

City of Milwaukie CAPITAL IMPROVEMENT PLAN

Fiscal Years 2015-2020



56127

Table of Contents

<u>Message from the City Manager</u>	<u>3</u>
<u>Document Guide</u>	<u>4</u>
<u>CIP Overview</u>	<u>5</u>
<u>Summary Information</u>	<u>6</u>
<u>Multi-Document Transparency</u>	<u>8</u>
<u>CIP Process</u>	<u>9</u>
<u>General Fund Project Section</u>	<u>10</u>
<u>Stormwater Project Section</u>	<u>54</u>
<u>Streets Project Section</u>	<u>66</u>
<u>Wastewater Project Section</u>	<u>76</u>
<u>Water Project Section</u>	<u>84</u>

Special thanks to Administrative Staff Member

Blanca Marston

for assistance in the production of this document.

CIP Introduction

Message from the City Manager

As we prepare our second biennial budget, we continue our efforts of improving the budget materials we provide our citizens. This year, our focus is on improving the quality and content of our Capital Improvement Plan (CIP). The aim is to more clearly communicate the city's future infrastructure, facilities, and equipment needs, and to illustrate how the City is budgeting for the significant resources required to meet those needs. This effort is all the more important as we try to show our citizens how the City is still navigating the impacts of the trying financial times of the past several years.

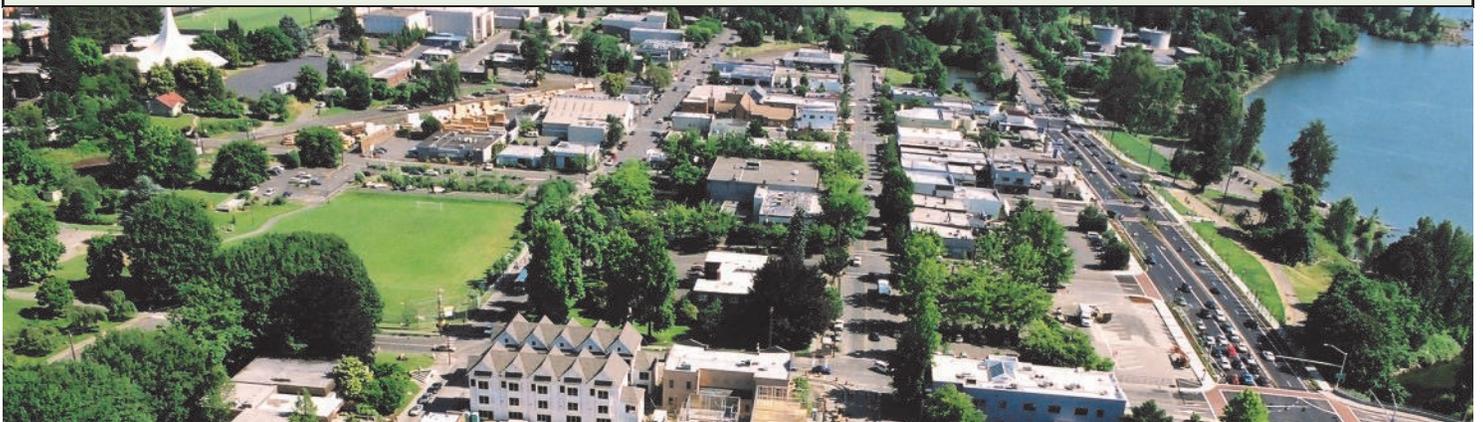
Our Capital Improvement Program cannot fully keep up with the rate at which our capital assets are depreciating. Flat or declining revenue sources are being outpaced by demands for service and continually increasing needs. Recognizing this, our staff, City Council, citizen members of the Budget Committee, and Citizens Utility Advisory Board have taken a careful look at our needs and the revenue sources required to afford ongoing improvements. Our recent utility rate increases reflect the City Council's efforts to better protect our assets by more aggressively providing funds to protect and improve the quality of our infrastructure. The increases are not sufficient to fully compensate for Milwaukie's previous practice of maintaining low utility rates; however, it is a shift in the right direction. We must continue to identify and prioritize projects most critical to our community to make the greatest impact with the limited funding available.

This document not only identifies where capital funds are being spent, but it shows where funding deficiencies are. It notes those capital projects that must be delayed due to lack of sufficient available funding or sources. Over the past three years, the City has worked hard to improve its financial outreach and reporting. The Finance Department's efforts have been rewarded as the budget document and reporting materials have received awards for compliance with the highest professional standards. This CIP document has been prepared to attain the same level of professionalism and to educate citizens about capital planning within the framework of the City's financial forecasting. I would like to commend our Engineering and Finance Departments for their outstanding efforts to prepare this CIP. I am pleased to submit it to you as an example of the excellent work undertaken by your City staff to address the ongoing needs of the community.

If you have any questions about this document, I encourage you to contact Engineering Director Jason Rice at ricej@milwaukieoregon.gov, or our Finance Director, Casey Camors at camorsc@milwaukieoregon.gov.

Sincerely,

Bill Monahan
Milwaukie City Manager



How to Use This Document

This Six-Year Capital Improvement Plan document provides detailed descriptions about projects organized by fund. Each fund section begins with a summary overview of the function of the fund followed by funding and project information. Summary tables and graphs highlight the capital projects within each fund. Following the summary section are detailed breakdowns of each project, along with project schedules, cost estimates, and operating budget impacts.

Summary information of all capital projects sorted by fund, funding source, and funding status are included as appendices to this document.

The project title and description explains the details and need for each project.



Wastewater Manhole Replacement/ Rehabilitation Program

This program was created to ensure the replacement of all manholes within the Wastewater network over a 150 year period. In the case of a manhole having satisfactory structural integrity, manhole rehabilitation (i.e., manhole lining or grouting) will be done in lieu of full manhole replacement. Manholes to be replaced or rehabilitated will be identified by the Engineering Department and Operations Wastewater Department on an annual basis.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	50,000	50,000	50,000	50,000	50,000	50,000	300,000

Operating Budget Impact

This project will not increase operating expenditures. These projects replace wastewater pipes one-for-one and will not increase the number of wastewater assets system-wide.

The outcome of the project on the operating budget of each fund is described in this area.

This section indicates whether the project is funded or unfunded, the funding source, and the cost for each scheduled project year. Unfunded projects have been shifted out of the current biennium.

Capital Improvement Plan Overview

The six-year Capital Improvement Plan (CIP) establishes guidance and planning for the City of Milwaukee's investments in capital infrastructure. At the foundation of the CIP are the City's Master Plan documents (Water, Sewer, Storm and Transportation), which are an extension of the City's Comprehensive Plan. These master plans illustrate the long-term needs and goals of each department as defined by community input, advisory groups, expert consultants, and City Staff. Planning Commission and City Council goals, operational (i.e. service delivery) needs, and regulatory requirements further refine and shape the CIP.

Projects within the CIP are prioritized and matched with projections of future revenues. Inclusion of a project within this document does not necessarily reflect a budgeted spending commitment, but is the anticipated priority at this snapshot in time based on estimated future revenues. Current revenues are not enough to keep up with all the capital needs of the City and, as such, some projects are shown as unfunded or partially funded in the CIP. Additionally, there are restrictions on many revenue sources in relation to where the funds may be spent.

A capital expenditure is defined by the City using the following two criteria: relatively high monetary value (\$10,000 or greater), and a long asset life (1 or more years of useful life).

The CIP is intended as a method of communication with citizens, businesses, advisory groups, the Planning Commission, and City Council. It gives the public the opportunity to see the City's proposed plans for the future and provide feedback to the City Council and City staff.

The goal of this Capital Improvement Plan is to provide the maximum sustainable level of priority capital investments to deliver outcomes that are of the highest importance to our citizens and provide for a healthy, safe, active, efficient, and optimized community with excellent livability and quality of life.

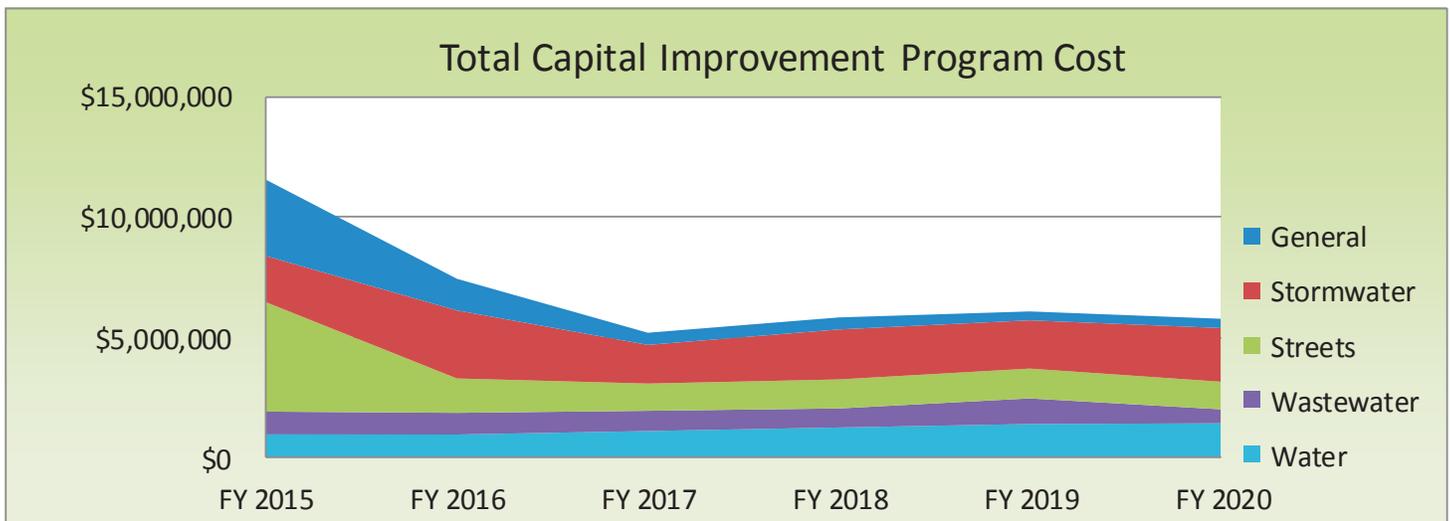
Factors in Evaluating CIP Projects

- Master planning documents
- City Council and Planning Commission goals
- Operational needs
- Regulatory requirements
- Fiscal Impacts
- Health, safety, and environmental effects
- Community economic effects
- Feasibility, including public support and disruption
- Implications of deferring the project
- Coordination and advantages of joint projects

Summary Information

Funding Summary

Fund	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
General	\$3,173,000	\$1,316,000	\$505,000	\$500,000	\$371,000	\$385,000	\$6,250,000
Stormwater	\$1,920,000	\$2,829,000	\$1,607,000	\$2,077,000	\$2,005,000	\$2,232,000	\$12,695,000
Streets	\$4,550,000	\$1,429,000	\$1,132,000	\$1,207,000	\$1,240,000	\$1,147,000	\$10,705,000
Wastewater	\$949,000	\$903,000	\$842,000	\$792,000	\$1,065,000	\$582,000	\$5,133,000
Water	\$966,000	\$961,000	\$1,107,000	\$1,254,000	\$1,399,000	\$1,429,000	\$7,116,000
Total	\$11,583,000	\$7,438,000	\$5,193,000	\$5,830,000	\$6,080,000	\$5,775,000	\$41,899,000



Funding for capital projects comes from five distinct sources

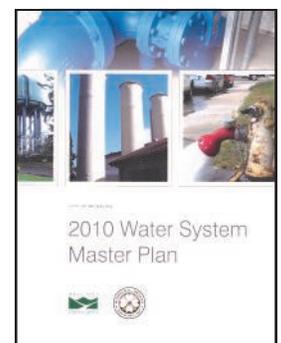
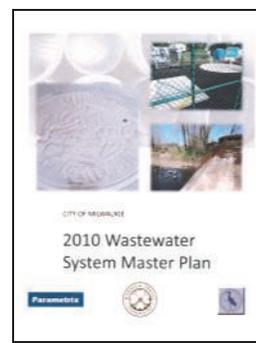
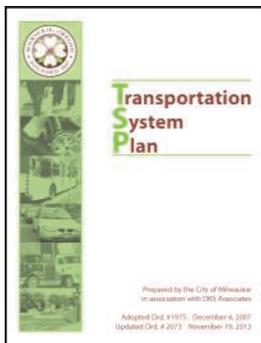
- (1) **Fees:** including utility rates, franchise utility fees, state gas tax and vehicle registration fees, interest income, streets/parks fees, and property taxes.
- (2) **Bonds**
- (3) **Grants:** the come from outside agencies such as ODOT, Metro, DEQ, Oregon Parks, and the Oregon Marine Board
- (4) **Systems Development Charges (SDCs):** from new development
- (5) **Fee In-lieu of Construction:** Fee charged to new development rather than constructing street improvements



Multi-Document Transparency

The City of Milwaukie recognizes that the projects included in the Six Year Capital Improvement Plan represent a significant amount of public monies and it is the City's intention to present this information across several documents to ensure that projects are clearly understood and accounted for in financial forecasts, budgets, capital improvement plans and master plans.

Multi-document transparency means that a capital project necessitated by a master plan will be included in the CIP document and then planned for in the forecast document. Funding for the project will then be included in the budget document and the expense will be recorded in quarterly and annual financial reports.



Streets Fund Summary									
	Actual FY 2010	Actual FY 2011	BN 2013			Budget BN 2013	BN 2015		
			Actual FY 2012	Estimate FY 2013	Total		Proposed Biennial Budget		
							FY 2014	FY 2015	Total
Resources									
Beginning Fund Balance	\$ 822	\$ 929	\$ 1,291	\$ 1,797	\$ 1,291	\$ 873	\$ 2,067	\$ 1,569	\$ 2,067
Intergovernmental - Gas Tax	1,013	1,204	1,372	1,400	2,772	2,279	1,414	1,428	2,842
Intergovernmental - Grant	147	148	-	-	-	-	-	-	-
Fees & Charges - Street Maint Fee	778	792	870	902	1,772	1,759	947	994	1,941
Franchise Fees	81	83	113	115	228	252	121	127	248
Franchise Fees (dedicated to Sustainability)	20	20	-	-	-	-	-	-	-
Interest	2	1	-	-	-	8	-	-	-
Miscellaneous	65	329	171	51	222	107	52	53	105
Debt Proceeds	-	-	-	-	-	-	-	-	-
Total Resources	\$ 2,928	\$ 3,504	\$ 3,817	\$ 4,265	\$ 6,285	\$ 5,278	\$ 4,601	\$ 4,171	\$ 7,203
Requirements									
Personnel Services	\$ 410	\$ 453	\$ 490	\$ 519	\$ 1,009	\$ 1,025	\$ 582	\$ 605	\$ 1,187
Materials & Services	488	433	433	518	951	1,020	498	526	1,024
Debt Service - Series 2009	150	151	152	152	304	304	152	152	304
Transfers to Other Funds	671	659	529	550	1,079	1,079	660	683	1,343
Capital Outlay - Street Projects	280	517	382	287	669	900	993	1,040	2,033
Capital Outlay - Equipment Replacement	-	-	34	172	206	100	147	150	297
	1,999	2,213	2,020	2,198	4,218	4,428	3,032	3,156	6,188
Operations, Transfers and Capital	-	-	-	-	-	600	600	600	600
Contingency	-	-	-	-	-	250	969	415	415
Unappropriated Ending Fund Balance	929	1,291	1,797	2,067	2,067	850	1,569	1,015	1,015
	929	1,291	1,797	2,067	2,067	850	1,569	1,015	1,015
Total Requirements	\$ 2,928	\$ 3,504	\$ 3,817	\$ 4,265	\$ 6,285	\$ 5,278	\$ 4,601	\$ 4,171	\$ 7,203
Budgeted Positions (in FTEs)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Monthly Operating Costs per Capita	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6

Financial Reporting

"Capital Outlay" is reported in financial forecasts, budgets, quarterly reports, and annual reports. This line item corresponds with the annual funded totals shown in this Six Year Capital Improvement Plan (CIP).

