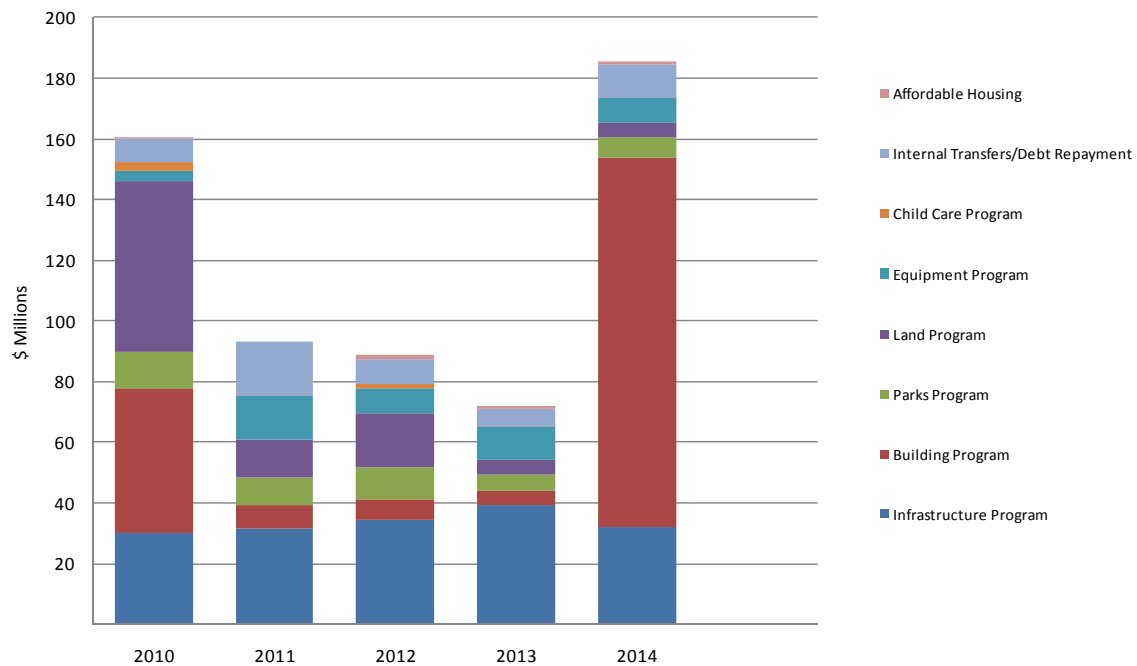
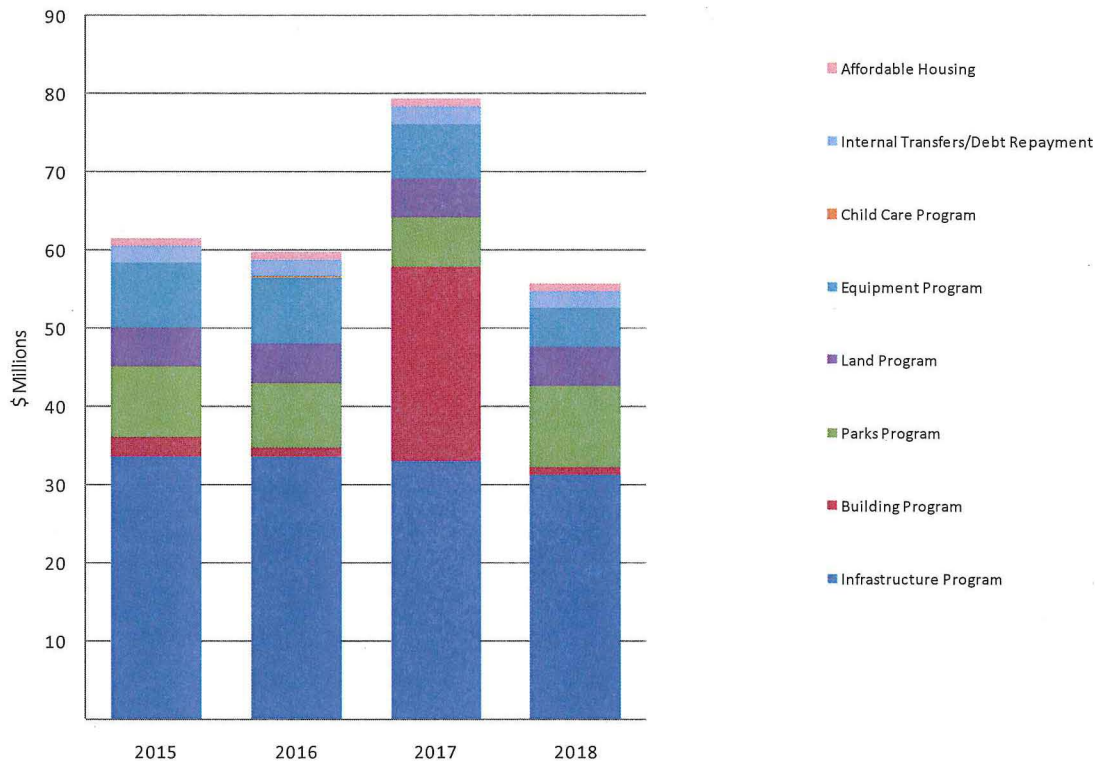


Figure 8 shows the 5 Year Capital Plan will continue to invest an average of over \$60M each year in the City's assets.

**Figure 8**

**Capital Budget by Program  
2015 to 2018**



### Financial Impact

The 2014 Capital Budget with a total value of \$185.9 million will enable the City to maintain and advance the asset inventory and provide necessities and benefits to the community. The OBI associated with these projects is \$3.95 million and once approved will be incorporated into the 2014-2018 5YFP.

### Conclusion

The Corporate Director's Leadership Group worked closely with the Finance Division, the CAO and SMT to represent the interests of all stakeholders to ensure that the capital program addresses Council Term Goals and meets the needs of the community while effectively utilizing available funding.

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Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<b>Roads</b>			
Active Transportation Improvement Program	\$325,000	\$11,160	24
Annual Asphalt Re-Paving Program - MRN	831,000	-	25
Annual Asphalt Re-Paving Program - Non-MRN	2,105,460	-	26
Crosswalk Improvement Program	250,000	13,100	27
Functional and Preliminary Design (Transportation)	25,000	-	28
Neighbourhood Traffic Safety Program	550,000	35,662	29
New Traffic Signal Installation at Cambie Road / Stolberg Street	175,000	5,500	30
Pedestrian and Roadway Program	400,000	12,896	31
Roads Minor Capital	250,000	-	32
Traffic Signal Program	600,000	18,200	33
<b>Total Roads</b>	<b>\$5,511,460</b>	<b>\$96,518</b>	
<b>Drainage</b>			
ALR Drainage System Upgrades - South Sidaway Area Phase 1 of 3	300,000	2,000	35
Canal Stabilization - No. 3 Road and No. 8 Road Phase 3 of 5	300,000	(1,000)	36
Development Coordinated Works in Capital	400,000	-	37
Dike Upgrades	1,000,000	-	38
Drainage Pump Station Generator Upgrade - No 8 Road North	120,000	3,000	39
Drainage Pump Station Upgrade - No 2 Road North	4,400,000	13,000	40
Laneway Drainage and Asphalt Upgrade - 11000 Blk Williams Rd	270,000	-	41
Laneway Drainage and Asphalt Upgrade - Dennis Crescent (East)	550,000	-	42
Williams Rd Storm Sewer Upgrades	1,200,000	-	43
<b>Total Drainage</b>	<b>\$8,540,000</b>	<b>\$17,000</b>	
<b>Waterworks</b>			
Bulk Water Meter Installations - Boundary Road Area	400,000	-	45
Development Coordinated Works in Capital	500,000	-	46
Lockhart Road Watermain, Drainage and Neighbourhood Improvement	1,950,000	8,000	47
Minor Capital Waterworks Program	300,000	-	48
Residential Water Metering	1,920,000	-	49
Watermain Replacement - Colbeck Road Area	2,810,000	-	50
Watermain Replacement - Ledway Area	960,000	-	51
Watermain Replacement - Ryan Road Area	810,000	-	52
<b>Total Waterworks</b>	<b>\$9,650,000</b>	<b>\$8,000</b>	



Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<i>Sanitary Sewer</i>			
Buswell St. Gravity Sewer Installation	2,190,000	-	54
Development Coordinated Works in Capital	100,000	-	55
Eckersley B Pump Station Replacement	1,350,000	3,000	56
Hamilton Sanitary Sewer Phase 2	1,520,000	17,000	57
Leslie Pump Station Forcemain Replacement	560,000	-	58
Public Works Minor Capital - Sanitary	300,000	-	59
Sanitary Sewer Assessment	410,000	-	60
<b>Total Sanitary Sewer</b>	<b>\$6,430,000</b>	<b>\$20,000</b>	
<i>Minor Public Works</i>			
PW Minor Capital - Traffic	225,000	6,100	62
<b>Total Minor Public Works</b>	<b>\$225,000</b>	<b>\$6,100</b>	
<i>Infrastructure Advanced Design</i>			
City Centre District Energy Utility	300,000	-	64
PW Infrastructure Advanced Design	1,442,000	-	65
<b>Total Infrastructure Advanced Design</b>	<b>\$1,742,000</b>	<b>\$0</b>	
<b>TOTAL INFRASTRUCTURE PROGRAM</b>	<b>\$32,098,460</b>	<b>\$147,618</b>	
<b>B. BUILDING PROGRAM</b>			
<i>Minor Building</i>			
	105,500	3,720	67
<b>Total Minor Building</b>	<b>\$105,500</b>	<b>\$3,720</b>	
<i>Major Building</i>			
City Centre Community Centre	6,700,000	1,608,184	68
Fire Hall No. 1	21,500,000	209,366	69
Japanese FBS Building Exhibit Development	171,000	-	70
Major Facilities Phase I Multi Project Contingency and Construction Escalation Contingency	15,000,000	-	71
Middle Arm Gathering Place Design	150,000	-	72
Minoru Aquatic Centre/Older Adults Centre	76,900,000	1,743,665	73
Minoru Chapel Restoration and Rehabilitation	625,000	-	74
Richmond Ice Centre - Chiller Replacements	550,000	-	75
Richmond Ice Centre - HVAC/Refrigeration Equipment	440,000	-	76
<b>Total Major Building</b>	<b>\$122,036,000</b>	<b>\$3,561,215</b>	
<b>TOTAL BUILDING PROGRAM</b>	<b>\$122,141,500</b>	<b>\$3,564,935</b>	

Project Name	Total Investment	Total OBI	Ref
<b>C. PARKS PROGRAM</b>			
<i>Minor Parks</i>			
Parks Ageing Infrastructure Retrofit Program	75,000	-	78
Parks General Development	250,000	3,000	79
Playground Improvement Program	300,000	4,300	80
<b>Total Minor Parks</b>	<b>\$625,000</b>	<b>\$7,300</b>	
<i>Major Parks/Streetscapes</i>			
Cambie Mueller Park	1,500,000	9,660	81
City Tree Planting Program	150,000	15,080	82
Minoru Artificial Turf Retrofit - Minoru 2 field	600,000	-	83
Minoru Park - Track Resurfacing	450,000	-	84
ORA Development - Park OBI	1	10,240	85
Parks Advance Planning & Design	350,000	-	86
Railway Greenway Phase 2	330,000	32,358	87
Railway Greenway Washrooms at Branscombe House - OBI	1	19,870	88
Terra Nova Play Environment Washroom & Landscaping	650,000	15,000	89
The Gardens Agricultural Park	850,000	-	90
Trails	250,000	3,074	91
Tree Planting/Urban Forest Advance Design Program	150,000	-	92
<b>Total Major Parks/Streetscapes</b>	<b>\$5,280,002</b>	<b>\$105,282</b>	
<i>Public Art</i>			
Public Art Program	690,324	10,000	93
<b>Total Public Art</b>	<b>\$690,324</b>	<b>\$10,000</b>	
<b>TOTAL PARKS PROGRAM</b>	<b>\$6,595,326</b>	<b>\$122,582</b>	
<b>D. LAND PROGRAM</b>			
<i>Land Acquisition</i>			
Strategic Land Acquisition	5,000,000	-	95
<b>TOTAL LAND PROGRAM</b>	<b>\$5,000,000</b>	<b>\$0</b>	
<b>E. AFFORDABLE HOUSING PROGRAM</b>			
<i>Affordable Housing</i>			
Affordable Housing Projects - City Wide	857,000	-	97
<b>TOTAL AFFORDABLE HOUSING PROGRAM</b>	<b>\$857,000</b>	<b>\$0</b>	

Project Name	Total Investment	Total OBI	Ref
<b>F. EQUIPMENT PROGRAM</b>			
<i>Vehicle Equipment</i>			
Vehicles for RCMP Detachment Leadership Team	105,000	33,920	100
<b>Total Annual Fleet Replacement</b>	<b>\$105,000</b>	<b>\$33,920</b>	
<i>Technology</i>			
2014 Server Replacements	232,000	-	101
Amanda Mobile 6.0 Upgrade Implementation	97,555	12,400	102
Energy Management - 2014 Projects	645,000	-	103
Existing Operational Desktop Computer Hardware	330,000	-	
Funding			104
Fibre Optic Cabling to City Facilities - Phase 8b	120,000	-	105
Fibre Optic Cabling to City Facilities - Phase 9/10	130,000	-	106
Mobile Middleware Framework	200,000	-	107
PeopleSoft 9.2 Enhancements and Business Intelligence	450,000	-	
Tools			108
Richmond Fire Mobile In Apparatus Computers	150,000	-	
(Evergreen)			109
WorkSafeBC Claims/Incident Management System	151,200	22,800	110
<b>Total Technology</b>	<b>\$2,505,755</b>	<b>\$35,200</b>	
<i>Annual Fleet Replacement</i>			
Vehicle and Equipment Reserve Purchases (PW and Corporate Fleet) (Submission #1 of #2)	1,980,000	-	111
<b>Total Annual Fleet Replacement</b>	<b>\$1,980,000</b>	<b>\$0</b>	
<i>Fire Dept. Vehicles</i>			
Fire Equipment Replacement	318,182	-	112
Fire Vehicle Replacement Reserve Purchases	886,641	-	113
<b>Total Fire Dept. Vehicles</b>	<b>\$1,204,823</b>	<b>\$0</b>	
<i>Computer Capital/Software</i>			
Hansen Upgrade	1,175,500	44,100	114
<b>Total Computer Capital/Software</b>	<b>\$1,175,500</b>	<b>\$44,100</b>	
<i>Miscellaneous Equipment</i>			
Library Material Purchases	1,162,900	-	115
<b>Total Miscellaneous Equipment</b>	<b>\$1,162,900</b>	<b>\$0</b>	
<b>TOTAL EQUIPMENT PROGRAM</b>	<b>\$8,133,978</b>	<b>\$113,220</b>	

Project Name	Total Investment	Total OBI	Ref
<b>G. CHILD CARE PROGRAM</b>			
<i>Child Care</i>			
Child Care Projects- City Wide	50,000	-	117
<b>TOTAL CHILD CARE PROGRAM</b>	<b>\$50,000</b>	<b>\$0</b>	
<b>H. INTERNAL TRANSFERS/DEBT REPAYMENT</b>			
<i>Internal Transfers/Debt Repayment</i>			
Nelson Road Interchange Repayment	385,098	-	119
Parkland Acquisition City Wide	8,000,000	-	120
Parkland Acquisition West Cambie	1,200,000	-	121
River Rd/North Loop (2005) Repayment	1,317,000	-	122
Shovel - Ready Grant (2009) Repayment Lansdowne	77,263	-	
Rd Extension			123
<b>TOTAL INTERNAL TRANSFERS/DEBT REPAYMENT</b>	<b>\$10,979,361</b>	<b>\$0</b>	
<b>Total 2014 Capital Program</b>	<b>\$185,855,625</b>	<b>\$3,948,355</b>	

Project Name	Total Investment	Total OBI	Ref
Project Development Advanced Design	200,000	-	124
Inter-agency Emergency Command Vehicle	992,000	60,828	125
<b>Total 2014 Capital Program</b>	<b>\$ 1,192,000</b>	<b>\$ 60,828</b>	

Note: Certain Unfunded Capital Projects were moved to the One-Time Expenditures Requests List.

