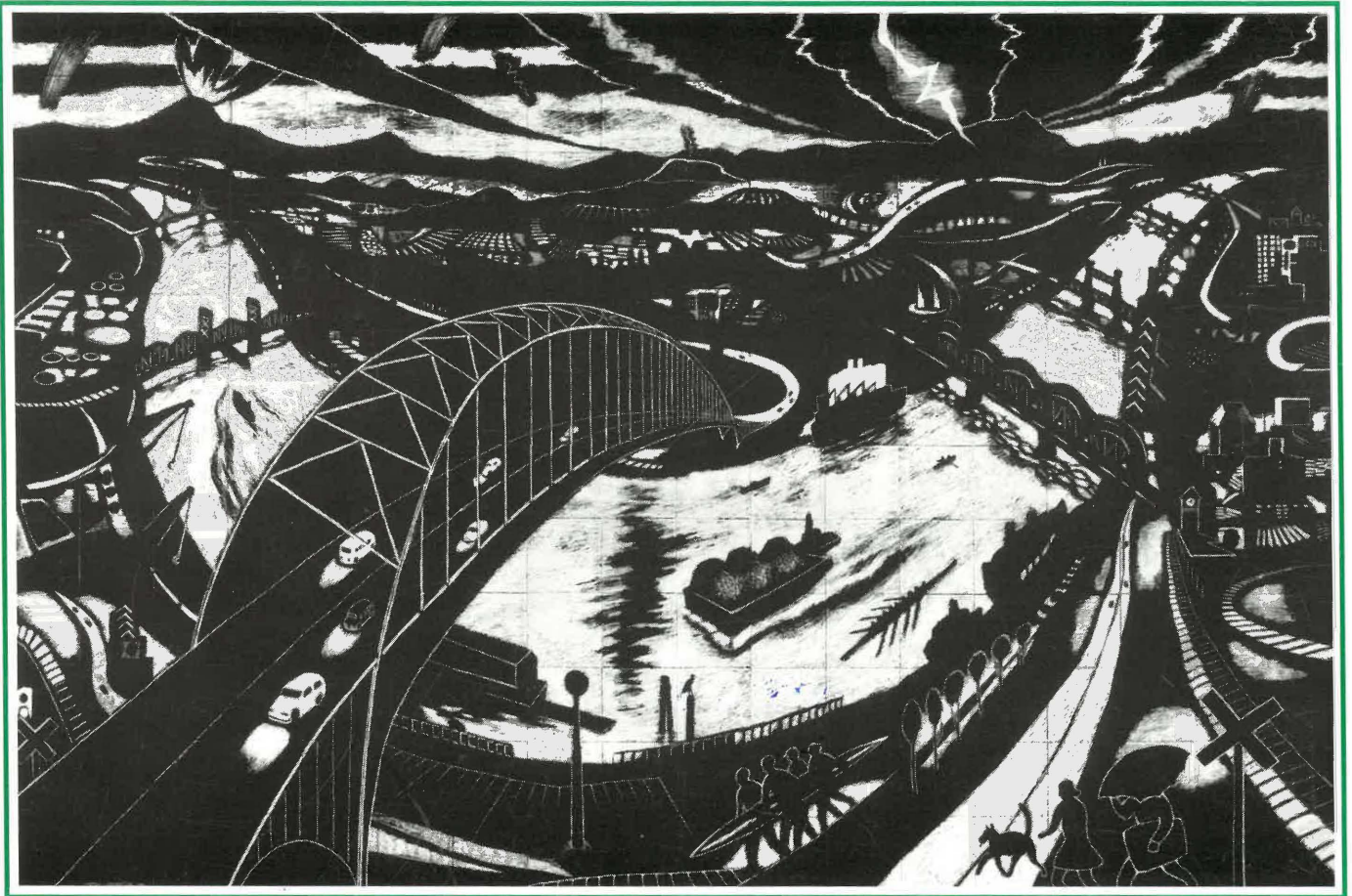


CITY OF PORTLAND

2000-2002

BIENNIAL BUDGET



FISCAL YEAR 2000-2001

ADOPTED BUDGET

Volume Three

Capital Improvement Plan Project Detail

“GREAT PORT CITY”

GEORGE JOHANSON, 1992, CERAMIC TILE

George Johanson was born in Seattle in 1928. He taught painting and printmaking at the Pacific Northwest College of Art for twenty-five years before retiring to spend full time in the studio. He works in a variety of mediums including drawing, painting, and printmaking. He has also done a number of ceramic tile murals throughout the Northwest. In Portland these may be seen on the fourth floor of the Portland Building and at the Peninsula Park Community Center (two 4 x 20 foot murals next to the swimming pool).

His work often includes references to the Portland environment. “Great Port City”, a black and white tile mural, is a portrait of the city that has many specific references to Portland, but is composed in an imaginative way. The tile is painted with black ceramic underglaze color, the design is scraped into it exposing the white clay, and it is then fired in a kiln.

More of Mr. Johanson’s work may be seen at the Pulliam Deffenbaugh Gallery in Northwest Portland.

**PROPERTY OF
BUREAU OF FINANCIAL PLANNING
LIBRARY**

Adopted Budget

**City of Portland, Oregon
2000-02 Biennial Budget**

Fiscal Year 2000-01

Volume Three

Capital Improvement Plan Project Detail

Mayor Vera Katz

Commissioner Jim Francesconi

Commissioner Charlie Hales

Commissioner Dan Saltzman

Commissioner Erik Sten

Auditor Gary Blackmer

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Introduction

Volume 3 of the City of Portland's FY 2000-01 Adopted Budget provides details for each of the projects that comprise the FY 2000-01 and FY 2000-05 capital budget.

ORGANIZATION OF THE CAPITAL BUDGET

The City's capital budget is organized by the six service areas: Public Safety; Parks, Recreation and Culture; Public Utilities; Transportation and Parking; Community Development; and Legislative, Administrative and Support Services.

OVERVIEW OF PROJECT DETAIL

The project details outline the following information: program title, project title, objective, area, project description, funding sources, project costs, fund level costs, and operating/maintenance costs. Descriptions follow for items which may not be self-explanatory.

Objective

Bureaus are required to indicate which of the following five objectives best describes their capital projects:

Repair/Maintenance

These projects are necessary to prevent deterioration or return a facility to its original condition.

Replacement

Projects that correct existing deficiencies by replacing worn out parts of the capital system. For example, these projects may include replacement of sewer lines, streets, or new facilities that relieve an existing overload.

Mandated

Mandated projects are required by the City to satisfy federal and/or state regulatory requirements or to meet general public safety standards. Examples include seismic retrofits or improvements, Americans with Disabilities Act (ADA) improvements, environmental cleanup and asbestos removal, security improvements, and fire alarm systems.

Expansion

Expansion includes projects or facilities that expand the system's current service area, such as service to newly annexed areas or extension to undeveloped or unserved areas. Projects undertaken by the City to meet new demands are intended to be consistent with the bureau's long-range facilities plan and land use densities provided in the Comprehensive Plan, while not diminishing the ability to serve existing City residents and properties.

Efficiency

These projects are aimed at making the system more efficient through the use of technological improvements or other means. Generally speaking, these projects should save overall financial resources or provide more services without requiring additional resources.

Area

The area within the City of Portland in which the project is located is identified in each project description (Table 1).

Table 1: Area Codes

Code	Geographic Area
ALL	Citywide
CC	Central City
E	East
N	North
N/A	Not Applicable (No Geo Area)
NE	Northeast
NW	Northwest
S	South
SE	Southeast
SW	Southwest
W	West

Funding Sources

Funding sources are entered either on a project basis, program basis, or bureau basis. The individual funding sources are grouped into 15 categories (Table 2).

Table 2: Funding Sources

Funding Source	Examples
General Obligation Bonds	G.O. Bonds retired through property taxes G.O. Bonds retired through General Fund support
Revenue Bonds	Sewer Capital Fund Water Capital Fund Gas Tax Revenue Bonds Parking Bonds Limited Tax Revenue Bonds
LID	Local Improvement Districts
Tax Increment Financing	
System Development Charges	
General Fund Discretionary	Add packages CRC packages
General Transportation Revenue	
Housing Investment Fund (GF)	
Service Charges and Fees	BES permit fees Golf fees License/Permits PDOT permit fees
Bureau Revenues	Interagency bureau revenue

Table 2: Funding Sources

Funding Source	Examples
Intergovernmental	Cash transfers
	Service reimbursements
	Rents
	Land sales
	Loan collections
	Partnerships
	State cost sharing
	PUC
	Oregon State Marine Board
	Local cost sharing
	PDC
	Port of Portland
	Multnomah County
	Tri-Met.
Metro	
Intergovernmental contracts	

Table 2: Funding Sources

Funding Source	Examples
Grants	Federal grants State grants Local matches TEA-21/ISTEA Congestion Management Air Quality HUD Highway Bridge Replacement Title II Safety Tri-Met grants Oregon Department of Transportation EPA Private grants and donations
Other Funding	
Fund Balance	
Unfunded	

Project Cost

Cost schedules are categorized by the following four types of activities:

- ◆ Planning
- ◆ Design and project management
- ◆ Site acquisitions
- ◆ Construction and equipment

Fund Level Cost

The Bureau of General Services (BGS) undertakes projects on behalf of many of the City’s bureaus. These projects may be completed either by BGS or contracted out, both of which require project management. BGS recovers these management costs by charges to bureaus at the fund level.

**Operating/
Maintenance Costs**

Operating and maintenance (O&M) costs reflect the ongoing operating costs associated with the project. These include O&M costs for new facilities, savings which may be associated with the replacement of old equipment, or savings associated with new facilities that require less maintenance.



Capital Improvement Plan — Public Safety
Bureau of Fire, Rescue & Emergency Svcs.

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Removal of Underground Tanks

Area: SE
Objective(s): Mandated

Project Description

Pursuant to DEQ regulations, the underground tanks at fire facilities will be removed.

Funding Sources

General Fund Discretionary

Total Funding Sources

	0	0	20,000	0	0	0	0	20,000
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Project Costs

Total Project Costs

	0	0	0	0	0	0	0	0
--	---	---	---	---	---	---	---	---

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Emergency Response

Apparatus Replacement

Area: NA
Objective(s): Replacement
Expansion

Project Description

This project provides for the replacement of fire apparatus, according to the bureau's replacement plan which is in line with plans of comparable fire jurisdictions in terms of the life of apparatus. The bureau replaces front line apparatus after 15 years and puts front line apparatus in reserve status for an additional 5 years. Extending the life of apparatus would increase the chances of breakdown or malfunction during emergency response. It has been shown that apparatus retained beyond industry averages spend more time in repair shops, and priority 1 responders have to rely on older reserve apparatus. This project has been ongoing for several years. The benefits of this program are that apparatus can be replaced in a timely fashion, with as little as possible effect on fire and EMS service delivery. The purchase of apparatus each year will keep the bureau's apparatus replacement program on schedule. Falling behind with the apparatus replacement plan will cause the bureau to incur greater maintenance costs and will defer necessary expenditures. In FY 2000-01 the bureau plans to purchase three pumpers and a tractor-drawn aerial ladder truck. One of the pumpers will be funded out of bond funds and the remaining will be funded by the general fund.