The adoption of this CIP document provides the baseline for the capital outlay that will be included in future budget documents for the Citizens' Budget Committee to review, consider and approve, and for the City Council to formally adopt.

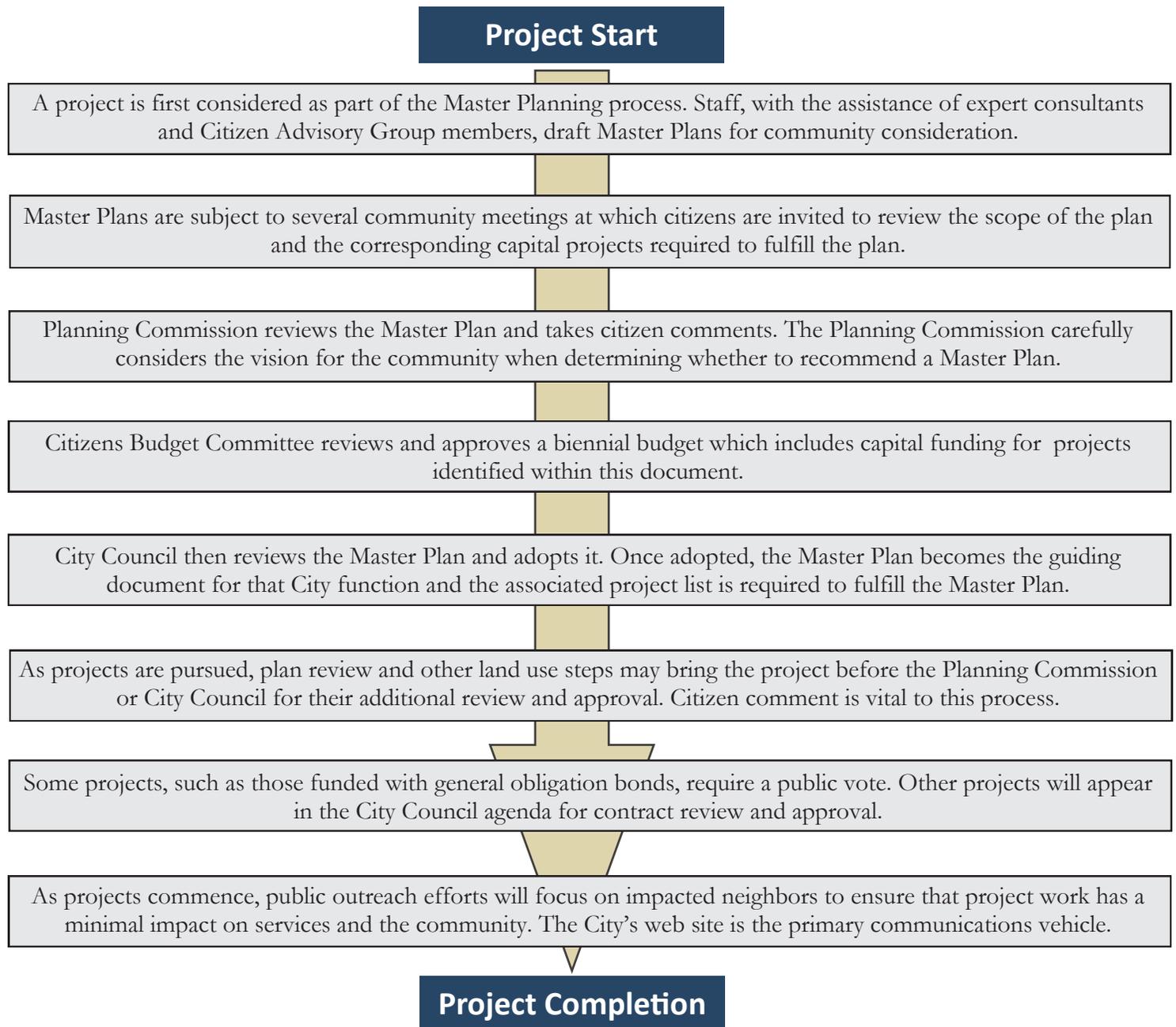
The Process of a CIP Project

Question:

How does a project get placed on the Six Year Capital Improvement Plan?

Answer:

Citizen involvement is the cornerstone of the Six Year Capital Improvement Plan. Projects are vetted through a multi-step process (see below) that includes public comment at several stages to ensure that projects meet the community's needs, in addition to expert analyses during plan development. Funding is not available for projects to begin until it is approved and adopted into the City's biennial budget.



General Fund

Overview

The General Fund is the main operating fund of the City. It accounts for and reports all financial resources not accounted for and reported in another fund.

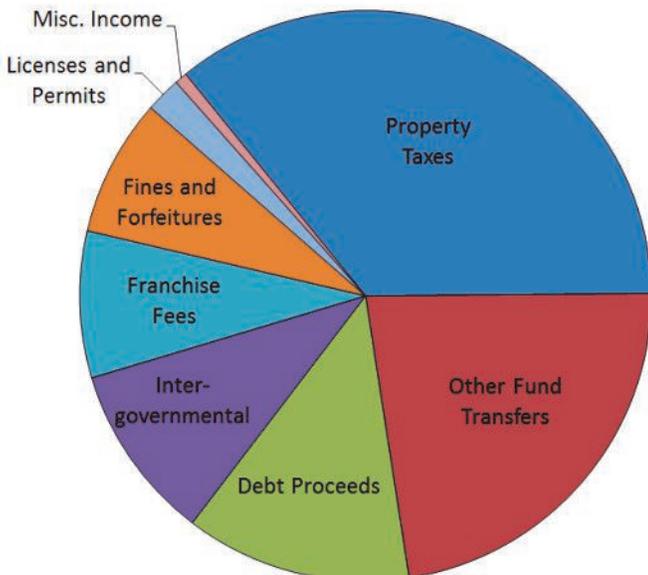
The City's General Fund accounts for the following departments:

- City Council
- City Manager
- Community Development
- Public Works Administration
- Engineering
- Facilities Management
- Finance
- Fleet Services
- Human Resources
- Information System Technology
- Municipal Court
- Planning
- Code Enforcement
- Public Access Studio
- Records and Information Management
- Police Administration, Field Services & Support
- Nondepartmental

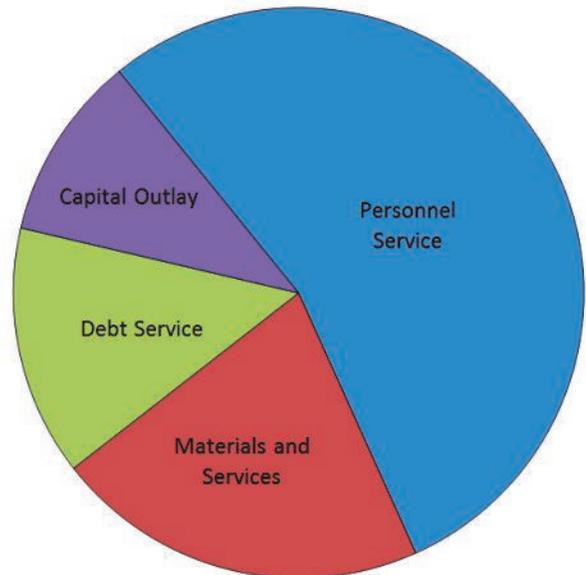
The ongoing revenue sources for the General Fund are property taxes (35.7%), reimbursement charges for services to other funds (22.7%), intergovernmental revenues (10%), franchise fees (8.3%), fines and forfeitures (7.8%), licenses and permits (2%), and miscellaneous income (0.7%). The General Fund also anticipates debt proceeds (12.8%) during the 2015-2016 biennium.

The General Fund expenditures consist of Personnel Service (54.1%) to support its 89.85 budgeted full-time equivalents (FTEs), Materials and Services (21.2%), Debt Service (14.1%) and Capital Outlay (10.5) across the 17 departments listed above.

General Fund Revenue Sources



General Fund Expenditures



Capital Projects

General Fund Summary

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
15	Police - Vehicle Replacements	100,000	100,000	100,000	100,000	100,000	100,000	600,000
15	Facilities - Exterior Paint Bertman House	10,000						10,000
16	Facilities - Exterior Structural Repairs Bertman House	10,000						10,000
16	Facilities - Brick Mortar Repair at City Hall	30,000						30,000
17	Facilities - Re-roof Public Safety Building	350,000						350,000
18	Facilities - Seal Brick on Outside of PSB	30,000						30,000
18	Facilities - Replace Caulking Windows and Doors at PSB	17,000						17,000
19	Facilities - Replace Emergency Generator at PSB	45,000						45,000
20	Public Works Admin - CMMS Upgrade	80,000						80,000
21	IST - Computer Refresh	45,000						45,000
21	IST - Enterprise WIFI Installation	38,000						38,000
22	IST - Enterprise Backup Solution	51,000						51,000
23	Public Access Studio - Replace Equipment	44,000	52,000					96,000
23	Fleet - Tool Boxes and Tire Machine	17,000						17,000
24	Fleet - Fuel Pumps and Software	35,000						35,000
25	CD - Riverfront Park Construction	2,271,000	21,000					2,292,000
26	IST - Network File Storage Capacity Expansion		15,000					15,000
27	IST - Server Virtualization Capacity Expansion		37,000					37,000
28	Library Expansion		1,000,000					1,000,000
28	Facilities - Remove Oil Tank Bertman House		10,000					10,000
31	Facilities - Replace Main Air Handler at the Library		20,000					20,000
32	Fleet - Brake Lathe		16,000					16,000
32	General Fund Department Vehicle Purchases		45,000					45,000

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General Fund

Continued from page 11

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
33	Facilities - Re-roof 40th & Harvey Office Building			70,000				70,000
33	Facilities - Install Central AC at Bertman House			20,000				20,000
34	Facilities - Replace Windows at Bertman House			50,000				50,000
34	Facilities - Pain Exterior Trim at City Hall			15,000				15,000
35	Facilities - Replace Main Floor Surface at City Hall			30,000				30,000
35	Facilities - Paint Interior Walls at JCB			15,000				15,000
36	Facilities - Replace Lighting in Fleet Shop at JCB			15,000				15,000
36	Facilities - Interior Lighting Upgrades at the Library			30,000				30,000
37	Facilities - Expand Self-Checkout at the Library			10,000				10,000
37	Facilities - Landscape Renewal at the Library			10,000				10,000
38	Facilities - Interior Paint at the Library			15,000				15,000
38	Facilities - Replace Roof Mansard at the Library			50,000				50,000
39	Facilities - Replace Windows at the Library			20,000				20,000
39	Facilities - Paint Interior (CFD1 side) at PSB			15,000				15,000
40	Facilities - Replace Suspended Ceiling at PSB			40,000				40,000
40	Facilities - Interior Paint at City Hall				30,000			30,000
41	Facilities - Pave Public Works Yard Parking Area at JCB				70,000			70,000
41	Facilities - New Concrete Floor in Pole Barn at JCB				30,000			30,000
42	Facilities - Construct Mud Room in Public Works Building at JCB				40,000			40,000
42	Facilities - Exterior Paint at all JCB Buildings				25,000			25,000
43	Facilities - Install Electronic Door Openers in the Fleet Shop at JCB				40,000			40,000

Continued on next page...

Capital Projects

Continued from page 12

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
43	Facilities - Construct Full Height Walls for the Engineering Department at JCB				30,000			30,000
44	Facilities - Book Security System at the Library				75,000			75,000
44	Facilities - Paint Interior CMU Walls at PSB				19,000			19,000
45	Facilities - Replace Cabinets at PSB				25,000			25,000
45	Fleet - Repaint Shop Floor				16,000			16,000
46	Facilities - Install Emergency Generator at City Hall					75,000		75,000
46	Facilities - Remodel Council Chambers at City Hall					30,000		30,000
47	Facilities - Construct Meeting Room at JCB					20,000		20,000
47	Facilities - Paint Exterior at the Library					20,000		20,000
48	Facilities - Remodel Restrooms at the Library					40,000		40,000
48	Facilities - Scott Park Lighting at the Library					25,000		25,000
49	Facilities - Paint Exterior Canopies at PSB					10,000		10,000
49	Facilities - Refinish Woodwork at PSB					20,000		20,000
50	Facilities - Replace Apparatus Bay Doors at PSB					16,000		16,000
50	Facilities - Replace Security System Server at PSB					15,000		15,000
51	Facilities - Remodel Council Conference Room at City Hall						20,000	20,000
51	Facilities - Remodel Restrooms at City Hall						30,000	30,000
52	Facilities - Replace HVAC System at City Hall						150,000	150,000
52	Facilities - Remodel Restrooms/Locker Rooms at JCB						35,000	35,000
53	Facilities - Upgrade Surveillance System at PSB						50,000	50,000
	Totals	3,173,000	1,316,000	505,000	500,000	371,000	385,000	6,250,000

General Fund

General Fund Unfunded

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
15	Police - Vehicle Replacement	150,000	200,000	200,000	200,000	100,000	100,000	950,000
15	Facilities - Exterior Paint Bertman House	10,000						10,000
16	Facilities - Exterior Structural Repairs Bertman House	10,000						10,000
17	Facilities - Emergency Operations Center Storage Room Reconfiguration at PSB	10,000						10,000
19	Facilities - Install Bullet Resistance Glass at PSB	60,000						60,000
20	Facilities - Vehicle Replacement	45,000						45,000
22	IST - Enterprise Security Firewall	15,000						15,000
24	Fleet - Vehicle Purchase	45,000						45,000
25	Finance - Incode Financial Suite V10 Upgrade	60,000						60,000
26	CD - Monroe Street Greenway-First Phase Improvements		100,000					100,000
27	IST - EOC Digital Smart Board Replacement		12,000					12,000
28	Library Expansion		10,000,000					10,000,000
29	Facilities - Install Wall at City Hall's Main Floor		15,000					15,000
29	Facilities - Relocate HVAC Air Intake at JCB		15,000					15,000
30	Facilities - Install Seismic Bookshelves at the Library		150,000					150,000
30	Facilities - Remodel Break Room at the Library		15,000					15,000
31	Facilities - Paint CMU Wall at PSB		35,000					35,000
32	General Fund Department Vehicle Purchases		125,000					125,000
Totals		405,000	10,667,000	200,000	200,000	100,000	100,000	11,672,000



Police - Vehicle Replacement

The Police patrol, detective, and chief’s vehicles are all on an updated replacement schedule. When the vehicle is scheduled to be replaced, it will be evaluated by our Fleet Department to see if the life of the vehicle can be extended or the vehicle needs to be replaced. The replacement schedule for the vehicles has been extended due to the quality of the vehicles being made, the down side to that is the vehicles are more difficult to work on, and it is more time consuming to repair a “little item”. The patrol cars are due to be evaluated every 6 years, the detective and police chief vehicles will be evaluated at 7 years.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	100,000	100,000	100,000	100,000	100,000	100,000	600,000
Unfunded	Capital Outlay	150,000	200,000	200,000	200,000	100,000	100,000	950,000

Operating Budget Impact

These vehicle purchases are anticipated to lower operating costs due to reduced maintenance needs of the newer model vehicles. When newer models are purchased, the maintenance time to repair a vehicle can sometimes take longer than before. For example, just to replace a headlight on the newer vehicles, the entire front bumper shield has to be removed. The Fleet shop cannot just swap out a light bulb on the license plate, without disassembling the back portion of the bumper.