<b>Project Name</b>	<b>Total Investment</b>	<b>Total OBI</b>	<b>Ref</b>
<b><i>Roads</i></b>			
Roads Minor Capital	\$250,000	\$0	32
<b><i>Total Roads</i></b>	<b><i>\$250,000</i></b>	<b><i>\$0</i></b>	
<b><i>Major Building</i></b>			
City Centre Community Centre	400,000	1,608,184	68
Minoru Chapel Restoration and Rehabilitation	625,000	-	74
Richmond Ice Centre - HVAC/Refrigeration Equipment	440,000	-	76
Richmond Ice Centre - Chiller Replacements	550,000	-	75
Middle Arm Gathering Place Design	150,000	-	72
<b><i>Total Major Building</i></b>	<b><i>\$2,165,000</i></b>	<b><i>\$1,608,184</i></b>	
<b><i>Major Parks/Streetscapes</i></b>			
Minoru Park - Track Resurfacing	450,000	-	84
<b><i>Total Major Building</i></b>	<b><i>\$450,000</i></b>	<b><i>\$0</i></b>	
<b>Total 2014 Funded by the Revolving Fund</b>	<b>\$2,865,000</b>	<b>\$1,608,184</b>	

Note: The amount shown for City Centre Community Centre represents only the portion funded by the Revolving Fund.



## Infrastructure Program 2014-2018

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

### 2014 Recommended Infrastructure Road Program

Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<b>Roads</b>			
Active Transportation Improvement Program	\$325,000	\$11,160	24
Annual Asphalt Re-Paving Program - MRN	831,000	-	25
Annual Asphalt Re-Paving Program - Non-MRN	2,105,460	-	26
Crosswalk Improvement Program	250,000	13,100	27
Functional and Preliminary Design (Transportation)	25,000	-	28
Neighbourhood Traffic Safety Program	550,000	35,662	29
New Traffic Signal Installation at Cambie Road / Stolberg Street	175,000	5,500	30
Pedestrian and Roadway Program	400,000	12,896	31
Roads Minor Capital	250,000	-	32
Traffic Signal Program	600,000	18,200	33
<b>Total Roads</b>	<b>\$5,511,460</b>	<b>\$96,518</b>	

## Infrastructure – Roads


<b>Program:</b>	Infrastructure Program		<b>Sub-program:</b>	Roads
<b>Project Name:</b>	Active Transportation Improvement Program		<b>Submission ID:</b>	3884
<b>Location:</b>	Various Locations			
<b>Cost:</b>	\$325,000		<b>OBI:</b>	\$11,160
<b>Funding Sources:</b>	Roads DCC: \$305,500 Roads City Assist: \$19,500 Grant: N/A			
<b>Scope:</b>	<p>The general scope of this program involves implementing cycling and rolling improvements included as part of the Council-approved Cycling Network Plan by supporting: 1) the expansion of various on-street cycling routes and off-street multi-use pathways; and 2) cycling and rolling initiatives and on-going enhancements to existing cycling and rolling infrastructure.</p> <p>Typical elements of the program include the construction of new on-street cycling facilities, off-street multi-use pathways primarily for transportation purposes, installation of bike racks, new signage, pavement markings, associated minor road geometric improvements, and other supplementary cycling and rolling amenity improvements required to facilitate the safe and efficient movement of cyclists and users of personal mobility devices such as mopeds, wheelchairs and motorized scooters.</p> <p>The following list of improvements are currently being planned for 2014 (subject to factors such as the completion of the detailed design, confirmation of external funding approval, etc):</p> <p>Parkside Neighbourhood Bikeway (Ash Street)</p> <ul style="list-style-type: none"> <li>- upgrade of special crosswalk to a pedestrian signal at Ash St-Blundell Rd</li> <li>- intersection improvements at Ash St-Williams Rd to facilitate EB to NB left-turn for cyclists</li> </ul> <p>Cross town Neighbourhood Bikeway (new east-west route between Blundell Rd &amp; Francis Rd connecting Railway to Parkside Bikeway (Ash Street)):</p> <ul style="list-style-type: none"> <li>- upgrade of off-street pathway (connects Dorval Rd &amp; Lucas Rd)</li> <li>- upgrade of connecting sidewalks at off-set intersections to accommodate cyclists</li> </ul> <p>This program 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.</p>			



## 2014 Details of Recommended Projects by Program

## Appendix 4


### Infrastructure – Roads

Program:	Infrastructure Program	Sub-program:	Roads
Project Name:	Annual Asphalt Re-Paving Program – MRN	Submission ID:	4645
Location:	City Wide		
Cost:	\$831,000	OBI:	\$ 0
Funding Sources:	Roads – Asphalt Capping: \$831,000		
Scope:	<p>To re-pave MRN roads. Project list to be determined by the end year 2013. The project does not include the cost of essential ancillary work typically completed by City crews such as curb and gutter repairs, road base repair and manhole and valve box adjustments.</p> <p>The project runs during the summer of every year.</p> <p>The project can relate to a number of water, sanitary and drainage upgrades that are co-ordinated by the Engineering Planning and Engineering Construction Section.</p>		
			

## 2014 Details of Recommended Projects by Program


## Appendix 4

### Infrastructure – Roads

Program:	Infrastructure Program	Sub-program:	Roads
Project Name:	Annual Asphalt Re-Paving Program - Non-MRN	Submission ID:	4851
Location:	City Wide		
Cost:	\$2,105,460	OBI:	\$ 0
Funding Sources:	Roads – Asphalt Capping: \$2,105,460		
Scope:	<p>To re-pave City owned Non-MRN roads (major &amp; minor roads and lanes). In alignment with the City's Ageing Infrastructure Strategy. Project list to be determined by the end of 2013. The project does not include the cost of essential ancillary work typically completed by City crews such as curb and gutter repairs, road base repair and manhole and valve box adjustments</p> <p>The project runs during the summer of every year.</p>		
			

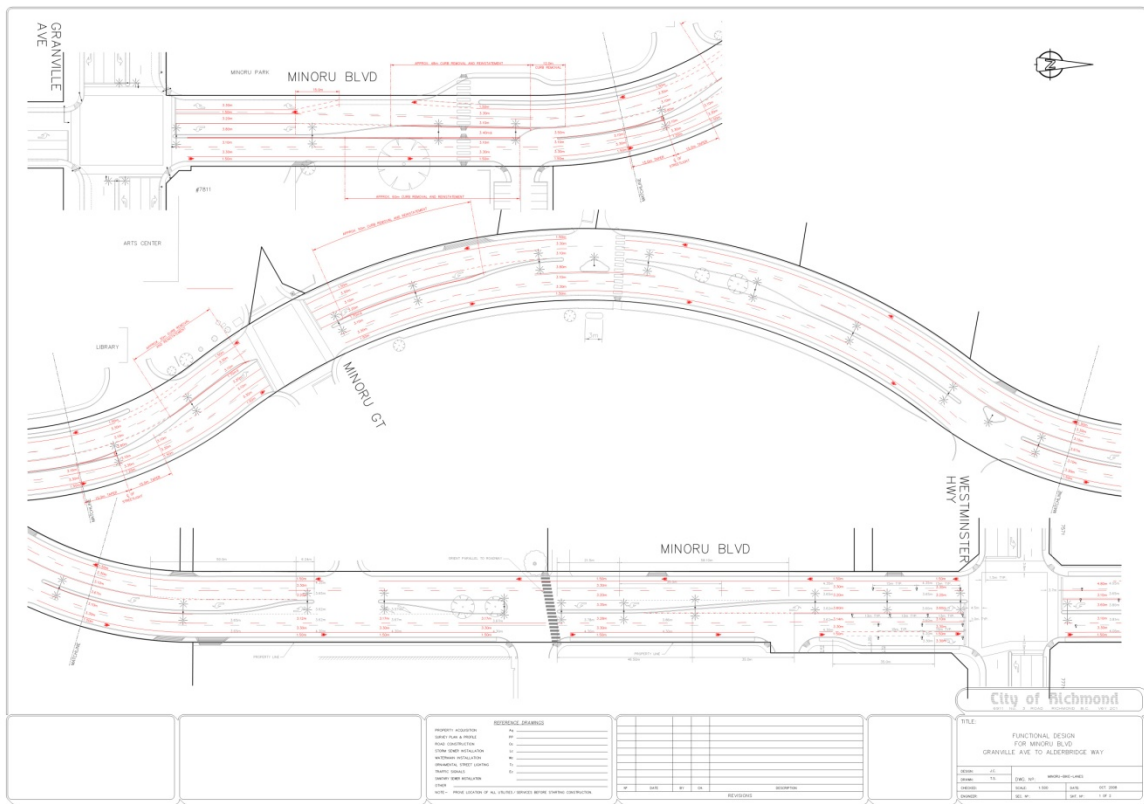


## Infrastructure – Roads

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Crosswalk Improvement Program		Submission ID:	3886
Location:	City Wide			
Cost:	\$250,000		OBI:	\$ 13,100
Funding Sources:	Roads DCC:	\$235,000		
	Roads City Assist:	\$15,000		
Scope:	<p>1) Enhanced Crosswalks:</p> <p>The general scope of work involves the upgrade of existing crosswalks on arterial roads (typically four-lane arterials) to "special crosswalks" with overhead illuminated signs, amber flashers and pedestrian-controlled push buttons. Where appropriate (e.g., two-lane arterials), the upgrade involves side-mounted amber flashers at a significantly lower cost. 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 following locations are planned for 2014:</p> <ul style="list-style-type: none"><li>- 8000-block No. 5 Road (south of Blundell Road)</li><li>- 7400-block River Road (Navy League site)</li><li>- No 4 Road &amp; Dayton Avenue</li></ul> <p>2) Enhanced Accessible Traffic Signals:</p> <p>The general scope of work includes the installation of accessible devices at signalized intersections, special crosswalks and pedestrian signals. For 2014/2015, the preliminary list of potential locations includes existing signalized intersections along Railway Avenue and within the City Centre along roads such as Minoru Boulevard, No. 3 Road and Gilbert Road.</p> <p>The exact scope of improvements may be refined due to factors such as priority review, availability of external funding from senior government and/or opportunity to pursue these improvements as part of development frontage improvements, etc. Any surplus funding will be used to fund additional locations based on priority review.</p> <p>The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from ICBC. Proposed preliminary funding breakdown between enhanced crosswalks and enhanced accessible traffic signals are approximately \$175,000 and \$75,000, respectively.</p>			
				


## Infrastructure – Roads

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Functional and Preliminary Design (Transportation)		Submission ID:	5070
Location:	Various locations			
Cost:	\$25,000	OBI:	\$ 0	
Funding Sources:	Roads DCC:	\$23,500		
	Roads City Assist:	\$1,500		
Scope:	<p>Project scope includes preparing the functional and preliminary designs required for various transportation capital projects identified within the Five-Year Capital Program. Specifically, with this project, the necessary functional road elements in horizontal alignment, cross-section, property impacts, etc. would be determined to carry out further detailed engineering design.</p> <p>The project would be funded solely by the DCC program funding. A major cost component of the project is design consultant fees. Note: The cost estimate is based on 2% of capital projects that require functional designs.</p>			







## Infrastructure – Roads

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Neighbourhood Traffic Safety Program		Submission ID:	3900
Location:	Citywide			
Cost:	\$550,000		OBI:	\$35,662
Funding Sources:	Roads DCC: \$517,000 Roads City Assist: \$33,000			
Scope:	<p>1) Traffic Calming Measures: The general scope involves retrofitting existing streets with traffic calming measures to address traffic safety concerns and maintain neighbourhood livability. The major cost component of the program is the installation of traffic calming related improvements including the construction of curb extensions, centre medians, installation of delineated walkways, extruded curbs, traffic circles, etc. In addition, projects contained in this program may also include supplementary streetscape improvements ( i.e., planting of trees and other landscaping) to enhance the local pedestrian environment and overall street appearance. The exact scope of work would be refined depending on requests that may be received by members of public and Council.</p> <p>2) Neighbourhood Walkways/Sidewalks: The general scope includes the construction of new and/or enhancement of existing neighbourhood walkways/sidewalks in the city. Priority would be given to walkways/sidewalks connecting locations with high pedestrian activities, such as schools, neighbourhood service centres, bus stops, recreational services centres, shopping/retail centres, etc., that are along key roads, particularly roads with high traffic volumes. The major cost component of the program is the construction/upgrade of new/existing sidewalks, pathways, wheelchair ramps, minor curb cuts, boulevard modifications, and other supplementary improvements.</p> <p>The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from ICBC. Proposed preliminary funding for this year are approximately as follows:</p> <p>1) Traffic Calming Measures: \$100,000 (various locations) 2) Walkways: \$450,000 (Belair Drive: Gilbert Rd-Broadmoor Blvd)</p>			
				

## Infrastructure – Roads

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	New Traffic Signal Installation at Cambie Road / Stolberg Street		Submission ID:	5204
Location:	Cambie Road / Stolberg Street			
Cost:	\$175,000		OBI:	\$5,500
Funding Sources:	Roads DCC (West Cambie): \$164,500 Roads City Assist: \$10,500			
Scope:	<p>The general scope of this project involves the installation of new traffic signal hardware, including traffic controllers/cabinets, poles, bases, junction boxes, underground conduits, controller, detector loops, enhanced accessible devices, related wiring and pavement markings, and communications conduit and cable.</p> <p>The project is proposed to be funded by the West Cambie Area Roads DCC funding and may be eligible for external funding contributions from ICBC.</p>			
				

## Infrastructure – Roads


Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Pedestrian and Roadway Program		Submission ID:	3898
Location:	Various			
Cost:	\$400,000		OBI:	\$12,896
Funding Sources:	Roads DCC: \$329,000 Roads City Assist: \$21,000 Grant: \$50,000			
Scope:	<p>1) Sidewalks/Walkways along Arterial Roads (\$150,000) The general scope includes the construction of new and/or enhancement of existing walkways/sidewalks along arterial roads in the City. Priority would be given to walkways/sidewalks connecting locations with high pedestrian activities that are along arterial roads with high traffic volumes. For 2014, a new sidewalk/walkway along the east side of Railway Avenue, from Linfield Gate to Blundell Road, has been identified as the potential location.</p> <p>2) Miscellaneous Intersection Improvements (\$150,000): The general scope includes: - construction of a turn lane; - improved channelization; - traffic signage; and/or - installation of safety enhancements at intersections. For 2014, a new southbound-to-eastbound left-turn lane at Garden City Rd/Odlin Rd has been identified as a potential project.</p> <p>3) Transit-Related Infrastructures (\$100,000): The general scope includes municipal road and traffic improvements that are required to support the introduction of various transit service improvements. The major cost components are expected to include the installation of new bus stop pads, minor road geometric improvements (e.g. Intersection corner improvements), minor sidewalk construction, wheelchair ramps, upgrade of existing bus stops to accessible standards, bus shelters, and other supplementary pedestrian improvements required to facilitate pedestrian traffic generated by transit passengers.</p> <p>Nine bus stops on the west side of Railway Ave have been identified as potential locations for bus landing pad improvements starting in 2014. These improvements would be implemented over time.</p> <p>The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from TransLink and ICBC. The exact scope of 2014 improvements may be refined subject to factors such as priority review, availability of external funding and/or opportunity to pursue these improvements as part of development frontage improvements.</p>			
				



## 2014 Details of Recommended Projects by Program


## Appendix 4

### Infrastructure – Roads

Program:	Infrastructure Program	Sub-program:	Roads
Project Name:	Roads Minor Capital	Submission ID:	4893
Location:	Citywide		
Cost:	\$250,000	OBI:	\$0
Funding Sources:	Capital Reserve - Revolving: \$250,000		
Scope:	These are road related minor infrastructure upgrades and the capital replacement of failing infrastructure that include, but are not limited to, the installation of wheel chair ramps, the replacement of uneven sidewalks, curbs and small road sections (e.g. that are damaged through tree root ingress or settlement), street light repair, and the response to resident service requests that require site specific repairs.		
			