Funding Sources

General Fund Discretionary

Total Funding Sources

	0	1,000,000	1,050,000	1,102,500	1,157,625	1,215,506	1,276,282	5,801,913
	0	1,000,000	1,050,000	1,102,500	1,157,625	1,215,506	1,276,282	5,801,913

Project Costs

Const/Equip

Total Project Costs

	0	1,000,000	1,050,000	1,102,500	1,157,625	1,215,506	1,276,282	5,801,913
	0	1,000,000	1,050,000	1,102,500	1,157,625	1,215,506	1,276,282	5,801,913

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan					
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
Fire, Rescue, and Emergency Services									
Fire Facilities Replacement - Seismic Considerations									
								Area:	ALL
								Objective(s):	Replacement
Project Description									
There are three stations which need to be replaced because they can't be economically renovated to the seismic code. The stations are station 1 serving downtown Portland, station 6 on the Willamette River in NW Portland, and station 9 in inner SE Portland. This project will site and construct these three stations.									
Funding Sources									
General Obligation Bonds	0	0	263,000	7,411,000	1,667,000	5,087,000	3,595,000	18,023,000	
Total Funding Sources	0	0	263,000	7,411,000	1,667,000	5,087,000	3,595,000	18,023,000	
Project Costs									
Design/ProjMgmt	0	0	79,000	2,223,000	500,000	1,526,000	1,078,000	5,406,000	
Site Acquisition	0	0	177,000	383,000	1,039,000	0	0	1,599,000	
Const/Equip	0	0	7,000	4,805,000	128,000	3,561,000	2,517,000	11,018,000	
Total Project Costs	0	0	263,000	7,411,000	1,667,000	5,087,000	3,595,000	18,023,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	(119,000)	(119,000)	(119,000)	(357,000)	
Fire Station Response-Time Relocations									
								Area:	ALL
								Objective(s):	Replacement
Project Description									
A study concluded that two stations in the BFRES inventory should be relocated to improve response times . These stations are station 18 in SW Portland and station 40 in NE Portland. Station 40 would be replaced with two stations at 57th and Sandy and 82nd and Prescott. This project will site and construct these three stations.									
Funding Sources									
General Obligation Bonds	0	0	980,000	3,114,000	875,000	0	618,000	5,587,000	
Total Funding Sources	0	0	980,000	3,114,000	875,000	0	618,000	5,587,000	
Project Costs									
Design/ProjMgmt	0	0	294,000	934,000	262,000	0	185,000	1,675,000	
Site Acquisition	0	0	658,000	0	0	0	415,000	1,073,000	
Const/Equip	0	0	28,000	2,180,000	613,000	0	18,000	2,839,000	
Total Project Costs	0	0	980,000	3,114,000	875,000	0	618,000	5,587,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	22,000	22,000	22,000	66,000	
New Fire Station Requirements - Growth and Community Service									
								Area:	ALL
								Objective(s):	Expansion
Project Description									
This project will construct three new fire stations at SW Barnes and Skyline, NW Skyline and Thompson, and SW Shattuck and Beaverton-Hillsdale Highway to better service growing are as of Portland. The NW Skyline and Thompson and SW Shattuck and Beaverton-Hillsdale Highway stations will also have community centers incorporated into their design.									
Funding Sources									
General Obligation Bonds	1,446,000	2,357,000	890,000	6,531,000	905,000	0	0	8,326,000	
Total Funding Sources	1,446,000	2,357,000	890,000	6,531,000	905,000	0	0	8,326,000	
Project Costs									
Design/ProjMgmt	436,000	707,000	267,000	1,959,000	271,000	0	0	2,497,000	
Site Acquisition	0	0	183,000	334,000	0	0	0	517,000	
Const/Equip	1,010,000	1,650,000	440,000	4,238,000	634,000	0	0	5,312,000	
Total Project Costs	1,446,000	2,357,000	890,000	6,531,000	905,000	0	0	8,326,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	1,318,000	1,327,000	1,327,000	3,972,000	

Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Seismic and Functional Upgrades to Fire Facilities

Area: ALL
Objective(s): Repair/Maint

Project Description

This project will upgrade BFRES facilities to meet current seismic codes. It will renovate the facilities as needed to comply with ADA, and renovate or expand them to accommodate female employees, EMT and hazardous/toxic spill cleanup areas. This project will upgrade/renovate electrical, plumbing and mechanical systems and improves site conditions as appropriate.

Funding Sources

General Obligation Bonds	970,000	3,653,000	5,415,000	4,121,000	2,751,000	2,395,000	1,652,000	16,334,000
Total Funding Sources	970,000	3,653,000	5,415,000	4,121,000	2,751,000	2,395,000	1,652,000	16,334,000

Project Costs

Design/ProjMgmt	290,000	1,096,000	1,624,000	1,236,000	825,000	718,000	496,000	4,899,000
Const/Equip	680,000	2,557,000	3,791,000	2,885,000	1,926,000	1,677,000	1,156,000	11,435,000
Total Project Costs	970,000	3,653,000	5,415,000	4,121,000	2,751,000	2,395,000	1,652,000	16,334,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Police

Central Precinct Community Policing Facility

Area: CC
Objective(s): Expansion

Project Description

This project entails developing a new, seismically-safe Central Precinct Community Policing Facility at a yet-to-be-determined site. The facility as programmed, would have the capacity to serve the Police Bureau and the City through the 20-year planning horizon of the Facilities Masterplan and possibly beyond. The facility could be collocated with Fire Bureau functions, other Police Bureau organizations, or possibly other city functions. Conceptually, the new precinct facility would be comprised of three levels and occupy an entire city block (assumed to be 200' x 200'). The structure would envelop a total of 104,115 gross square feet, housing 35,271 gross square feet of occupied space and 155 structured parking spaces. The occupied areas would accommodate up to 170 staff and house the following organizations: Crime Prevention, an office for the District Attorney, Neighborhood Action For Youth (NAFY) program spaces, Patrol, and Neighborhood Response Teams. Primary space within the facility include: public areas (lobby, public counter, meeting spaces); administrative office areas; prisoner holding areas (up to six hours); office space, interview rooms, and interrogation facilities for investigations; office space for community-related programs; and, common support areas that include: roll call, locker rooms, light vehicle maintenance garage, storage areas, central photocopy, a break room, and other lesser components.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	27,582,000	27,582,000
Total Funding Sources	0	0	0	0	0	0	27,582,000	27,582,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	5,260,000	5,260,000
Const/Equip	0	0	0	0	0	0	20,786,000	20,786,000
Total Project Costs	0	0	0	0	0	0	26,046,000	26,046,000

Fund Level Costs

0	0	0	0	0	0	0	1,536,000	1,536,000
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Oper & Maint Costs

0	0	0	0	0	0	0	1,259,000	1,259,000
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East Precinct - Carpet Replacement

Area: E
Objective(s): Repair/Maint
 Replacement

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Carpet industry standards call for five- to seven- year replacement schedules. Since this is a 24-hour facility it is recommended that the carpets be replaced every five years.

Funding Sources

Bureau Revenues	0	0	0	112,000	0	0	0	112,000
Total Funding Sources	0	0	0	112,000	0	0	0	112,000

Project Costs

Design/ProjMgmt	0	0	0	13,000	0	0	0	13,000
Const/Equip	0	0	0	93,000	0	0	0	93,000
Total Project Costs	0	0	0	106,000	0	0	0	106,000

Fund Level Costs

0	0	0	6,000	0	0	0	0	6,000
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

East Precinct - Replacement of Garage Doors

Area: E
Objective(a): Repair/Maint
 Replacement

Project Description

This project is part of the long-term plan to maintain the condition of the structure. This scheduled maintenance approach spreads costs and protects the investment in this asset. Replace the two overhead garage doors in the parking structure. Due to the nature of a 24-hour facility these doors receive a tremendous amount of activity and need replaced on a regular schedule.

Funding Sources

Bureau Revenues	0	0	0	35,000	0	0	35,000	70,000
Total Funding Sources	0	0	0	35,000	0	0	35,000	70,000

Project Costs

Design/ProjMgmt	0	0	0	4,000	0	0	4,000	8,000
Const/Equip	0	0	0	29,000	0	0	29,000	58,000
Total Project Costs	0	0	0	33,000	0	0	33,000	66,000

Fund Level Costs

	0	0	0	2,000	0	0	2,000	4,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Justice Center - Data Processing Suite Remodel

Area: CC
Objective(s): Repair/Maint

Project Description

The proposed expansion/remodel provides the needed area for the relocation of the Alarms Unit to the Data Processing suite. The redefined computer rooms facilitate additional workstation expansion and computer storage areas. The expansion/remodel allows for an increase in workstations to cover current personnel needs. This project will remodel and reconfigure the existing computer mainframe rooms and electrical service room. Existing offices will receive interior windows (relites) allowing exterior light into the interior work station areas. The 800+/- sq. ft. expansion into the Records Department is required to meet the needs of the Data Processing Unit.

Funding Sources

General Fund Discretionary	0	0	0	460,000	0	0	0	460,000
Total Funding Sources	0	0	0	460,000	0	0	0	460,000

Project Costs

Design/ProjMgmt	0	0	0	50,000	0	0	0	50,000
Const/Equip	0	0	0	383,000	0	0	0	383,000
Total Project Costs	0	0	0	433,000	0	0	0	433,000

Fund Level Costs

	0	0	0	27,000	0	0	0	27,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Justice Center - Identification Suite Remodel

Area: CC
Objective(s): Repair/Maint

Project Description

The proposed remodel allows for a public waiting room providing a remote secured area for visitors not currently available. The redefined administration and lab areas facilitate a better use of current floor area limitations while providing additional locker room space, a revised alternate light source photographic suite, a quiet room for forensic audio production and photographic production isolation. This project will remodel the existing administrative offices, acquire under-utilized corridor space for use within the suite, remodel the forensic lab and install new secure access hardware at the 12th floor elevator lobby.

Funding Sources

General Fund Discretionary	0	0	0	226,000	0	0	0	226,000
Total Funding Sources	0	0	0	226,000	0	0	0	226,000

Project Costs

Design/ProjMgmt	0	0	0	24,000	0	0	0	24,000
Const/Equip	0	0	0	189,000	0	0	0	189,000
Total Project Costs	0	0	0	213,000	0	0	0	213,000

Fund Level Costs

	0	0	0	13,000	0	0	0	13,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Justice Center - Renovate Chiller

Area: CC
Objective(s): Repair/Maint

Project Description

This project will convert the Justice Center's chiller to operate with alternative refrigerants and upgrade the mechanical room to current standards. The cost in this CIP represents the City's portion of the total project costs. This project will bring the Justice Center chiller into compliance with changing environmental regulations. Production of chlorofluorocarbon (CFC) refrigerants currently used by the building's chiller was eliminated in January, 1996. This requires the existing chiller to be retrofitted to operate with alter native environmentally acceptable refrigerants.

Funding Sources

Bureau Revenues	0	0	0	114,000	0	0	0	114,000
Total Funding Sources	0	0	0	114,000	0	0	0	114,000

Project Costs

Design/ProjMgmt	0	0	0	12,000	0	0	0	12,000
Const/Equip	0	0	0	95,000	0	0	0	95,000
Total Project Costs	0	0	0	107,000	0	0	0	107,000

Fund Level Costs

	0	0	0	7,000	0	0	0	7,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Justice Center - Space Analysis

Area: CC
Objective(s): Repair/Maint
Efficiency

Project Description

This project would fund consultant services and project management to complete a comprehensive analysis of space use within the Justice Center. This analysis will review and make recommendations for the standard planning parameters to enhance the operations of police activities within the Justice Center. These parameters are: efficient adjacencies among functions within the building, the relationship between public waiting and intake areas and secured spaces, the application of equitable and efficient space standards, a phased plan to accomplish recommended rearrangements.

Funding Sources

Bureau Revenues	0	0	69,000	0	0	0	0	69,000
Total Funding Sources	0	0	69,000	0	0	0	0	69,000

Project Costs

Design/ProjMgmt	0	0	7,000	0	0	0	0	7,000
Const/Equip	0	0	58,000	0	0	0	0	58,000
Total Project Costs	0	0	65,000	0	0	0	0	65,000

Fund Level Costs

	0	0	4,000	0	0	0	0	4,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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North Precinct - Carpet Replacement

Area: N
Objective(s): Repair/Maint
Replacement

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Carpet industry standards call for five- to seven-year replacement schedules. Since this is a 24-hour facility it is recommended that the carpets be replaced every five years.

Funding Sources

Bureau Revenues	0	0	0	48,000	0	0	0	48,000
Total Funding Sources	0	0	0	48,000	0	0	0	48,000

Project Costs

Design/ProjMgmt	0	0	0	5,000	0	0	0	5,000
Const/Equip	0	0	0	40,000	0	0	0	40,000
Total Project Costs	0	0	0	45,000	0	0	0	45,000

Fund Level Costs

	0	0	0	3,000	0	0	0	3,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

North Precinct - Expansion for Detectives

Area: N
Objective(s): Expansion

Project Description

This project will allocate more space for the detectives area. They are currently located in a space that is too small for the number of people that occupy it. Add a new wall, which includes, electrical, data, painting, and new HVAC diffusers.

Funding Sources

Bureau Revenues	0	0	43,000	0	0	0	0	43,000
Total Funding Sources	0	0	43,000	0	0	0	0	43,000

Project Costs

Design/ProjMgmt	0	0	6,000	0	0	0	0	6,000
Const/Equip	0	0	35,000	0	0	0	0	35,000
Total Project Costs	0	0	41,000	0	0	0	0	41,000

Fund Level Costs

	0	0	2,000	0	0	0	0	2,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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North Precinct - Exterior Painting

Area: N
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Repaint the exterior of the North Precinct to maintain appearance and prevent deterioration of the facility.

Funding Sources

Bureau Revenues	0	0	0	0	0	21,000	0	21,000
Total Funding Sources	0	0	0	0	0	21,000	0	21,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	3,000	0	3,000
Const/Equip	0	0	0	0	0	17,000	0	17,000
Total Project Costs	0	0	0	0	0	20,000	0	20,000

Fund Level Costs

	0	0	0	0	0	1,000	0	1,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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North Precinct - Exterior Sealing

Area: N
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintenance program for the exterior of the building. The exterior surfaces must be cleaned and sealed to prevent damage and more costly future repairs. This project will clean and seal the exterior surfaces of the North Precinct.

Funding Sources

Bureau Revenues	0	0	0	41,000	0	0	0	41,000
Total Funding Sources	0	0	0	41,000	0	0	0	41,000

Project Costs

Design/ProjMgmt	0	0	0	4,000	0	0	0	4,000
Const/Equip	0	0	0	35,000	0	0	0	35,000
Total Project Costs	0	0	0	39,000	0	0	0	39,000

Fund Level Costs

	0	0	0	2,000	0	0	0	2,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

North Precinct - Interior Painting

Area: N
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. The high use of this 24-hour facility causes wear and tear. The recommended repainting of the interior of the precinct is approximately every five years.