Facilities - Exterior Paint Bertman House

Painting the Bertman house has been deferred to the point that the existing paint has deteriorated, and is no longer protecting the structure. Rent collected for this property offsets a portion of its maintenance cost.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	10,000						10,000
Unfunded	Capital Outlay	10,000						10,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Exterior Structural Repairs Bertman House

Replace sheeting and frame sections of the exterior structure of the house. Rent collected for this property offsets a portion of its maintenance cost.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	10,000						10,000
Unfunded	Capital Outlay	10,000						10,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Facilities - Brick Mortar Repair at City Hall

The brick mortar is porous and moisture is entering the structure. Work to repair and replace the mortar was completed last year on a portion of the building; this project completes the entire building.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	30,000						30,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



**Facilities - Emergency Operations Center
Storage Room Reconfiguration at PSB**

Expand the shelving system to provide for storage need at the EOC Storage Room at the Public Safety Building.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay	10,000						10,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Facilities - Re-roof Public Safety Building (PSB)

This project is to replace the entire roof of the Public Safety Building. The roof has been patched, but never replaced since its construction in 1991. The City is in the process of negotiating a new lease with the Clackamas County Fire District 1, who shares the building with the City. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	350,000						350,000

Operating Budget Impact

This purchase will not increase operating expenditures. This work will eliminate the need for temporary patching, with a small savings of time and money. The larger impact is related to preserving the building by maintaining the integrity of the roof system.

General Fund



Facilities - Seal Brick on Outside of PSB

The brick wall is porous and moisture is entering the structure. Work involves removing bricks and installing the correct metal flashing, and reinstalling brickwork in a section of the front wall.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	30,000						30,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Replace Caulking on Windows and Doors at PSB

The existing caulking is deteriorated and needs to be replaced. This project includes all outside window frames and doors.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	17,000						17,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Install Bullet Resistance Glass at PSB

This is a project to replace existing windows around the receptionist office at the Public Safety Building (PSB) with bullet resistant glass. The receptionist interaction area will also be modified so that initial customer contact is moved from the lobby area to a newly created interaction point in the vestibule (between the inner and outer entry doors). This replacement was scheduled for fiscal year 2013-14, work has begun with consultations with an architect, and plans have been developed.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay	60,000						60,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Replace Emergency Generator at PSB

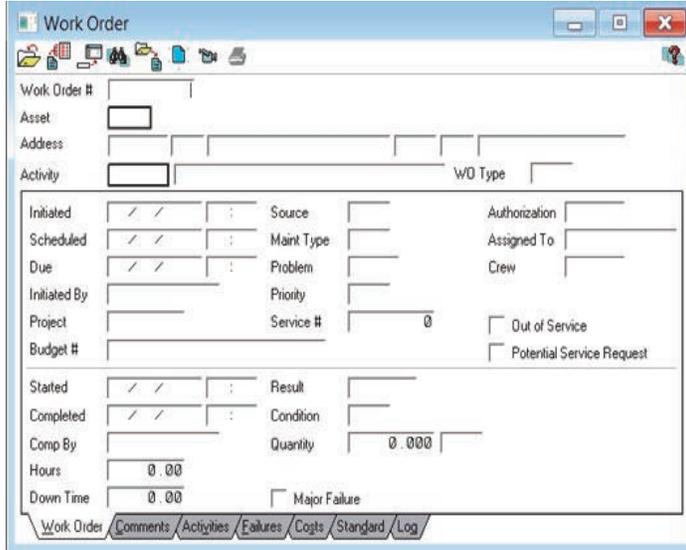
This is a project to replace the existing generator at the Public Safety Building (PSB) that provides protection from outages and supports emergency use of the facility. The existing generator is nearing the end of its life; it was installed when the building was constructed, over 20 years ago. PSB is the City’s Emergency Operations Center (EOC) site and houses both Police and Fire personnel. This replacement was scheduled for fiscal year 2013-14 and work has begun with consultations with suppliers and the City’s Planning Division as the generator will need to be relocated to suit new building code requirements. The budget shown reflects the majority of this project being paid for in fiscal year 2013-14 and the expectation that Clackamas Fire District #1 will pay their share of its cost.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay	45,000						45,000

Operating Budget Impact

This project will increase operating expenditures, the generator requires about \$2,000 per year for maintenance and fuel.

General Fund



Public Works Administration - Computerized Maintenance Management Software Upgrade

We purchased our first CMMS in 1995. At the time, it was a very competitive program. Since then, new technologies and programs have made the maintenance of municipalities' assets more efficient and with greater capabilities. Upgrading our software would allow field crews to use tablets instead of the expensive ToughBooks, have interaction between work orders and our powerful ESRI GIS system, receive email notifications, and include dashboard screens for Supervisors. An upgrade would also allow citizens to initiate service requests from their computers, tablets, or smart phones, with an option of attaching pictures. These new features are just a few available today. The City is looking to go out for competitive bid to either upgrade our current Hansen software or purchase a new CMMS.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	80,000						80,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Facilities - Vehicle Replacement

One of the two Facility Division work trucks is scheduled for replacement. The truck is a 2001 3/4-ton pickup that is used on a daily basis to travel to job sites, and pick up and carry supplies. It has exceeded the 10 year time frame for replacement of this type of vehicle because of good maintenance and low mileage. The replacement vehicle will be a 1/2-ton "Sprinter" Van that will accommodate the facility work needs better than the current vehicle, allowing for more tools to be carried, and act as a mobile work shop.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Capital Outlay	45,000						45,000

Operating Budget Impact

This project will not increase operating expenditures, as this is a replacement vehicle of similar operating cost.



IST - Computer Refresh

Starting in Fiscal Year 2013, the IST department started a 3-year computer refresh project to upgrade the desktop and laptop hardware in use by city staff. Fiscal year 2015 will be the final computer purchase to replace staff computers at the Public Safety Building, City Hall and Library.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	45,000						45,000

Operating Budget Impact

This purchase will not increase operating expenditures.



IST - Enterprise WIFI Installation

The City’s facilities excluding City Hall lack basic wireless network connectivity for staff and citizen use. Installation of a unified wireless network throughout the City’s buildings will allow for staff and citizens to take advantage of mobile devices saving the city resources currently spent on consumer wireless cellular broadband services

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	38,000						38,000

Operating Budget Impact

This purchase will not increase operating expenditures. It will reduce wireless cellular broadband services cost.

General Fund



IST - Enterprise Security Firewall

The City's primary internet firewall is nearing end of its vendor supported life. The current unit lacks some of the fundamental required capabilities for the City's future mobility, and remote access capabilities. Replacement of the security appliance before vendor support ends will maintain a high level of security for the city, and position its technology services for increased use of mobile technology improving City service delivery.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Capital Outlay	15,000						15,000

Operating Budget Impact

This purchase will not increase operating expenditures. It will reduce wireless cellular broadband services cost.



IST - Enterprise Backup Solution

The City's current data backup system no longer meets the needs of the city's data retention and recovery policies. This system has exceeded its useful life and regularly encounters system failures. Replacement of the data backup system and infrastructure will enable the City's Information Systems Technology department to utilize more advanced features necessary to protect and restore data should the need arise.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	51,000						51,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Public Access Studio - Replace Equipment

The City has a personal services agreement with Willamette Falls Media Center (WFMC) to provide the City with government access service. This service involves having a videographer operating the audio/visual (AV) room at City Hall for four meetings per month. The equipment needs replacement for government access services and for the operation of a public access program to address audio/video quality and technological changes.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	44,000	52,000					96,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Fleet - Tool Boxes and Tire Machine

The Fleet Division has scheduled to replace the tire machine and tool boxes in FY 15. Both items were purchased when the building was built around 1995, and they are both due to be replaced. The new tire machine has updated technology and is able to work with larger vehicles that will reduce the expenditures in the division.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	17,000						17,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Fleet - Vehicle Purchase

The vehicle that is due to be replaced is one of the two Fleet Department service trucks. This vehicle is a 1989 vehicle that has been in service for 24 years. This vehicle is equipped with an oil tank, oil pump, generator, hand tools, and welding tanks, which allow the mechanics to make emergency repairs in the field. This vehicle is also assigned to completing Water Well Generator quarterly maintenance in the field.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Capital Outlay	45,000						45,000

Operating Budget Impact

This purchase will not increase operating expenditures. This purchase will take the current vehicle out of service and replace it with a much newer vehicle that will be much more reliable, and reduce operating costs of in-house repairs.



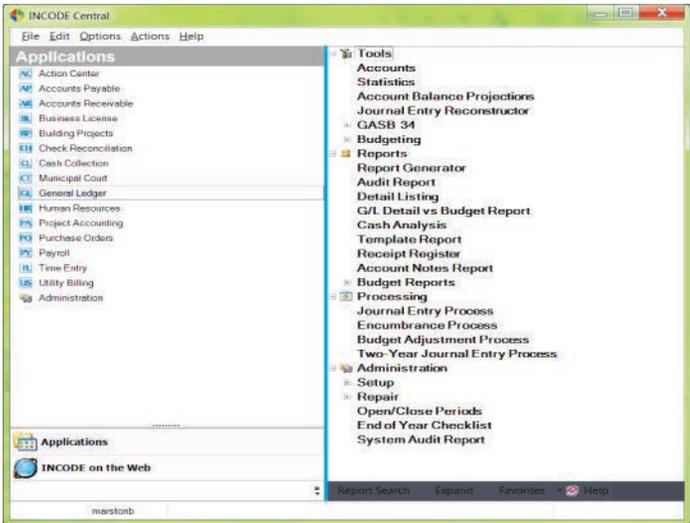
Fleet - Fuel Pumps and Software Upgrade

The current gas pumps, card reader and software were installed back in 1990 when the building was built. The fuel pumps were purchased used, and have been showing signs of wear and breakdown. The software is no longer supported and is due for an upgrade. If the system components are not scheduled and replaced, the City could face an unscheduled failure at any time, which would force the City to do an emergency repair that would cost more than a scheduled repair.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	35,000						35,000

Operating Budget Impact

This purchase will not increase operating expenditures. It will reduce wireless cellular broadband services cost.



Finance - Incode Financial Suite V10 Upgrade

Complete upgrade of the City’s financial software suite to version 10 in Incode, a Tyler Technologies product. The upgrade improves city-wide processing efficiency, sustainability and saves City funds utilizing electronic functionality.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Capital Outlay	60,000						60,000

Operating Budget Impact

This project is expected to decrease future operating expenditures.



Community Development - Riverfront Park

The Downtown and Riverfront Land Use Framework Plan, adopted in 2000, identified development of the Riverfront Park as a high priority project. The existing site contains a boat launch, parking areas and a small restroom. The completed park design will include new parking areas north and south of Kellogg Creek, a play area for children, one large and one small restroom facility, an amphitheater for performances, a festival lawn, two overlooks for river viewing and pathways for pedestrians and bikers.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	OMB Grant	1,000,000						1,000,000
Funded	OPRD Grant	80,000						80,000
Funded	Good Neighbor	1,000,000						1,000,000
Funded	Capital Outlay	191,000	21,000					212,000

Operating Budget Impact

This project will not increase operating expenditures. The maintenance of the park will continue to be handled by North Clackamas Parks and Recreation District.



Community Development - Monroe Street Greenway-First Phase Improvements

The City is using funds from an ODOT Transportation and Growth Management grant to develop a detailed concept plan for bicycle and pedestrian improvements along Monroe Street. The concept plan is intended to be consistent with the goals and policies of the City's Transportation System Plan. The 1st Phase Improvements for the Monroe Street Greenway will implement the design concepts developed under the grant and are expected to include lane striping, signage, and the application of sharrows indicating that bicycles and vehicles will share the travel lanes.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Grant		100,000					100,000

Operating Budget Impact

New striping and symbols on the street surface will increase maintenance costs. It is expected that the symbols will need to be reapplied every 5 to 10 years depending on wear.



IST - Network File Storage Capacity Expansion

Consolidate and provide additional capacity for storing the City's public records. Currently all city buildings are operating their own standalone file servers. Providing a central repository at one facility will reduce equipment and maintenance expense along with providing much needed storage capacity.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		15,000					15,000

Operating Budget Impact

This project will not increase operating expenditures.



IST - Server Virtualization Capacity Expansion

Forty five percent of the city’s servers have been migrated into a redundant virtualized infrastructure. The remaining fifty five percent are near end-of-life, and a cost savings would be gained by integrating the remaining equipment into a virtualization platform. This equipment expands the capacity of the existing virtualized environment.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		37,000					37,000

Operating Budget Impact

This project will not increase operating expenditures.



IST - EOC Digital Smart Board Replacement

The current digital smart board installed in the Primary EOC has exceeded its useful life and should be replaced with a more modern and easier to use touch panel smart board. A replacement smart board would provide additional functionality to the EOC as a conference room projection system for staff use.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Capital Outlay		12,000					12,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Library Expansion

The Milwaukie Ledding Library needs to be renovated and expanded by 22,950 sq. ft. for a total of 35,200 sq. ft. to meet current and future demands of the community.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Unfunded	Bond		10,000,000					10,000,000
Funded	Library District		1,000,000					1,000,000

Operating Budget Impact

There will be little impact to the Library's operating budget. There will be neither an increase in service hours nor an increase in staffing hours.



Facilities - Remove Oil Tank Bertman House

Remove old, unused buried heating oil tank as potential environmental hazard and liability.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		10,000					10,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.

Capital Projects



Facilities - Install Wall at City Hall’s Main Floor

Install a wall by the front entry way to control access to City Hall. This project improves security by making it possible to regulate access to the offices.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay		15,000					15,000

Operating Budget Impact

This project will not increase operating expenditures significantly.



Facilities - Relocate HVAC Air Intake at JCB

Relocate the HVAC fresh air intake at the Johnson Creek facility to move it farther from the emergency generator exhaust. Under certain conditions the existing intake pulls in air that has been affected by the emergency generator.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay		15,000					15,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Facilities - Install Seismic Bookshelves at the Library

This project is a carryover from the previous budget. The need for the seismic reinforcement of the bookshelves was identified in studies. The project has been deferred because of uncertainty over the future of the library building.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay		150,000					150,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Facilities - Remodel Break Room at the Library

The break room has not been updated since it has been used as a library (1964). This project includes upgrading the furniture as well as installing new features.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay		15,000					15,000

Operating Budget Impact

This purchase will not increase operating expenditures; a new, more efficient unit will provide lower operating costs.



Facilities - Replace Main Air Handler at the Library

This project replaces the fan unit in boiler room of the Library. The unit no longer functions at its design capacity and has been repaired several times. The need and timing of this project should be evaluated in light of the library expansion plans.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay		20,000					20,000

Operating Budget Impact

This purchase will not increase operating expenditures; a new, more efficient unit will provide a lower operating cost.



Facilities - Paint CMU Wall at PSB

This section of wall, the east exterior Concrete Masonry Unit wall at PSB, requires specific attention because of its location and type. This painting may be incorporated with other painting in the building to benefit from economy of scale. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Unfunded	Capital Outlay		35,000					35,000

Operating Budget Impact

This purchase will not increase operating expenditures.

General Fund



Fleet - Break Lathe

This purchase is an efficient tool for curing noise and vibration problems, often prolonging the life of brake systems. Basically, brake lathes correct thickness variations on the rotor, a common condition caused by chronic or uneven contact of the brake pad on the rotor surface or rust on the rotor surface. Currently the Fleet shop has an older style lathe. The older style lathe is only able to complete smaller vehicles, such as cars, and all larger vehicles have to be sent out to a private shop.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		16,000					16,000

Operating Budget Impact

This purchase will not increase operating expenditures. This purchase will decrease operating expenditures by allowing our mechanics to complete some of the work in-house instead of sending it out to a private shop. The shop currently spends about \$5,564 per year on brake work that could be done in shop with the purchase of a brake lathe.



General Fund Department Vehicle Purchases

The vehicles that are scheduled to be replaced are an Engineering Van (\$35,000), one of the Facilities Department service trucks (\$45,000), the Asset Management Technician service truck (\$45,000) and a Fleet Department service truck (\$45,000).

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		45,000					45,000
Unfunded	Capital Outlay		125,000					125,000

Operating Budget Impact

Replacing vehicles with newer models reduces expenditures the majority of the time because they are not replacing items as frequent, but when replacing vehicles with newer models some expenditures will increase, like hours spent to repair an item, due to not having the ability to repair items quickly like in the past. The newer vehicles are of better quality, but it is more difficult to replace simple things such as headlights and keys. For example, a portion of the bumper must be removed to replace headlights now, and all of the keys that come with the vehicles are computerized and the replacement cost is at least \$200 per key.