## Infrastructure – Roads

Program:	Infrastructure Program		Sub-program:	Roads
Project Name:	Traffic Signal Program		Submission ID:	3901
Location:	Various Locations			
Cost:	\$600,000		OBI:	\$18,200
Funding Sources:	Roads DCC:	\$564,000		
	Roads City Assist:	\$36,000		
Scope:	<p>The major cost component of the program is the installation of traffic controllers/cabinets, poles, bases, junction boxes, underground conduits, controller, detector loops, enhanced accessible devices, related wiring and pavement markings, traffic signal communications infrastructure (fibre optic cable network and wireless communications upgrades), minor corner property acquisitions. In addition, projects contained in this program may also include minor curb cuts and boulevard modifications. The locations for new traffic signal installations are determined based on public requests, development patterns, traffic safety, opportunities for improved efficiency, and capacity requirements.</p> <p>For 2014, a new traffic signal at Park Road / Buswell Street as well as various upgrades of existing traffic signals, including the provision of left-turn arrows, have been identified as potential projects. The exact scope of improvements may be refined subject to factors such as the completion of detailed design, priority review and availability of external funding.</p> <p>Approximately one to two complete video detection systems would also be installed, each utilizing four detection cameras, software, mounting hardware and wiring to controller cabinet, and communications cable or wireless systems and related electronics. Several corridors have been identified for improvements starting in 2014 and continue into the future, including select intersections along Granville Avenue (Minoru Boulevard to St. Albans Road), and Steveston Highway (Gilbert Road to Coppersmith Pl). The exact scope of improvements may be refined subject to factors such as the completion of detailed design, priority review and availability of external funding.</p> <p>The program is proposed to be funded by the DCC program funding and may be eligible for external funding contributions from ICBC. Proposed preliminary funding breakdowns between traffic signals and traffic detector video systems improvements are approximately \$475,000 and \$125,000, respectively.</p>			



## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Drainage

#### 2014 Recommended Infrastructure Drainage Program


Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<b>Drainage</b>			
ALR Drainage System Upgrades - South Sidaway Area Phase 1 of 3	300,000	2,000	35
Canal Stabilization - No. 3 Road and No. 8 Road Phase 3 of 5	300,000	(1,000)	36
Development Coordinated Works in Capital	400,000	-	37
Dike Upgrades	1,000,000	-	38
Drainage Pump Station Generator Upgrade - No 8 Road North	120,000	3,000	39
Drainage Pump Station Upgrade - No 2 Road North	4,400,000	13,000	40
Laneway Drainage and Asphalt Upgrade - 11000 Blk Williams Rd	270,000	-	41
Laneway Drainage and Asphalt Upgrade - Dennis Crescent (East)	550,000	-	42
Williams Rd Storm Sewer Upgrades	1,200,000	-	43
<b>Total Drainage</b>	<b>\$8,540,000</b>	<b>\$17,000</b>	



## 2014 Details of Recommended Projects by Program

## Appendix 4


### Infrastructure – Drainage

Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	ALR Drainage System Upgrades - South Sidaway Area Phase 1 of 3	Submission ID:	5136
Location:	Sidaway Road and Steveston Highway		
Cost:	\$300,000	OBI:	\$2,000
Funding Sources:	Drainage Utility: \$300,000		
Scope:	Lower culvert watercourse crossings and reprofile watercourses along Steveston Highway between Sidaway Road and Palmberg Road and on Sidaway Road between Steveston Highway and the Francis Road Right-of-Way. Install two automated irrigation control structures on Steveston Highway and Palmberg Road. The work will be undertaken in 3 phases to balance other drainage funding priorities.		
			

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Drainage

Program:	Infrastructure Program		Sub-program:	Drainage
Project Name:	Canal Stabilization - No. 3 Road and No. 8 Road Phase 3 of 5		Submission ID:	4785
Location:	No. 3 Road and No. 8 Road Canals			
Cost:	\$300,000		OBI:	(\$1,000)
Funding Sources:	Drainage Utility: \$300,000			
Scope:	Implement one or more canal bank stabilization solutions at various locations south of Steveston Highway. This will include partial re-profiling of the canal plus construction of a retaining wall or similar stabilisation structure.			
	This is a 5 year program that will be used to deal with canal and ditch wall stabilisation issues in Richmond.			
				



## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Drainage

<b>Program:</b>	Infrastructure Program		<b>Sub-program:</b>	Drainage
<b>Project Name:</b>	Development Coordinated Works in Capital		<b>Submission ID:</b>	5304
<b>Location:</b>	Citywide			
<b>Cost:</b>	\$400,000		<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Drainage Utility: \$400,000			
<b>Scope:</b>	<p>This project will enable the City to leverage City and private development over the next year to design and construct drainage infrastructure works that are currently not identified in the Capital program but will benefit the City.</p> <p>These are upgrades and replacement of infrastructure that the City would complete separately but economic and engineering efficiencies can be achieved by completing this work at the same time the development takes place.</p>			


## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Drainage

Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Dike Upgrades	Submission ID:	4977
Location:	Fraser River North and South Arms		
Cost:	\$1,000,000	OBI:	\$ 0
Funding Sources:	Drainage Utility: \$1,000,000		
Scope:	Implement dike improvements along the Fraser River's North and South Arm. Projects will address current infrastructure deficiencies and meet medium to long-term needs. Projects will accommodate local areas needs such as the provision of basic recreational trails.		
			

## Infrastructure – Drainage

Program:	Infrastructure Program		Sub-program:	Drainage						
Project Name:	Drainage Pump Station Generator Upgrade - No 8 Road North		Submission ID:	4803						
Location:	North end of No 8 Road									
Cost:	\$120,000		OBI:	\$3,000						
Funding Sources:	Drainage Utility: \$120,000									
Scope:	<p>Construct a concrete pad with fenced surround. Purchase and install a 200 KW generator and connect via a new transfer switch.</p> <p>The project is estimated to take 1 month and be completed before 2014 year end.</p> <p>Cost breakdown:</p> <table><tr><td>Civil</td><td>\$15,000</td></tr><tr><td>Equipment</td><td>\$85,000</td></tr><tr><td>Installation</td><td>\$20,000</td></tr></table>				Civil	\$15,000	Equipment	\$85,000	Installation	\$20,000
Civil	\$15,000									
Equipment	\$85,000									
Installation	\$20,000									
										

## Infrastructure – Drainage


Program:	Infrastructure Program		Sub-program:	Drainage
Project Name:	Drainage Pump Station Upgrade - No 2 Road North		Submission ID:	4827
Location:	No 2 Road North			
Cost:	\$4,400,000		OBI:	\$13,000
Funding Sources:	Drainage Utility:	\$4,238,417		
	Drainage DCC:	\$161,583		
Scope:	Demolish the existing pump station and rebuild it to a modern standard. Increase pumping capacity by 151% and lower the low water pumping elevation. Make local dike upgrades. Landscape the construction area.			
	The project is estimated to take 6 months. Construction will be scheduled for spring/summer 2014.			
	This is a single year project that is part of a larger strategy to increase the City's drainage capacity, increase pump station reliability and reduce flooding.			
	Major Cost Components:			
	Civil (65%) - \$2,860,000			
	Mechanical (19%) - \$840,000			
	Electrical (16%) - \$700,000			
				



## 2014 Details of Recommended Projects by Program

## Appendix 4


### Infrastructure – Drainage

Program:	Infrastructure Program		Sub-program:	Drainage
Project Name:	Laneway Drainage and Asphalt Upgrade - 11000 Blk Williams Rd		Submission ID:	4794
Location:	11020 Williams Road to Seacote Road			
Cost:	\$270,000		OBI:	\$0
Funding Sources:	Drainage Utility: \$150,000			
	Roads – Asphalt Capping: \$103,140			
	NIC: \$16,860			
Scope:	<p>Install drainage and upgrade 202m of pavement. Does not include the addition of street lighting, curbs or gutters.</p> <p>The project is estimated to take 2-3 months and be complete by October 2014.</p> <p>Funding is requested from the Drainage Utility. Paving will be completed through a combination of NIC funding and the City Paving Program.</p> <p>Costs will be recovered through City Bylaw 8752 as development occurs.</p>			
				

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Drainage

Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Laneway Drainage and Asphalt Upgrade - Dennis Crescent (East)	Submission ID:	4792
Location:	Dennis Crescent (East) between Maddocks Road and Williams Road		
Cost:	\$550,000	OBI:	\$ 0
Funding Sources:	Drainage Utility: \$300,000 Roads – Asphalt Capping: \$250,000		
Scope:	Install drainage and upgrade 417m of pavement. Does not include the addition of street lighting, curbs or gutters.		
The project is estimated to take 2-3 months and be complete by October 2014.			
Funding is requested from the Drainage Utility. Paving will be completed through the City Paving Program.			
Costs will be recovered through City Bylaw 8752 as development occurs.			
			



## 2014 Details of Recommended Projects by Program

## Appendix 4


### Infrastructure – Drainage


Program:	Infrastructure Program	Sub-program:	Drainage
Project Name:	Williams Rd Storm Sewer Upgrades	Submission ID:	4983
Location:	Gilbert Rd South from 6391 Williams Road between Gilbert Road and No.2 Road		
Cost:	\$1,200,000	OBI:	\$ 0
Funding Sources:	Drainage Utility: \$1,200,000		
Scope:	This project will upgrade 450m of storm sewer along Williams Road (north side) between Sheridan Rd and Parsons Rd and abandon existing pipe work.		

2014 Recommended Infrastructure Water Main Replacement Program


Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<i><b>Waterworks</b></i>			
Bulk Water Meter Installations - Boundary Road Area	400,000	-	45
Development Coordinated Works in Capital	500,000	-	46
Lockhart Road Watermain, Drainage and Neighbourhood Improvement	1,950,000	8,000	47
Minor Capital Waterworks Program	300,000	-	48
Residential Water Metering	1,920,000	-	49
Watermain Replacement - Colbeck Road Area	2,810,000	-	50
Watermain Replacement - Ledway Area	960,000	-	51
Watermain Replacement - Ryan Road Area	810,000	-	52
<b>Total Waterworks</b>	<b>\$9,650,000</b>	<b>\$8,000</b>	


## Infrastructure – Water

Program:	Infrastructure Program		Sub-program:	Watermain Replacement
Project Name:	Bulk Water Meter Installations – Boundary Road Area		Submission ID:	5188
Location:	City Wide			
Cost:	\$400,000		OBI:	\$ 0
Funding Sources:	Water Utility: \$400,000			
Scope:	<p>The proposed flow meters installed at Boundary Road will measure water supplied by Metro Vancouver’s Annacis main No. 4</p> <p>This project consists of two flow meter installations on Boundary Road:</p> <ul style="list-style-type: none"><li>- at Thompson Gate and</li></ul> <p>The Dike Road.</p>			
				

Program:	Infrastructure Program	Sub-program:	Watermain Replacement
Project Name:	Development Coordinated Works in Capital	Submission ID:	5154
Location:	City Wide		
Cost:	\$500,000	OBI:	\$ 0
Funding Sources:	Water Utility: \$500,000		
Scope:	<p>This project will enable the City to leverage City and private development over the next year to design and construct water infrastructure works that are currently not identified in the Capital program but will benefit the City.</p> <p>These are upgrades and replacement of infrastructure that the City would complete separately but economic and engineering efficiencies can be achieved by completing this work at the same time the development takes place.</p>		
			



Program:	Infrastructure Program		Sub-program:	Watermain Replacement
Project Name:	Lockhart Road Watermain, Drainage and Neighbourhood Improvement		Submission ID:	5156
Location:	Lockhart Road			
Cost:	\$1,950,000		OBI:	\$8,000
Funding Sources:	Water Utility: \$940,000 Drainage Utility: \$510,000 NIC: \$250,000 Roads DCC: \$235,000 Roads City Assist: \$15,000			
Scope:	<p>The scope generally consists of watermain replacement, drainage upgrades and widening of Lockhart Road. This includes:</p> <ul style="list-style-type: none"><li>- replacement of approx 525m of existing AC watermain</li><li>- surface drainage improvements including new catch basins, drainage pipe work, curb &amp; gutter, and adjustment of existing lawn basins and IC's</li><li>- widening Lockhart Road in accordance with the NIC charges collected for this roadway</li></ul>			
				

Program:	Infrastructure Program	Sub-program:	Watermain Replacement
Project Name:	Minor Capital Waterworks Program	Submission ID:	4818
Location:	See Scope		
Cost:	\$300,000	OBI:	\$0
Funding Sources:	Water Utility: \$300,000		
Scope:	These are upgrades to our water infrastructure that are typically less than \$100,000 per project. They include but are not limited to minor watermain replacements, improved operational efficiencies, changes to safety requirements, minor repairs, testing of new technologies and response to resident complaints that require small upgrades.		
			




## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Water

Program:	Infrastructure Program		Sub-program:	Watermain Replacement
Project Name:	Residential Water Metering		Submission ID:	4812
Location:	Citywide			
Cost:	\$1,920,000		OBI:	\$0
Funding Sources:	Water Utility:		\$600,000	
	Water Meter Stabilization:		\$1,320,000	
Scope:	This project consists of a five-year universal metering program for single-family dwellings, and a volunteer metering program for multi-family dwellings.			
				

## Infrastructure – Water


Project Name:	Watermain Replacement - Colbeck Road Area		Submission ID: 4793	
Location:	See scope.			
Cost:	\$2,810,000		OBI:	\$0
Funding Sources:	Water Utility:	\$2,413,739		
	Water DCC:	\$396,261		
Scope:	<p>This project includes installation of 3,020 lineal meters of 200mm diameter watermain, and 110 lineal meters of 300mm diameter watermain to replace the existing ageing infrastructure.</p> <p>The Waterworks Capital Program is based on watermain age, material, break history and the proposed road-paving program.</p> <p>Please refer to document #3154073 for specific locations, cost estimates and further details on the scope of work.</p>			
				




## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Water

Program:	Infrastructure Program		Sub-program:	Watermain Replacement
Project Name:	Watermain Replacement - Ledway Area		Submission ID:	5145
Location:	See scope			
Cost:	\$960,000		OBI:	\$ 0
Funding Sources:	Water Utility: \$862,989 Water DCC: \$97,011			
Scope:	<p>This project includes installation of 1040 lineal meters of 200mm diameter watermain to replace the existing ageing infrastructure.</p> <p>The Waterworks Capital Program is based on watermain age, material, break history and the proposed road-paving program.</p>			
				

Program:	Infrastructure Program	Sub-program:	Watermain Replacement
Project Name:	Watermain Replacement - Ryan Road Area	Submission ID:	5146
Location:	See scope		
Cost:	\$810,000	OBI:	\$0
Funding Sources:	Water Utilities: \$725,698 Water DCC: \$84,302		
Scope:	<p>This project includes installation of 880 lineal meters of 200mm diameter watermain to replace the existing ageing infrastructure.</p> <p>The Waterworks Capital Program is based on watermain age, material, break history and the proposed road-paving program.</p> <p>Please refer to document #3154073 for specific locations, cost estimates and further details on the scope of work.</p>		
			

**2014 Details of Recommended Projects by Program****Appendix 4**


Infrastructure – Sewer

**2014 Recommended Infrastructure Sanitary Sewer Program**

<b>Project Name</b>	<b>Total Investment</b>	<b>Total OBI</b>	<b>Ref</b>
<b>A. INFRASTRUCTURE PROGRAM</b>			
<i><b>Sanitary Sewer</b></i>			
Buswell St. Gravity Sewer Installation	2,190,000	-	54
Development Coordinated Works in Capital	100,000	-	55
Eckersley B Pump Station Replacement	1,350,000	3,000	56
Hamilton Sanitary Sewer Phase 2	1,520,000	17,000	57
Leslie Pump Station Forcemain Replacement	560,000	-	58
Public Works Minor Capital - Sanitary	300,000	-	59
Sanitary Sewer Assessment	410,000	-	60
<i><b>Total Sanitary Sewer</b></i>	<i><b>\$6,430,000</b></i>	<i><b>\$20,000</b></i>	



<b>Program:</b>	Infrastructure Program		<b>Sub-program:</b>	Sanitary Sewer
<b>Project Name:</b>	Buswell St. Gravity Sewer Installation		<b>Submission ID:</b>	5024
<b>Location:</b>	Buswell Street from Granville Avenue to Buswell PS			
<b>Cost:</b>	\$2,190,000		<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Sanitary Utility: \$2,190,000			
<b>Scope:</b>	This project includes construction of 480m of 300mm diameter gravity pipe on Buswell Street from Granville Avenue to the Buswell pump station.			






## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Sewer


Program:	Infrastructure Program		Sub-program:	Sanitary Sewer
Project Name:	Development Coordinated Works in Capital		Submission ID:	5314
Location:	Citywide			
Cost:	\$100,000		OBI:	\$0
Funding Sources:	Sanitary Utility: \$100,000			
Scope:	<p>This project will enable the City to leverage City and private development over the next year to design and construct sanitary infrastructure works that are currently not identified in the Capital program but will benefit the City.</p> <p>These are upgrades and replacement of infrastructure that the City would complete separately but economic and engineering efficiencies can be achieved by completing this work at the same time the development takes place.</p>			
				

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Sewer


<b>Program:</b>	Infrastructure Program		<b>Sub-program:</b>	Sanitary Sewer
<b>Project Name:</b>	Eckersley B Pump Station Replacement		<b>Submission ID:</b>	5183
<b>Location:</b>	8600-Cook Road			
<b>Cost:</b>	\$1,350,000		<b>OBI:</b>	\$ 3,000
<b>Funding Sources:</b>	Sanitary Utility:		\$695,802	
	Sanitary DCC:		\$654,198	
<b>Scope:</b>	Eckersley B Sanitary Pump Station includes construction of a new wet well, VFD pumps, electrical kiosk and 75 meters of gravity sewer along Cook Gate. This project will not require land acquisition.			



## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Sewer


Program:	Infrastructure Program	Sub-program:	Sanitary Sewer
Project Name:	Hamilton Sanitary Sewer Phase 2	Submission ID:	5015
Location:	Area between Westminster Hwy and Hwy 91A to the north of Gilley Rd.		
Cost:	\$1,520,000	OBI:	\$ 17,000
Funding Sources:	Sanitary Utility:	\$95,000	
	Sanitary DCC:	\$1,425,000	
Scope:	This project includes construction of a new pump station including wet well, VFD pumps, electrical kiosk, 25 meters of 300mm diameter gravity pipe and 150 meters of 200mm forcemain. This project does not require land acquisition, as it will be constructed on City owned land.		
			



## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Sewer

Program:	Infrastructure Program		Sub-program:	Sanitary Sewer
Project Name:	Leslie Pump Station Forcemain Replacement		Submission ID:	5182
Location:	Leslie Road from No.3 Road to CPR corridor			
Cost:	\$560,000		OBI:	\$ 0
Funding Sources:	Sanitary Utility:		\$189,127	
	Sanitary DCC:		\$370,873	
Scope:	This project includes:			
	-Construction of 270 meters of 350mm diameter forcemain;			
	-Decommissioning of the 42 year old AC forcemain which has a history of breaks;			
				





## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Sewer

Program:	Infrastructure Program	Sub-program:	Sanitary Sewer
Project Name:	Public Works Minor Capital - Sanitary	Submission ID:	4824
Location:	Various		
Cost:	\$300,000	OBI:	\$0
Funding Sources:	Sanitary Utility: \$300,000		
Scope:	These are minor upgrades to the City's sewerage infrastructure that include, but are not limited to: minor upgrades to pump stations, changes to improve operational efficiencies or meet safety requirements, minor repairs to manholes and valve boxes, testing of new technologies to improve efficiencies, minor forcemain repairs and response to resident complaints that require site specific repairs.		



Program:	Infrastructure Program	Sub-program:	Sanitary Sewer
Project Name:	Sanitary Sewer Assessment	Submission ID:	5184
Location:	Ferndale, Alberta, Heather, Aspin, Dolphin, Temple North, Riverside East, Fraser, Mitchell Island		
Cost:	\$410,000	OBI:	\$0
Funding Sources:	Sanitary Utility: \$410,000		
Scope:	An assessment will be done for 26.5km of sanitary sewer system in the following catchment areas: Ferndale, Alberta, Heather, Aspin, Dolphin, Temple North, Riverside East, Fraser, Mitchell Island.		
			

## 2014 Details of Recommended Projects by Program

## Appendix 4

Infrastructure – Minor Capital Traffic

### 2014 Recommended Infrastructure Minor Capital - Traffic Program

Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<i>Minor Public Works</i>			
PW Minor Capital - Traffic	225,000	6,100	62
<i>Total Minor Public Works</i>	<i>\$225,000</i>	<i>\$6,100</i>	



Program:	Infrastructure Program	Sub-program:	Minor Public Works
Project Name:	PW Minor Capital - Traffic	Submission ID:	4257
Location:	Various		
Cost:	\$225,000	OBI:	\$6,100
Funding Sources:	Gaming:	\$225,000	
Scope:	<p>The general scope of this program includes various improvements to traffic systems as required. The program includes the following major components:</p> <p>A. Traffic Improvements: including minor crosswalks, bus stop improvements, wheelchair ramps and signage/safety improvements.</p> <p>B. Traffic Signal/Communications Network: infrastructure renewal, physical plant upgrading, ongoing infrastructure development testing and communications network conduit/cable.</p> <p>This program is an annual recurring program funded by the revenues from non-DCC sources such as general revenue. Funding assistance from ICBC and TransLink's MRN sources for some of these projects may be available and applications would be submitted to the appropriate agency.</p>		
			




2014 Recommended Infrastructure Advanced Design

Project Name	Total Investment	Total OBI	Ref
<b>A. INFRASTRUCTURE PROGRAM</b>			
<i>Infrastructure Advanced Design</i>			
City Centre District Energy Utility	300,000	-	64
PW Infrastructure Advanced Design	1,442,000	-	65
<i>Total Infrastructure Advanced Design</i>	<i>\$1,742,000</i>	<i>\$0</i>	
<b>TOTAL INFRASTRUCTURE PROGRAM</b>	<b>\$32,098,460</b>	<b>\$147,618</b>	

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Infrastructure – Advanced Design

Program:	Infrastructure Program		Sub-program:	Infrastructure Advanced Design & Land
Project Name:	City Centre District Energy Utility		Submission ID:	5292
Location:	City Centre Area			
Cost:	\$300,000		OBI:	\$ 0
Funding Sources:	Water Utility: \$300,000			
Scope:	Advanced design of the district energy ready (DE-ready) developments in the City Centre neighbourhoods outside of the Phase 1 River Green DEU, including DEU corridors. Coordinating design with the incoming new developments. Legal fees for negotiation, development and registration of DE-ready covenants. Design of the strategy to provide interim district energy services outside of the Phase 1 River Green DEU area. Coordinating negotiation of DEU servicing agreements, and implementation of City Centre DEU.			
				

Program:	Infrastructure Program		Sub-program:	Infrastructure Advanced Design & Land
Project Name:	PW Infrastructure Advanced Design		Submission ID:	5039
Location:	Citywide			
Cost:	\$1,442,000		OBI:	\$ 0
Funding Sources:	Drainage Utility: \$680,000 Water Utility: \$430,000 Sanitary Utility: \$270,000 Roads DCC: \$58,280 Roads City Assist: \$3,720			
Scope:	The scope of work includes hiring consultants and contractors to plan and design the 2015 capital plan and deliver reports that define long-term infrastructure upgrades.  Sanitary Project Design and Planning \$220,000 Sanitary System Modelling \$50,000 Water Project Design and Planning \$380,000 Water System Modelling \$50,000 Drainage Project Design and Planning \$430,000 Drainage System Modelling \$50,000 Dike Master Plan Phase 2 \$200,000 Roads \$62,000 Total \$1,442,000			

## Building Program 2014-2018

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.

### 2014 Recommended Building Program

Project Name	Total Investment	Total OBI	Ref
<b>B. BUILDING PROGRAM</b>			
<i>Minor Building</i>	105,500	3,720	67
<i>Total Minor Building</i>	<i>\$105,500</i>	<i>\$3,720</i>	
<i>Major Building</i>			
City Centre Community Centre	6,700,000	1,608,184	68
Fire Hall No. 1	21,500,000	209,366	69
Japanese FBS Building Exhibit Development	171,000	-	70
Major Facilities Phase I Multi Project Contingency and Construction Escalation Contingency	15,000,000	-	71
Middle Arm Gathering Place Design	150,000	-	72
Minoru Aquatic Centre/Older Adults Centre	76,900,000	1,743,665	73
Minoru Chapel Restoration and Rehabilitation	625,000	-	74
Richmond Ice Centre - Chiller Replacements	550,000	-	75
Richmond Ice Centre - HVAC/Refrigeration Equipment	440,000	-	76
<i>Total Major Building</i>	<i>\$122,036,000</i>	<i>\$3,561,215</i>	
<b>TOTAL BUILDING PROGRAM</b>	<b>\$122,141,500</b>	<b>\$3,564,935</b>	



## Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Branscombe House Phase 2	Submission ID:	5222


Location:	4900 Steveston Hwy																												
Cost:	\$105,500	OBI:	\$3,720																										
Funding Sources:	Arts, Culture, & Heritage Capital Rsrv: \$105,500																												
Scope:	<p>In July 2012, Council authorized the execution of an agreement with a local business consortium for the stabilization and restoration of Branscombe House. The exterior and lower floor restoration has been completed. At the October 15, 2013 Council meeting, in response to a report titled, "Branscombe House – Future Uses", Council passed a resolution that staff: consider the feasibility of an artist in residence upon completion of the Branscombe House; and obtain Expressions of Interest for other possible uses. Resolution R13/17-4 Phase 2 will convert the second floor of the rehabilitated house to a 2-bedroom dwelling unit and complete the catering kitchen (roughed in) on the publicly accessible ground floor.</p> <table><tr><td>General Contractor</td><td>\$30,000</td></tr><tr><td>Architect</td><td>3,000</td></tr><tr><td>Carpentry</td><td>8,000</td></tr><tr><td>Doors</td><td>4,000</td></tr><tr><td>Finishes</td><td>5,565</td></tr><tr><td>Appliances</td><td>2,400</td></tr><tr><td>Kitchen finishes</td><td>21,700</td></tr><tr><td>Plumbing</td><td>6,000</td></tr><tr><td>Electrical</td><td>9,000</td></tr><tr><td>Telus hook-up</td><td>500</td></tr><tr><td>Security</td><td>1,500</td></tr><tr><td>15% Contingency</td><td>13,775</td></tr><tr><td>TOTAL</td><td>\$ 105,440</td></tr></table>			General Contractor	\$30,000	Architect	3,000	Carpentry	8,000	Doors	4,000	Finishes	5,565	Appliances	2,400	Kitchen finishes	21,700	Plumbing	6,000	Electrical	9,000	Telus hook-up	500	Security	1,500	15% Contingency	13,775	TOTAL	\$ 105,440
General Contractor	\$30,000																												
Architect	3,000																												
Carpentry	8,000																												
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Finishes	5,565																												
Appliances	2,400																												
Kitchen finishes	21,700																												
Plumbing	6,000																												
Electrical	9,000																												
Telus hook-up	500																												
Security	1,500																												
15% Contingency	13,775																												
TOTAL	\$ 105,440																												




Program:	Building Program	Sub-program:	Major Building
Project Name:	City Centre Community Centre	Submission ID:	5324

Location:	Minoru at Elmbridge		
Cost:	\$ 6,700,000	OBI:	\$1,608,184
Funding Sources:	Other Funding: \$6,300,000 Capital Reserve - Revolving: \$400,000		
Scope:	Scope of work is to complete tenant improvements to the developer built City Centre Community Centre shell building.		

The developer's work is anticipated to be complete by August 2014 at which time the shell building will be turned-over to the City to complete the interior tenant improvements. The interior design concept was previously adopted by Council and detailed designs have commenced.




Program:	Building Program	Sub-program:	Major Building
Project Name:	Fire Hall No.1	Submission ID:	5327
Location:	Minoru at Gilbert		
Cost:	\$21,500,000	OBI:	\$209,366
Funding Sources:	Other Funding: \$21,500,000		
Scope:	<p>Replace the Fire Suppression and Administration components of the Fire Hall No. 1. Relocate Fire Education and Prevention offices for Richmond Fire Rescue to one site at Gilbert and Granville. Work includes design and construction of a new 27,500 sq. ft. facility to be located on the current site of Fire Hall No. 1.</p> <p>Training and EVT will be relocated to the new Cambie Fire Hall No. 3.</p> <p>The building programming study and baseline parameters by Process 4, July 2007, indicates a separate facility in this location for a total cost of \$21.5 million.</p> <p>March 24/09 Project scope was increased in order to include the Traffic Control Centre.</p> <p>The Sustainable High Performance Building Policy ensures economic, social and environmental benefits in replacing Fire Hall #1. Building replacement strategy includes plans to replace 3 Fire Halls from 2008 to 2012. This is the final building to be replaced. This replacement project supports the Vision statement and is a priority in the Community Safety and Ageing Infrastructure Strategy.</p> <p>Facility Major Capital was approved by Council at GP November 4, 2013 meeting and November 12, 2013 Council (pending at time of writing this submission).</p> <p>Phasing per June 24, 2013 Council adopted report, Page CNCL - 62, showing construction commencing 2016. FH # 1 plan is to delay start of construction until FH #3 is built and FH#1 training/mechanical systems can be temporarily located at FH#3 while FH#1 is being constructed.</p>		
			



## Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Japanese FBS Building Exhibit Development	Submission ID:	5228
Location:	Steveston Museum Site		
Cost:	\$171,000	OBI:	\$0
Funding Sources:	Leisure Facilities Reserve: \$171,000		
Scope:	<p>The conceptual design for the exhibits has been completed and cost estimates established. Two cases will be retrofitted for the Steveston Museum exhibit upgrade and 5 new flexible modular cases with movable shelves with attached panels will be purchased for the JFBS building. 71 linear feet of graphic panel substrate approximately 4'6" wide will be purchased. The movable reception desk/work station and 2 interactive A/V units will be custom built to meet the needs of the small space. A/V content software will need to be developed and purchased externally.</p> <p>City staff are developing exhibit content for the Steveston Museum exhibit upgrade and coordinating the content being developed for the JFBS building by the Japanese Nikkei National Museum and Archives.</p>		




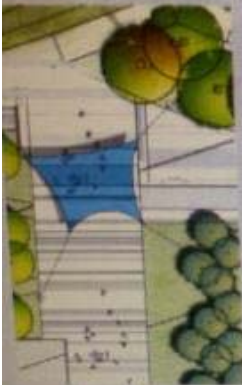


## Building


<b>Program:</b>	<b>Building Program</b>	<b>Sub-program:</b>	<b>Major Building</b>
<b>Project Name:</b>	<b>Major Facilities Phase I Multi Project Contingency and Construction Escalation Contingency</b>	<b>Submission ID:</b>	<b>5328</b>
<b>Location:</b>	Various		
<b>Cost:</b>	\$15,000,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Other Funding: \$15,000,000		
<b>Scope:</b>	The Major Facilities Multi-Project and Construction Escalation Contingency is an allowance to cover potential cost escalation during the 3-year design and construction process.		