Funding Sources

Bureau Revenues	0	0	0	21,000	0	0	0	21,000
Total Funding Sources	0	0	0	21,000	0	0	0	21,000

Project Costs

Design/ProjMgmt	0	0	0	3,000	0	0	0	3,000
Const/Equip	0	0	0	17,000	0	0	0	17,000
Total Project Costs	0	0	0	20,000	0	0	0	20,000

Fund Level Costs

	0	0	0	1,000	0	0	0	1,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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North Precinct - Public Space Renewal

Area: N
Objective(s): Repair/Maint

Project Description

The exterior public space is in need of upgrading to maintain the appearance and condition of the building. This project includes resurfacing/re-sealing the parking areas and landscape upgrade.

Funding Sources

Bureau Revenues	0	0	58,000	0	0	58,000	0	116,000
Total Funding Sources	0	0	58,000	0	0	58,000	0	116,000

Project Costs

Design/ProjMgmt	0	0	9,000	0	0	9,000	0	18,000
Const/Equip	0	0	46,000	0	0	46,000	0	92,000
Total Project Costs	0	0	55,000	0	0	55,000	0	110,000

Fund Level Costs

	0	0	3,000	0	0	3,000	0	6,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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North, Northeast & East Precincts - Electrical Upgrades

Area: ALL
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintain the electrical capacity and usefulness of the buildings. This scheduled maintenance approach spreads costs and protects the investment in this asset. This project will survey the precincts electrical systems and perform any upgrades as needed.

Funding Sources

Bureau Revenues	0	0	0	0	41,000	0	0	41,000
Total Funding Sources	0	0	0	0	41,000	0	0	41,000

Project Costs

Design/ProjMgmt	0	0	0	0	4,000	0	0	4,000
Const/Equip	0	0	0	0	35,000	0	0	35,000
Total Project Costs	0	0	0	0	39,000	0	0	39,000

Fund Level Costs

	0	0	0	0	2,000	0	0	2,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Northeast Precinct - Carpet Replacement

Area: NE
Objective(s): Repair/Maint
 Replacement

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Carpet industry standards call for five- to seven-year replacement schedules. Since this is a 24-hour facility it is recommended that the carpets be replaced every five years.

Funding Sources

Bureau Revenues	0	0	124,000	0	0	0	0	124,000
Total Funding Sources	0	0	124,000	0	0	0	0	124,000

Project Costs

Design/ProjMgmt	0	0	13,000	0	0	0	0	13,000
Const/Equip	0	0	104,000	0	0	0	0	104,000
Total Project Costs	0	0	117,000	0	0	0	0	117,000
Fund Level Costs	0	0	7,000	0	0	0	0	7,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Northeast Precinct - Exterior Painting

Area: NE
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Repaint the exterior of the Northeast Precinct to maintain appearance and prevent deterioration of the facility.

Funding Sources

Bureau Revenues	0	0	110,000	0	0	0	0	110,000
Total Funding Sources	0	0	110,000	0	0	0	0	110,000

Project Costs

Design/ProjMgmt	0	0	12,000	0	0	0	0	12,000
Const/Equip	0	0	92,000	0	0	0	0	92,000
Total Project Costs	0	0	104,000	0	0	0	0	104,000
Fund Level Costs	0	0	6,000	0	0	0	0	6,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Northeast Precinct - Interior Painting

Area: NE
Objective(s): Repair/Maint

Project Description

When the facility was remodeled existing woodwork was refinished and new woodwork was added, this now needs to be painted to maintain its appearance and condition. This scheduled maintenance approach spreads costs and protects the investment in this asset. The nature and use of this 24-hour facility requires regular maintenance and upkeep, to do this the interior woodwork will be painted out.

Funding Sources

Bureau Revenues	0	0	69,000	0	0	0	0	69,000
Total Funding Sources	0	0	69,000	0	0	0	0	69,000

Project Costs

Design/ProjMgmt	0	0	7,000	0	0	0	0	7,000
Const/Equip	0	0	58,000	0	0	0	0	58,000
Total Project Costs	0	0	65,000	0	0	0	0	65,000
Fund Level Costs	0	0	4,000	0	0	0	0	4,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

Northeast Precinct - Parking Lot Improvements

Area: NE
Objective(s): Repair/Maint

Project Description

The parking structure surfaces are in need of repair, waterproofing, re-sealing, and re-stripping. The concrete has several cracks which need repaired before further damage is done. This project will refurbish the existing parking and protect the investment of the facility. Repair cracks in parking surface, waterproof surfaces, re-stripe, and re-seal all parking surfaces.

Funding Sources

Bureau Revenues	0	0	311,000	0	0	0	0	311,000
Total Funding Sources	0	0	311,000	0	0	0	0	311,000

Project Costs

Design/ProjMgmt	0	0	34,000	0	0	0	0	34,000
Const/Equip	0	0	259,000	0	0	0	0	259,000
Total Project Costs	0	0	293,000	0	0	0	0	293,000

Fund Level Costs

	0	0	18,000	0	0	0	0	18,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Northeast Precinct - Roof Replacement

Area: NE
Objective(s): Repair/Maint
 Replacement

Project Description

To maintain the condition of the building and protect the investment in the asset replacement of roof is needed. The roof is nearing the end of its useful life of 10 years and patching is not an effective way of maintaining it. The roof will be replaced with an appropriate roofing system.

Funding Sources

Bureau Revenues	0	0	0	0	0	0	221,000	221,000
Total Funding Sources	0	0	0	0	0	0	221,000	221,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	24,000	24,000
Site Acquisition	0	0	0	0	0	0	184,000	184,000
Total Project Costs	0	0	0	0	0	0	208,000	208,000

Fund Level Costs

	0	0	0	0	0	0	13,000	13,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Property Warehouse

Area: CC
Objective(s): Expansion

Project Description

This project would entail developing an entirely new stand-alone Property Warehouse at a yet-to-be-determined site. However, this facility could be developed in concert with facilities for other compatible Police Bureau functions. General siting requirements for the facility include a minimum size of two acres situated at a location that affords convenient access to the Justice Center. As programmed, the new Property Warehouse would envelop 46,667 gross square feet and house up to 20 staff. On-site surface parking would be provided for all staff, plus six spaces for public visitors and five spaces that would be reserved for city vehicles. A single-story, mostly high-bay structure is envisioned for all storage areas. This type of construction would result in maximizing storage volume within a given floorplate and allow for the efficient movement, storage, and retrieval of materials. The primary components that would be located within the facility include but would not be limited to: a) public lobby/counter areas, official lobby and counter (1,706 sq. ft.); b) office areas (3,616 sq. ft.); c) property receiving and processing areas (5,056 sq. ft.); d) property disposal areas (4,444 sq. ft.); e) specialized storage areas (8,375 sq. ft.); f) general storage areas (23,158 sq. ft.); and, g) general support spaces (316 sq. ft.). It is anticipated that the pre-fabricated roll-off that is currently being purchased for Hazmat storage would be relocated to the new site.

Funding Sources

Revenue Bonds	0	0	0	0	13,517,000	0	0	13,517,000
Total Funding Sources	0	0	0	0	13,517,000	0	0	13,517,000

Project Costs

Design/ProjMgmt	0	0	0	0	2,578,000	0	0	2,578,000
Const/Equip	0	0	0	0	10,186,000	0	0	10,186,000
Total Project Costs	0	0	0	0	12,764,000	0	0	12,764,000

Fund Level Costs

	0	0	0	0	753,000	0	0	753,000
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Oper & Maint Costs

	0	0	0	0	0	468,000	468,000	936,000
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Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Regional Law Enforcement Training Academy

Area: CC
Objective(a): Expansion

Project Description

This project would establish a Regional Law Enforcement Training Academy that would primarily serve Clackamas, Multnomah, Washington, and Yamhill Counties. Combined, these four counties have 33 law enforcement agencies, which by year 2020 are forecast to employ approximately 4,000 total staff (sworn and civilian). It is envisioned that this facility would be arranged as a campus comprised of five complexes: Academic, Physical Training, Firearms, Patrol Tactics, and Driver Training. At this conceptual stage, a minimum site size of 80 acres would be required. In all, a total of 88,540 gross square feet of building space and 150 parking spaces would be developed.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	22,746,000	22,746,000
Total Funding Sources	0	0	0	0	0	0	22,746,000	22,746,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	4,337,000	4,337,000
Const/Equip	0	0	0	0	0	0	17,142,000	17,142,000
Total Project Costs	0	0	0	0	0	0	21,479,000	21,479,000
Fund Level Costs	0	0	0	0	0	0	1,267,000	1,267,000
Oper & Maint Costs	0	0	0	0	0	0	925,000	925,000

Southeast Precinct - Carpet Replacement

Area: SE
Objective(a): Repair/Maint Replacement

Project Description

This project is part of the long-term plan to maintain the appearance and condition of the building. This scheduled maintenance approach spreads costs and protects the investment in this asset. Carpet industry standards call for five- to seven- year replacement schedules. Since this is a 24-hour facility it is recommended that the carpets be replaced every five years.

Funding Sources

Bureau Revenues	0	0	0	90,000	0	0	0	90,000
Total Funding Sources	0	0	0	90,000	0	0	0	90,000

Project Costs

Design/ProjMgmt	0	0	0	10,000	0	0	0	10,000
Const/Equip	0	0	0	75,000	0	0	0	75,000
Total Project Costs	0	0	0	85,000	0	0	0	85,000
Fund Level Costs	0	0	0	5,000	0	0	0	5,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Southeast Precinct - Garage Maintenance

Area: SE
Objective(s): Repair/Maint

Project Description

This project is part of the long-term plan to maintain the condition of the structure. This scheduled maintenance approach spreads costs and protects the investment in this asset. This project includes resurfacing the lower deck of the parking structure and replacing the overhead garage door.

Funding Sources

Bureau Revenues	0	0	0	76,000	0	0	0	76,000
Total Funding Sources	0	0	0	76,000	0	0	0	76,000

Project Costs

Design/ProjMgmt	0	0	0	9,000	0	0	0	9,000
Const/Equip	0	0	0	63,000	0	0	0	63,000
Total Project Costs	0	0	0	72,000	0	0	0	72,000
Fund Level Costs	0	0	0	4,000	0	0	0	4,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Safety
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Expand Communications Center for Communications Services

Area: SE
Objective(s): Expansion

Project Description

This project will add approximately 3,500 square feet of space for staff and administrative needs by expanding the existing Communication Services and Shop wing towards 99th Avenue . The shop area needs a separate area for reception functions and has a need for more work areas for technicians. The expansion will follow the architecture and use the same materials of the existing building.

Funding Sources

General Obligation Bonds	0	0	387,000	388,000	0	0	0	775,000
Total Funding Sources	0	0	387,000	388,000	0	0	0	775,000

Project Costs

Design/ProjMgmt	0	0	42,570	57,000	0	0	0	99,570
Const/Equip	0	0	317,340	309,000	0	0	0	626,340
Total Project Costs	0	0	359,910	366,000	0	0	0	725,910
Fund Level Costs	0	0	27,090	22,000	0	0	0	49,090
Oper & Maint Costs	0	0	0	19,000	19,000	19,000	19,000	76,000

Capital Improvement Plan — Public Safety
Bureau of Police

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Public Safety								
Fleet Package								Area: N/A
								Objective(s): Expansion
Project Description								
This project supplies the bureau's fleet inventory to help maintain and improve services requiring this specialized equipment. This project was delayed due to the effects of Measures 47 and 50. Subsequently several police positions have been restored necessitating this request. The final two year request of equipment consists of 8 patrol vehicles, 1 paddy wagon, 3 staff (Lts) vehicles, 4 beat vehicles, 1 van for the Police Activities League, and 2 Chevrolet Tahoes for expanded patrols.								
Funding Sources								
General Fund Discretionary	945,000	229,000	0	0	0	0	0	0
Total Funding Sources	945,000	229,000	0	0	0	0	0	0
Project Costs								
Const/Equip	945,000	229,000	0	0	0	0	0	0
Total Project Costs	945,000	229,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	158,000	158,000	158,000	158,000	0	632,000