Facilities - Re-roof 40th & Harvey Office Building

This project is to replace the entire roof of the office building most recently occupied by North Clackamas Parks at the 40th and Harvey site. The roof has been patched but is over 30 years old and in poor condition.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			70,000				70,000

Operating Budget Impact

This purchase will not increase operating expenditures. This work will eliminate the need for temporary patching, with a small savings of time and money. The larger impact is related to preserving the building by maintaining the integrity of the roof system.



Facilities - Install Central AC at Bertman House

Install central air conditioning and repair HVAC ducting. Air conditioning is currently provided by window mounted units. This upgrade would be incorporated with the heating system.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			20,000				20,000

Operating Budget Impact

This purchase will lower operating expenditures with an energy efficient unit replacing window mounted units.

General Fund



Facilities - Replace Windows at Bertman House
Existing windows are in poor shape, and structural damage from rain entry is beginning to become apparent.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			50,000				50,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment



Facilities - Paint Exterior Trim at City Hall
Painting is needed as part of normal maintenance practice. This project includes all preparation and application.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			15,000				15,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment



Facilities - Replace Main Floor Surface at City Hall

Replace vinyl floor on main level. This project is for normal maintenance. The floor was installed 1996 and will be at the end of its serviceable life.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			30,000				30,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Paint Interior Walls at JCB

Paint the interior walls in the Admin area of the front office at the Johnson Creek Community Development Building as part of normal maintenance.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			15,000				15,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Facilities - Replace Lighting in Fleet Shop at JCB

Replace the inefficient and outdated lighting in the Fleet shop as part of normal maintenance practice.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			15,000				15,000

Operating Budget Impact

This project will not increase operating expenditures significantly and with more efficient lights installed, lower electricity costs will result.



Facilities - Interior Lighting Upgrades at the Library

This project replaces the interior lighting system in the Library as part of the normal maintenance schedule.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			30,000				30,000

Operating Budget Impact

This project will not increase operating expenditures. The new fixtures will be more efficient and lower operational costs.



Facilities - Expand Self-Checkout at the Library
 Front counter modification to allow for additional self-checkout capacity.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay			10,000				10,000

Operating Budget Impact

This purchase will not increase operating expenditures significantly and provides for efficiency in checking out patrons.



Facilities - Landscape Renewal at the Library
 Restore and update landscaping at the Library.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay			10,000				10,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.

General Fund



Facilities - Interior Paint at the Library

Paint interior walls in the Library as part of normal maintenance practice.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay			15,000				15,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Replace Roof Mansard at the Library

Replace the cedar shingle roof on the Library Mansard.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay			50,000				50,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.



Facilities - Replace Windows at the Library

Existing windows on the old house section of the building are nearing end of life and need to be replaced.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			20,000				20,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment. The new windows will improve energy savings.



Facilities - Paint Interior (CFD1 side) at PSB

Repaint the interior of the CFD1 space. This work is partially completed and noted in the 2009 Facility Assessment Report. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			15,000				15,000

Operating Budget Impact

This purchase will not increase operating expenditures and protects the existing investment.

General Fund



Facilities - Replace Suspended Ceiling at PSB

This project is to replace the ceiling tiles throughout the Public Safety Building. This project is recommended in the 2009 Facilities Report.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay			40,000				40,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Facilities - Interior Paint at City Hall

Repaint interior walls within City Hall as part of normal maintenance practice. Individual offices are repainted as needed for various reasons including use and décor.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				30,000			30,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Pave Public Works Yard Parking Area at JCB

Complete the paving of the parking area in the PW yard. A portion of the area is surfaced with gravel, a source of dust and frequent maintenance. Paving this surface was anticipated and the impervious surface mitigated with the construction of the swale in the front parking lot in 2010.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				70,000			70,000

Operating Budget Impact

This project will not increase operating expenditures significantly. It adds to the pavement maintenance budget, a cost which is offset by the cost to maintain the gravel surface.



Facilities - New Concrete Floor in Pole Barn at JCB

Construct new concrete floor for utility truck parking in the pole barn at the Johnson Creek facility (operations yard). The paved floor is worn out and does not support the weight of the public work vehicles.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				30,000			30,000

Operating Budget Impact

This project will not increase operating expenditures significantly.

General Fund



Facilities - Construct Mud Room in Public Works Building at JCB

Construct a room that will be used to remove muddy boots and outerwear. The locker room is currently used for this function, but it was not designed appropriately.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				40,000			40,000

Operating Budget Impact

This project will not increase operating expenditures significantly.



Facilities - Exterior Paint at all JCB Buildings

Paint the exterior surfaces of the buildings that make up the Johnson Creek facility. This project is part of normal maintenance practice.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				25,000			25,000

Operating Budget Impact

This project will not increase operating expenditures, and provides protection to the building structure.



Facilities - Install Electronic Door Openers in the Fleet Shop at JCB

This project will replace the current seven manual opening doors with electronic operating doors. This purchase will reduce the amount of time used to manually open the doors and greatly reduce the possibility of back injury.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				40,000			40,000

Operating Budget Impact

This project will not increase operating expenditures significantly with a small amount of additional electricity and maintenance time needed.



Facilities - Construct Full Height Walls for the Engineering Department at JCB

Construct full height walls to provide a sound and visual barrier for the engineering area at the Johnson Creek facility. This project was anticipated when the area was remodeled in 2009.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				30,000			30,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Facilities - Book Security System at the Library

Project is to install a book security system. This is a project that was first considered for the 2006 budget. The library expansion project will likely incorporate this project.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				75,000			75,000

Operating Budget Impact

This project will not increase operating expenditures significantly.



Facilities - Paint Interior CMU Walls at PSB

Paint the interior CMU wall surfaces in the CFD1 area of the Public Safety Building as recommended in the 2009 Facility Assessment report. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				19,000			19,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Replace Cabinets at PSB

Replace all the cabinets in the Public Safety Building as recommended in the 2009 Facility Assessment Report. This is part of normal maintenance work.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				25,000			25,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Repaint Shop Floor

This project consists of stripping the original paint from 1994, when the building was first built and repainting the concrete floor and replacing all walkway strips and work zone strips.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				16,000			16,000

Operating Budget Impact

This project will not increase operating expenditures. This project is anticipated to create a safe and cleaner working environment due to missing paint and stripping on the shop floor.

General Fund



Facilities - Install Emergency Generator at City Hall

Install a generator at City Hall for protection from outages and emergency use. The other office buildings in the City, PSB and JCB, are served by generators for backup power. City Hall is a backup EOC site and houses the City's key administrative offices.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay					75,000		75,000

Operating Budget Impact

This project will increase operating expenditures, the generator requires about \$2,000 per year for maintenance and fuel.



Facilities - Remodel Council Chambers at City Hall

Remodel the Council Chambers at City Hall as part of normal maintenance practice. Work includes updating/replacing furniture and flooring.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay					30,000		30,000

Operating Budget Impact

This project will not increase operating expenditures.



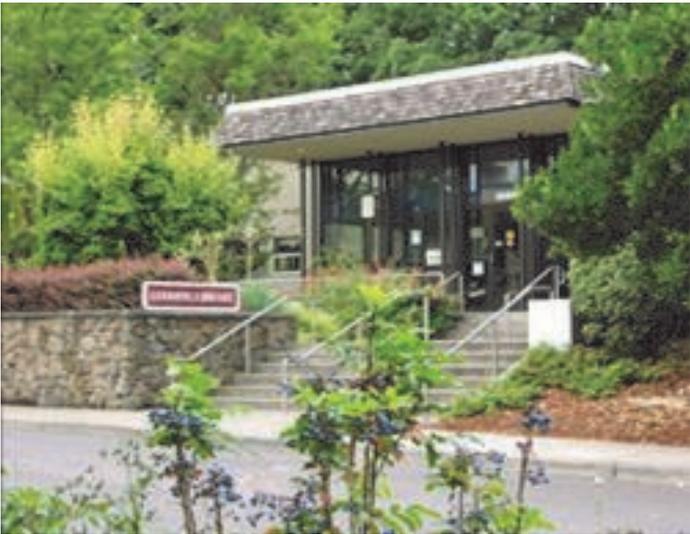
Facilities - Construct Meeting Room at JCB

Construct a new meeting room in the second floor of the Operations building at JCB. Intended to alleviate meeting space shortage. This is a project that has been deferred for a few years. The need for the project should be reviewed.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					20,000		20,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Paint Exterior at the Library

Paint entire exterior wall surface of Library. This project is part of the normal maintenance schedule.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					20,000		20,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Facilities - Remodel Restrooms at the Library

Remodel the Library restrooms as part of normal maintenance schedule. This project includes an update of the fixtures, new flooring and painting.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					40,000		40,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Scott Park Lighting at the Library

Install a new lighting system in Scott Park. The existing system does not provide adequate lighting for security purposes. This project may be affected by library expansion.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					25,000		25,000

Operating Budget Impact

This project will not increase operating expenditures. The new lights are anticipated to be more energy efficient.



Facilities - Paint Exterior Canopies at PSB

Paint the outside canopies of the apparatus bay doors at the Public Safety Building as part of the normal maintenance schedule. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					10,000		10,000

Operating Budget Impact

This project will not increase operating expenditures and protects the building structure.



Facilities - Refinish Woodwork at PSB

Refinish woodwork within offices and walls at the Public Safety Building as part of normal maintenance.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					20,000		20,000

Operating Budget Impact

This project will not increase operating expenditures and protects the building structure.

General Fund



Facilities - Replace Apparatus Bay Doors at PSB

Replace the apparatus bay doors and openers at the Public Safety Building as recommended by the 2009 Facility Assessment Report. Lease payments from CFD1 help offset the cost of capital improvements that benefit them such as this one.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					16,000		16,000

Operating Budget Impact

This project will not increase operating expenditures and protects the building structure.



Facilities - Replace Security System Server at PSB

Replaces the security server in the Public Safety Building as part of the normal maintenance schedule. This server provides for the access card entry and other security features for all City buildings.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					15,000		15,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Remodel Council Conference Room at City Hall

Remodel the Council conference room at City Hall as part of normal maintenance practice. Work includes updating/replacing furniture and flooring.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay						20,000	20,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Remodel Restrooms at City Hall

Remodel the City Hall (main and second floors) restrooms as part of the normal maintenance schedule. Work involves updating fixtures as needed, replace floor, and repaint walls.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay						30,000	30,000

Operating Budget Impact

This project will not increase operating expenditures.

General Fund



Facilities - Replace HVAC System at City Hall

Replace the HVAC for City Hall as part of the normal maintenance schedule. The current system was installed in 2000 and is expected to be replaced on a 20-year cycle.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay						150,000	150,000

Operating Budget Impact

This project will not increase operating expenditures. A newer unit will be more efficient and provide operational savings.



Facilities - Remodel Restrooms/Locker Rooms at JCB

Remodel all the restrooms and locker rooms at the Johnson Creek facility as part of the normal maintenance schedule.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay						35,000	35,000

Operating Budget Impact

This project will not increase operating expenditures.



Facilities - Upgrade Surveillance System at PSB

Upgrade the video surveillance system for the Public Safety Building as part of normal maintenance schedule. Replace non-working cameras.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay						50,000	50,000

Operating Budget Impact

This project will not increase operating expenditures.



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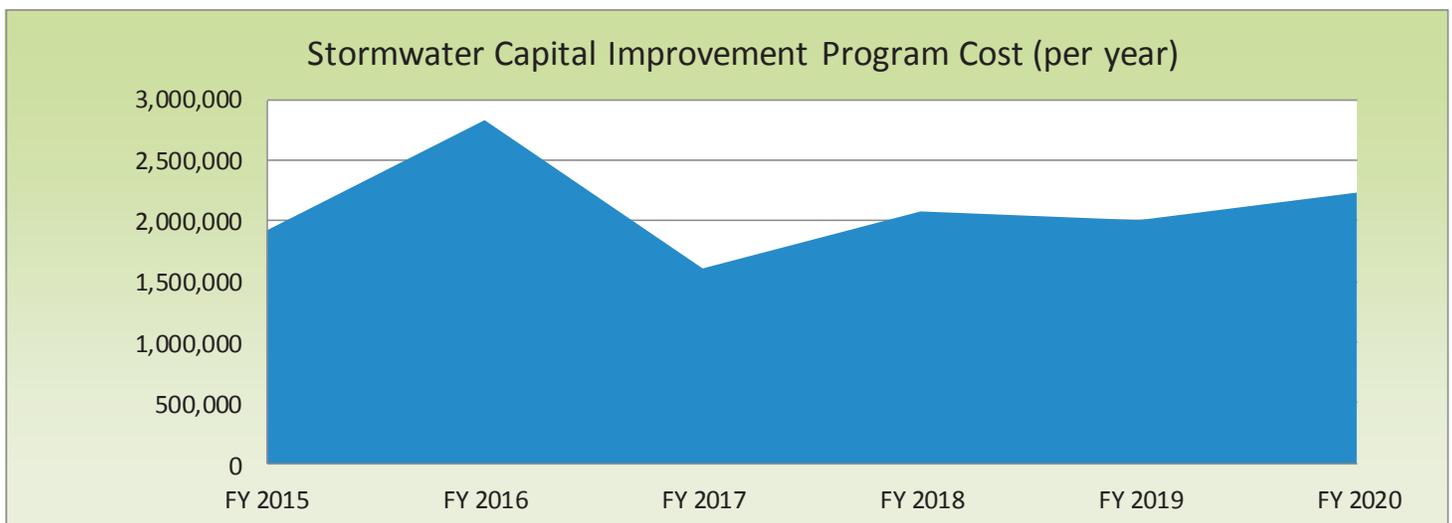
Overview

The Stormwater system includes 41 miles of pipe, 1,606 catch basins, 559 manholes, 124 sedimentation manholes, 4 water quality manholes, 210 drywells, 126 outfalls, 5 water quality/flood control facilities (detention ponds) and 11 control structures.

Treatment for the City's stormwater system is required by Federal (Clean Water Act) and State law. The City has steadily built the stormwater utility beginning with an utility rate that was implemented in the early 1990's and the need to properly manage stormwater runoff was just being addressed. Today the stormwater utility is focused on maintaining the infrastructure in a manner that recognizes the correlation with runoff and the environment.

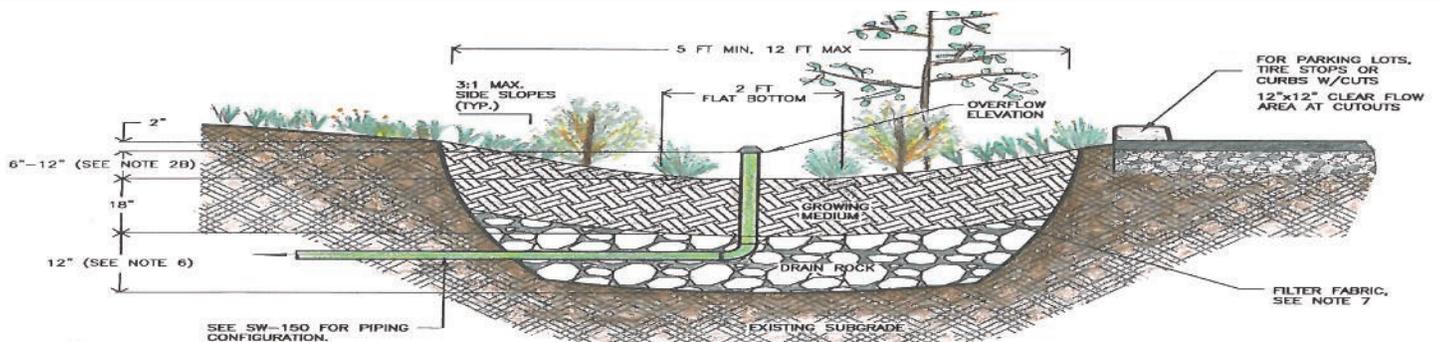
An update of the Stormwater Master Plan is currently underway with completion planned for next spring. This update will include a new look at the capital improvement need for the utility. The current project list has been prepared anticipating that the updated master plan will address infrastructure replacement but of course lacks the detail that will be provided by the updated master plan.