<b>Program:</b>	Building Program	<b>Sub-program:</b>	Major Building
<b>Project Name:</b>	Middle Arm Gathering Place Design	<b>Submission ID:</b>	5227
<b>Location:</b>	Oval Precinct		
<b>Cost:</b>	\$150,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Capital Reserve - Revolving: \$150,000		
<b>Scope:</b>	<p>The Middle Arm Plazas were envisioned to be unique destinations and Olympic gathering places. To create welcoming, vibrant and animated environments, successful integration of design and programming elements is necessary.</p> <p>Preliminary concepts were developed in 2012. This phase will refine the concepts and start the detailed planning and design, refine the costing, explore viable options for shelters and infrastructure development phasing options</p>		



SHELTERS




Entry Shelter





Precedents






## Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Minoru Aquatic Centre/Older Adults Centre	Submission ID:	5325
Location:	Minoru Park, Minoru 2 Soccer Pitch		
Cost:	\$ 76,900,000	OBI:	\$1,743,665
Funding Sources:	Debt Funding: \$50,000,000 Other Funding:\$26,900,000		
Scope:	<p>On November 12, 2013 Council approved site selection for the new Minoru Aquatic centre/Older Adults Centre (MAC/OAC). Scope of work will include design and construction of a ±68,000 ft² aquatic facility and a ±33,000 ft² Older Adults Centre.</p> <p>As the site of this new facility is on Minoru 2 soccer pitch, delivery of the new MAC/OAC will include relocation of the soccer pitch, LaTrace Baseball Diamond, and the throwing area which are currently located in the green space. MAC/OAC siting also impacts the existing ±50-year old Minoru Pavillion which will be replaced as part of this project.</p>		
<div></div>			

## Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Minoru Chapel Restoration and Rehabilitation	Submission ID:	5266
Location:	6540 Gilbert Road		
Cost:	\$625,000	OBI:	\$0
Funding Sources:	Capital Reserve - Revolving: \$625,000		
Scope:	<p>Renewal and replacement of the following components. Each component renewal will correct multiple deficiencies resulting from deferred maintenance.</p> <p>Superstructure</p> <ul style="list-style-type: none"><li>-Upgrade accessible ramp</li><li>-Repair/replace perimeter drainage system that is cracked and obstructed</li></ul> <p>Structure</p> <ul style="list-style-type: none"><li>- Structural upgrade of Roof, Steeple and Wall/Foundation Assembly to meet seismic requirements</li><li>- Renewal of railings and handrails</li></ul> <p>Building Envelope</p> <ul style="list-style-type: none"><li>- Repair/replace existing cedar roofing</li><li>- Replace and/or repaint damaged trim</li><li>- Replace failing gutters and downspouts</li><li>- Repair/replace damaged siding and skirting</li></ul> <p>Interior</p> <ul style="list-style-type: none"><li>- Review functional planning to meet program of uses.</li><li>- Repair/replace failing floor boards to meet occupant load requirements. Current floor is unsafe as the old tongue and groove connections have dried out and split, causing gaps in the floor.</li><li>- Replace wainscoting below the windows that is in poor condition</li><li>- Update existing fixtures in the universal toilet room</li></ul> <p>Electrical</p> <ul style="list-style-type: none"><li>- Replace existing fire alarm and security alarm devices for assembly spaces. Provide visual strobe lights, emergency lighting and exit signs.</li></ul>		
			




## 2014 Details of Recommended Projects by Program

## Appendix 4

### Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Richmond Ice Centre - Chiller Replacements	Submission ID:	5264
Location:	14140 Triangle Road		
Cost:	\$550,000	OBI:	\$0
Funding Sources:	Capital Reserve - Revolving: \$550,000		
Scope:	<p>Replacement of two chillers.</p> <p>For each of the above listed action items, achieving further energy efficiency gains will be examined through higher efficiency upgrades, including researching external funding sources, in conjunction with the City's Energy Management Program.</p>		
			

## Building

Program:	Building Program	Sub-program:	Major Building
Project Name:	Richmond Ice Centre - HVAC/Refrigeration Equipment	Submission ID:	5293
Location:	Richmond Ice Centre		
Cost:	\$440,000	OBI:	\$0
Funding Sources:	Capital Reserve - Revolving: \$440,000		
Scope:	<p>Work to include Replace Humidifier Units; Upgrade of Refrigeration Compressors; Replace Roof-top Air Conditioning Units.</p> <p>For each of the above listed action items, achieving further energy efficiency gains will be examined through higher efficiency upgrades, including researching external funding sources, in conjunction with the City's Energy Management Program.</p>		
			

## Parks Program 2014-2018

Richmond is renowned for its high quality parks and recreation facilities. The City's park system has over 90 parks that total approximately 1,400 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 a 200-acre recreational trail system.


### 2014 Recommended Parks Program

Project Name	Total Investment	Total OBI	Ref
<b>C. PARKS PROGRAM</b>			
<b>Minor Parks</b>			
Parks Ageing Infrastructure Retrofit Program	75,000	-	78
Parks General Development	250,000	3,000	79
Playground Improvement Program	300,000	4,300	80
<b>Total Minor Parks</b>	<b>\$625,000</b>	<b>\$7,300</b>	
<b>Major Parks/Streetscapes</b>			
Cambie Mueller Park	1,500,000	9,660	81
City Tree Planting Program	150,000	15,080	82
Minoru Artificial Turf Retrofit - Minoru 2 field	600,000	-	83
Minoru Park - Track Resurfacing	450,000	-	84
ORA Development - Park OBI	1	10,240	85
Parks Advance Planning & Design	350,000	-	86
Railway Greenway Phase 2	330,000	32,358	87
Railway Greenway Washrooms at Branscombe House - OBI	1	19,870	88
Terra Nova Play Environment Washroom & Landscaping	650,000	15,000	89
The Gardens Agricultural Park	850,000	-	90
Trails	250,000	3,074	91
Tree Planting/Urban Forest Advance Design Program	150,000	-	92
<b>Total Major Parks/Streetscapes</b>	<b>\$5,280,002</b>	<b>\$105,282</b>	
<b>Public Art</b>			
Public Art Program	690,324	10,000	93
<b>Total Public Art</b>	<b>\$690,324</b>	<b>\$10,000</b>	
<b>TOTAL PARKS PROGRAM</b>	<b>\$6,595,326</b>	<b>\$122,582</b>	

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Parks

Program:	Parks Program		Sub-program:	Minor Parks
Project Name:	Parks Ageing Infrastructure Retrofit Program		Submission ID:	4698
Location:	Various			
Cost:	\$75,000	OBI:	\$ 0	
Funding Sources:	Gaming: \$75,000			
Scope:	<p>This is a multi-year, phased program to replace failed hard surfaces, and parks and open space infrastructure. The replacement program includes: outdoor tennis, basketball, lacrosse, and hockey courts; baseball backstops; sports lighting fixtures; and other amenities that cannot be funded through Parks DCCs because of the DCC Bylaw Restrictions for capital construction eligibility.</p> <p>There is no Operational Budget Impact associated with this submission since it involves the replacement of existing assets for which there are already OBI's in place.</p>			
				



## 2014 Details of Recommended Projects by Program


## Appendix 4

### Parks

Program:	Parks Program	Sub-program:	Minor Parks
Project Name:	Parks General Development	Submission ID:	3839
Location:	Various		
Cost:	\$250,000	OBI:	\$3,000
Funding Sources:	Parks Development DCC: \$235,125 Parks Development City Assist: \$14,875		
Scope:	This ongoing program addresses special opportunities, emergency requests, and safety driven concerns from the public towards the installation of various park amenities that are not part of any larger park program. This includes: construction, fabrication, and installation of park components (e.g., community gardens, landscaping, pathways, benches, picnic tables, fencing, sportsfields upgrades, drainage & irrigation, gathering areas, signage and way-finding).		
			


## Parks

<b>Program:</b>	Parks Program		<b>Sub-program:</b>	Minor Parks
<b>Project Name:</b>	Playground Improvement Program		<b>Submission ID:</b>	349
<b>Location:</b>	Various locations			
<b>Cost:</b>	\$300,000		<b>OBI:</b>	\$4,300
<b>Funding Sources:</b>	Gaming: \$300,000			
<b>Scope:</b>	<p>Work will focus on fixing or replacing individual components of play equipment; removing or replacing outdated equipment; and/or upgrading the surfaces under play equipment.</p> <p>The preliminary list of projects for 2014 includes:</p> <p>Hamilton Community Park Playground: Replacement and expansion of the existing playground. Staff is working with the Hamilton Community Association which has raised approximately \$27,000 in capital funding to augment the budget. Once all Association funds have been determined this project's funding total will be amended.</p> <p>King George Community Park Playground (near McNeely School): Replacement of the existing playground.</p> <p>Steveston Community Park Playground: Accessibility improvements to improve wheelchair access.</p>			






## Parks


Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Cambie Mueller Park	Submission ID:	5086
Location:	Cambie Road & Hazelbridge		
Cost:	\$1,500,000	OBI:	\$9,660
Funding Sources:	Parks Development DCC: \$1,410,750 Parks Development City Assist: \$89,250		
Scope:	<p>The creation of a new neighbourhood park in the City Centre's Capstan Village area is the result of residential development to the north of the park by Polygon Homes. The Cambie Mueller Park plan was approved by Council in October 2013. The total cost of the park construction is estimated at \$4.2 million. As a condition of rezoning, the developer is responsible for constructing a portion of the first phase of the project, valued at \$1.2 million. The City will fund the remainder at \$1.5 million. Phase 1 is proposed to include: a plaza; landforming; lighting; tree planting and other landscaping; and infrastructure and related features to ensure that the park will be immediately attractive to and usable by local residents, workers, and visitors. Park development will begin in 2014 with completion anticipated in late 2015/early 2016.</p> <p>The Operating Budget Impact submission for 2014 reflects a minimum of maintenance effort while the park is under construction (e.g., litter pick-up, vandalism response, safety inspections).</p>		
			

## Parks


Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	City Tree Planting Program	Submission ID:	5233
Location:	Various Locations		
Cost:	\$150,000	OBI:	\$15,080
Funding Sources:	Tree Compensation: \$150,000		
Scope:	<p>This program will allow for the planting of trees in various sites within the City and providing a tree inventory for the City Nursery. Approximately 700 to 800 trees are purchased and planted annually on streets and within public open spaces throughout the City by the Parks Dept and/or by developers, according to their development permits. Funding for ongoing maintenance for the life of the tree is required for all new trees (not including replacement trees).</p> <p>The OBI cost per tree for annual maintenance is approximately \$20 per tree, which includes watering, pruning, and assessment. The cost per tree is derived from the total cost of maintenance of the existing urban forest. The annual cost is in excess of \$1.3 million for maintenance of more than 60,000 trees, at a per tree cost of \$21.60. The OBI is for the labour and maintenance of the 700 to 800 trees, that are planted on an annual basis.</p> <p>The capital program includes: planting of trees at various parks, open spaces, and streets within the City; and purchasing of tree "whips" (young unbranched trees) and growing them in the City's nursery. The result is significant cost savings compared to purchasing more mature trees from commercial suppliers.</p>		
			



## Parks

Program:	Parks Program		Sub-program:	Major Parks/Streetscapes
Project Name:	Minoru Artificial Turf Retrofit - Minoru 2 field		Submission ID:	5044
Location:	Minoru Park - Granville Ave			
Cost:	\$600,000		OBI:	\$0
Funding Sources:	Special Sports Reserve: \$600,000			
Scope:	<p>Replacement of the existing artificial turf carpet and infill material at Minoru Field 2. The field was originally constructed in 2002, and was the first artificial turf multi-use sports field in Richmond. The life span of these fields are generally between 8 – 10 years, depending on the level of play and maintenance of the facility.</p> <p>The total estimated cost of construction for 2014 is \$600,000 including:</p> <ol style="list-style-type: none"><li>1) Removal and disposal of the artificial turf carpet, rubber infill and synthetic sand. (50K)</li><li>2) Material Testing: sand base, drainage and aggregate (20K)</li><li>3) Prepare, level, and laser grade the aggregate surfacing (80K)</li><li>4) Replacement and installation of a new synthetic turf layer and infill (400K)</li><li>5) Upgrade fencing sections that require replacement of chainlink mesh (50K)</li></ol> <p>Proposed funding source:</p> <p>\$500,000 - from Sports Reserve (User Fees) for removal, disposal, and replacement of artificial turf. (These funds were collected from sports user groups that, since 2002, have paid to use the field in anticipation of the turf replacement).</p> <p>\$100,000 - from Parks DCCs for the preparation of the sub-base and installation of drainage and fencing.</p>			
				

## Parks

Program:	Parks Program		Sub-program:	Major Parks/Streetscapes
Project Name:	Minoru Park - Track Resurfacing		Submission ID:	4205
Location:	Minoru Park			
Cost:	\$450,000		OBI:	\$0
Funding Sources:	Capital Reserve - Revolving: \$450,000			
Scope:	<p>Scope of work includes:</p> <p>1) Removal and disposal of existing rubber track layers</p> <p>2) Apply and install a new track surface</p> <p>The estimate of \$450,000 was provided by a local track re-surfacer and is based on installation costs in 2010 in other lower mainland cities.</p> <p>Minoru Track is home to annual elementary school, high school, and regional and provincial track and field competitions. Minoru Track enjoys heavy, daily community use year-round.</p>			
				

## Parks

Program:	Parks Program		Sub-program:	Major Parks/Streetscapes
Project Name:	ORA Development - Park OBI		Submission ID:	5029
Location:	Middle Arm Area			
Cost:	\$1	OBI:	\$10,240	
Funding Sources:	Other Funding: \$1			
Scope:	<p>Council approved the Servicing Agreement with Onni Development in 2013 for the construction of a new park within the Hollybridge Way ROW, adjacent to the ORA development. This unique and innovative City Centre park features sustainable specialized plants and a rain garden that utilizes water from nearby rooftop run-off.</p> <p>This submission is for the Operating Budget Impact of the new park once it is completed by the developer in 2014. The park was developed based on unit pricing costs for maintenance of park assets and constructed according to the approved park plan.</p> <p>After the park is constructed and transferred to the City's Park Operations, ongoing maintenance will be required for various items, such as the rain garden; hard surfaces; irrigation system; grass cutting and weed control; and litter and waste management.</p>			
				



## Parks


Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Parks Advance Planning & Design	Submission ID:	833
Location:	Various		
Cost:	\$350,000	OBI:	\$0
Funding Sources:	Parks Development DCC: \$329,175 Parks Development City Assist: \$20,825		
Scope:	Advanced planning and design informs city planning processes, Community Services strategies and plans and future capital projects. The planning and design process includes: <ul style="list-style-type: none"><li>• Research, eg: alternative hard surfaces</li><li>• Feasibility Studies, eg: Steveston Harbour Long-term vision</li><li>• Public Consultation (e.g., public open houses, on-line communications, public meetings with stakeholder groups)</li><li>• Development of strategic plans, preliminary design concepts and park resource management plans, eg: Parks and Open Space Strategy</li></ul>		
2014 Projects include:			
<ul style="list-style-type: none"><li>- Conceptual Park &amp; Open Space Planning for various sites: The Gardens; Cambie Mueller Neighbourhood Park</li><li>- Topographical Surveys (engineering site survey pick-up)</li><li>- Waterfront &amp; Trails Strategy Implementation project</li><li>- Park Characterization projects, eg: 2015 Playground Improvements</li></ul>			
<div><div>4</div><div><h2>WHAT WE LEARNED</h2><p>Word play revealed that play occurs in common themes...</p><p>...around which we created a design framework...</p><p>Recognize that <b>edges</b>, heights and hollow spaces are potent places of <b>prospect and refuge</b>.</p><p>Provide local natural materials for endless manipulation and assembled parts for <b>creative</b> decomposition.</p><p>Equip for open-ended <b>physical</b> play that <b>challenges</b> children to go beyond what they previously thought possible.</p><p>Invite a fun-loving response to environment as vital <b>sensory</b>.</p><p>Engage risk-taking, <b>skill</b> seeking, fun, and adventure.</p><p>Accommodate both <b>solitary</b> and <b>socially</b> engaged activities, as well as <b>different</b> play preferences across gender, age, ability and inclination.</p><p>Appreciate the potential for profound <b>discovery</b> in play and foster an enduring sense of discovery into adulthood.</p><p>...which we used to audit the site for play value in order to locate the play area within the park to take advantage of existing natural and cultural features...</p><p>TERRA NOVA PLAY ENVIRONMENT</p></div></div>			



## Parks

Program:	Parks Program		Sub-program:	Major Parks/Streetscapes
Project Name:	Railway Greenway Phase 2		Submission ID:	5193
Location:	Railway Ave. From Garry St. To Westminster Hwy.			
Cost:	\$ 330,000		OBI:	\$32,358
Funding Sources:	Tree Compensation: \$330,000			
Scope:	<p>Scope of work will include the planting of 600 trees along the newly developed Railway Corridor Greenway trail. The corridor currently has a fragmented tree canopy and one dominant tree species. Phase 2 is intended to satisfy the project principles by filling in the gaps in the canopy and diversifying the tree species (Note: diversity in the urban forest provides insurance against periodic species die-back caused by disease or insect infestation). Tree planting and vegetation control will be implemented to enhance tree health, provide a buffer between the trails and Railway Ave, and improve the ecological health of the corridor.</p> <p>The scope of the Operation Budget Impact submission is for maintenance of the newly constructed (in 2013) section of the Railway Greenway, and includes: maintenance of paved and gravel surfaces; pedestrian bridges; site furnishings; formal mowing and vegetation management; and tree planting (these are not included in the tree Planting Program submission).</p>			
				

## Parks

Program:	Parks Program		Sub-program:	Major Parks/Streetscapes				
Project Name:	Branscombe House - OBI		Submission ID:	5208				
Location:	Railway Avenue - Steveston							
Cost:	\$ 1		OBI:	\$19,870				
Funding Sources:	Capital Reserve - Revolving: \$1							
Scope:	<p>The recently restored Branscombe House includes a public washroom that is accessible from the outside of the building so that it will function as a trail washroom.</p> <p>This submission is for the Operating Budget Impact for operation, maintenance of the washroom and also for maintenance of the newly developed landscape surrounding the house.</p> <p>The OBI breakdown is as follows:</p> <table><tr><td>Washroom Maintenance:</td><td>\$15,000</td></tr><tr><td>Landscaping Maintenance:</td><td>\$ 4,870</td></tr></table> <p>Note: If the proposal to install a caretaker in the house proceeds in the future, then maintenance costs for the washroom would be reduced.</p>				Washroom Maintenance:	\$15,000	Landscaping Maintenance:	\$ 4,870
Washroom Maintenance:	\$15,000							
Landscaping Maintenance:	\$ 4,870							
								



<b>Program:</b>	<b>Parks Program</b>	<b>Sub-program:</b>	<b>Major Parks/Streetscapes</b>
<b>Project Name:</b>	<b>Terra Nova Play Environment Washroom &amp; Landscaping</b>	<b>Submission ID:</b>	<b>5206</b>
<b>Location:</b>	Terra Nova Rural Park		
<b>Cost:</b>	\$650,000	<b>OBI:</b>	\$15,000
<b>Funding Sources:</b>	Parks DCC: \$611,325 Parks Development City Assist: \$38,675		
<b>Scope:</b>	In 2012, Council approved the concept for the Terra Nova Rural Park Play Environment. Construction of the playground began in 2013.  Scope of Work in 2014 includes:  1) Design and construction of a universally accessible, two (2) stall washroom adjacent to the Paddock and Homestead play areas. Estimate Cost \$400,000  2) Redevelopment of the landscape around the Edwardian Cottage to provide walking trails, outdoor gathering areas, landscaped areas, a driveway and parking. Estimated cost \$250,000  OBI estimate of \$15,000 is for the maintenance of the washroom (labour, materials, equipment). The Edwardian Cottage landscape OBI has already been funded through the Terra Nova Parks Operational Resource Management Plan.		