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Acquisitions									
ESA Land Acquisitions									
									Area: ALL
									Objective(s): Expansion
Project Description									
Identify and acquire land with critical habitat in terms of the Endangered Species Act listing of salmonids.									
Funding Sources									
Bureau Revenues									
Total Funding Sources	0	0	0	750,000	787,500	826,900	868,200	3,232,600	
Project Costs									
Design/ProjMgmt	0	0	0	75,000	78,750	82,690	86,820	323,260	
Site Acquisition	0	0	0	675,000	708,750	744,210	781,380	2,909,340	
Total Project Costs	0	0	0	750,000	787,500	826,900	868,200	3,232,600	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	15,825	31,650	47,475	94,950	
Greenspaces Land Acquisition									
									Area: ALL
									Objective(s): Expansion
Project Description									
Metro's approved Greenspaces Bond Measure included a local share. Portland Parks and Recreation's share is \$7.4 million to be used for acquisition of natural resource land and/or trail development.									
Funding Sources									
Intergovernmental	6,750,000	650,000	75,000	0	0	0	0	75,000	
Total Funding Sources	6,750,000	650,000	75,000	0	0	0	0	75,000	
Project Costs									
Planning	0	0	75,000	0	0	0	0	75,000	
Site Acquisition	6,750,000	650,000	0	0	0	0	0	0	
Total Project Costs	6,750,000	650,000	75,000	0	0	0	0	75,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	8,968	8,968	21,318	21,318	21,318	81,890	
Killingsworth Site Acquisition									
									Area: NE
									Objective(s): Expansion
Project Description									
PP&R, working with the Department of Environmental Quality, wants to acquire a 25-acre site near NE Killingsworth and 75th. In the long term, this site will provide an excellent opportunity for additional athletic fields. The expense PP&R will incur to acquire the site is in helping DEQ defray the cost of installing a methane gas collection system. Important as a recreational site, the Killingsworth property also helps the City meet some of its obligation for correcting park deficiencies in outer NE Portland.									
Funding Sources									
General Fund Discretionary	0	0	0	250,000	250,000	0	0	500,000	
Grants/Donations	0	0	0	800,000	0	0	0	800,000	
Total Funding Sources	0	0	0	1,050,000	250,000	0	0	1,300,000	
Project Costs									
Planning	0	0	0	105,000	25,000	0	0	130,000	
Site Acquisition	0	0	0	945,000	225,000	0	0	1,170,000	
Total Project Costs	0	0	0	1,050,000	250,000	0	0	1,300,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	15,862	16,338	16,828	17,333	66,361	

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

Old OMSI Annex Acquisition

Area: SW
Objective(s): Expansion

Project Description

The existing Children's Museum at Lair Hill Park is small and allows for limited programming. It is also an un-reinforced masonry building, and it lacks accessibility. Having evaluated the cost for seismically reinforcing the building and making it accessible, architectural and engineering consultants concluded it would cost approximately \$2,000,000. Also in modifying the building for these purposes, the result would be a building with less usable space than today. Based on these conclusions, Parks began a search for an alternate location for the Children's Museum, and the preferred location became the old OMSI Annex at Washington Park. The building is large, it can be adapted to a new museum purpose, it has available parking and transit access, and it complements the other institutions in this part of the park. This is the final payment to purchase OMSI's lease. Parks is also working with the Portland Rotary to raise money for the conversion of the OMSI Annex into a new Children's Museum. The Portland Rotary is raising approximately \$8,900,000 for this project but the city needs to provide over \$1,000,000 to assist with building renovation. See Old OMSI/Children's Museum Renovation. There will also be required pedestrian and bike path connections. See Zoo Interchange Sidewalk and Bike Path.

Funding Sources

General Fund Discretionary	2,200,000	200,000	200,000	0	0	0	0	200,000
Total Funding Sources	2,200,000	200,000	200,000	0	0	0	0	200,000

Project Costs

Site Acquisition	2,200,000	200,000	200,000	0	0	0	0	200,000
Total Project Costs	2,200,000	200,000	200,000	0	0	0	0	200,000

Fund Level Costs

	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

SDC Land Acquisition - Comm/Nbrhd Parks

Area: ALL
Objective(s): Expansion

Project Description

The Systems Development Charge Program is expected to eventually generate over \$1 million each year. Because applicants have the ability to defer payments, however, income from this program will start out slowly and build over time if the real estate market stays constant. If the number of housing starts declines, so will income from the program.

Funding Sources

Reserved	0	0	0	0	0	0	0	0
System Development Charges	350,000	793,296	2,140,508	2,180,000	1,535,000	1,190,000	1,195,000	8,240,508
Total Funding Sources	350,000	793,296	2,140,508	2,180,000	1,535,000	1,190,000	1,195,000	8,240,508

Project Costs

Planning	60,326	100,000	217,920	218,000	153,500	119,000	119,500	827,920
Site Acquisition	289,674	693,296	1,922,588	1,962,000	1,381,500	1,071,000	1,075,500	7,412,588
Total Project Costs	350,000	793,296	2,140,508	2,180,000	1,535,000	1,190,000	1,195,000	8,240,508

Fund Level Costs

	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	24,800	39,600	36,900	41,200	45,500	188,000

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

SDC Land Acquisition - Natural Areas

Area: ALL
Objective(s): Expansion

Project Description

The Systems Development Charge Program is expected to eventually generate over \$1 million each year. Because applicants have the ability to defer payments, however, income from this program will start out slowly and build over time if the real estate market stays constant. If the number of housing starts declines, so will income from the program.

Funding Sources

System Development Charges	0	0	500,000	0	0	0	0	500,000
Total Funding Sources	0	0	500,000	0	0	0	0	500,000

Project Costs

Planning	0	0	50,000	0	0	0	0	50,000
Site Acquisition	0	0	450,000	0	0	0	0	450,000
Total Project Costs	0	0	500,000	0	0	0	0	500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	15,298	30,595	30,595	30,595	107,083
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Springwater Corridor Lents Trailhead Acquisition

Area: SE
Objective(s): Expansion

Project Description

This project will acquire land and develop a trailhead on the Springwater Corridor in Lents (between 82nd and 111th Avenues). There is currently just a single Portland trailhead (at SW 45th Avenue) and more neighborhood access is needed. The 1992 Springwater Corridor Master Plan recognized the need for a trailhead in this location and it has become more important due to the Lents Urban Renewal District.

Funding Sources

General Fund Discretionary	0	0	0	100,000	0	0	0	100,000
Intergovernmental	0	0	40,000	150,000	0	0	0	190,000
Total Funding Sources	0	0	40,000	250,000	0	0	0	290,000

Project Costs

Planning	0	0	40,000	0	0	0	0	40,000
Site Acquisition	0	0	0	150,000	0	0	0	150,000
Const/Equip	0	0	0	100,000	0	0	0	100,000
Total Project Costs	0	0	40,000	250,000	0	0	0	290,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	8,265	8,265	5,265	21,795
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Aquatics

Pier Park Pool Rebuild

Area: N
Objective(s): Replacement
 Efficiency

Project Description

The Pier Park Pool needs total replacement, possibly even relocation.

Funding Sources

General Fund Discretionary	0	0	0	0	0	0	2,900,000	2,900,000
Total Funding Sources	0	0	0	0	0	0	2,900,000	2,900,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	290,000	290,000
Const/Equip	0	0	0	0	0	0	2,610,000	2,610,000
Total Project Costs	0	0	0	0	0	0	2,900,000	2,900,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Wading Pool Renovation Study

Area: ALL
Objective(s): Repair/Maint
 Replacement
 Mandated

Project Description

The Oregon Health Division has mandated that all wading pools need recirculation, filtration, and disinfection. All wading pools without water recirculation shall be renovated, or phased out of use and removed before June 1, 2004. As an operator of 32 existing wading pools, PPR must provide a plan and timetable for renovation / removal of all city facilities by December 31, 2001. The study will assess the condition of all wading pools, alternative design solutions and costs, and community needs. Once completed, the construction budget will be modified to reflect the study's findings.

Funding Sources

General Fund Discretionary	0	0	0	45,000	0	120,000	0	165,000
Total Funding Sources	0	0	0	45,000	0	120,000	0	165,000

Project Costs

Planning	0	0	0	45,000	0	0	0	45,000
Const/Equip	0	0	0	0	0	120,000	0	120,000
Total Project Costs	0	0	0	45,000	0	120,000	0	165,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Wilson High School Pool Renovation

Area: SW
Objective(s): Repair/Maint
 Replacement
 Mandated
 Efficiency

Project Description

The Wilson Pool is owned by Portland Public Schools and operated by PPR. Although the 1994 General Obligation Bond project provided accessible restrooms, lighting, lifeguard quarters and entry control, the existing mechanical system is failing. The shallow pool does not meet pool codes and the trip hazards and toe stubbers in the pool shell have also been documented by the County and State. Enough water leaks out in a summer season to refill the pools twice. The filtration is so poor that when the pools get really crowded the lifeguards can't see the pool bottom and the pool is closed until the water clears up. Repairs and/or replacement of pool piping, surge tanks, heat exchangers, pumps, filters, lights, chlorination, pool shell may be needed.

Funding Sources

General Fund Discretionary	0	0	63,000	0	475,000	0	0	538,000
General Obligation Bonds	450,000	0	0	0	0	0	0	0
Total Funding Sources	450,000	0	63,000	0	475,000	0	0	538,000

Project Costs

Planning	0	0	63,000	0	0	0	0	63,000
Const/Equip	0	0	0	0	475,000	0	0	475,000
Total Project Costs	0	0	63,000	0	475,000	0	0	538,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Facilities

Ankeny Dock at Waterfront Park

Area: CC
Objective(s): Repair/Maint

Project Description

Ankeny Dock is a popular attraction in Waterfront Park, and has been so since the first phase of the park's development in the late 1970s. Because of its age and use, there is a need to replace the 12x12 seats, 3x12 decking, 6x14 stairs, and the floating dock ramp. The proposal in the short run is to repair the existing dock. In the long run, it is proposed to redesign and replace the dock to avoid problems of security (the dock is below the seawall), and to provide for a floating dock that does not need to be removed if we have a particularly wet winter. Parks and Recreation has removed and replaced the dock eight times during high water since its installation. The cost of removal and replacement is approximately \$8,000.

Funding Sources

Fund Balance	0	0	104,000	0	0	0	0	104,000
Total Funding Sources	0	0	104,000	0	0	0	0	104,000

Project Costs

Const/Equip	0	0	104,000	0	0	0	0	104,000
Total Project Costs	0	0	104,000	0	0	0	0	104,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Com Center Furnishings & Equipment Replacement

Area: ALL
Objective(s): Replacement
Efficiency

Project Description

Replace old and worn out equipment such as chairs, tables, electronic equipment, drapes. Community Centers typically get heavy use and furnishings show wear and tear.

Funding Sources

General Fund Discretionary	0	0	0	31,000	0	0	0	31,000
Total Funding Sources	0	0	0	31,000	0	0	0	31,000

Project Costs

Const/Equip	0	0	0	31,000	0	0	0	31,000
Total Project Costs	0	0	0	31,000	0	0	0	31,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Community Music Center Hose Tower

Area: SE
Objective(s): Repair/Maint
Mandated

Project Description

Seismic improvements are needed in the "Hose Tower" of the Community Music Center. These improvements were deferred during the initial ADA and seismic improvements done in 1997 with bond funds and completed in 1998 with Capital dollars. The Building Bureau agreed to allow temporary occupancy of the structure with the condition that the remaining improvements be completed within three years. The tower structure is unreinforced brick that could topple into the building or street in an earthquake.

Funding Sources

General Fund Discretionary	800,000	0	0	20,600	604,000	0	0	624,600
Total Funding Sources	800,000	0	0	20,600	604,000	0	0	624,600

Project Costs

Design/ProjMgmt	0	0	0	20,600	0	0	0	20,600
Const/Equip	0	0	0	0	604,000	0	0	604,000
Total Project Costs	0	0	0	20,600	604,000	0	0	624,600

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Disabled Citizens Lift Van Replacement

Area: ALL
Objective(s): Replacement
 Efficiency

Project Description

Replacing the existing 1992 Ford van would provide more capacity, comfort, and safety. It is used to serve special needs of seniors and people with disabilities and new features would allow shorter waiting lists and service to more people. The current vehicle has such poor suspension that riders get motion sick. The fold-up seat and retractable tie-down system for serving people in wheelchairs is a vast improvement over physically unbolting, removing, and storing a seat. It is quicker and easier for staff as well as more secure for users.

Funding Sources

General Fund Discretionary	0	0	0	20,000	0	0	0	20,000
Total Funding Sources	0	0	0	20,000	0	0	0	20,000

Project Costs

Const/Equip	0	0	0	20,000	0	0	0	20,000
Total Project Costs	0	0	0	20,000	0	0	0	20,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	1,500	1,500	1,500	4,500

Fitness/Weight Room Equipment Replacement

Area: ALL
Objective(s): Replacement

Project Description

Replace outdated and worn out weight room and fitness equipment. Approximately 20 pieces of equipment are nearing the end of their useful life span and require constant repairs. Some worn parts are a safety hazard. New equipment is better designed and will give users a better and safer work out.

Funding Sources

General Fund Discretionary	0	0	0	0	53,000	0	0	53,000
Total Funding Sources	0	0	0	0	53,000	0	0	53,000

Project Costs

Const/Equip	0	0	0	0	53,000	0	0	53,000
Total Project Costs	0	0	0	0	53,000	0	0	53,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Fromel House Repairs

Area: SE
Objective(s): Repair/Maint

Project Description

Fromel House was a mid-year acquisition. This project is a Metro 26-26 Local Share, electrical improvements so it can be used as office space by Leach staff.

Funding Sources

Fund Balance	0	0	15,000	0	0	0	0	15,000
Total Funding Sources	0	0	15,000	0	0	0	0	15,000

Project Costs

Const/Equip	0	0	15,000	0	0	0	0	15,000
Total Project Costs	0	0	15,000	0	0	0	0	15,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Parks, Recreation and Culture
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PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Fulton Community Center Electrical Upgrade

Area: SW
Objective(s): Repair/Maint
 Replacement
 Expansion
 Efficiency

Project Description

The existing electrical system is inadequate, unsafe, and inaccessible. The electrical service needs replacement and the kitchen panel will be changed. Additional circuits can then be added to classrooms, office area, and boiler room.