Primary capital needs involve modification of the drywells or (UICs) so that they are not detrimental to the aquifer. This means providing pretreatment of the runoff flowing to the drywells in addition to regular inspection and maintenance. There are also several areas with localized flooding issues. One of these areas, in the Linwood neighborhood along Stanley Avenue, is being addressed in this budget with a two phase project. Other areas are addressed with local infiltration facilities constructed by the storm crew outside of the capital outlay funding.



Stormwater Summary

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
56	36th Avenue Stormwater Improvements	105,000						105,000
56	47th Avenue and Llewellyn Street Stormwater Improvements	160,000						160,000
57	Stanley Avenue Pipe Replacement	1,200,000						1,200,000
57	55th Avenue and Monroe Street Stormwater Improvements	25,000						25,000
58	Stormwater Vehicle Purchases	455,000	209,000	57,000	87,000	55,000	32,000	895,000
58	Kellogg Creek Dam Removal		1,004,000					1,004,000
59	Meek Street Pipe Installation		1,550,000	1,550,000				3,100,000
59	Upgrade TV Van Computer		23,000					23,000
60	Stormwater Transporter and Camera Replacement		43,000					43,000
60	Hemlock Street Pipe Replacement				560,000			560,000
61	Linwood Elementary Pipe Replacement				470,000			470,000
61	Plum and Apple Street Pipe Installation				180,000			180,000
62	Stormwater Capital Maintenance Program				780,000	780,000	780,000	2,340,000
62	Washington Street Pipe Replacement					1,000,000	800,000	1,800,000
63	Willow Street Detention Pond Retrofit					70,000		70,000
63	Stanley-Willow UIC Decommissioning					100,000		100,000
64	Harrison Street Outfall						620,000	620,000
Totals		1,945,000	2,829,000	1,607,000	2,077,000	2,005,000	2,232,000	12,695,000



Stormwater Division



36th Avenue Stormwater Improvements

This project will install new underground injection control devices or raingardens on 36th Avenue north of King Road to prevent routine flooding.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	105,000						105,000

Operating Budget Impact

This project will reduce operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



47th Avenue and Llewellyn Street Stormwater Improvements

This project will install new underground injection control devices or raingardens at the intersection of 47th Avenue and Llewellyn Street. This intersection routinely floods because the existing infrastructure is under capacity.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	160,000						160,000

Operating Budget Impact

This project will reduce operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



Stanley Avenue Pipe Replacement

This project will replace storm pipe from Railroad Avenue to Lloyd Street on Stanley Avenue. The project also extends storm pipe on Lloyd Street to decommission 3 problematic drywells.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	1,200,000						1,200,000

Operating Budget Impact

This project will reduce operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



55th Avenue and Monroe Street Stormwater Improvements

This project will install new underground injection control devices or raingardens on 55th Avenue and Monroe Street. This intersection routinely floods because the existing infrastructure is under capacity.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	25,000						25,000

Operating Budget Impact

This project will reduce operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.

Stormwater Division



Stormwater Vehicle Purchases

In FY 2015, the department will participate in their portion of purchasing some of the shared vehicles such as dump trucks, loaders and backhoes totaling \$120,000, and replacing the TV Van for \$140,000; Storm will also participate in the purchase of a new Vactor contributing \$195,000. In FY 2016 a 3/4-ton service truck is due to be replaced for \$45,000 and \$163,750 for shared vehicles. In FY 2017 a one-ton service truck for \$45,000 and they will also participate in purchasing shared vehicles in the amount of \$11,250. In FY 18 a new 3/4-ton service truck for \$45,000 and shared vehicles will be replaced for the department at the cost of \$41,250. In FY 2019 some shared vehicles for \$55,000 and in FY 2020 some shared vehicles totaling \$31,250.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	455,000	209,000	57,000	87,000	55,000	32,000	895,000

Operating Budget Impact

These purchases will not increase operating expenditures.



Kellogg Creek Dam Removal

This project will remove the Kellogg Dam, address contaminated sediments, re-establish fish passage, and restore riparian habitat for endangered salmon and native wildlife. The stormwater fund contributes minimal funding to fund necessary environmental studies as the waterway is an important stormwater feature.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	STIP Grant		1,004,000					1,004,000

Operating Budget Impact

Unknown at this time



Meek Street Pipe Installation

This project will install new 36-inch storm pipe from Boyd Street south to Monroe Street along with two detention facilities totaling 1 acre in size.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		1,550,000	1,550,000				3,100,000

Operating Budget Impact

This project will increase operating expenditures due to the added expense of maintaining the additional pipe and detention ponds. However, this project will also reduce the amount of emergency maintenance on Harrison Street due to flooding caused by its undersized system.



Upgrade TV Van Computer

This upgrade is for the Summit Wireless system which is the latest generation operating system for the remote TV system we use. The Summit Wireless system has many improvements and replaces all the desk mount controllers with a single handheld pendant controller. The pendant controller is operational from anywhere in or around the van and allows for single person operation of the vehicle if needed. This system does away with the slow interface to GXP by eliminating the ProData system used currently by the city. In addition, it allows for instant troubleshooting in a variety of modes. All of this will increase production and decrease down time.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		23,000					23,000

Operating Budget Impact

This purchases will not increase operating expenditures.

Stormwater Division



Stormwater Transporter and Camera Replacement

The department uses CCTV to video inspect all of the City owned storm sewer mains. The camera equipment has been used for over 13 years and is now due to be replaced. Steerable Pipe Ranger (SPR) body, motor, and camera lifts: The SPR is a 6-wheel drive, fully steerable wheeled transporter designed for 8”-60” pipe sizes. The steering feature is a critical upgrade for increased productivity as it allows for passage through curved manhole troughs so greater distance can be achieved in single set ups. In addition to the increase in footage per day, the SPR’s steering feature also allows for movement around obstacles in larger pipe, and can mitigate flip page in the pipe as the operator can center the transporter back at the bottom of the pipe if it starts to climb a side wall. This feature can eliminate the potential for dig ups to retrieve a flipped over, stuck transporter. The camera lift is electronic, and allows the operator to raise and lower the camera while mounted on the SPR, above the flow line as they enter sags in pipes. It is also for optimal camera placement in center line of pipe for greatest use of lighting.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		43,000					43,000

Operating Budget Impact

This purchase will decrease operating expenditures. As the equipment is heavily used and has multiple facets it frequently breaks down and needs repair. At times the department can complete in house repairs, but most of the time the equipment needs to be shipped to California or Florida to the sole source vendor for repairs.



Hemlock Street Pipe Replacement

This project will replace existing storm pipe on Hemlock and Cedarcrest Streets. The existing pipe is undersized and currently floods in heavy rain events.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				560,000			560,000

Operating Budget Impact

Since this project replaces existing undersized pipe, there will be a net reduction in operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



Linwood Elementary Pipe Replacement

This project will replace the existing undersized storm pipe that runs across the Linwood Elementary School property from Linwood Avenue to Stanley Avenue.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				470,000			470,000

Operating Budget Impact

This project replaces existing stormwater pipe and will not generate additional costs to the operating budget.



Plum and Apple Street Pipe Installation

This project will install new 12-inch stormwater pipe from the intersection of Plum and Apple Streets to the intersection of Juniper and Aspen Streets.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				180,000			180,000

Operating Budget Impact

Since this project replaces existing undersized pipe, there will be a net reduction in operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.

Stormwater Division



Stormwater Capital Maintenance Program

This yearly project will begin to replace Milwaukie’s aging stormwater infrastructure. Complete replacement of the City’s system is set to a 75-year cycle.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay				780,000	780,000	780,000	2,340,000

Operating Budget Impact

This project will reduce the operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



Washington Street Pipe Replacement

This project will replace existing 18-inch pipe in Washington Street with 24-inch pipe. The current pipe system is under capacity and will flood under 10-year rain events.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay					1,000,000	800,000	1,800,000

Operating Budget Impact

This project will reduce operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



Willow Detention Pond Retrofit

This project will retrofit the existing Willow Street detention pond to incorporate a water quality component. The City’s NPDES MS4 Permit requires a water quality retrofit project be identified and constructed with the permit term.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay					70,000		70,000

Operating Budget Impact

This project will increase operating expenditures because the pond will require more attention once the treatment component is installed.



Stanley-Willow UIC Decommissioning

This project will decommission two sub-standard drywells along Stanley Avenue and construct new storm pipe on Stanley Avenue from Hill Street to Ball-Michel Park.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay					100,000		100,000

Operating Budget Impact

This project will increase operating expenditures due to additional maintenance of the stormwater pipe conveyance system.

Stormwater Division



Harrison Street Outfall

This project replaces the existing 24-inch storm pipe in Harrison Street between 21st Avenue and the outfall into Johnson Creek with 36-inch pipe. This section currently floods in 10-year storm events.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay						620,000	620,000

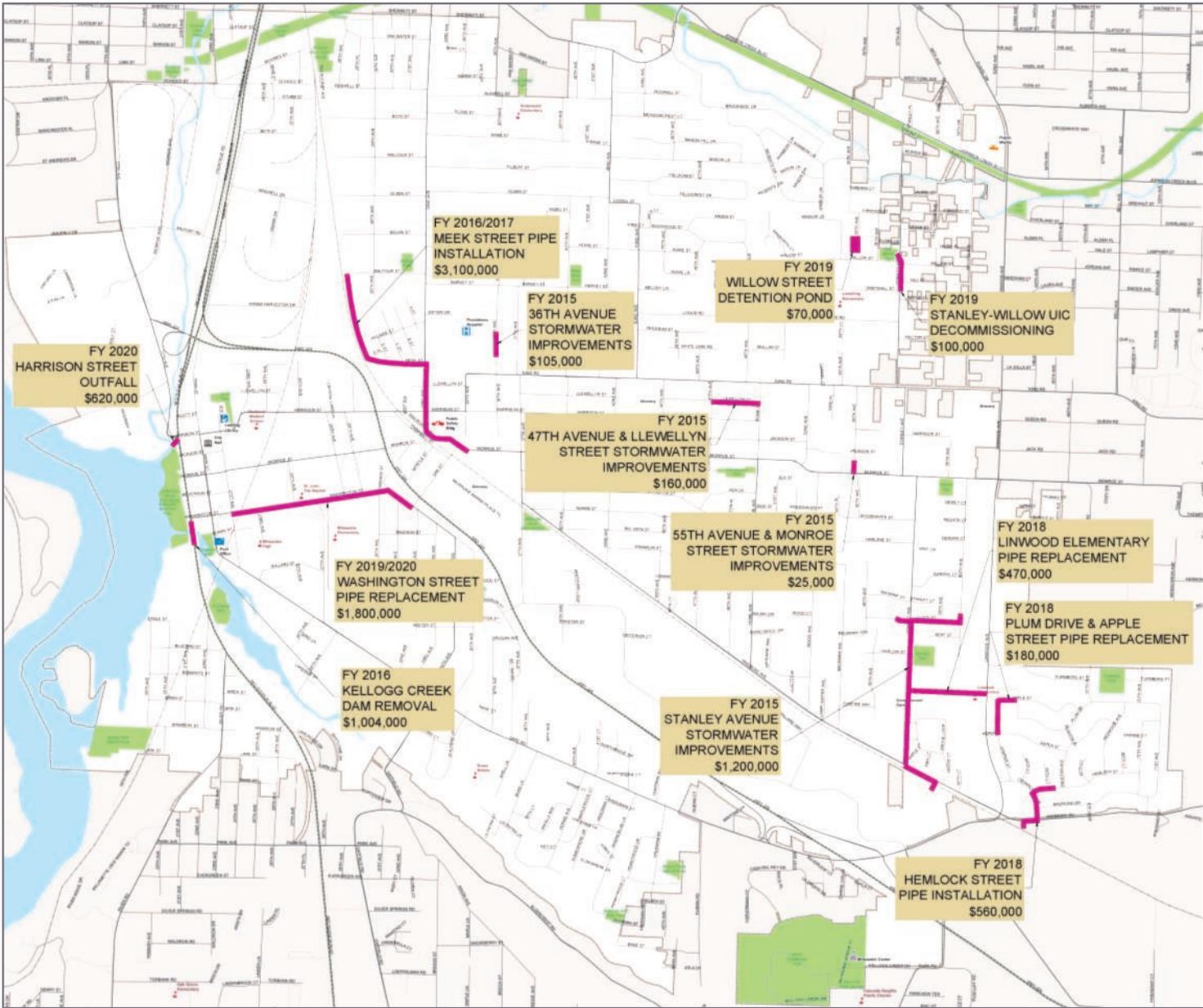
Operating Budget Impact

This project will reduce the operating expenditures because stormwater crews are routinely called to this area to help alleviate flooding.



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Stormwater Projects Map



Overview

Milwaukie's Transportation system includes over 148 lane miles of pavement, 10.2 miles of bike lanes, 50 miles of sidewalk and 510 acres of right-of-way that must constantly be maintained and upgraded to safely and efficiently serve all modes of traffic.

Funding

The City of Milwaukie relies on a variety of funding sources for maintaining and improving its transportation infrastructure. Most of these sources are constrained, meaning that they can only be used for a specific function like expanding the system's capacity, paving streets, or building bicycle facilities. The funds also flow into Milwaukie from a variety of sources, most of which are tax based and administered through different levels of government and through different mechanisms.

Funding Sources

1. Grants
2. City share of State Highway Trust Fund
3. Local Funds—Fees and Taxes
 - Franchise Fees
 - PGE Privilege Tax
 - Local Gas Tax
 - Street Surface Maintenance Fee
 - Local Improvement Districts (LID's)
4. Local Funds—Development Contributions
5. System Development Charges (SDC's)
6. Fee in Lieu of Construction (FILOC)

**Table 13-1 Projected Transportation Revenue
for the 22-Year Planning Period (in 2012 dollars)**

Funding Source	Capital	Unrestricted	Maintenance	TOTAL
SDC and FILOC ²	\$1,190,100			\$1,190,100
Franchise Fees		\$23,716,000		23,716,000
State Gas Tax		26,887,000		26,887,000
Bike Path Fund		271,600		271,600
Street Maintenance Fee			\$13,420,000	13,420,000
PGE Privilege Tax			7,744,000	7,744,000
Local Gas Tax			4,356,000	4,356,000
Other Revenue		60,000		\$60,000
Projected Revenue (2014 to 2035)³	\$1,190,100	\$50,934,600	\$25,520,000	\$77,644,700

Streets Summary

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
70	Street Surface Maintenance Program - Paving	550,000	1,250,000	1,000,000	1,000,000	1,000,000	1,000,000	5,800,000
70	Street Surface Maintenance Program - Preventative Maintenance	65,000	65,000	65,000	65,000	65,000	65,000	390,000
71	Adams Street Connector	375,000						375,000
71	17 th Avenue Multi-Use Trail	3,190,000						3,190,000
72	Transportation Vehicle Purchases	100,000	64,000	67,000	142,000	175,000	32,000	580,000
72	Transportation Department Crack Seal Machine	70,000						70,000
73	Kellogg Lake Multi-Use Bridge	200,000						200,000
73	Transportation Department Asphalt Grinder & Trench Paver Machines		50,000					50,000
74	Transportation Department Asphalt Recycler						50,000	50,000
Totals		4,550,000	1,429,000	1,132,000	1,207,000	1,240,000	1,147,000	10,705,000

Figure 13-1 Projected Transportation Revenue for the 22-Year Planning Period (in 2012 dollars)

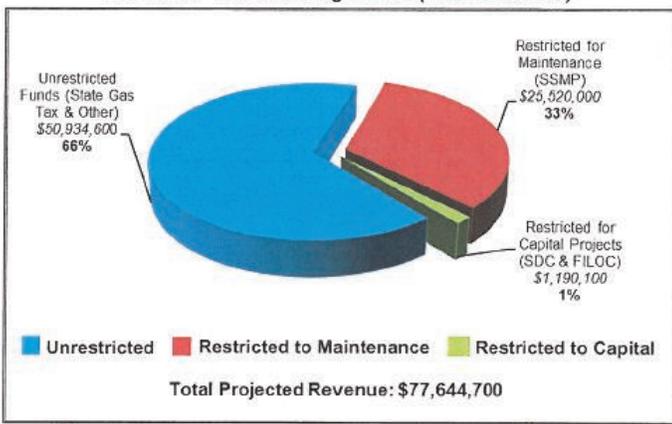


Figure 13-2 Projected Transportation Costs for the 22-Year Planning Period (in 2012 dollars) ⁶

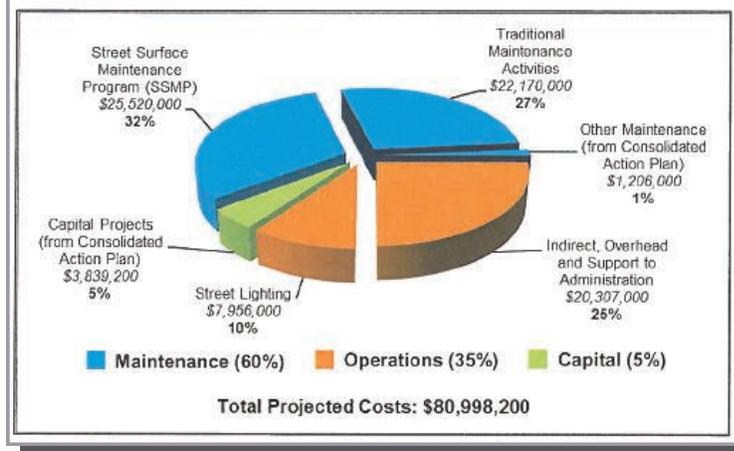


Table 13-1, Figure 13-1 and 13-2 were sourced from the City's Transportation System Plan as updated on December 19, 2013.