**PLAY CONCEPT PLAN**

**PLAY EXPERIENCE THEMES**

- HISTORY AND HERITAGE
- NATURAL ELEMENTS
- IMAGINATION
- THRILL AND MOVEMENT
- HEIGHT AND PROSPECT
- SUPPORTING FEATURES

**Homestead**

- Bouncing Grove
- Rockery
- Big Swings
- Trike Route
- Homestead Tree House
- Fishing Net Gymcrazium
- Washroom
- Plank Pathway
- Hiding Tree
- Spinnery
- Sitting Deck
- Navigator's Rope Ferry
- Large Group Picnic
- Heritage Orchard
- Orchard Play
- Lookout Tower
- Sand Factory
- Little Slide
- Little Swings
- Miniature Farm
- Post Forest
- Little Hill

**Paddock**

- Old Shed Site
- Poplar Room
- Imaginarium
- Meadow-Maze
- Big Hill Slides
- Rolling Hill
- Crabapple Hedgerow
- Paddock Fence Maze
- Racing Hedgerow
- Ziplines
- Old Field Habitat
- Net Bridge
- Picnic Area

**Other Features:**

- Shore
- Dyke
- Parking
- Ditch
- Slough
- West Dyke Trail

## Parks

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	The Gardens Agricultural Park	Submission ID:	4706
Location:	No. 5 Road & Steveston Hwy		
Cost:	\$850,000	OBI:	\$0 (Year 2015 OBI)
Funding Sources:	Parks DCC: \$799,425 Parks Development City Assist: \$50,575		
Scope:	In 2011, the Gardens Park Plan was endorsed. The total estimate cost for development of the plan is approx. \$5 to \$7 million.		

Phase 3 of the park plan will be developed including:

1. Restoration of the existing botanical garden areas, including: reconstruction of pedestrian walkways and garden structures; supplementary planting; new drainage, irrigation and electrical supply; and new site furnishings.
2. Development of the community garden, including: installation of irrigation; vehicular and pedestrian access; new drainage, irrigation and electrical supply; soil; composting and garbage facilities; site furnishing; and surrounding soft landscape improvements.

There is no additional Operational Budget Impact submission required for 2014 since all park construction occurring in 2013 is developer constructed works that will be maintained under a 1 year warranty period before being turned over to the City.



**ILLUSTRATED SITE PLAN**

NOVEMBER 12TH, 2010

P+A


THE GARDEN




## 2014 Details of Recommended Projects by Program

## Appendix 4


### Parks

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Trails	Submission ID:	332
Location:	Various		
Cost:	\$250,000	OBI:	\$3,074
Funding Sources:	Parks DCC: \$235,125 Parks Development City Assist: \$14,875		
Scope:	The design and construction of various trails projects including both soft (gravel, limestone, etc.) and hard landscapes (concrete, asphalt, etc.), and landscape features.		
	For 2014, projects will include trail improvement and wayfinding signage connecting the Imperial Landing to Britannia Heritage Shipyards trail, and an interpretation plan and signage for the South & West Dyke trail systems.		
			

## Parks

Program:	Parks Program	Sub-program:	Major Parks/Streetscapes
Project Name:	Tree Planting/Urban Forest Advance Design Program	Submission ID:	5202
Location:	Various Park Sites		
Cost:	\$150,000	OBI:	\$0
Funding Sources:	Tree Compensation: \$150,000		
Scope:	<p>In 2001, City Council adopted the Urban Forestry Strategy. As per the Parks and Open Space Strategy approved in September 2013, the Urban Forest Strategy will be updated and expanded to address the changes that occurred since 2001 (e.g., the introduction of the Tree Protection Bylaw and rapid expansion of the urban forest due to urban development).</p> <p>This project will be funded from the Tree Development Fund. It will involve planning and design for the planting of trees at various parks, open space, and streets within the City.</p>		
			

## Parks

Program:	Parks Program	Sub-program:	Public Art
Project Name:	Public Art Program	Submission ID:	3899
Location:	Various City of Richmond Installations		
Cost:	\$690,324	OBI:	\$10,000
Funding Sources:	Public Art Program Reserve: \$690,324		
Scope:	<p>The scope of work consists of a variety of public art projects. The following are proposed projects (with estimated costs) which may change during the project's duration based on the Public Art Program's consideration of public art opportunities and priorities and private development funding.</p> <p>For Community Public Art Projects, with funds from previously received contributions by private developers deposited to the Public Art Reserve, \$100,000 Total, as follows:</p> <ul style="list-style-type: none"><li>- City streets, parks and buildings: \$10,000 (additional funding for public works and facilities public art included with Capital Submissions for these works)</li><li>- Community public art artist-in-residence project: \$50,000</li><li>- Community education and promotion of the public art program: \$10,000</li><li>- Collaboration on educational opportunities with the Richmond Art Gallery, Media Lab, Cultural Centre and Richmond Museum: \$20,000</li><li>- Pursuing community public art partnerships as they arrive: \$10,000</li></ul> <p>For the Private Development Program, from Developer Contributions received and deposited to the Public Art Reserve for implementation of projects integrated with new development, on either private lands or City controlled land, with the expectation that the majority will be on City controlled sites (parks, streets, greenways) with a majority located in the City Centre (Canada Line Terminus Project, Lansdowne Greenway Art Walk, Alexandra Park Art Program), cost to be determined based on contributions received in 2012-2013, as follows (budgets reflect actual developer contribution less 15% of funds deposited to Public Art Provision for Program Administration):</p> <p>Pinnacle Phase 1, 3391 Sexsmith Road: \$90,733 Polygon Kiwanis, 6251 Minour Blvd.: \$241,248 Townline, 8288 Granville Avenue: \$67,937 Mandarin, for Canada Line Terminus: \$45,000 Am-Pri, 7028 Ash Street: \$13,610 Amacon, 7680 Alderbridge Way: \$131,796</p> <p>Total Private Development Contributions: \$590,324</p>		
			



## Land

## Land Program 2014-2018


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

### 2014 Recommended Land Program

Project Name	Total Investment	Total OBI	Ref
<b>D. LAND PROGRAM</b>			
<i>Land Acquisition</i>			
Strategic Land Acquisition	5,000,000	-	95
<b>TOTAL LAND PROGRAM</b>	<b>\$5,000,000</b>	<b>\$0</b>	



## Land


<b>Program:</b>	Land Program	<b>Sub-program:</b>	Land Acquisition
<b>Project Name:</b>	Strategic Land Acquisition	<b>Submission ID:</b>	4920
<b>Location:</b>	Various		
<b>Cost:</b>	\$5,000,000	<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Industrial Use: \$5,000,000		
<b>Scope:</b>	Funds for land acquisition to meet City needs, other than DCC and other special reserve funded projects, are set aside in the Capital Reserve under the Industrial Use Fund. This capital budget submission is to use land acquisition monies from this fund well as additional general funds approved by Council, for a variety of Council approved acquisitions.		
			

## Affordable Housing Program 2014-2018

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.

### 2014 Recommended Affordable Housing Program

Project Name	Total Investment	Total OBI	Ref
<b>E. AFFORDABLE HOUSING PROGRAM</b>			
<i>Affordable Housing</i>			
Affordable Housing Projects - City Wide	857,000	-	97
<b>TOTAL AFFORDABLE HOUSING PROGRAM</b>	<b>\$857,000</b>	<b>\$0</b>	

<b>Program:</b>	Affordable Housing Project		<b>Sub-program:</b>	Affordable Housing Project
<b>Project Name:</b>	Affordable Housing Projects- City Wide		<b>Submission ID:</b>	5313
<b>Location:</b>	Various			
<b>Cost:</b>	\$857,000		<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Affordable Housing Reserve (City Wide): \$857,000			
<b>Scope:</b>	<p>This is to fund the City's commitment for interim funding for an Affordable Housing initiative in the City of Richmond as approved by Council in May 2013. The provision of these City contributions will assist the project to achieve financial viability and deliver tenant rents below the affordable housing strategy rates.</p>			
				

## Equipment Program 2014-2018

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

### 2014 Recommended Equipment Program


Project Name	Total Investment	Total OBI	Ref
<b>F. EQUIPMENT PROGRAM</b>			
<i><b>Vehicle Equipment</b></i>			
Vehicles for RCMP Detachment Leadership Team	105,000	33,920	100
<b><i>Total Annual Fleet Replacement</i></b>	<b><i>\$105,000</i></b>	<b><i>\$33,920</i></b>	
<i><b>Technology</b></i>			
2014 Server Replacements	232,000	-	101
Amanda Mobile 6.0 Upgrade Implementation	97,555	12,400	102
Energy Management - 2014 Projects	645,000	-	103
Existing Operational Desktop Computer Hardware	330,000	-	
Funding			104
Fibre Optic Cabling to City Facilities - Phase 8b	120,000	-	105
Fibre Optic Cabling to City Facilities - Phase 9/10	130,000	-	106
Mobile Middleware Framework	200,000	-	107
PeopleSoft 9.2 Enhancements and Business Intelligence	450,000	-	
Tools			108
Richmond Fire Mobile In Apparatus Computers	150,000	-	
(Evergreen)			109
WorkSafeBC Claims/Incident Management System	151,200	22,800	110
<b><i>Total Technology</i></b>	<b><i>\$2,505,755</i></b>	<b><i>\$35,200</i></b>	
<i><b>Annual Fleet Replacement</b></i>			
Vehicle and Equipment Reserve Purchases (PW and Corporate Fleet) (Submission #1 of #2)	1,980,000	-	111
<b><i>Total Annual Fleet Replacement</i></b>	<b><i>\$1,980,000</i></b>	<b><i>\$0</i></b>	
<i><b>Fire Dept. Vehicles</b></i>			
Fire Equipment Replacement	318,182	-	112
Fire Vehicle Replacement Reserve Purchases	886,641	-	113
<b><i>Total Fire Dept. Vehicles</i></b>	<b><i>\$1,204,823</i></b>	<b><i>\$0</i></b>	



**2014 Details of Recommended Projects by Program**  
Equipment

**Appendix 4**

<b>Project Name</b>	<b>Total Investment</b>	<b>Total OBI</b>	<b>Ref</b>
<b>F. EQUIPMENT PROGRAM</b>			
<i>Computer Capital/Software</i>			
Hansen Upgrade	1,175,500	44,100	114
<b>Total Computer Capital/Software</b>	<b>\$1,175,500</b>	<b>\$44,100</b>	
<i>Miscellaneous Equipment</i>			
Library Material Purchases	1,162,900	-	115
<b>Total Miscellaneous Equipment</b>	<b>\$1,162,900</b>	<b>\$0</b>	
<b>TOTAL EQUIPMENT PROGRAM</b>	<b>\$8,133,978</b>	<b>\$113,220</b>	

Program:	Equipment Program		Sub-program:	Vehicle Equipment
Project Name:	Vehicles for RCMP Detachment Leadership Team		Submission ID:	5326
Location:	No. 5 Rd Richmond Detachment			
Cost:	\$105,000		OBI:	\$33,920
Funding Sources:	Other Funding: \$105,000			
Scope:	<p>This request is to procure four (4) City of Richmond vehicles to be funded from a one-time reduction of the RCMP Contract Policing Account. The cars will be owned by the City of Richmond and operated by the Richmond RCMP Department Leadership Team. The OBI will be funded by an ongoing reduction in the RCMP contract Policing Account. The existing RCMP police vehicles for the Leadership Team will be reallocated to the Serious Crime Unit.</p> <p>The Richmond RCMP Detachment Leadership Team is on-call 24/7 to respond to emerging situations. Due to a change in RCMP vehicle use policy, overnight custody of RCMP police vehicles is no longer permitted. In order to respond to after-hour incidents, Officers would need to travel to and from the Richmond Detachment to obtain transportation rather than going directly to the incident.</p> <p>As well, the RCMP Detachment Leadership Team are also required after regular hours to conduct meetings, attend community service groups, charity events, cadet functions and other administrative meetings throughout the Lower Mainland and the Province (i.e. Chiefs of Police) to represent the City of Richmond.</p>			
				

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Equipment

Program:	Equipment Program	Sub-program:	Technology
Project Name:	2014 Server Replacements	Submission ID:	5139
Location:	City Hall		
Cost:	\$232,000	OBI:	\$ 0
Funding Sources:	Lease Provision:		\$232,000
Scope:	The servers supporting the GIS system have experienced a number of failures over the past year. They have reached their end of life and as per the data centre evergreening plan, are scheduled for replacement in 2014.		
	ATLAS GIS database replacement server (RC) \$10,000 METIS GIS database replacement server (RC) \$21,000 DATA4 SQL server & licenses (RC) \$45,000 SAN Storage Additional Capacity \$36,000		



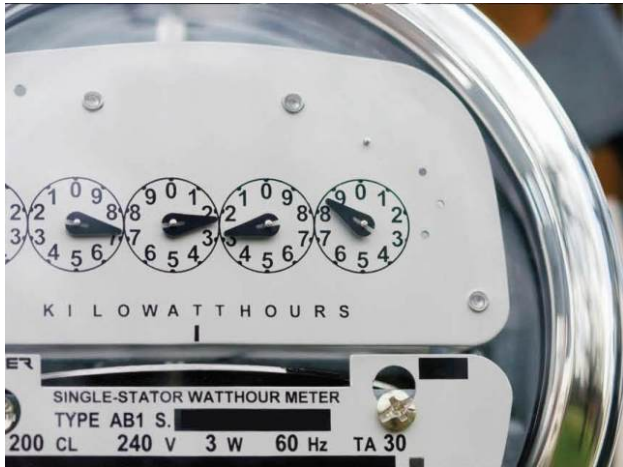
## Equipment

Program:	Equipment Program	Sub-program:	Technology
Project Name:	Amanda Mobile 6.0 Upgrade Implementation	Submission ID:	5289
Location:	Building Approvals Division		
Cost:	\$97,555	OBI:	\$12,400
Funding Sources:	Rate stabilization: \$97,555		
Scope:	We are proposing implementation of a pilot program comprising 6 mobile units, software upgrade, individual licenses, staff training, maintenance and associated mobile hardware to the Amanda system to equip Building Inspections staff. We anticipate that analysis of the operational improvements to performance during the pilot period will become the basis of a wider implementation of the Mobile Amanda System for the overall Inspections Staff in future.		