Funding Sources

General Fund Discretionary	0	0	0	36,000	0	0	0	36,000
Total Funding Sources	0	0	0	36,000	0	0	0	36,000

Project Costs

Const/Equip	0	0	0	36,000	0	0	0	36,000
Total Project Costs	0	0	0	36,000	0	0	0	36,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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GOBI Closeout

Area: ALL
Objective(s): Repair/Maint

Project Description

This project represents \$1.5 million in GOBI Fund and \$1.1 million in Parks Construction Fund to close out the few remaining G.O. Bond projects. The \$1.1 million is the GOBI revenue reimbursement (i.e., partnership income from Waterfront Park, Softball Complex, etc.) that was credited to the Parks Construction Fund, where it will fund the last few GOBI projects. At present, there are about 11 projects still active.

Funding Sources

General Obligation Bonds	0	0	2,538,721	0	0	0	0	2,538,721
Total Funding Sources	0	0	2,538,721	0	0	0	0	2,538,721

Project Costs

Const/Equip	0	0	2,538,721	0	0	0	0	2,538,721
Total Project Costs	0	0	2,538,721	0	0	0	0	2,538,721

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Hillside Community Center Window Replacement

Area: NW
Objective(s): Repair/Maint
 Replacement
 Efficiency

Project Description

The existing windows on the side walls of the gym and rear of building are single pane lexan in wood frames. The wood has deteriorated so the windows don't seal well. This is not energy efficient and there is water damage to the gym floor. It is critical to replace the windows before the building framing is also damaged.

Funding Sources

General Fund Discretionary	0	0	0	43,000	0	0	0	43,000
Total Funding Sources	0	0	0	43,000	0	0	0	43,000

Project Costs

Const/Equip	0	0	0	43,000	0	0	0	43,000
Total Project Costs	0	0	0	43,000	0	0	0	43,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Montavilla Community Center Windows

Area: NE
Objective(s): Replacement
 Efficiency

Project Description

The existing windows are completely uninsulated glass or plastic in aluminum frames. Both building appearance and energy efficiency will be improved resulting in improved comfort to users of gym, locker rooms, kitchen, and classrooms.

Funding Sources

General Fund Discretionary	0	0	0	30,000	0	0	0	30,000
Total Funding Sources	0	0	0	30,000	0	0	0	30,000

Project Costs

Const/Equip	0	0	0	30,000	0	0	0	30,000
Total Project Costs	0	0	0	30,000	0	0	0	30,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Mt Tabor Yard/Maintenance Facility Renovation

Area: SE
Objective(s): Repair/Maint
 Replacement
 Mandated
 Expansion
 Efficiency

Project Description

The facilities at Mt Tabor Yard are at a critical stage. The 1999 PPR Maintenance Facilities Plan noted that minor repairs are no longer possible and that major repairs are necessary but not economic given the age, condition and obsolete design. All are very crowded, many are seismically inadequate, none meet ADA standards. A facilities assessment showed that only two existing buildings and the greenhouses are suitable for remodeling.

Funding Sources

General Fund Discretionary	0	0	0	69,000	200,000	200,000	0	469,000
Total Funding Sources	0	0	0	69,000	200,000	200,000	0	469,000

Project Costs

Planning	0	0	0	69,000	0	0	0	69,000
Const/Equip	0	0	0	0	200,000	200,000	0	400,000
Total Project Costs	0	0	0	69,000	200,000	200,000	0	469,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Msint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Prior Years	Revised	Adopted	Capital Plan				5-Year Total
		FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Multnomah Art Center Roof

Area: SW
Objective(s): Repair/Maint
 Replacement

Project Description

Multnomah Art Center is a remodeled school that Portland Parks and Recreation has adapted to arts purposes. The building is 65,000 square foot built-up and clay roofing system is beyond its useful life and in need of replacement. Numerous patches have been made to the roof, but the quantity and frequency of leaks is growing exponentially. A new roof will reduce maintenance costs associated with repairing leaks, help preserve the interior of the building from water damage, and eliminate unwelcome disruptions to the center's programs and operations. The re-roofing of the most critical areas has been started but the entire project can be phased over two years.

Funding Sources

General Fund Discretionary	0	0	436,500	0	0	0	0	436,500
Total Funding Sources	0	0	436,500	0	0	0	0	436,500

Project Costs

Const/Equip	0	0	436,500	0	0	0	0	436,500
Total Project Costs	0	0	436,500	0	0	0	0	436,500

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Old OMSI/Childrens Museum Renovation

Area: SW
Objective(s): Replacement
 Expansion
 Efficiency

Project Description

The new Children's Museum will be located at the Old OMSI site in Washington Park. The building is large and can be adapted to a new museum purpose. It has available parking and transit access and complements the other institutions in this part of the park. Parks is working with the Portland Rotary Club to raise money for the renovation/conversion. Rotary is raising approximately \$8,900,000 for this project but the city needs to provide over \$1,000,000 to assist with building renovation including fundamental building upgrades. Some of the funds will come from the Park Trust Fund. There will also be required pedestrian and bike path connections. See Zoo Interchange Sidewalk and Bike Path. Also see Old OMSI Annex/Children's Museum Acquisition.

Funding Sources

General Fund Discretionary	0	0	265,000	450,000	0	0	0	715,000
Grants/Donations	0	0	0	0	0	0	0	0
Others Financing	0	0	400,000	0	0	0	0	400,000
Total Funding Sources	0	0	665,000	450,000	0	0	0	1,115,000

Project Costs

Design/ProjMgmt	0	0	65,000	50,000	0	0	0	115,000
Const/Equip	0	0	600,000	400,000	0	0	0	1,000,000
Total Project Costs	0	0	665,000	450,000	0	0	0	1,115,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	302,000	269,000	237,000	206,000	1,014,000
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Pittock Mansion Masonry Maintenance

Area: NW
Objective(s): Repair/Maint

Project Description

The stone facing of the Mansion needs cleaning, spot repair, and tuckpointing. A masonry consolidant / strengthener may also be applied, depending on guidance of an architectural conservator. Previous flashing repair was the more urgent need but this maintenance has been delayed since the 1994 recommendations of the Historic Structure Report. After this catch-up work, it is estimated that \$25,000 should be budgeted for maintenance in every five year period.

Funding Sources

General Fund Discretionary	0	0	185,000	61,200	0	0	0	246,200
Total Funding Sources	0	0	185,000	61,200	0	0	0	246,200

Project Costs

Const/Equip	0	0	185,000	61,200	0	0	0	246,200
Total Project Costs	0	0	185,000	61,200	0	0	0	246,200

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	5,900	5,900	5,900	17,700
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
Portland Tennis Center Skylight								Area: NE
								Objective(s): Repair/Maint Replacement
Project Description								
Existing fiberglass skylights have reached end of life and repairs have been unsuccessful. The leaks on the tennis courts are a safety hazard and interrupt usage.								
Funding Sources								
General Fund Discretionary	0	0	0	37,000	0	0	0	37,000
Total Funding Sources	0	0	0	37,000	0	0	0	37,000
Project Costs								
Const/Equip	0	0	0	37,000	0	0	0	37,000
Total Project Costs	0	0	0	37,000	0	0	0	37,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
SE Outdoor Bulk Storage Area								Area: SE
								Objective(s): Replacement Efficiency
Project Description								
Bulk storage of leaves, plant debris, bark dust, playground chips, gravel, and topsoil is currently sited in Oaks Bottom Wildlife Refuge. The current location is unattractive and degrades the wildlife area. It will also become very visible when the OMSI to Springwater Trail opens in 2000. A new site of 20,000 square feet should be bought or leased in the industrial area along the Southern Pacific railroad between SE Powell Blvd and Holgate. The site should be fenced with bins for storing various materials. A paved circulation system should accommodate multiple vehicles, a 20 yard drop box and its loading ramp.								
Funding Sources								
General Fund Discretionary	0	0	0	207,000	0	0	0	207,000
Total Funding Sources	0	0	0	207,000	0	0	0	207,000
Project Costs								
Planning	0	0	0	5,000	0	0	0	5,000
Design/ProjMgmt	0	0	0	10,000	0	0	0	10,000
Site Acquisition	0	0	0	165,000	0	0	0	165,000
Const/Equip	0	0	0	27,000	0	0	0	27,000
Total Project Costs	0	0	0	207,000	0	0	0	207,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
Sellwood Community Center Fire/Life Safety Improvements								Area: SE
								Objective(a): Repair/Maint
Project Description								
Upgrade fire protection system and improve egress lighting to meet current codes requirements. The existing individual battery operated units are inadequate and could jeopardize the many youth and seniors using the facility. Early smoke/fire detection might also help preserve the mostly wooden structure in case of a fire.								
Funding Sources								
General Fund Discretionary	0	0	0	19,000	0	0	0	19,000
Total Funding Sources	0	0	0	19,000	0	0	0	19,000
Project Costs								
Const/Equip	0	0	0	19,000	0	0	0	19,000
Total Project Costs	0	0	0	19,000	0	0	0	19,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	300	300	300	300	1,200

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PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

St John's Racquet Center HVAC Replacement

Area: N
Objective(s): Replacement
 Efficiency

Project Description

The existing electric furnace need to be replaced with forced air gas units located in a modified attic area. The existing heating elements are old and failing. When repairs are needed, the elements need to be shipped to Florida. The center gets frequent complaints about air quality and temperature

Funding Sources

General Fund Discretionary	0	0	0	161,600	0	0	0	161,600
Total Funding Sources	0	0	0	161,600	0	0	0	161,600

Project Costs

Const/Equip	0	0	0	161,600	0	0	0	161,600
Total Project Costs	0	0	0	161,600	0	0	0	161,600
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	(1,000)	(1,000)	(1,000)	(1,000)	(4,000)

St Johns Racquet Center Skylight

Area: N
Objective(s): Repair/Maint
 Replacement

Project Description

Existing fiberglass skylights have reached end of life and repairs have been unsuccessful. The leaks on the tennis courts are a safety hazard and interrupt usage.

Funding Sources

General Fund Discretionary	0	0	0	37,000	0	0	0	37,000
Total Funding Sources	0	0	0	37,000	0	0	0	37,000

Project Costs

Const/Equip	0	0	0	37,000	0	0	0	37,000
Total Project Costs	0	0	0	37,000	0	0	0	37,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Transportation Program (Vans for Recreation Program)

Area: ALL
Objective(s): Expansion
 Efficiency

Project Description

Some citizens find lack of transportation is a significant barrier to participation in recreation programs. The short-term solution funded by the Youth Trust Fund is to rent four vans for the summer. It is expensive and fails to meet year-round needs. Both rental cost and demand are escalating so that it will be more cost effective to own and operate a small fleet of 11 vans. These would be phased in (2nd year rent 2 & own 2; 3rd year own 5; 4th year own 8; 5th year own 1) to spread the expense and replacement costs. Each van cost will cost about \$27,000 and Youth Trust Fund dollars should be available some years.

Funding Sources

General Fund Discretionary	0	0	0	44,000	84,000	86,500	89,100	303,600
Others Financing	0	0	0	10,000	0	0	0	10,000
Total Funding Sources	0	0	0	54,000	84,000	86,500	89,100	313,600

Project Costs

Const/Equip	0	0	0	54,000	84,000	86,500	89,100	313,600
Total Project Costs	0	0	0	54,000	84,000	86,500	89,100	313,600
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	7,200	18,000	28,800	39,600	93,600

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

University Park Community Center Rehabilitation

Area: N
Objective(s): Repair/Maint
 Replacement
 Efficiency

Project Description

The current rehabilitation project includes seismic, structural and systems upgrading for the main building wing. These improvements will not create any perception of improvement since they are "invisible" to the public. The additional funds will create a new entry lobby and some programmatic changes to the building interior. This will improve circulation, enhance visibility and control at the building entry, and improve building aesthetics.

Funding Sources

General Fund Discretionary	0	160,000	1,228,000	0	0	0	0	1,228,000
Total Funding Sources	0	160,000	1,228,000	0	0	0	0	1,228,000

Project Costs

Planning	0	24,000	0	0	0	0	0	0
Design/ProjMgmt	0	103,000	20,000	0	0	0	0	20,000
Const/Equip	0	33,000	1,208,000	0	0	0	0	1,208,000
Total Project Costs	0	160,000	1,228,000	0	0	0	0	1,228,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	60,600	60,600	60,600	60,600	242,400

Urban Forestry / Delta Park Maintenance Headquarters

Area: N
Objective(s): Repair/Maint
 Replacement
 Mandated
 Efficiency

Project Description

The Urban Forestry and Delta Park Maintenance Headquarters consists of a residential house, a barn, and a recreational bathhouse which have been converted to other uses despite significant limitations. The house serves as headquarters for the Forestry Division. The barn has crew offices and storage of equipment and vehicles ranging from trucks to cherry pickers. The bathhouse is used for storage and headquarters space for the Delta Park maintenance crews. All of the structures are in unacceptable physical condition and poorly adapted to current uses. The 1999 PPR Maintenance Facilities Plan rated all as marginal due to numerous environmental concerns such as asbestos, buried fuel tanks, lead paint, and fertilizer storage. All need to be brought up to code for seismic and wind loading and basic structures may be inadequate.