Streets Division

The Consolidated Action Plan, listed below, was sourced from the City's Transportation System Plan (Table 13-3). The list combines all of the high priority projects from each mode for easy reference. Generally, these projects do not have identified funding sources. However, if a funding source such as a grant becomes available, it is understood that these projects would be given the most preference. For more details about each project, please see the City's Transportation System Plan.

Transportation Mode	Project Name	From	To	Project Cost
Pedestrian and Bicycle	17th Avenue Improvements	Ochoco St.	McLoughlin Blvd.	1,000,000
Pedestrian, Bicycle, and Public Transit	Railroad Avenue Capacity Improvements	37th Ave.	Linwood Ave.	6,600,000
Pedestrian and Bicycle	Monroe Street Neighborhood Greenway	37th Ave	Linwood Ave.	2,130,000
Pedestrian and Bicycle	Kellogg Creek Dam Removal and HWY 99E Underpass	Location Specific	Location Specific	9,900,000
Pedestrian and Bicycle	McLoughlin Blvd. and 22nd Ave. Improvements	Location Specific	Location Specific	200,000
Pedestrian and Bicycle	Stanley Avenue Neighborhood Greenway (North)	Johnson Creek Blvd.	King Road	2,035,000
Pedestrian and Bicycle	Stanley Avenue Neighborhood Greenway (South)	King Road	Railroad Ave.	2,995,000
Pedestrian and Bicycle	Kronberg Park Trail	Kellogg Creek Bridge	River Rd. and 99E	300,000
Pedestrian and Bicycle	Kellogg Creek Bike/Ped Bridge	Lake Rd.	Kronberg Park	2,500,000
Pedestrian and Bicycle	Intersection Improvements at HWY 224 Crossings	Location Specific	Location Specific	120,000
Pedestrian	Study Pedestrian Crossing of HWY 224	Harrison St.	Freeman Way	50,000
Pedestrian	Adams Street Connector	21st Ave.	Main St.	450,000
Pedestrian	Linwood Ave. Sidewalks (South)	King Rd.	Railroad Ave.	2,150,000
Bicycle	29th/Harvey/40th Neighborhood Greenway	Springwater Trail	Monroe St.	220,000
Public Transit	Downtown Transit Center Improvements	Location Specific	Location Specific	1,250,000
Public Transit	Downtown Bus Loop	Downtown	Light Rail Stations	TBD
Public Transit	Neighborhood Bus Loop	Eastern City Limits	Downtown	TBD
Parking	Downtown Parking Management	Downtown	Downtown	40,000
Parking	Downtown Parking Signage	Downtown	Downtown	10,000
Neighborhood Traffic Management	Walk Safely Milwaukie Program	Citywide	Citywide	13,000/year
Street and Freight	HWY 224 and HWY 99E Refinement Plan	City Limits	City Limits	270,000
Bicycle	Bike Lane Maintenance	Citywide	Citywide	1,200,000



Streets Division



Street Surface Maintenance Program — Paving

This paving program which began in 2006, set out to resurface or reconstruct all of the City’s arterials and collectors. Once the original goal is completed, the program will begin to focus on the City in a more holistic manner. Addressing the needs that are the most cost effective to the entire network. Monroe Street is scheduled for FY 2015, and Railroad Avenue Paving is scheduled for FY 2016.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	550,000	1,250,000	1,000,000	1,000,000	1,000,000	1,000,000	5,800,000

Operating Budget Impact

This project will reduce operating expenditures by fixing routine trouble spot areas throughout the City.



Street Surface Maintenance Program — Preventative Maintenance

The purpose of this program is to surface treat streets in a “good” condition prior to them needing a grind and inlay (or overlay). By sealing cracks and surface sealing worn asphalt, the City can prolong the life of its streets thus reducing the need for more costly measures.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	65,000	65,000	65,000	65,000	65,000	65,000	390,000

Operating Budget Impact

This project will reduce maintenance operating expenditures by providing a short-term wearing course on the streets and reduce the potential for potholes and surface cracking.



Adams Street Connector

The Adams Street Connector is also part of the city’s adopted South Downtown Concept Plan, which envisions Milwaukie’s small south downtown area as a reinvigorated live/work district within an easy walk of the Willamette River, Kellogg Creek, downtown Milwaukie and every place outside Milwaukie via the MAX system. Once completed, the Adams Street Connector Project will link Milwaukie’s future downtown light rail station with Main Street and represent the first completed project of the South Downtown Concept Plan. The project is funded with Metro \$450,000 in regional flexible transportation funds.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Metro Grant	325,000						325,000
Funded	Capital Outlay	50,000						50,000

Operating Budget Impact

This project will not increase operating expenditures.



17th Avenue Multiuse Trail

Originating from the City’s Transportation System Plan. This high priority project was selected by Metro to receive Regional Flex Funds allocation. Once completed, the trolley trail (that currently terminates at Riverfront Park will be extended to Ochoco Street (or the Springwater Corridor). Currently conceptual, the project plans to address many ADA concerns along 17th Avenue while providing a safe place for non-experienced cyclists to ride.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Metro Grant	2,970,000						2,970,000
Funded	FILOC—HM	84,000						84,000
Funded	FILOC—HMDT	16,000						16,000
Funded	Stormwater SDC	100,000						100,000
Funded	Streets SDC	20,000						20,000

Operating Budget Impact

This project will increase operating expenditures for additional street maintenance (bike/ped trail) and stormwater maintenance (water quality facilities). Specific costs have yet to be determined.

Streets Division



Transportation Vehicle Purchases

In FY 2015, the department will participate in their portion of purchasing some of the shared vehicles such as dump trucks, loaders and backhoes totaling \$20,000 and the Tractor Mower will be purchased for \$80,000. In FY 2016, the department will participate in their portion of the shared vehicles in the amount of \$63,750. In FY 2017, \$11,250 will be spent on shared vehicles and the Asphalt Roller for \$50,000. In FY 2018, \$41,250 will be spent on shared vehicles and a UD Paving Truck is due to be replaced for \$100,000. In FY 2019, the department will participate in their portion of the shared vehicles totaling \$55,000 and purchase one 5-yard dump truck with HotBox for \$120,000. For FY 2020 some shared vehicles totaling \$31,250.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	100,000	64,000	67,000	142,000	175,000	32,000	580,000

Operating Budget Impact

These purchases will not increase operating expenditures.



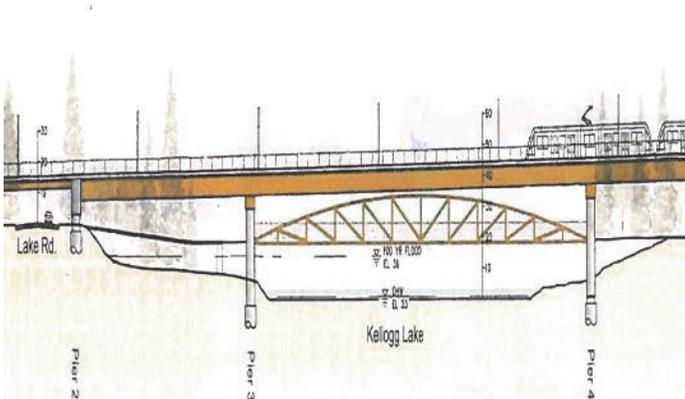
Transportation Department Crack Seal Machine

The crack sealing machine will be used extensively by the Street crew to seal pavement cracks in a timely manner, helping extend pavement life. A machine was rented last summer to test whether performing crack sealing in-house was viable. The work was successfully completed without adversely impacting the work plan. The crack sealer is used for repairing the street surface prior to failure, as advanced cases can be very costly to repair and can lead to formation of potholes or premature pavement failure. This machine will be purchased out of the Street Surface Maintenance Program fund (SSMP).

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	70,000						70,000

Operating Budget Impact

This purchase will not increase operating expenditures. This purchase will decrease operating expenditures by lowering the reconstruction cost of paving streets.



Kellogg Lake Multi-Use Bridge

This project constructs a pedestrian and bicycle connection between Kronberg Park and SE Lake Road near Milwaukie's light rail station (in downtown Milwaukie). The bridge is a weathered steel truss that sits underneath the new light rail bridge as it crosses Kellogg Lake and will provide a 12-foot wide path for users.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Streets SDC	200,000						200,000

Operating Budget Impact

The City will be responsible for maintenance of the bridge structure and its path connections.



Transportation Department Asphalt Grinder & Trench Paver Machines

The Asphalt Grinder Machine is used in the process of removing and grinding up used asphalt from the street surface, and then recycling and reusing on road shoulders. The operator controls the machine and the machine's functions, while another person on the ground controls the depth of the cut and keeps an eye out for obstructions in the roadway, such as manholes and/or water valves. The Trench Paver Machine is used for paving back utility trenches, it will also increase the productivity and efficiency, and we will have a better finished product than doing it by hand. It could be used for applying cold mix as well.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		50,000					50,000

Operating Budget Impact

This purchase will not increase operating expenditures significantly. This purchase is anticipated to reduce the amount of time it takes to remove asphalt surface.



Transportation Department Asphalt Recycler

The Asphalt Recycler is used in the process to reuse asphalt that we have to pull out from our utility cuts. When a crew digs up asphalt on a job, they are able to put the asphalt into the Asphalt Recycler to heat it up (which is a 4-6 hour process) then reuse the recycled asphalt the next day to fill the utility cut. Using the Asphalt Recycler helps increase efficiency by being sustainable, decreasing liabilities and lowering operating costs for the roads maintenance from recycling off-site.

<u>Status</u>	<u>Funding Source</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>Total</u>
Funded	Capital Outlay						50,000	50,000

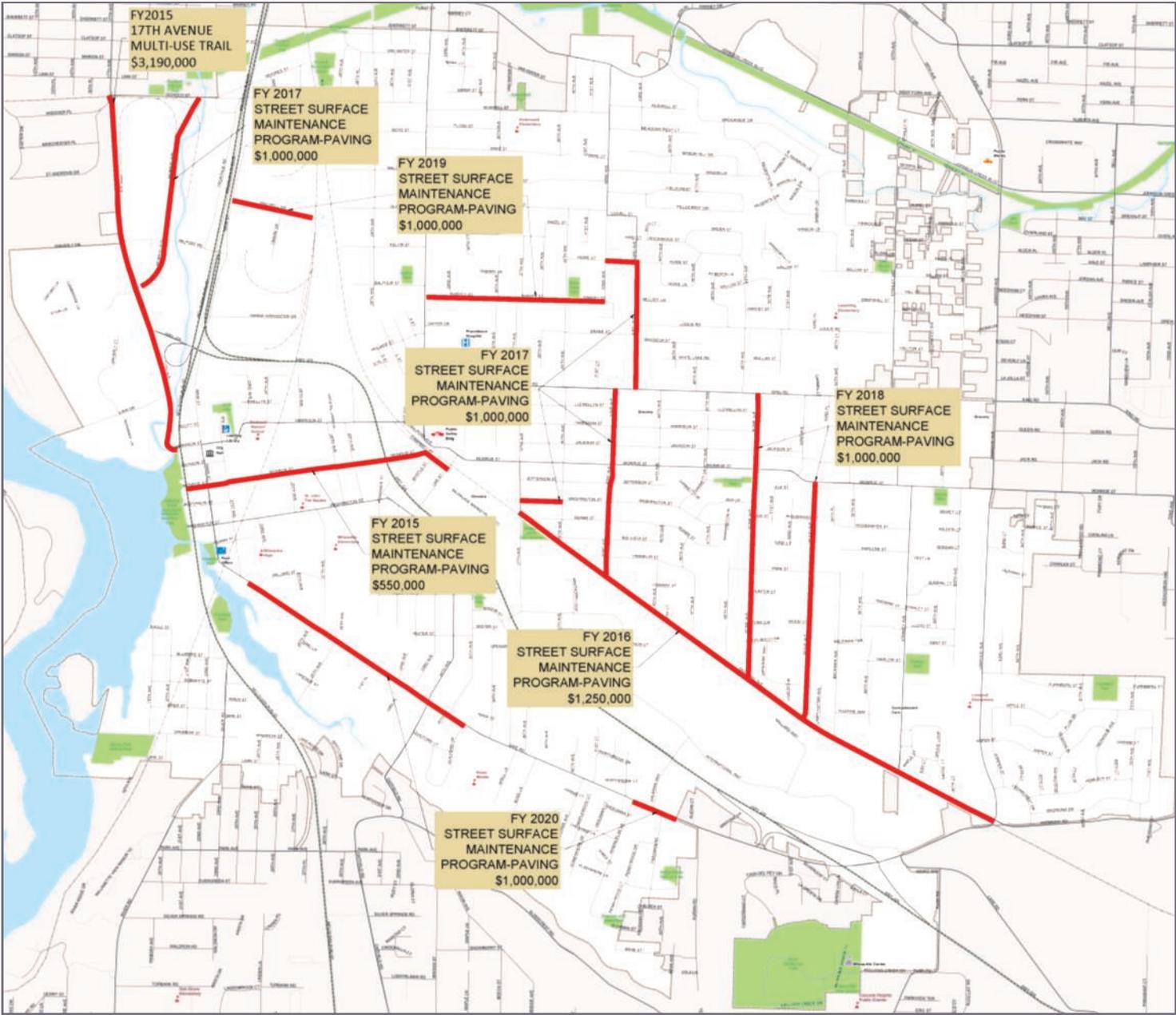
Operating Budget Impact

This purchase will not increase operating expenditures. This purchase will decrease operating expenditures by reusing existing asphalt.