## Equipment

Program:	Equipment Program		Sub-program:	Technology
Project Name:	Energy Management - 2014 Projects		Submission ID:	5290
Location:	Various Locations			
Cost:	\$645,000		OBI:	\$0
Funding Sources:	Enterprise Provision: \$645,000			
Scope:	<p>1.City Hall occupancy sensor and temperature control upgrade - Install dual technology occupancy sensors in select rooms of City Hall. Estimated Capital: \$50,000 Anticipated Cost Avoidance: \$12,000</p> <p>2.Minoru tennis court lighting upgrade - Replace inefficient lighting at the Minoru Park public tennis courts. Estimated Capital: \$45,000 Anticipated Cost Avoidance: \$5,000</p> <p>3.Steveston pool and complex heating system upgrade and optimization. - Optimize the existing heating system at the Steveston Pool and Community Centre. Estimated Capital: \$125,000 Anticipated Cost Avoidance: \$3,000-\$10,000</p> <p>4.Direct digital control upgrades. - Upgrade the direct digital controls systems at five existing buildings (City Hall, Works Yard, Thompson Community Centre, Library Cultural Centre, and Steveston Community Centre). Estimated Capital: \$275,000 Anticipated Cost Avoidance: \$45,000</p> <p>5.Lighting retrofits - Conduct 3-5 lighting retrofit and upgrade projects at existing facilities. Estimated Capital: \$150,000 Anticipated Cost Avoidance: \$20,000</p>			
				

# 2014 Details of Recommended Projects by Program

## Appendix 4

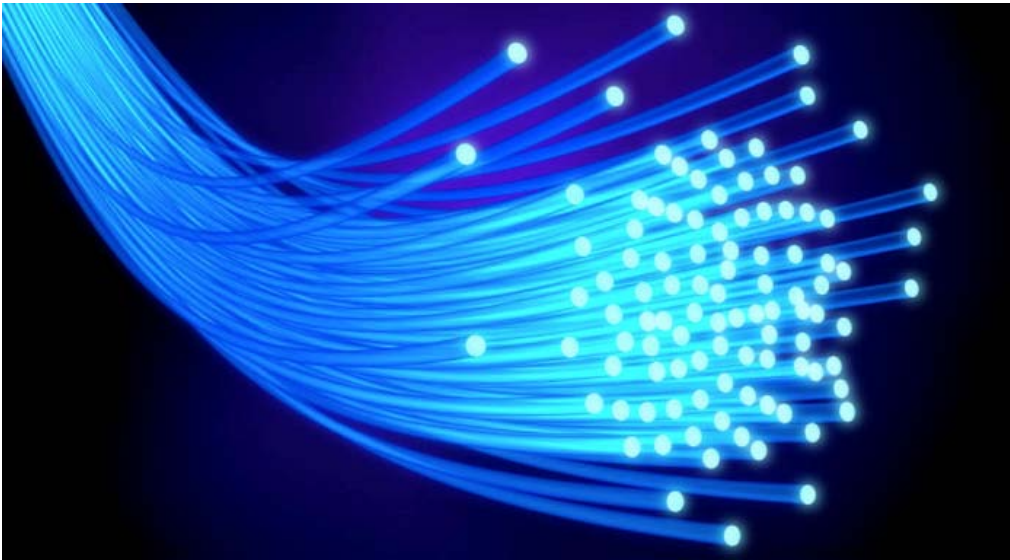
### Equipment

Program:	Equipment Program	Sub-program:	Technology
Project Name:	Existing Operational Desktop Computer Hardware Funding	Submission ID:	4898
Location:	City Hall		
Cost:	\$330,000	OBI:	\$ 0
Funding Sources:	Hardware Upgrade Provision: \$330,000		
Scope:	<p>This is operational enterprise computer desktop hardware used by all City departments to carry out their day-to-day operations. Replacement of the following desktop hardware to ensure continued service levels:</p> <p>Desktops (Evergreen): 250 units = \$229,600.00</p> <p>Desktops (Replacement):50 units = \$45,920.00</p> <p>Workstations: 5 units = \$7,280.00</p> <p>Laptops: 25 units = \$25,200.00</p> <p>Monitors: 100 units = \$24,640.00</p> <p>Printers: 15 units = \$19,320.00</p> <p>Ipad/Mobile Devices: 20 units = \$17,920.00</p> <p>TOTAL \$369,880.00</p>		
			


# 2014 Details of Recommended Projects by Program

## Appendix 4

### Equipment

Program:	Equipment Program	Sub-program:	Technology
Project Name:	Fibre Optic Cabling to City Facilities - Phase 8b	Submission ID:	5140
<b>Location:</b>	Various Locations		
<b>Cost:</b>	\$120,000	<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Enterprise Provision: \$120,000		
<b>Scope:</b>	<p>Replace the Telus Munilink services that currently run to Nature Park and Cambie. Total project cost: \$320,000 Funded to-date: \$200,000  This portion of project Start date: 2014 end date 2015  Design, remediation of existing conduit, laying of new conduit, pulling of fibre cables, termination, and requisite electronic components.  Nature Park: \$110,000 (not yet funded)  Cambie: \$85,000 (partially funded)- project submission 5045  Britannia: \$125,000 (already funded)- project submission 5045</p> 		

## Equipment

Program:	Equipment Program		Sub-program:	Technology
Project Name:	Fibre Optic Cabling to City Facilities - Phase 9/10		Submission ID:	5142
Location:	Richmond Ice Centre, Watermania, Fire Hall # 7			
Cost:	\$130,000		OBI:	\$ 0
Funding Sources:	Enterprise Provision: \$130,000			
Scope:	<p>Replace the Shaw Internet services currently provided to Fire Hall #7</p> <p>Replace the Telus Munilink services that currently run to Richmond Ice Centre and Watermania.</p> <p>Upgrade telecommunications equipment.</p> <p>Design, remediation of existing conduit, laying of new conduit, pulling of fibre cables, termination, and requisite electronic components.</p> <p>Current &amp; anticipated operating expenditures (if unfunded):</p> <p>Refer to document #3905197 for additional details</p>			
				



## Equipment

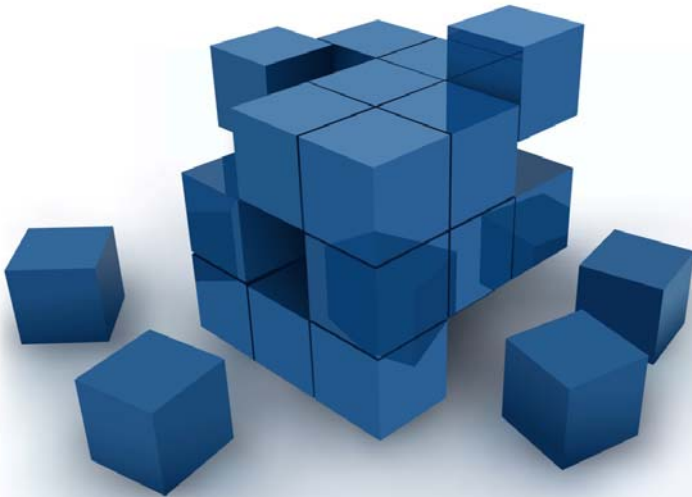
Program:	Equipment Program		Sub-program:	Technology
Project Name:	Mobile Middleware Framework		Submission ID:	5238
Location:	City Hall			
Cost:	\$200,000		OBI:	\$ 0
Funding Sources:	Software Provision: \$200,000			
Scope:	To develop an ongoing mobile middleware framework and to pilot one business unit mobile application demand/requirement using the following strategy:			
Strategy				
1. Identify mobile application demand/requirements				
2. Inventory types of mobiles solutions required to meet demand				
3. Determine anticipated ROI of each mobile solution				
4. Identify which mobile solutions can be purchased “off the shelf” 1 and which requires development				
5. Identify technology required and costs associated				
6. Determine estimated implementation efforts/costs including development and deployment				
7. Determine funding requirements (current/future) and indentify funding sources				
8. Prioritize mobile application projects and support departments				
9. Develop and test new technology				
10. Develop support procedures				
11. Implement new technology				
				

## 2014 Details of Recommended Projects by Program


## Appendix 4

### Equipment


Program:	Equipment Program	Sub-program:	Technology
Project Name:	PeopleSoft 9.2 Enhancements and Business Intelligence Tools	Submission ID:	3631
Location:	City Hall		
Cost:	\$450,000	OBI:	\$ 0
Funding Sources:	Software Provision: \$450,000		
Scope:	<p>There are two (2) components of this project: PeopleSoft enhancements and Business Intelligence (BI) tool assessment.</p> <p>PeopleSoft will be upgraded from version 9.0 to 9.2 during 2014. Enhancements during the upgrade include: reconfiguration of the general ledger and conversion of data, business process enhancements and improved functionality, enhanced financial reporting and technical improvements.</p> <p>These enhancements will prepare the financial system for use of a BI tool by providing data in a consistent and comparable format reducing the requirement for manual preparation of reports. A BI tool will facilitate reporting in an accessible, understandable and dynamic format. The assessment will define the corporate reporting needs, format and delivery preferences as well as a review of available products.</p>		



## Equipment

Program:	Equipment Program		Sub-program:	Technology
Project Name:	Richmond Fire Mobile In Apparatus Computers (Evergreen)		Submission ID:	5020
Location:	Richmond Firehalls			
Cost:	\$150,000		OBI:	\$ 0
Funding Sources:	Rate stabilization: \$150,000			
Scope:	Replacement of all the mobile computer system in Emergency Response Vehicles for 15 units (13 front line and 2 reserve vehicles) at \$10,000 each. The total cost is \$150,000.			
<p>Richmond Fire Rescue has equipped all of the front line emergency response vehicles with mobile computer equipment. These units were placed into service in Nov 2008 and are coming to the end of their life cycle in Quarter 4, 2013. The current computer equipment would need to be replaced in 2014. This equipment is used to dispatch and to provide critical information to crews in the field. The installation consists of a computer, keyboard, monitor, modem (for data and GPS), antennas (for data and GPS) and cabling.</p> <p>The computer upgrades is used to enable new software releases by E-COMM to facilitate the integration of enhanced mutual communication of emergency services with neighbouring Fire Departments, BC Ambulance, and the RCMP. The upgrade would also be able to provide real-time information that may include live audio and video feed for site commanders and responding units. The upgraded computer system would also be able to utilize the full capacity of the public sector broadband communication, resulting in faster and more reliable transmission (less dropped signals). In all, new software and technology currently available would provide enhanced incident management and risk assessment, to save lives and to minimize property damage.</p>				
				


## Equipment

<b>Program:</b>	Equipment Program		<b>Sub-program:</b>	Technology
<b>Project Name:</b>	WorkSafeBC Claims/Incident Management System		<b>Submission ID:</b>	5273
<b>Location:</b>	Human Resources			
<b>Cost:</b>	\$151,200		<b>OBI:</b>	\$ 22,800
<b>Funding Sources:</b>	Rate stabilization: \$151,200			
<b>Scope:</b>	<p>To source, purchase and implement a method to record, track and trend incident data in a centralized on-line system with configurable security for individual users or groups of users to ensure incidents are quickly responded to investigated and closed.</p> <p>Initiation of a Request for Information to located available software solution: Fall 2013 Request for Proposal, review, select and award: 1st quarter of 2014 Implementation: 3 to 6 months from purchase date</p> <p>Shared project: Departments included: IT, HR, with internal stakeholder of Richmond Fire-Rescue, Public Works, and Community Services</p>			
				




## Equipment

<b>Program:</b>	<b>Equipment Program</b>	<b>Sub-program:</b>	<b>Annual Fleet Replacement Program</b>
<b>Project Name:</b>	<b>Vehicle and Equipment Reserve Purchases (PW and Corporate Fleet)</b>	<b>Submission ID:</b>	<b>605</b>
<b>Location:</b>	Works Yard and Various City Departments		
<b>Cost:</b>	\$1,980,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Vehicles–PW Equipment Replacement: \$1,675,000 Utility Levy: \$305,000		
<b>Scope:</b>	<p>The work involves meeting with user groups to establish needs and develop specifications for vehicle/equipment replacements. Bid documentation is then issued to the marketplace, with purchases combined, where possible, to achieve best value. Submissions are evaluated with user input, and awards are made accordingly. Scope also includes vehicle outfitting. The work commences upon receiving council approval, with timing dependent on delivery timeframes/availability of product from successful vendors.</p> <p>This project includes the following items:</p> <p>Fleet Reserve:</p> <ul style="list-style-type: none"> <li>- 879, 880 1995 U-Built Trailer</li> <li>- 932: 1997 Ingersoll Rand Compressor</li> <li>- 1046: 2003 Chevrolet Cavalier</li> <li>- 1055: 2001 Ford E-250 Cargo Van</li> <li>- 1056, 1057: 2001 Ford F-250 Pick Up Truck</li> <li>- 1058, 1059, 1060, 1061: 2001 F-250 Supercab Pick Up</li> <li>- 1062, 1063: 2001 F-250 Pick Up Truck</li> <li>- 1065, 1066, 1067: 2001 F-250 Regular Cab Pick Up Truck</li> <li>- 1068: 2001 Ford Regular Cab Pick Up Truck</li> <li>- 1069, 1070, 1071, 1072, 1073: 2001 Ford F-250 Super Cab</li> <li>- 1078: 2000 U-Built Flat Deck Trailer</li> <li>- 1088: 2001 GMC Safari Van</li> <li>- 1093: 2001 Ford F-450 Crew Cab</li> <li>- 1112, 1116, 1152, 1154: 2001 Grumman Workhorse Van</li> <li>- 1121 - 2001 Ford F-450 Crew Cab</li> <li>- 1123 - 2001 GMC Safari Cargo Van</li> <li>- 1144: 2001 GMC Savana Van</li> <li>- 1151: 2001 Ford F-150 Super Cab</li> <li>- 1161: 2002 F-550 Regular Cab Dump Crane</li> <li>- 1166: 2001 Ford Standard Cab Dump</li> <li>- 1170: 2002 Ford F-250 Super Cab</li> <li>- 1218: 2003 New Holland Tractor</li> <li>- 1235: 2003 Chevrolet Cavalier</li> <li>- 1236: 2003 John Deere Mower</li> <li>- 1632 Bobcat</li> <li>-1414/6004/875 Aerial Tree Trimmer</li> <li>- Brine Mixer</li> <li>- Unallocated</li> </ul> <p>Water Utility Reserve:</p> <ul style="list-style-type: none"> <li>- 941: 1997 Chevrolet 2 WD Pick-Up Truck</li> <li>- 1064: 2001 Ford F250 Pick-Up Truck</li> <li>- 1119: 2001 Grumman Workhorse Van</li> <li>- 1192: 2003 Ford Cargo Van Raised Roof</li> </ul>		

Program:	Equipment Program	Sub-program:	Technology
Project Name:	Fire Equipment Replacement	Submission ID:	4667
Location:	Fire-Rescue		
Cost:	\$318,182	OBI:	\$ 0
Funding Sources:	Fire Equipment - Replacement Reserve: \$318,182		
Scope:	<p>The following equipment to due for evergreen replacement:</p> <ol style="list-style-type: none"><li>1. 55 units of Self-Contained Breathing Apparatus at 5,500 each – total is \$302,500</li><li>2. 30 units of fire fighting hose at \$300-\$500 per unit depending on the diameter - total is \$15,682</li></ol> <p>Firefighters rely upon their protective equipment to operate effectively and reduce the risk of injury or death. The Self-Contained Breathing Apparatus (SCBA) unit includes an air cylinder and breathing pak.</p> <p>The change in the industry standard requires the replacement of 180 SCBA units. In 2012, 70 SCBA units were replaced; In 2013, 55 SCBA units were replaced leaving the balance to be replaced in 2014 is 55 SCBA units.</p> <p>Fire hose is to be replaced based on the age, usage and testing to determine operational readiness. Based on the assessment conducted, Richmond Fire Rescue requires the evergreening of 30 units of fire fighting hose.</p>		
			

## Equipment

<b>Program:</b>	Equipment Program	<b>Sub-program:</b>	Technology
<b>Project Name:</b>	Fire Vehicle Replacement Reserve Purchases	<b>Submission ID:</b>	852
<b>Location:</b>	Fire-Rescue		
<b>Cost:</b>	\$886,641	<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Fire Equipment - Replacement Reserve: \$886,641		
<b>Scope:</b>	<p>For 2014 a Fire Pumper is scheduled for replacement. (23 years old in 2014 - 140,000 kms). A Fire Pumper will take approximately 10 months from date of order to deployment. The estimated replacement cost of the front-line apparatus is \$812,670 CDN.</p> <p>In addition, three support vehicles that support Fire Prevention Branch are scheduled for replacement due to age and mileage (vehicles are over 13 years old and more than 95,000 km). The cost of each vehicle is estimated to be approximately \$24,657 for a total of \$73,971.</p> <p>In 2011 a report was prepared for Council on the status of the Fire Vehicle Replacement Reserve and put forward a replacement schedule for all fire vehicles and specific equipment. The replacements requested are aligned with this life cycle replacement plan.</p> <p>The regular replacement of front line fire apparatus follows a life cycle replacement schedule based on the industry standards. A condition inspection is conducted annually to evaluate the mechanical status of the vehicle to determine replacement need.</p>		