Funding Sources

General Fund Discretionary	0	0	0	92,000	400,000	600,000	0	1,092,000
Total Funding Sources	0	0	0	92,000	400,000	600,000	0	1,092,000

Project Costs

Planning	0	0	0	92,000	0	0	0	92,000
Const/Equip	0	0	0	0	400,000	600,000	0	1,000,000
Total Project Costs	0	0	0	92,000	400,000	600,000	0	1,092,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	11,700	11,700	23,400

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Golf

Heron Lakes Clubhouse Design

Area: N
Objective(s): Repair/Maint

Project Description

Design and construct a suitable support facility for the 36-hole course at Heron Lakes.

Funding Sources

Service Charges and Fees	0	600,000	391,071	4,286,568	0	0	0	4,677,639
Total Funding Sources	0	600,000	391,071	4,286,568	0	0	0	4,677,639

Project Costs

Design/ProjMgmt	0	600,000	91,071	86,568	0	0	0	177,639
Const/Equip	0	0	300,000	4,200,000	0	0	0	4,500,000
Total Project Costs	0	600,000	391,071	4,286,568	0	0	0	4,677,639

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Minor Capital Golf Maintenance

Area: ALL
Objective(s): Repair/Maint
 Replacement
 Efficiency

Project Description

Generic category for relatively small projects necessary to maintain the value of the Golf system assets. In FY00-01, these include new carpet for the Heron Lakes Clubhouse and painting the trim at the Eastmoreland Clubhouse.

Funding Sources

Service Charges and Fees	0	0	50,000	200,000	200,000	0	0	450,000
Total Funding Sources	0	0	50,000	200,000	200,000	0	0	450,000

Project Costs

Const/Equip	0	0	50,000	200,000	200,000	0	0	450,000
Total Project Costs	0	0	50,000	200,000	200,000	0	0	450,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Rose City Golf Course Clubhouse

Area: E
Objective(s): Repair/Maint
 Replacement

Project Description

Extensive remodeling of Rose City Clubhouse, needed to meet current codes and upgrade structure.

Funding Sources

Service Charges and Fees	0	0	0	0	290,031	1,793,632	0	2,083,663
Total Funding Sources	0	0	0	0	290,031	1,793,632	0	2,083,663

Project Costs

Design/ProjMgmt	0	0	0	0	90,031	93,632	0	183,663
Const/Equip	0	0	0	0	200,000	1,700,000	0	1,900,000
Total Project Costs	0	0	0	0	290,031	1,793,632	0	2,083,663

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Topdressing Program at Rose City and Eastmoreland									
								Area:	N/A
								Objective(s):	Repair/Maint
Project Description									
Improve conditions of existing fairways.									
Funding Sources									
Service Charges and Fees	40,000	40,000	41,400	42,849	44,329	45,901	0	174,479	
Total Funding Sources	40,000	40,000	41,400	42,849	44,329	45,901	0	174,479	
Project Costs									
Const/Equip	40,000	40,000	41,400	42,849	44,329	45,901	0	174,479	
Total Project Costs	40,000	40,000	41,400	42,849	44,329	45,901	0	174,479	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Natural Areas									
Columbia South Shore Trail									
								Area:	N
								Objective(s):	Expansion
Project Description									
Begin planning and land acquisition for trail construction along the Columbia Slough. Entire trail will eventually be 4.4 miles long.									
Funding Sources									
Intergovernmental	0	75,000	473,000	473,000	0	0	0	946,000	
Total Funding Sources	0	75,000	473,000	473,000	0	0	0	946,000	
Project Costs									
Planning	0	75,000	0	0	0	0	0	0	
Design/ProjMgmt	0	0	47,300	47,300	0	0	0	94,600	
Site Acquisition	0	0	200,000	0	0	0	0	200,000	
Const/Equip	0	0	225,700	425,700	0	0	0	651,400	
Total Project Costs	0	75,000	473,000	473,000	0	0	0	946,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	12,350	12,350	12,350	37,050	
Hoyt Arboretum Entrance Plaza and Trail									
								Area:	SW
								Objective(s):	Mandated Expansion
Project Description									
The old entrance to Hoyt Arboretum was obliterated by construction of the Westside Light Rail Station and reconfiguration of the Metro Oregon Zoo entrance. A modest gateway/plaza with entrance sign and location map will welcome and orient visitors to the arboretum. The trail will complete the missing link in the existing accessible route to Hoyt Arboretum Visitor Center. Safety will be improved because pedestrians are currently forced to share a narrow, unmarked road with vehicular traffic.									
Funding Sources									
Bureau Revenues	0	0	0	59,500	0	0	0	59,500	
General Fund Discretionary	0	0	0	100,000	0	0	0	100,000	
Total Funding Sources	0	0	0	159,500	0	0	0	159,500	
Project Costs									
Design/ProjMgmt	0	0	0	22,500	0	0	0	22,500	
Const/Equip	0	0	0	137,000	0	0	0	137,000	
Total Project Costs	0	0	0	159,500	0	0	0	159,500	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	2,900	2,900	2,900	2,900	11,600	

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Lower Macleay Park Restroom & Trailhead

Area: NW
Objective(s): Repair/Maint

Project Description

Upgrade this well-used neighborhood park and entrance to Forest Park. Improve seating. Fencing, drainage for the recreational field, and accessibility to the parking and restroom facilities.

Funding Sources

Bureau Revenues	0	0	104,000	0	0	0	0	104,000
Intergovernmental	0	0	50,000	0	0	0	0	50,000
Others Financing	0	0	40,000	0	0	0	0	40,000
Total Funding Sources	0	0	194,000	0	0	0	0	194,000

Project Costs

Const/Equip	0	0	194,000	0	0	0	0	194,000
Total Project Costs	0	0	194,000	0	0	0	0	194,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	2,900	2,900	2,900	2,900	11,600
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Marquam Nature Park Display Case Replacement

Area: SW
Objective(s): Replacement

Project Description

Replace the three 6' by 30" wood display cases that are deteriorating. The Friends of Marquam Nature Park have purchased the panels to be displayed

Funding Sources

General Fund Discretionary	0	0	0	0	0	26,950	0	26,950
Total Funding Sources	0	0	0	0	0	26,950	0	26,950

Project Costs

Const/Equip	0	0	0	0	0	26,950	0	26,950
Total Project Costs	0	0	0	0	0	26,950	0	26,950

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Natural Resources Field Office on Eastside

Area: SE
Objective(s): Expansion
 Efficiency

Project Description

With recent trail development and land acquisition, staff and equipment storage space will expand beyond capacity of current location. The existing facility underneath the bleachers at Walker Stadium in Lents Park is already inadequate and is shared with ballfield maintenance, recreation, and the southeast district. Depending on site selected, the Springwater Corridor Lents Trailhead might accommodate this facility. Project budget is preliminary pending determination of whether additional acquisition dollars might be needed.

Funding Sources

General Fund Discretionary	0	0	0	0	61,000	754,000	0	815,000
Total Funding Sources	0	0	0	0	61,000	754,000	0	815,000

Project Costs

Planning	0	0	0	0	21,000	0	0	21,000
Design/ProjMgmt	0	0	0	0	40,000	31,000	0	71,000
Const/Equip	0	0	0	0	0	723,000	0	723,000
Total Project Costs	0	0	0	0	61,000	754,000	0	815,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	20,500	20,500
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

Natural Resources Field Office on Westside

Area: W
Objective(s): Expansion
 Efficiency

Project Description

The facilities at Hoyt Arboretum are in good condition. They house offices and maintenance equipment for both Hoyt Arboretum and Forest Park, serving as crew headquarters and supervisor's office. Space for expansion is limited and when the arboretum needs the entire space, Forest Park staff and equipment will need to be relocated. According to the Forest Park Natural Resources Management Plan, a site in the US Highway 30 area would best serve the park and its proposed major new entry at US 30 and NW 30th.

Funding Sources

General Fund Discretionary	0	0	0	0	0	62,800	776,600	839,400
Total Funding Sources	0	0	0	0	0	62,800	776,600	839,400

Project Costs

Planning	0	0	0	0	0	20,000	0	20,000
Design/ProjMgmt	0	0	0	0	0	42,800	35,000	77,800
Site Acquisition	0	0	0	0	0	0	150,000	150,000
Const/Equip	0	0	0	0	0	0	591,600	591,600
Total Project Costs	0	0	0	0	0	62,800	776,600	839,400
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Oaks Bottom Connector to OMSI-Springwater Trail

Area: SE
Objective(a): Expansion

Project Description

This trail will connect to the OMSI-Springwater Trail to be opened in 2000

Funding Sources

Intergovernmental	0	0	74,700	0	0	0	0	74,700
Total Funding Sources	0	0	74,700	0	0	0	0	74,700

Project Costs

Const/Equip	0	0	74,700	0	0	0	0	74,700
Total Project Costs	0	0	74,700	0	0	0	0	74,700
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	3,088	3,088	3,088	3,088	12,352

Oaks Bottom Culvert Replacement Feasibility Study

Area: SE
Objective(s): Mandated

Project Description

This study will determine the feasibility of removing the existing culvert that connects Oaks Bottom Wildlife Refuge to the Willamette River and replacing it with either a "fish-friendly" culvert or possibly a trestle. The existing culvert runs through a railroad ballast that essentially acts as a dike between the river and its floodplain. The limited opening creates a strong flow and safety hazard when a woman drowned trying to rescue a dog. Parks staff will manage the work of specialized consultants and coordinate the planning effort with BES, DSL, OFD, USFW, the Corps and NMFS. Replacement of the culvert responds to the Endangered Species Act listing of salmonids.

Funding Sources

Grants/Donations	0	0	35,000	0	0	0	0	35,000
Total Funding Sources	0	0	35,000	0	0	0	0	35,000

Project Costs

Planning	0	0	35,000	0	0	0	0	35,000
Total Project Costs	0	0	35,000	0	0	0	0	35,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Red Electric Line Trail Feasibility Study

Area: SW
Objective(a): Expansion

Project Description

The Red Electric Line is an abandoned rail corridor which has the potential to be converted to a multi-use trail similar to the Springwater Corridor. It is a 4.5 mile long route that stretches from Willamette Park to SW Oleson Road. There are few east-west off-street bike/pedestrian trails in southwest Portland it was identified as the top trail priority of citizens working on the Southwest Neighborhood Plan. The study would investigate site, land use, ownership constraints and propose conceptual design solutions and budget. The route has the potential to create a significant alternative transportation route connecting four parks, five schools, a town center to the larger Forty Mile Loop and Willamette River Greenway systems. This is the local match to TEA21 funds which have been secured.

Funding Sources

Grants/Donations	0	0	130,000	0	0	0	0	130,000
General Fund Discretionary	0	0	18,000	0	0	0	0	18,000
Total Funding Sources	0	0	148,000	0	0	0	0	148,000

Project Costs

Planning	0	0	148,000	0	0	0	0	148,000
Total Project Costs	0	0	148,000	0	0	0	0	148,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Sellwood to Springwater Connection

Area: SE
Objective(s): Expansion

Project Description

This "missing link" would acquire and develop trail in the Springwater Corridor portion of the Forty Mile Loop. It would connect the first constructed segment (east of McLoughlin Blvd to Palms Road in Gresham) to the OMSI-Springwater segment that will soon be constructed along the Willamette River from the Museum to SE Umatilla Street. Railroad right-of-way exists and the west portion is being used for rail transport. Several bridges will be required.

Funding Sources

General Fund Discretionary	0	0	0	0	35,000	0	381,000	416,000
Grants/Donations	0	0	0	0	300,000	0	3,000,000	3,300,000
Total Funding Sources	0	0	0	0	335,000	0	3,381,000	3,716,000

Project Costs								
Planning	0	0	0	0	15,000	0	0	15,000
Design/ProjMgmt	0	0	0	0	15,000	0	507,000	522,000
Site Acquisition	0	0	0	0	305,000	0	0	305,000
Const/Equip	0	0	0	0	0	0	2,874,000	2,874,000
Total Project Costs	0	0	0	0	335,000	0	3,381,000	3,716,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Springwater Corridor from Rugg Road to Boring, OR

Area: SE
Objective(s): Expansion

Project Description

This project will provide design and construction for the east most three mile long section of the Springwater Corridor. Completion of this last section of trail becomes more important since development of the Boring to Estacada trail by Oregon State Parks is imminent. The completed trail system will connect the Eastbank Esplanade in Portland's city center to the communities of Milwaukie, Gresham, Boring and Estacada.