MILWAUKIE
Dogwood City of the West

Transportation Projects Map

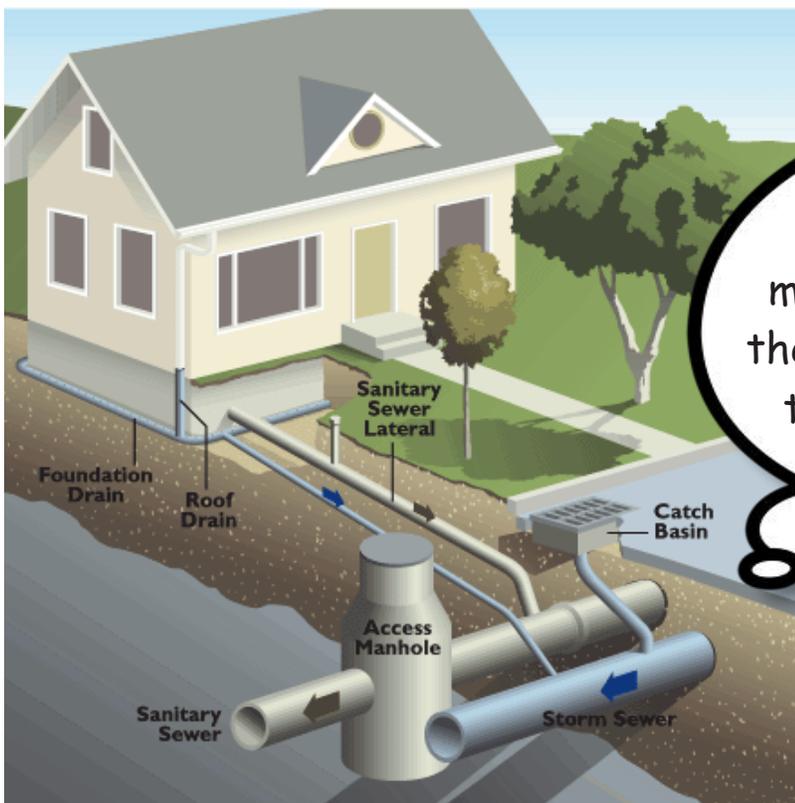


Wastewater Division

Overview

The City of Milwaukie's wastewater system consists of approximately 396,000 feet (75 miles) of pipe, 1615 manholes and 5 sewage pumping stations. City Engineering and Public Works staff are responsible for pipe and manhole replacement and construction, routine maintenance and inspection, system inventory, emergency call-outs, and flow monitoring. Treatment for the City's wastewater system is provided by Clackamas County Sewer District #1. Treatment costs have escalated rapidly over the past three years and are expected to increase further. The City and the County have agreed to the terms of a new treatment contract. The City is working on a rate structure to accommodate the new contract.

Wastewater system capital needs include funding for the Wastewater Main Repair Program (WWMRP), Clay Pipe Replacement Program and the Manhole Replacement/Rehabilitation Program. The recently adopted 2010 Wastewater Master Plan recommends a yearly WWMRP budget of \$100,000. This program's goal is to address wastewater pipe issues identified by Operations staff through routine maintenance. The goal of the Clay Pipe Replacement Program is to systematically replace all aging clay pipes within the system over the next 10 years. The estimated funding required per year is \$530,000. The Manhole Replacement / Rehabilitation Program's goal, similar to the Clay Pipe Replacement Program, is to replace or rehabilitate all manholes over a period of 150 years. The required funding per year for this program to reach this goal is \$50,000. The requested rate increases reflect the needed funding to continue these programs at full funding over the next 5 years.



Did you know...
that in Milwaukie
maintenance and repair of
the sanitary sewer lateral is
the responsibility of the
homeowner?

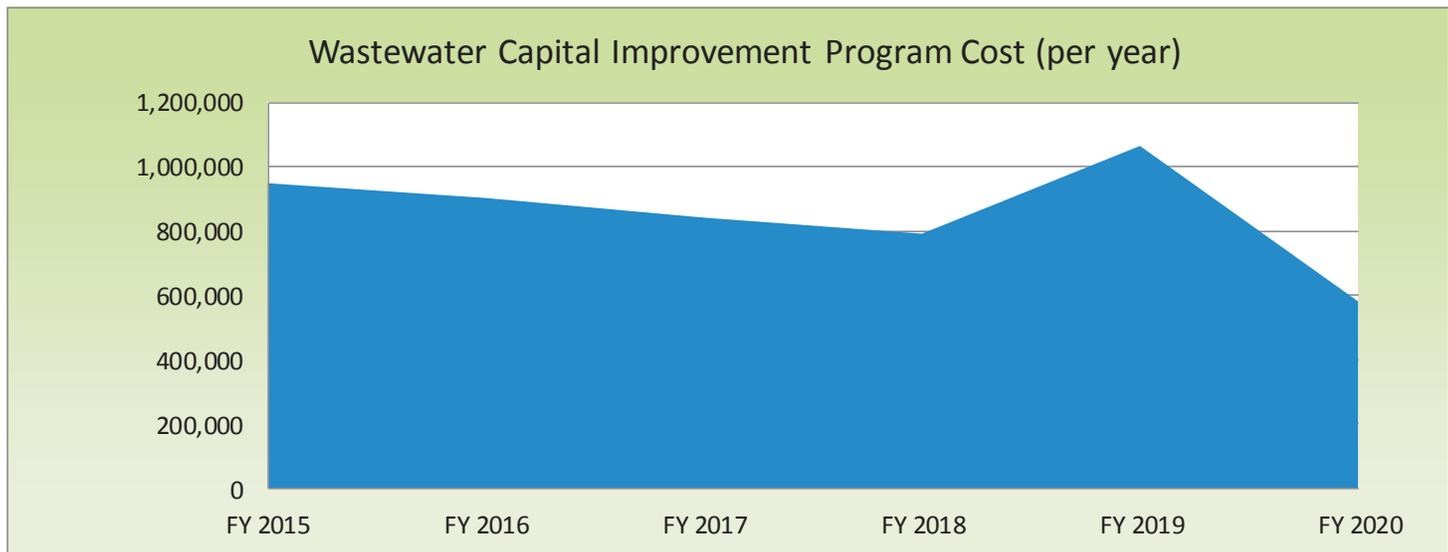
Capital Projects

Wastewater Summary

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
78	Wastewater Main Repair Program	100,000	100,000	100,000	100,000	100,000	100,000	600,000
78	Wastewater Manhole Replacement/ Rehabilitation Program	50,000	50,000	50,000	50,000	50,000	50,000	300,000
79	Clay Pipe Replacement Program	640,000	540,000	485,000	600,000	510,000		2,775,000
79	Wastewater Vehicle Purchases	144,000	169,000	207,000	42,000	405,000	32,000	999,000
80	Wastewater Lift Station Wet Well Lining	15,000	15,000					30,000
80	Wastewater Transporter and Camera Replacement		29,000					29,000
81	Waverly Heights Wastewater System Reconfiguration (Design)						400,000	400,000
Totals		949,000	903,000	842,000	792,000	1,065,000	582,000	5,133,000

Future Years

Project Name	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	Totals
Waverly Heights Wastewater System Reconfiguration (Construction)	1,000,000	1,000,000					2,000,000
Totals	1,000,000	1,000,000					2,000,000



Wastewater Division



Wastewater Main Repair Program

Projects under this program generally consist of replacements where structural or inadequate flow conditions exist and lining of pipes with excessive groundwater infiltration and/or stormwater inflow. Projects are identified based on routine system monitoring and/or maintenance done by the Wastewater Operations Department and projects identified in the 2010 Wastewater Master Plan.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	100,000	100,000	100,000	100,000	100,000	100,000	600,000

Operating Budget Impact

This project will not increase operating expenditures. These projects will most likely replace wastewater pipes one-for-one and will not increase the number of wastewater assets system-wide.



Wastewater Manhole Replacement/ Rehabilitation Program

This program was created to ensure the replacement of all manholes within the Wastewater network over a 150-year period. In the case of a manhole having satisfactory structural integrity, manhole rehabilitation (i.e., manhole lining or grouting) will be done in lieu of full manhole replacement. Manholes to be replaced or rehabilitated will be identified by the Engineering Department and the Public Works Wastewater Department on an annual basis.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	50,000	50,000	50,000	50,000	50,000	50,000	300,000

Operating Budget Impact

This project will not increase operating expenditures. These projects replace wastewater pipes one-for-one and will not increase the number of wastewater assets system-wide.



Clay Pipe Replacement Program

This program was created to ensure of the replacement of all remaining Vitrified Clay Pipe (VCP) throughout the City. Vitrified Clay Pipes are susceptible to chemical attack at their joints, are brittle, and due to their short lengths and numerous joints, are more prone to infiltration. Sections of VCP that will be replaced will be identified by Engineering staff on an annual basis and will focus strongly on coordination with the Street Surface Maintenance Program schedule and replacement recommendations from the Operations Wastewater Department based on routine system monitoring.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	640,000	540,000	485,000	600,000	510,000		2,775,000

Operating Budget Impact

This project will not increase operating expenditures. These projects replace wastewater pipes one-for-one and will not increase the number of wastewater assets system-wide.



Wastewater Vehicle Purchases

In FY 2015, the department will participate in their portion of purchasing some of the shared vehicles such as dump trucks, loaders and totaling \$80,000; Wastewater will also participate in the purchase of a new Vector contributing \$64,000. In FY 2016 a one-ton service truck is due to be replaced for \$45,000 and \$123,750 for shared vehicles In FY 2017 a ¾-ton service truck for \$45,000 and a new TV Van for \$150,000 are due to be replaced, they will also participate in purchasing shared vehicles totaling \$11,250. In FY 2018 only shared vehicles will be replaced for the department totaling \$41,250. In FY 2019, the combination sewer cleaning vehicle is due to be replaced for \$350,000 and some shared vehicles for \$55,000. For FY 2020 a shared vehicle will be replaced for \$31,250.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	144,000	169,000	207,000	42,000	405,000	32,000	999,000

Operating Budget Impact

These purchases will not increase operating expenditures.

Wastewater Division



Wastewater Lift Station Wet Well Lining

The projects for wet well lining consist of replacing the lining of the Island Station lift station wet well in FY 2015, and replacing the lining of the Brookside Lift Station wet well in FY 2016.

The sewer flows will need to be pumped around the Island lift station while the project takes place which increases the cost of the project by at least \$5,000. While relining the Brookside wet well, the sewer flows will be transferred to the City of Portland which will also increase the cost by at least \$5,000.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	15,000	15,000					30,000

Operating Budget Impact

This project will not increase operating expenditures, but will decrease the possibility of sanitary sewer overflows to Johnson Creek or the Willamette River which would generate hefty fines from the Department of Environmental Quality.



Wastewater Transporter and Camera Replacement

The department uses CCTV to video inspect all of the City owned sanitary sewer mains. The department purchased a new TV van back in 2005, but did not need to purchase the equipment at that time. The equipment is now due to be replaced.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		29,000					29,000

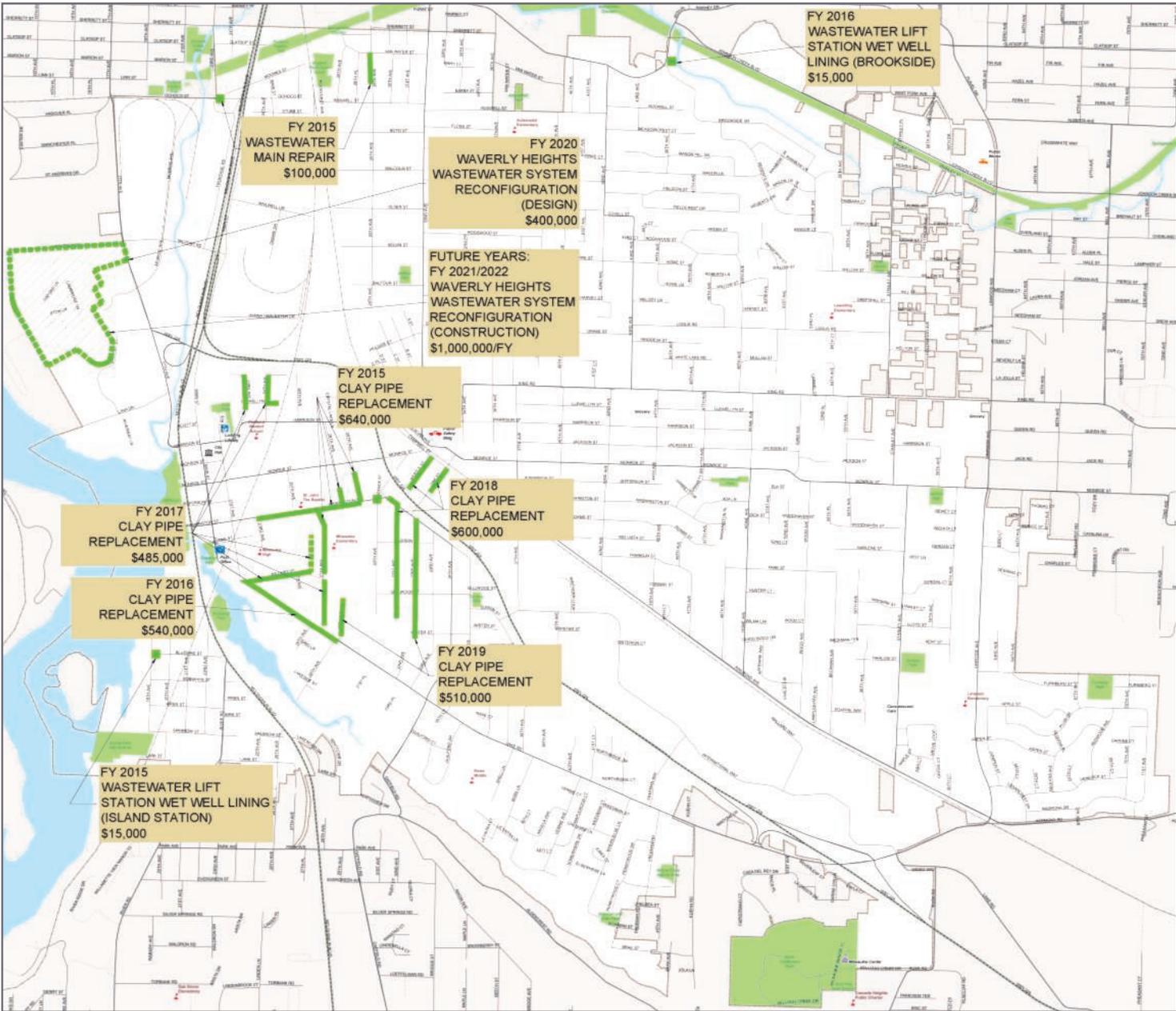
Operating Budget Impact

This purchase will decrease operating expenditures. As the equipment is heavily used and has multiple facets, it frequently breaks down and needs repair. At times the department can complete in-house repairs, but most of the time the equipment needs to be shipped to California or Florida to the sole source vendor for repairs.