## Equipment

<b>Program:</b>	<b>Equipment Program</b>	<b>Sub-program:</b>	<b>Computer Capital/Software</b>
<b>Project Name:</b>	<b>Hansen Upgrade</b>	<b>Submission ID:</b>	<b>5258</b>
<b>Location:</b>	Works Yard and various City Departments		
<b>Cost:</b>	\$1,175,500	<b>OBI:</b>	\$44,100
<b>Funding Sources:</b>	Computer Equipment Replacement: \$1,175,500		
<b>Scope:</b>	<p>The project involves a 3 phase approach:</p> <p>Phase 1 - a comprehensive review to establish baseline foundations for business units and determine "as-is" processes. The project roadmap will realize and leverage knowledge gained from in-depth analysis and reporting during the current state assessments. Recommendations to include the vision, strategies, tactics and actionable items that close the gap between the current situation and the target state.</p> <p>Phase 2 - system implementation, configuration and the re-engineering of Hansen work processes. The hardware and software components will be installed and configured as per the business requirements in phase 1. This phase also encompasses the design and build of the integrations between Hansen and the other software systems, such as Peoplesoft and Amanda</p> <p>Phase 3 - system refinements. The core system and functions will be available to all business units upon "go-live". Encompasses the continuous improvement, enhancement of system setup and refinement of work processes post go-live.</p> <p>It is anticipated that this three phase approach will take approximately 30 months, commencing March 2014 and concluding October 2016.</p> <p>OBI of \$44,100 has been included to support the annual maintenance of new licences for new Hansen modules for Electronic Call Centre and Mobile Solutions.</p> <p>There is no other capital projects that this upgrade is associated with.</p> <p>Business units/departments and stakeholders include:</p> <ul style="list-style-type: none"> <li>- Public Works Administration</li> <li>- Water Services</li> <li>- Sanitation, Sewer and Storm</li> <li>- Roads and Construction</li> <li>- Fleet Operations</li> <li>- Engineering Planning</li> <li>- Engineering Design and Construction</li> <li>- Facilities Management</li> <li>- Project Development</li> <li>- Parks and Recreation</li> <li>- Finance/Payroll</li> <li>- IT</li> <li>- Bylaws</li> </ul> <p>The largest components of this project would be phase 1, which is the comprehensive business process reviews and phase 2 will be the system implementation, configuration and the re-engineering of Hansen work processes.</p>		



<b>Program:</b>	Equipment Program		<b>Sub-program:</b>	Miscellaneous Equipment
<b>Project Name:</b>	Library Material Purchases		<b>Submission ID:</b>	4926
<b>Location:</b>	Library			
<b>Cost:</b>	\$1,162,900		<b>OBI:</b>	\$ 0
<b>Funding Sources:</b>	Library Provision: \$1,162,900			
<b>Scope:</b>	<p>This project includes the purchasing, cataloguing and processing of books, DVDs and CDs. It covers the cost of acquiring the materials and getting them prepared for customer check-out. Conversion of these budgets from operating to capital started in 2012 and continue annually. Components of this project include: purchase of the material, including freight costs; and the cost of cataloging, processing and reinforcing of book bindings, as necessary.</p>			



## Child Care

**Child Care Program 2014-2018**

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.

**2014 Recommended Child Care Program**

Project Name	Total Investment	Total OBI	Ref
<b>G. CHILD CARE PROGRAM</b>			
<i>Child Care</i>			
Child Care Projects- City Wide	50,000	-	117
<b>TOTAL CHILD CARE PROGRAM</b>	<b>\$50,000</b>	<b>\$0</b>	

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Child Care

Program:	Child Care Program	Sub-program:	Child Care Program
Project Name:	Child Care Projects- City Wide	Submission ID:	4886
Location:	Various		
Cost:	\$ 50,000	OBI:	\$0
Funding Sources:	Child Care Development (City Wide): \$50,000		
Scope:	Funding for the City's 2014 City's Child Care grant program.		



## Internal Transfers/Debt Program 2014-2018

The internal transfers/debt program relates to the use of capital funding for items that do not result in tangible capital assets. This includes: the repayment of capital funds borrowed from other internal sources of funding, external debt repayment and transfers to the operating budget for items that do not meet the asset capitalization criteria.

### 2014 Recommended Internal Transfer/Debt Program

Project Name	Total Investment	Total OBI	Ref
<b>H. INTERNAL TRANSFERS/DEBT REPAYMENT</b>			
<i>Internal Transfers/Debt Repayment</i>			
Nelson Road Interchange Repayment	385,098	-	119
Parkland Acquisition City Wide	8,000,000	-	120
Parkland Acquisition West Cambie	1,200,000	-	121
River Rd/North Loop (2005) Repayment	1,317,000	-	122
Shovel - Ready Grant (2009) Repayment Lansdowne	77,263	-	
Rd Extension			123
<b>TOTAL INTERNAL TRANSFERS/DEBT REPAYM</b>	<b>\$10,979,361</b>	<b>\$0</b>	
<b>Total 2014 Capital Program</b>	<b>\$185,855,625</b>	<b>\$3,948,355</b>	



# 2014 Details of Recommended Projects by Program

# Appendix 4

## Internal Transfers / Debt Repayment

Program:	Internal Transfers/Debt Repayment			Sub-program:	Internal Transfers/Debt Repayments	
Project Name:	Nelson Road Interchange Repayment			Submission ID:	5296	
Location:	Finance					
Cost:	\$385,098			OBI:	\$0	
Funding Sources:	Roads DCC: \$385,098					
Scope:	A total of \$2.54M is to be repaid from Roads DCC to Surplus over 8 years.					
The loan amortization schedule is:						
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	
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	
*Picture is not available						

## 2014 Details of Recommended Projects by Program

## Appendix 4

### Internal Transfers / Debt Repayment

<b>Program:</b>	Internal Transfers/Debt Repayment	<b>Sub-program:</b>	Internal Transfers/Debt Repayments
<b>Project Name:</b>	Parkland Acquisition City Wide	<b>Submission ID:</b>	5331
<b>Location:</b>	Finance		
<b>Cost:</b>	\$8,000,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Park DCC: \$7,524,000 Parks Development City Assist: \$476,000		
<b>Scope:</b>	To repay the Industrial Use Reserve for parkland property acquisitions in the West Cambie area that used general funding because the West Cambie DCC's were not sufficient at the time of acquisition.		

**2014 Details of Recommended Projects by Program****Appendix 4****Internal Transfers / Debt Repayment**


<b>Program:</b>	<b>Internal Transfers/Debt Repayment</b>	<b>Sub-program:</b>	<b>Internal Transfers/Debt Repayments</b>
<b>Project Name:</b>	<b>Parkland Acquisition West Cambie</b>	<b>Submission ID:</b>	<b>5330</b>
<b>Location:</b>	Finance		
<b>Cost:</b>	\$1,200,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Park DCC: \$1,128,601 Parks Development City Assist: \$71,399		
<b>Scope:</b>	To repay the Industrial Use Reserve for parkland property acquisitions in the West Cambie area that used general funding because the West Cambie DCC's were not sufficient at the time of acquisition.		

# 2014 Details of Recommended Projects by Program

# Appendix 4

## Internal Transfers / Debt Repayment

Program:	Internal Transfers/Debt Payment		Sub-program:	Internal Transfers/Debt Payment		
Project Name:	River Rd/North Loop (2005) Repayment		Submission ID:	2303		
Location:	Finance					
Cost:	\$1,317,000		OBI:	\$ 0		
Funding Sources:	Roads DCC: \$1,317,000					
Scope:	A total of \$18M is to be repaid from Roads DCCs to Surplus over 18 years. The loan amortization schedule is:					
	Payments	Year	Balance	Payment	Interest	Principal
	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	9,143,488	(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	(1,586,746)	171,618	1,415,128
	16	2021	3,488,258	(1,586,746)	122,089	1,464,657
	17	2022	2,023,601	(1,586,746)	70,826	1,515,920
	18	2023	507,681	(1,586,746)	17,769	507,681








## 2014 Details of Recommended Projects by Program


## Appendix 4

### Internal Transfers / Debt Repayment

Program:	Internal Transfers/Debt Payment		Sub-program:	Internal Transfers/Debt Payment																																																																			
Project Name:	Shovel - Ready Grant (2009) Repayment		Submission ID:	3779																																																																			
Location:	Finance																																																																						
Cost:	\$77,263		OBI:	\$ 0																																																																			
Funding Sources:	Roads DCC: \$77,263																																																																						
Scope:	<p>The total amount borrowed in 2009 was \$626,666 and is to be repaid over 10 years beginning in 2010.</p> <p>The 2014 payment of \$77,263 is the 5th of 10 equal payments</p> <p>The loan amortization schedule is:</p> <table><tr><td><u>Payment</u></td><td><u>Year</u></td><td><u>Balance</u></td><td><u>Payment</u></td><td><u>Interest</u></td><td><u>Principal</u></td></tr><tr><td>1</td><td>2010</td><td>626,666</td><td>\$(77,263)</td><td>25,067</td><td>52,196</td></tr><tr><td>2</td><td>2011</td><td>574,470</td><td>\$(77,263)</td><td>22,979</td><td>54,284</td></tr><tr><td>3</td><td>2012</td><td>520,185</td><td>\$(77,263)</td><td>20,807</td><td>56,456</td></tr><tr><td>4</td><td>2013</td><td>463,730</td><td>\$(77,263)</td><td>18,549</td><td>58,714</td></tr><tr><td>5</td><td>2014</td><td>405,016</td><td>\$(77,263)</td><td>16,201</td><td>61,062</td></tr><tr><td>6</td><td>2015</td><td>343,954</td><td>\$(77,263)</td><td>13,758</td><td>63,505</td></tr><tr><td>7</td><td>2016</td><td>280,449</td><td>\$(77,263)</td><td>11,218</td><td>66,045</td></tr><tr><td>8</td><td>2017</td><td>214,404</td><td>\$(77,263)</td><td>8,576</td><td>68,687</td></tr><tr><td>9</td><td>2018</td><td>145,717</td><td>\$(77,263)</td><td>5,829</td><td>71,434</td></tr><tr><td>10</td><td>2019</td><td>74,283</td><td>\$(77,254)</td><td>2,971</td><td>74,283</td></tr></table>					<u>Payment</u>	<u>Year</u>	<u>Balance</u>	<u>Payment</u>	<u>Interest</u>	<u>Principal</u>	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	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
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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																																																																		
																																																																							

**2014 Details of Unfunded Projects****Appendix 5**

<b>Program:</b>	<b>Building Program</b>	<b>Sub-program:</b>	<b>Major Building</b>
<b>Project Name:</b>	<b>Project Development Advanced Design</b>	<b>Submission ID:</b>	<b>5254</b>
<b>Location:</b>	Citywide		
<b>Cost:</b>	\$200,000	<b>OBI:</b>	\$0
<b>Funding Sources:</b>	Capital Reserve - Revolving: \$200,000		
<b>Scope:</b>	Engage services for a variety of proposed facility projects to determine the feasibility of each project. Services to include the development of conceptual and detailed design plans and cost estimates and schedule for each proposed project.		
Unfunded 2014			

<b>Program:</b>	<b>Equipment Program</b>	<b>Sub-program:</b>	<b>Vehicle Equipment</b>
<b>Project Name:</b>	<b>Inter-agency Emergency Command Vehicle</b>	<b>Submission ID:</b>	<b>5192</b>
<b>Location:</b>	Various locations		
<b>Cost:</b>	\$992,000	<b>OBI:</b>	\$60,828
<b>Funding Sources:</b>	Capital Reserve - Revolving: \$992,000		
<b>Scope:</b>	<p>This emergency command vehicle is intended as an Incident Command Post for emergency response by Richmond Fire Rescue, RCMP, BC Ambulance Service, Public Works, Coast Guard and Emergency Programs for the inter-agency coordination of command and control of tactical operations and centralized decision-making at an emergency.</p> <p>The present 1995 command unit is now beyond the end of its current life cycle, causing maintenance and repair costs to increase significantly as the aging vehicle and its communication equipment fails. To date the City has spent \$31,800 on maintenance of the current vehicle, \$19,100 of that in the past 2.5 years.</p> <p>Replacement of this vehicle will enhance the City's response capabilities by ensuring emergency responders have access to a reliable vehicle and operational equipment with up to date technology, and an effective workspace in which to establish a command centre at an emergency. It may also be used at a large scale community event.</p> <p>Total unit cost is estimated at \$992,000</p> <p>Vehicle replacement reserves - \$9,000 Vehicle purchase - \$655,000 Completion - \$328,000</p> <p>Acquisition of this vehicle will be over a two-year period with \$664,000 required in the first year and \$328,000 required in the second year.</p> <p>This unit can be utilized by Richmond Fire Rescue, RCMP, BC Ambulance Service, Public Works, Coast Guard and Emergency Programs during emergencies and large scale public events.</p>		
			
Unfunded 2014			

**OBI Phase-in Option 1 (in \$000s)**

	2014	2015	2016	2017	2018	2019	2020	2021	Total
OBI-Other	\$183	\$367	\$367	\$367	\$367	\$367	\$367	\$367	
City Centre Community Centre	86	1,278	1,608	1,608	1,608	1,608	1,608	1,608	
Older Adults Centre	-	-	290	725	725	725	725	725	
Minoru Aquatic Centre	-	-	480	1,018	1,018	1,018	1,018	1,018	
Fire Hall 1	-	-	209	209	209	209	209	209	
OBI funding requirement	270	1,645	2,955	3,928	3,928	3,928	3,928	3,928	
<b>Incremental OBI</b>	<b>\$500</b>	<b>\$1,000</b>	<b>\$1,500</b>	<b>\$2,000</b>	<b>\$2,500</b>	<b>\$3,000</b>	<b>\$3,500</b>	<b>\$3,928</b>	
Base Budget OBI (surplus) deficit	(230)	645	1,455	1,928	1,428	928	428	-	
Carryforward prior year surplus		(230)	-	-	-	-	-	-	
Funding from Provision	-	(414)	(1,455)	(1,928)	(1,428)	(928)	(428)	-	(5,225)
Surplus to carryforward	(230)	-	-	-	-	-	-	-	
Annual Tax impact	0.29%	0.29%	0.29%	0.29%	0.29%	0.29%	0.29%	0.24%	2.25%



**OBI Phase-in Option 2 (in \$000s) - Recommended**

	2014	2015	2016	2017	2018	2019	2020	Total
OBI-Other	\$183	\$367	\$367	\$367	\$367	\$367	\$367	
City Centre Community Centre	86	1,278	1,608	1,608	1,608	1,608	1,608	
Older Adults Centre	-	-	290	725	725	725	725	
Minoru Aquatic Centre	-	-	480	1,018	1,018	1,018	1,018	
Fire Hall 1	-	-	209	209	209	209	209	
OBI funding requirement	270	1,645	2,955	3,928	3,928	3,928	3,928	
<b>Incremental OBI</b>	<b>\$600</b>	<b>\$1,200</b>	<b>\$1,800</b>	<b>\$2,400</b>	<b>\$3,000</b>	<b>\$3,600</b>	<b>\$3,928</b>	
Base Budget OBI (surplus) deficit	(330)	445	1,155	1,528	928	328	-	
Carryforward prior year surplus		(330)	-	-	-	-	-	
Funding from Provision	-	(114)	(1,155)	(1,528)	(928)	(328)	-	(3,725)
Surplus to carryforward	(330)	-	-	-	-	-	-	
Annual Tax impact	0.34%	0.34%	0.34%	0.34%	0.34%	0.34%	0.19%	2.25%

**OBI Phase-in Option 3 (in \$000s)**

	2014	2015	2016	2017	2018	2019	Total
OBI-Other	\$183	\$367	\$367	\$367	\$367	\$367	
City Centre Community Centre	86	1,278	1,608	1,608	1,608	1,608	
Older Adults Centre	-	-	290	725	725	725	
Minoru Aquatic Centre	-	-	480	1,018	1,018	1,018	
Fire Hall 1	-	-	209	209	209	209	
	270	1,645	2,955	3,928	3,928	3,928	
<b>Incremental OBI</b>	<b>\$700</b>	<b>\$1,400</b>	<b>\$2,100</b>	<b>\$2,800</b>	<b>\$3,500</b>	<b>\$3,928</b>	
Base Budget OBI (surplus) deficit	(430)	245	855	1,128	428	-	
Carryforward prior year surplus		(430)	(186)	-	-	-	
Funding from Provision	-	-	(669)	(1,128)	(428)	-	(2,225)
Surplus to carryforward	(430)	(186)	-	-	-	-	
Annual Tax impact	0.40%	0.40%	0.40%	0.40%	0.40%	0.24%	2.25%