Funding Sources

General Fund Discretionary	0	0	0	76,200	0	0	0	76,200
Grants/Donations	0	0	0	600,000	0	0	0	600,000
Total Funding Sources	0	0	0	676,200	0	0	0	676,200

Project Costs								
Const/Equip	0	0	0	676,200	0	0	0	676,200
Total Project Costs	0	0	0	676,200	0	0	0	676,200

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	37,050	37,050	37,050	111,150

Capital Improvement Plan — Parks, Recreation and Culture

PROJECT DETAIL

Bureau of Parks and Recreation

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Springwater to OMSI Trail Completion

Area: SE
Objective(s): Expansion

Project Description

This is the final funding to develop the multi-use trail from OMSI to Umatilla Street in the Springwater Corridor of the Forty Mile Loop

Funding Sources

Grants/Donations	0	0	720,000	0	0	0	0	720,000
Intergovernmental	0	0	833,000	0	0	0	0	833,000
Others Financing	0	0	170,000	0	0	0	0	170,000
Total Funding Sources	0	0	1,723,000	0	0	0	0	1,723,000

Project Costs

Design/ProjMgmt	0	0	170,000	0	0	0	0	170,000
Const/Equip	0	0	1,553,000	0	0	0	0	1,553,000
Total Project Costs	0	0	1,723,000	0	0	0	0	1,723,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Whitaker Ponds Master Plan

Area: NE
Objective(s): Expansion
Efficiency

Project Description

A master plan is needed to guide development and additional land acquisition.

Funding Sources

General Fund Discretionary	0	0	0	0	40,000	0	0	40,000
Total Funding Sources	0	0	0	0	40,000	0	0	40,000

Project Costs

Planning	0	0	0	0	40,000	0	0	40,000
Total Project Costs	0	0	0	0	40,000	0	0	40,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Parks

Columbia Park Playground

Area: N
Objective(s): Expansion

Project Description

Local citizens and the Portsmouth Community Association have secured funds to create a new playground. \$10,000 will be sought from the Parks Trust Fund. Other donors include:

Funding Sources

Grants/Donations	0	0	30,000	0	0	0	0	30,000
Others Financing	0	0	10,000	0	0	0	0	10,000
Total Funding Sources	0	0	40,000	0	0	0	0	40,000

Project Costs

Design/ProjMgmt	0	0	4,000	0	0	0	0	4,000
Const/Equip	0	0	36,000	0	0	0	0	36,000
Total Project Costs	0	0	40,000	0	0	0	0	40,000

Fund Level Costs 0 0 0 0 0 0 0 0

Oper & Maint Costs 0 0 0 0 0 0 0 0

Community Gardens Development and Master Plan

Area: ALL
Objective(s): Mandated
Expansion
Efficiency

Project Description

Develop six new community Gardens that provide 150 garden plots throughout the city. Over 400 people are on the waiting lists for existing gardens so the master plan would determine long-terms needs and desirable garden locations.

Funding Sources

General Fund Discretionary	0	0	0	0	50,000	50,000	100,000	200,000
Total Funding Sources	0	0	0	0	50,000	50,000	100,000	200,000

Project Costs

Planning	0	0	0	0	40,000	0	0	40,000
Design/ProjMgmt	0	0	0	0	10,000	5,000	10,000	25,000
Site Acquisition	0	0	0	0	0	30,000	30,000	60,000
Const/Equip	0	0	0	0	0	15,000	60,000	75,000
Total Project Costs	0	0	0	0	50,000	50,000	100,000	200,000

Fund Level Costs 0 0 0 0 0 0 0 0

Oper & Maint Costs 0 0 0 0 0 9,400 18,800 28,200

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Creston Park Parking Lot Repaving

Area: SE
Objective(s): Repair/Maint

Project Description

This park attracts many users to its several group picnic areas and outdoor kitchen, an outdoor swim pool, playground with summer recreation program, and playing fields. The parking lot has patches on patches. Repaving will also eliminate the many areas of poor drainage.

Funding Sources

General Fund Discretionary	0	0	0	26,000	0	0	0	26,000
Total Funding Sources	0	0	0	26,000	0	0	0	26,000

Project Costs

Const/Equip	0	0	0	26,000	0	0	0	26,000
Total Project Costs	0	0	0	26,000	0	0	0	26,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Downtown District Trash Compactor

Area: CC
Objective(s): Efficiency

Project Description

A substantial amount of trash collected in the downtown and Washington Park district is paper trash. The compactor compresses this waste to about one-fifth its volume reducing hauling and tipping fees. The dry contained unit eliminates water weight and discourages illegal dumping. It is the first step of an eventual plan to use different garbage cans and compactor truck to alleviate employee injuries, reduce landfill volume, and reduce costs. Savings will offset purchase cost quickly enough to be funded through Mayor's Innovative Loan Program.

Funding Sources

Others Financing	0	0	35,000	0	0	0	0	35,000
Total Funding Sources	0	0	35,000	0	0	0	0	35,000

Project Costs

Const/Equip	0	0	35,000	0	0	0	0	35,000
Total Project Costs	0	0	35,000	0	0	0	0	35,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Eastbank Esplanade Phase III

Area: SE
Objective(s): Expansion

Project Description

This third section of the Eastbank Esplanade is located between OMSI and the Hawthorne Street Bridge, from Water Avenue west to the Willamette River. Design is just beginning and the area will not be open to the public for at least two years.

Funding Sources

Intergovernmental	0	0	65,000	68,000	71,000	0	0	204,000
Total Funding Sources	0	0	65,000	68,000	71,000	0	0	204,000

Project Costs

Planning	0	0	6,500	0	0	0	0	6,500
Design/ProjMgmt	0	0	58,500	6,800	7,100	0	0	72,400
Const/Equip	0	0	0	61,200	63,900	0	0	125,100
Total Project Costs	0	0	65,000	68,000	71,000	0	0	204,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	100,600	100,600	201,200
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Eastbank Esplanade Access Connections

Area: SE
Objective(s): Expansion

Project Description

The Eastbank Esplanade is a multi-phase project to develop a park across the river from Tom McCall Waterfront Park. The first two phases include a floating walkway and path heading from the Burnside Bridge towards the Steel Bridge plus pathway between the Burnside and Hawthorne Bridges. The third phase will extend south to OMSI. This project will improve east-west connections so that pedestrians and cyclists can access the riverside walk from the east instead of just from bridges.

Funding Sources

Intergovernmental	0	0	60,000	25,000	28,000	0	0	113,000
Total Funding Sources	0	0	60,000	25,000	28,000	0	0	113,000

Project Costs

Planning	0	0	60,000	0	0	0	0	60,000
Design/ProjMgmt	0	0	0	25,000	2,800	0	0	27,800
Const/Equip	0	0	0	0	25,200	0	0	25,200
Total Project Costs	0	0	60,000	25,000	28,000	0	0	113,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Eastbank Esplanade IIB

Area: SE
Objective(s): Expansion

Project Description

This is a technically challenging part of Phase II (between Hawthorne and Burnside Bridges), located on the bank below the fire station. See PDC CIP for prior phases and funding.

Funding Sources

Intergovernmental	0	0	86,000	0	0	0	0	86,000
Total Funding Sources	0	0	86,000	0	0	0	0	86,000

Project Costs

Design/ProjMgmt	0	0	8,600	0	0	0	0	8,600
Const/Equip	0	0	77,400	0	0	0	0	77,400
Total Project Costs	0	0	86,000	0	0	0	0	86,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Forest Heights Park Payback for Grading

Area: NW
Objective(s): Expansion

Project Description

This is payment for grading and tree removal done at the future park site by Portland Public Schools during construction of their adjacent school facility. Half will be funded through the Parks Trust Fund.

Funding Sources

General Fund Discretionary	0	0	0	40,000	0	0	0	40,000
Others Financing	0	0	0	40,000	0	0	0	40,000
Total Funding Sources	0	0	0	80,000	0	0	0	80,000

Project Costs

Const/Equip	0	0	0	80,000	0	0	0	80,000
Total Project Costs	0	0	0	80,000	0	0	0	80,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Gateway District Park Planning

Area: E
Objective(s): Expansion

Project Description

PDC has contracted with PPR to assist with the parks and recreation element of the Opportunity Gateway project. PPR staff will meet with the project team and public to access current and future needs for parks and recreation in the area. Programming for public spaces identified on the Opportunity Gateway Concept Plan will be developed. Land acquisition for open space as well as design and programming of open space in private development projects will be considered.

Funding Sources

Intergovernmental	0	0	25,000	0	0	0	0	25,000
Total Funding Sources	0	0	25,000	0	0	0	0	25,000

Project Costs

Planning	0	0	25,000	0	0	0	0	25,000
Total Project Costs	0	0	25,000	0	0	0	0	25,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Green Thumb Site Planning & Development

Area: SE
Objective(s): Expansion
 Efficiency

Project Description

Plan how to develop the existing Portland Public School Green Thumb site as a regional Horticultural Education Center. The site is to be acquired from PPS as part of the land for dollars trade. Following public outreach on programming and site design, PPR Community Garden program headquarters would be relocated to the site. PPR, PPS, community and horticultural groups would offer horticultural education at the demonstration gardens, display orchard, and community tree nursery that would be established. Funding needs and timeline will depend on magnitude of final site design.

Funding Sources

General Fund Discretionary	0	0	0	0	0	150,800	491,800	642,600
Total Funding Sources	0	0	0	0	0	150,800	491,800	642,600

Project Costs

Planning	0	0	0	0	0	30,000	0	30,000
Design/ProjMgmt	0	0	0	0	0	30,000	50,000	80,000
Const/Equip	0	0	0	0	0	90,800	441,800	532,600
Total Project Costs	0	0	0	0	0	150,800	491,800	642,600

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Hillside Park Playground & Soccer Field Improvement

Area: NW
Objective(s): Repair/Maint

Project Description

The I-405 fund is contributing \$10,200 towards improvements to the soccer field and \$29,362 towards improvements to the playground.

Funding Sources

Grants/Donations	0	0	39,562	0	0	0	0	39,562
Total Funding Sources	0	0	39,562	0	0	0	0	39,562

Project Costs

Design/ProjMgmt	0	0	4,000	0	0	0	0	4,000
Const/Equip	0	0	35,562	0	0	0	0	35,562
Total Project Costs	0	0	39,562	0	0	0	0	39,562

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Horticultural Services Equipment

Area: ALL
Objective(s): Replacement
Expansion
Efficiency

Project Description

Update old production equipment to increase efficiency, be more environmentally sensitive, and reduce worker injury. Purchases would include a compact landscape tractor with backhoe and bareroot tree harvester attachments and a hurdo-mulcher.

Funding Sources

General Fund Discretionary	0	0	0	0	109,500	0	0	109,500
Total Funding Sources	0	0	0	0	109,500	0	0	109,500

Project Costs

Const/Equip	0	0	0	0	109,500	0	0	109,500
Total Project Costs	0	0	0	0	109,500	0	0	109,500

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Jamieson Square (South Park)

Area: NW
Objective(s): Expansion

Project Description

This is the first of four park sites to be developed in the River District. Initial planning was provided through the River District/Tanner Creek project of last year's CIP. See project #119, now retitled River District North Square & Neighborhood Park, for prior dollars. Design development is underway and the project should be constructed in 2000-2001.

Funding Sources

Intergovernmental	0	0	2,000,000	0	0	0	0	2,000,000
Total Funding Sources	0	0	2,000,000	0	0	0	0	2,000,000

Project Costs

Design/ProjMgmt	0	0	200,000	0	0	0	0	200,000
Const/Equip	0	0	1,800,000	0	0	0	0	1,800,000
Total Project Costs	0	0	2,000,000	0	0	0	0	2,000,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	62,200	124,400	116,950	109,500	109,500	522,550
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Kelley Point Park Parking Lot Repaving

Area: N
Objective(s): Repair/Maint

Project Description

This project has been postponed for years so the asphalt is in very poor condition. The surface is difficult to clean and hard on both pedestrian and vehicles.

Funding Sources

General Fund Discretionary	0	0	0	61,800	0	0	0	61,800
Total Funding Sources	0	0	0	61,800	0	0	0	61,800

Project Costs

Const/Equip	0	0	0	61,800	0	0	0	61,800
Total Project Costs	0	0	0	61,800	0	0	0	61,800

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

Lents Park Automatic Irrigation

Area: SE
Objective(s): Repair/Maint
 Replacement
 Expansion

Project Description

This 38 acre community park needs a completed irrigation system. It contains a significant number of facilities(stadium, lighted softball & baseball fields, football & soccer fields, tennis & basketball courts, group picnic areas, wading pool, playground, jogging path, restroom) and gets heavy usage. The remnants of existing quick coupler system have been abandoned and the proposed system is needed to maintain healthy turf in high use areas. The Lents Neighborhood Association is particularly interested in the area around the new gazebo they helped construct. Water supplied from irrigation well must also be documented to maintain water rights.

Funding Sources

General Fund Discretionary	0	0	0	84,000	0	0	0	84,000
Total Funding Sources	0	0	0	84,000	0	0	0	84,000

Project Costs

Const/Equip	0	0	0	84,000	0	0	0	84,000
Total Project Costs	0	0	0	84,000	0	0	0	84,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Lents Town Center Urban Renewal Plan

Area: SE
Objective(s): Repair/Maint
 Expansion

Project Description

PDC is the lead agency responsible for the management, budgeting, and implementation of this plan. PDC has contracted with PPR to assist with the parks, recreation, and open space elements of the work plan. PPR staff will meet with the public and assess current and future needs for parks, open space, and recreation in the area. A list of desirable improvements to existing parks will be developed and prioritized. An inventory of land for possible acquisition and a multi-year capital improvement plan for parks will be developed. Construction documents, bidding, and construction management for an initial project are included.