Wastewater Division



Wastewater Projects Map



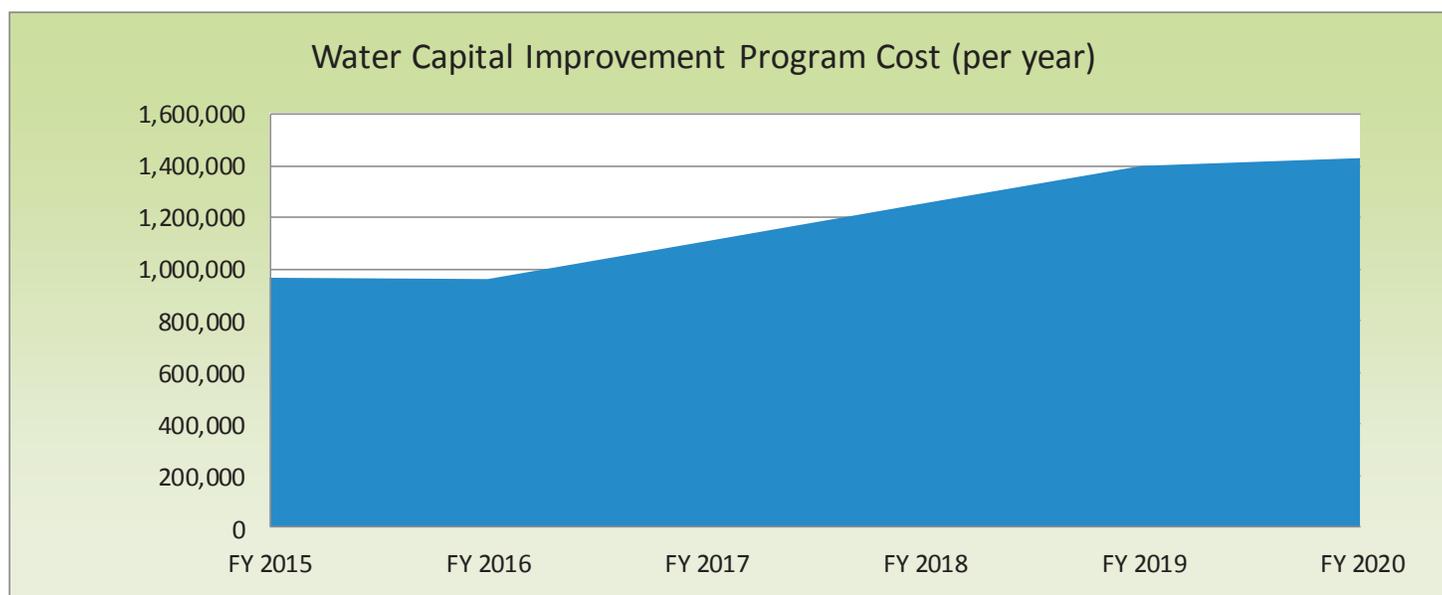
Overview

The City of Milwaukie's water supply is provided through seven wells drawing from an underground basin of the Troutdale Aquifer. The pumping capacity of the well system is 6.6 million gallons per day (MGD). The water system consists of 2 treatment facilities, 3 storage tanks totaling 6 million gallons (MG) storage, 112 miles of pipeline providing potable water to 6,800 customer connections over 4 pressure zones.

The CIP is based on the project priority determined as part of the recently completed Water Master Plan. The highest priority projects are prioritized by Street Surface Maintenance Program schedule, fire flow deficiencies in areas zoned "public", 4" diameter pipe installed before 1960, and 6" diameter pipe installed before 1960. The Master Plan identifies \$10 million dollars in CIP projects to be completed over the next 10 years.

The Water Master Plan identifies the need for \$2 million in capital outlay per year. Most of the funding is needed to replace the aging pipelines that delivery water throughout the City. In order to minimize the impact to the water rates needed to provide the roughly \$1.3 million of additional funding, staff worked with the Citizen's Utility Advisory Board (CUAB) on a ten-year plan to ramp the rates up to the level needed to reach the necessary capital outlay funding.

The CIP, as recommended by the CUAB, is the minimum necessary to only replace deficient pipelines ahead of the scheduled street surface maintenance projects over the next 4 years. The CUAB's recommendation includes, increasing CIP funding over the following 6 years to reach the original goal of \$2 million of capital outlay per year 10 years from now, meeting the recommended CIP funding level of the Master Plan.



Water Summary

Page	Project Name	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Totals
86	McBrod Avenue System Improvements	600,000						600,000
86	Water Production Preventative Maintenance FY 2015-2020	40,000	52,000	95,000	100,000	40,000	50,000	377,000
87	Water Vehicle Purchases	166,000	149,000	12,000	87,000	55,000	32,000	501,000
87	Water Well No. 6 & Well No. 2 Storage Tank Maintenance	150,000	400,000					550,000
88	Wood Avenue Service Line Transfer	10,000						10,000
88	FY 2016 Water System Improvements		360,000					360,000
89	17 th Avenue Water System Improvements			1,000,000				1,000,000
89	FY 2018 Water System Improvements				1,067,000			1,067,000
90	FY 2019 Water System Improvements					1,304,000		1,304,000
90	FY 2020 Water System Improvements						1,347,000	1,347,000
Totals		966,000	961,000	1,107,000	1,254,000	1,399,000	1,429,000	7,116,000





McBrod Avenue System Improvements

This project consists of replacement of 2850 feet of existing 6” and 8” lead joint water main with 8” and 10” ductile iron water main. This project is not listed in the January 2001 Water System Master Plan as a project. However, the Milwaukie Water Operations Department has identified this project as a high priority due to the high level of continuing maintenance on the lead joint water mains. This project is in preparation for the McBrod Avenue Street Surface Maintenance Project.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	510,000						510,000
Funded	Water SDC's	90,000						90,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.



Water Production Preventative Maintenance

This project consists of water production preventative maintenance at the entire City owned water well sites. This maintenance is vital to producing safe drinking water to citizens and meeting the requirements of the Safe Drinking Water Program. Some of the maintenance consists of pumping motor inspection and pumping motor replacement, installing new motor controls (VFD), pulling wells for inspection and possible replacement, sanding trap replacement and installation, reconditioning wells, replacing outside infrastructure such as small building and fences and repairing failing parking lots.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	40,000	52,000	95,000	100,000	40,000	50,000	377,000

Operating Budget Impact

This purchase will not increase operating expenditures.



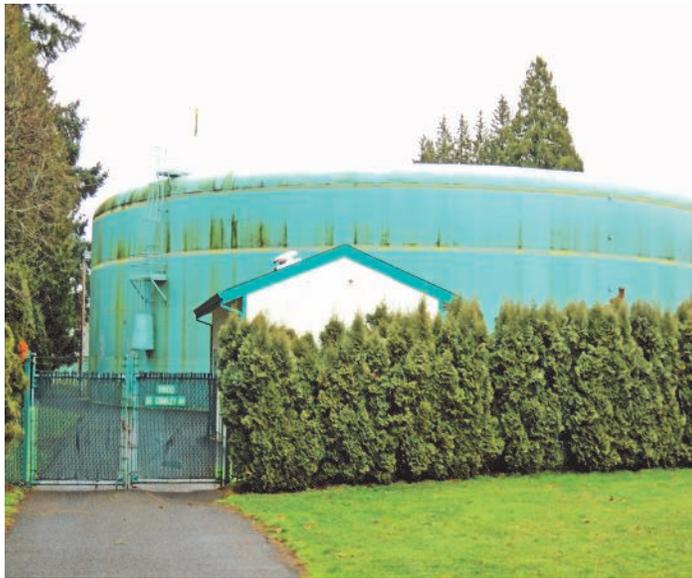
Water Vehicle Purchases

The vehicles that are due to be replaced are; in FY 2015, the department will participate in their portion of purchasing some of the shared vehicles such as dump trucks, loaders and backhoes totaling \$60,000 and also purchase a diesel one-ton service truck for \$45,000; Water will also participate in the purchase of a new Vactor contributing \$61,000. In FY 2016, a one-ton service truck is due to be replaced for \$45,000 and \$103,750 for shared vehicles. In FY 2017 the department will participate in purchasing shared vehicles in the amount of \$11,250. In FY 2018 a ¾-ton service truck will be replaced for \$45,000 and shared vehicles will be replaced for the department at the cost of \$41,250. In FY 2019 and FY 2020, some shared vehicles will be replaced in the amount of \$55,000 and \$31,250 respectively.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	166,000	149,000	12,000	87,000	55,000	32,000	501,000

Operating Budget Impact

These purchases will not increase operating expenditures as they replace existing vehicles.



Water Well No. 6 & Well No. 2 Storage Tank Maintenance

The department currently has two water storage tanks that require maintenance. Well No. 6 storage tank needs to be stripped of the exterior paint and repainted. The estimated cost to complete the project is \$400,000 and is scheduled for FY 2016. Well No. 2 elevated storage tank needs to be repainted on the top of the tank. The estimated cost to complete the project is \$150,000 and is scheduled for FY 2015.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	150,000	400,000					550,000

Operating Budget Impact

This purchase will not increase operating expenditures.



Wood Avenue Service Line Transfer

Wood Avenue currently has 2 main lines servicing the streets. The division has found that there are many services coming off of an old 3” main that needs to be transferred to the newer 8” main. They have also found that the condition of the service lines is poor and some services need to be replaced. This project will be completed by the public works crews and will also consist of re-tapping any hydrants that are currently coming off of the old main, and then abandoning the 3” main at Monroe Street, Park Avenue, and Railroad Avenue.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay	10,000						10,000

Operating Budget Impact

It will be less expensive to have public works crew complete the project than develop plans and hire a private contractor.



FY 2016 Water System Improvements

This project consists of water line replacements and abandonments at various locations throughout the City to address hydraulic, structural and water quality issues. Scheduled water line replacements include:

- Main Street Water Line Extension (Mailwell Drive – Beta Street)
- Riverway Lane Water Line Replacement (south of Lava Drive)
- Wood Court Water Line Replacement (Wood Avenue – Cul-de-Sac)
- Monroe Street Water Line Abandonment (37th Avenue – Oak Street)

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay		360,000					360,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.



17th Avenue Water System Improvements

This project consists of replacement of 4,250 feet of existing 6", 8" and 12" of lead joint water main with 12" ductile iron water main. This project is listed in the 2010 Water System Master Plan as a project. The Milwaukie Water Operations Department has also identified this project as a high priority due to the high level of continuing maintenance on the lead joint water mains.

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay			1,000,000				1,000,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.



FY 2018 Water System Improvements

This project consists of water line replacements at various locations throughout the City to address hydraulic, structural and water quality issues. Scheduled water line replacements include:

- Park Street Water System Improvements (Home Avenue – Beckman Ave)
- Beckman Avenue Water System Improvements (Railroad Avenue – Park Street)
- River Road Pressure Boundary Reconfiguration (Sparrow Street – Highway 99E)
- Milwaukie High School Fire Flow Improvements
- Public Works Campus Fire Flow Improvements

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay				1,067,000			1,067,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.

Water Division



FY 2019 Water System Improvements

This project consists of water line replacements at various locations throughout the City to address hydraulic, structural and water quality issues. Scheduled water line replacements include:

- Harvey Street (32nd Avenue – 42nd Avenue)
- 33rd Avenue (Harvey Street – Dead End)
- 36th Avenue (Harvey Street – Dead End)
- 42nd Avenue (Harvey Street – Olsen Street)
- Drake Street and 38th Avenue (40th Avenue – End)
- Howe Lane Loop (Howe Lane, 44th Avenue & 46th Avenue south of Howe Street)

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay					1,304,000		1,304,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.



FY 2020 Water System Improvements

This project consists of water line replacements at various locations throughout the City to address hydraulic, structural and water quality issues. Scheduled water line replacements include:

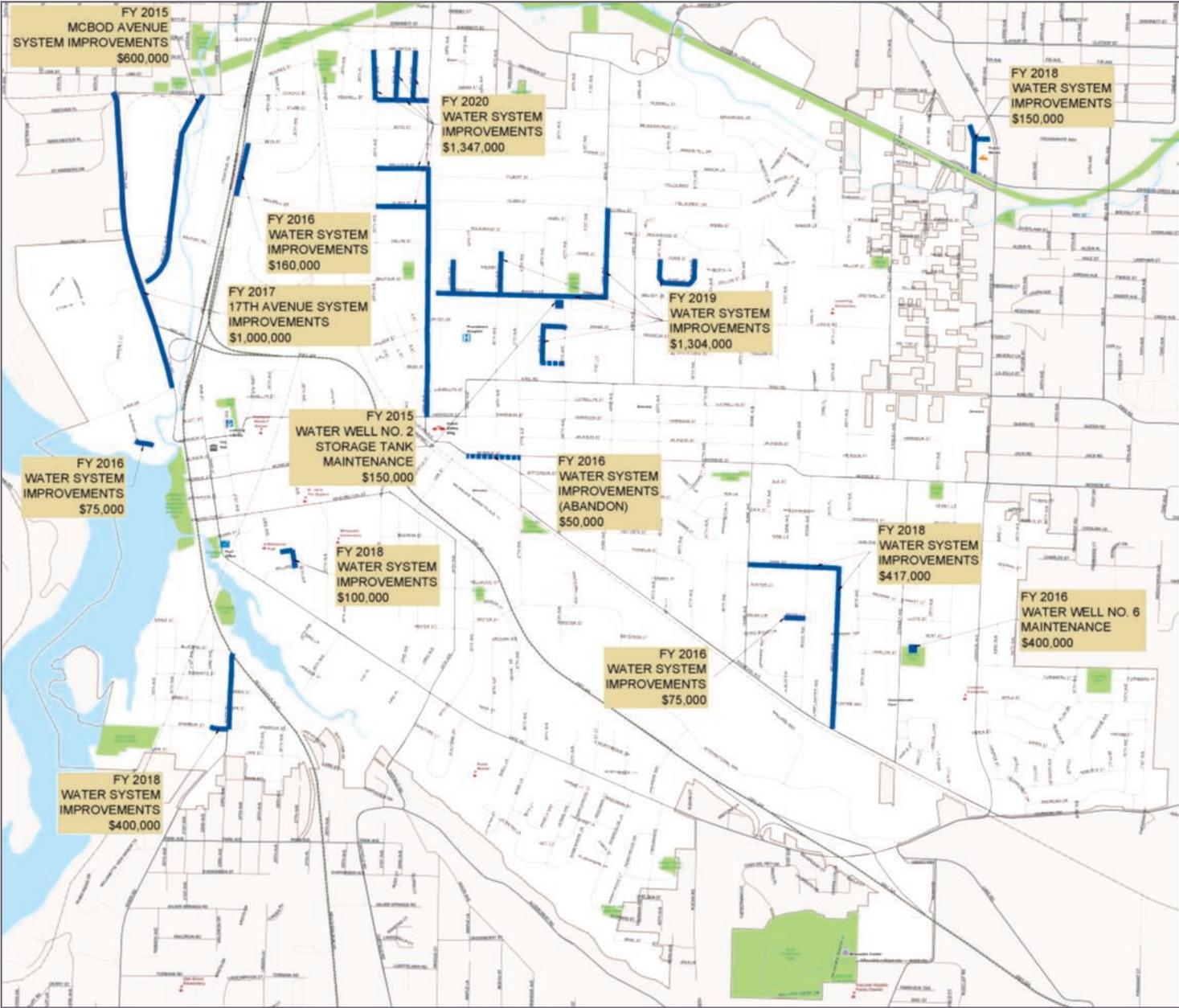
- 32nd Avenue (Harrison Street – Filbert Street)
- Olsen Street (32nd Avenue – 29th Avenue)
- Malcolm Street (32nd Avenue – 29th Avenue)
- Roswell Street (32nd Avenue – 29th Avenue)
- 29th Avenue (Roswell Street – Van Water Street)
- 30th Avenue (Roswell Street – Van Water Street)
- 31st Avenue (Roswell Street – Van Water Street)

Status	Funding Source	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Total
Funded	Capital Outlay						1,347,000	1,347,000

Operating Budget Impact

This project is anticipated to reduce operating expenditures due to the reduction of maintenance issues once the pipe is replaced.

Water Projects Map





City of Milwaukie
10722 SE Main Street, Milwaukie OR 97222
(503) 786-7555

Contact Us

Stormwater, Street, Wastewater and Water Capital Project Managers:

Civil Engineer | Brad Albert PE, albertb@milwaukieoregon.gov
Civil Engineer | Adriana Slavens PE, slavensa@milwaukieoregon.gov
Engineering Director | Jason Rice PE, ricej@milwaukieoregon.gov

Public Works Capital Project Managers:

Facilities Manager | Willie Miller, millerw@milwaukieoregon.gov
Storm and Streets Operations Supervisor | Kenny Hill, hillk@milwaukieoregon.gov
Wastewater and Water Operations Supervisor | Ronelle Sears, searsr@milwaukieoregon.gov
Public Works Director | Gary Parkin PE, parking@milwaukieoregon.gov

Finance:

Finance Director | Casey Camors CPA, CMA, CPFO, CGMA, camorsc@milwaukieoregon.gov
Assistant Finance Director | Bonnie Dennis, dennisb@milwaukieoregon.gov