Funding Sources

Intergovernmental	0	0	50,000	0	0	0	0	50,000
Total Funding Sources	0	0	50,000	0	0	0	0	50,000

Project Costs

Planning	0	0	50,000	0	0	0	0	50,000
Total Project Costs	0	0	50,000	0	0	0	0	50,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

North Macadam Urban Renewal District Greenway Trail

Area: SW
Objective(s): Expansion
 Efficiency

Project Description

Construct an 18 foot wide concrete pedestrian/bike path and other public amenities along the banks of the Willamette River in the North Macadam Urban Renewal District in Portland. Special improvements along this 1.2 mile stretch of the Willamette Greenway will include seating, lighting, directional and informational signage, rest stops, viewpoints, extensive plantings of native vegetation and interpretation of cultural, historical, and wildlife habitat landscape features.

Funding Sources

Intergovernmental	0	0	45,000	100,000	100,000	104,330	0	349,330
General Fund Discretionary	0	0	0	50,000	50,000	0	0	100,000
Grants/Donations	0	0	0	1,000,000	1,000,000	1,532,670	0	3,532,670
Total Funding Sources	0	0	45,000	1,150,000	1,150,000	1,637,000	0	3,982,000

Project Costs

Planning	0	0	45,000	35,000	0	0	0	80,000
Design/ProjMgmt	0	0	0	790,000	130,000	164,000	0	1,084,000
Const/Equip	0	0	0	325,000	1,020,000	1,473,000	0	2,818,000
Total Project Costs	0	0	45,000	1,150,000	1,150,000	1,637,000	0	3,982,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	155,200	155,200
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One Man Total Surveying Station

Area: ALL
Objective(s): Replacement
 Efficiency

Project Description

The existing equipment is a ten years old hand-me-down from the Water Bureau. Much of the twenty-five year old technology on which the current system relies is no longer available. The new equipment allows a single person (instead of two) to survey sites at a substantial cost savings. The more accurate, efficient system will allow quick utility locates, better as-built updates, and faster resolution of boundary disputes.

Funding Sources

Others Financing	0	0	0	38,000	0	0	0	38,000
Total Funding Sources	0	0	0	38,000	0	0	0	38,000

Project Costs

Const/Equip	0	0	0	38,000	0	0	0	38,000
Total Project Costs	0	0	0	38,000	0	0	0	38,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Parks Geographic Information System

Area: ALL
Objective(s): Repair/Maint
 Replacement
 Expansion
 Efficiency

Project Description

This critical, long-delayed project will integrate existing CAD and paper maps with electronic relational databases (such as the Park Inventory) into an on-line, graphical database with advanced search, display, and print capabilities. It will integrate with "Parkfinder" information and search tools based on existing "Mapworks" application. This would bring PPR into compliance with the Corporate GIS Business Plan and the IT Plan. The system would be compatible with and integrated with City-wide GIS to enable staff in other City bureaus such as PDOT, BES, Water, and OPDR to access park information.

Funding Sources

General Fund Discretionary	0	0	0	109,000	143,000	0	0	252,000
Total Funding Sources	0	0	0	109,000	143,000	0	0	252,000

Project Costs

Const/Equip	0	0	0	109,000	143,000	0	0	252,000
Total Project Costs	0	0	0	109,000	143,000	0	0	252,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	86,000	86,000	86,000	258,000
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Pittock Mansion Road and Culvert Repair

Area: SW
Objective(s): Repair/Maint
 Replacement

Project Description

The main entry road to Pittock Mansion is developing sections of sunken grade and is in danger of sliding downhill. Timely repair will reduce erosion and minimize cost. Any closure of this unique facility due to road failure would cause loss of access to a historic resource as well as funds (approx. \$350,000/year) needed by the Mansion and City Arts Program.

Funding Sources

General Fund Discretionary	0	0	0	26,000	0	0	0	26,000
Total Funding Sources	0	0	0	26,000	0	0	0	26,000

Project Costs

Design/ProjMgmt	0	0	0	6,000	0	0	0	6,000
Const/Equip	0	0	0	20,000	0	0	0	20,000
Total Project Costs	0	0	0	26,000	0	0	0	26,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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River District North Park Square & Neighborhood Park

Area: NW
Objective(s): Expansion

Project Description

This is a joint project with PDC and Parks. PDC is transferring planning, acquisition, and development funds for the River District to Parks. The project originally described under this ID Code (River District/Tanner Creek) is to include three park sites: South Park Square (now Jamieson Square), North Park Square, and Neighborhood Park.

Funding Sources

Intergovernmental	50,611	0	6,500	0	0	0	0	6,500
Total Funding Sources	50,611	0	6,500	0	0	0	0	6,500

Project Costs

Planning	506,110	0	6,500	0	0	0	0	6,500
Total Project Costs	506,110	0	6,500	0	0	0	0	6,500

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	318,600	318,600
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Sewallcrest Park Path and Lighting Upgrade

Area: SE
Objective(s): Replacement
Expansion
Efficiency

Project Description

Replace path that runs through center of park with 470 feet long 8' wide asphalt park path. Provide eight park lights on time clock to light area and path. Project will eliminate trip hazards, solve drainage and mud problems, increase park safety at night.

Funding Sources

General Obligation Bonds	113,787	0	0	89,000	0	0	0	89,000
Total Funding Sources	113,787	0	0	89,000	0	0	0	89,000

Project Costs

Const/Equip	0	0	0	89,000	0	0	0	89,000
Total Project Costs	0	0	0	89,000	0	0	0	89,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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South Park Block 5 (Moyer Donation)

Area: CC
Objective(s): Expansion

Project Description

This project will redevelop one of the "missing park blocks, a series of blocks between the North and South Park blocks that were initially planned as parks but developed commercially.

Funding Sources

Intergovernmental	0	0	50,000	0	0	0	0	50,000
Total Funding Sources	0	0	50,000	0	0	0	0	50,000

Project Costs

Planning	0	0	50,000	0	0	0	0	50,000
Total Project Costs	0	0	50,000	0	0	0	0	50,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	44,500	44,500	44,500	133,500
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Ventura Park Irrigation Renovation

Area: SE
Objective(s): Repair/Maint
Replacement
Efficiency

Project Description

A portion of the park has an old system inherited from Multnomah County Parks when it transferred ownership to the city. It was developed piecemeal and is completely inadequate. A booster pump is also needed. A renovated automatic system will operate a night minimizing labor and maximizing park use.

Funding Sources

General Fund Discretionary	0	0	0	67,500	0	0	0	67,500
Total Funding Sources	0	0	0	67,500	0	0	0	67,500

Project Costs

Const/Equip	0	0	0	67,500	0	0	0	67,500
Total Project Costs	0	0	0	67,500	0	0	0	67,500

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Washington Park Picnic Shelter Renovation

Area: SW
Objective(s): Repair/Maint
 Replacement
 Mandated

Project Description

The group picnic shelter near the International Rose Test Gardens is supported by four laminated wooden support beams. Their bases are exposed to the elements and are decaying. A short-term fix is needed to keep this facility in service until a new structure can be designed and constructed near the soccer field. Some structural inspection and architectural design should determine what minimal investment is necessary to safely extend life of this structure until an alternative is available. Given recent realignment of the intersection and other nearby park improvements, this location was determined not suitable for group picnic use in the long term.

Funding Sources

General Fund Discretionary	0	0	0	36,000	0	0	0	36,000
Total Funding Sources	0	0	0	36,000	0	0	0	36,000

Project Costs

Design/ProjMgmt	0	0	0	16,000	0	0	0	16,000
Const/Equip	0	0	0	20,000	0	0	0	20,000
Total Project Costs	0	0	0	36,000	0	0	0	36,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Washington Park Roads

Area: SW
Objective(s): Repair/Maint
 Replacement
 Efficiency

Project Description

The park roads in the north end of Washington Park are in extremely poor condition. Most were never constructed to carry Tri-met and tour buses or volumes of neighborhood commuters. This funding would be used for most critical minor repairs until bond funds can provide for needed reconstruction of major road segments.

Funding Sources

General Fund Discretionary	0	0	0	0	183,000	1,256,600	0	1,439,600
Total Funding Sources	0	0	0	0	183,000	1,256,600	0	1,439,600

Project Costs

Design/ProjMgmt	0	0	0	0	25,000	230,000	0	255,000
Const/Equip	0	0	0	0	158,000	1,026,600	0	1,184,600
Total Project Costs	0	0	0	0	183,000	1,256,600	0	1,439,600

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Parks, Recreation and Culture

PROJECT DETAIL

Bureau of Parks and Recreation

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Westmoreland Park - Crystal Springs Bank Stabilization

Area: SE
Objective(s): Repair/Maint
 Replacement
 Mandated

Project Description

Additional funds are needed to complete the short-term improvement plan currently funded. The creek bank will be stabilized and erosion controlled by armoring part of the creek bank with gravel and creating and planting terraces in other locations. These short-term improvements are in line with BESis Dames and Moore study of flooding in the neighborhood, they are anticipated by people in the affected area, and they will also help protect the trees and improvements in Westmoreland Park by channeling the flow of water.

Funding Sources

Fund Balance	0	0	207,000	0	0	0	0	207,000
General Fund Discretionary	0	221,000	0	125,000	0	0	0	125,000
Grants/Donations	0	0	0	950,000	0	0	0	950,000
Total Funding Sources	0	221,000	207,000	1,075,000	0	0	0	1,282,000

Project Costs

Const/Equip	0	221,000	207,000	1,075,000	0	0	0	1,282,000
Total Project Costs	0	221,000	207,000	1,075,000	0	0	0	1,282,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	33,000	44,000	44,000	44,000	165,000

Westmoreland Park Irrigation Well

Area: SE
Objective(s): Expansion
 Efficiency

Project Description

Install groundwater irrigation well in Westmoreland Park. This would reduce demand on City water system and save funds currently used to purchase expensive potable water.

Funding Sources

General Fund Discretionary	0	0	0	137,700	0	0	0	137,700
Total Funding Sources	0	0	0	137,700	0	0	0	137,700

Project Costs

Const/Equip	0	0	0	137,700	0	0	0	137,700
Total Project Costs	0	0	0	137,700	0	0	0	137,700

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Zoo Interchange Sidewalk and Bike path

Area: SW
 Expansion

Project Description

A sidewalk and bike path will connect the new Children's Museum in Washington Park (at Old OMSI site) to the intersection of SW Knights Blvd and Highway 26. This circulation improvement is likely to be a land use condition of approval for the project. The TEA21 funding is likely but not yet confirmed.

Funding Sources

Grants/Donations	0	0	1,129,243	0	0	0	0	1,129,243
General Fund Discretionary	0	0	130,000	0	0	0	0	130,000
Total Funding Sources	0	0	1,259,243	0	0	0	0	1,259,243

Project Costs

Planning	0	0	20,000	0	0	0	0	20,000
Design/ProjMgmt	0	0	105,000	0	0	0	0	105,000
Const/Equip	0	0	1,134,243	0	0	0	0	1,134,243
Total Project Costs	0	0	1,259,243	0	0	0	0	1,259,243

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Portland International Raceway									
P.I.R. Bridge #1									
Area:									N
Objective(s):									Expansion Efficiency
Project Description									
Build a 2-way vehicular bridge at the west end of PIR with a free span of approximately 75 feet.									
Funding Sources									
Service Charges and Fees	0	0	0	1,000,000	0	0	0	0	1,000,000
Total Funding Sources	0	0	0	1,000,000	0	0	0	0	1,000,000
Project Costs									
Const/Equip	0	0	0	1,000,000	0	0	0	0	1,000,000
Total Project Costs	0	0	0	1,000,000	0	0	0	0	1,000,000
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	(20,000)	(20,000)	(20,000)	(20,000)	(60,000)
P.I.R. Bridge #2									
Area:									N
Objective(s):									Expansion Efficiency
Project Description									
Build a 75' span pedestrian bridge between turns #3 and #4.									
Funding Sources									
Service Charges and Fees	0	0	0	0	0	250,000	0	0	250,000
Total Funding Sources	0	0	0	0	0	250,000	0	0	250,000
Project Costs									
Const/Equip	0	0	0	0	0	250,000	0	0	250,000
Total Project Costs	0	0	0	0	0	250,000	0	0	250,000
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	(8,500)	(8,500)
P.I.R. Cart Paddock									
Area:									N
Objective(s):									Repair/Maint
Project Description									
Expand and repair CART paddock, pave or repave interior roads and paths. We need to continue "building" the raceway, improving the facility to keep pace with the industry. This paving will have little impact as the roads average 20' wide and the paddock paving is mostly repairs.									
Funding Sources									
Service Charges and Fees	0	0	0	0	250,000	0	0	0	250,000
Total Funding Sources	0	0	0	0	250,000	0	0	0	250,000
Project Costs									
Const/Equip	0	0	0	0	250,000	0	0	0	250,000
Total Project Costs	0	0	0	0	250,000	0	0	0	250,000
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05			
P.I.R. Eastbank Seating										
									Area:	N
									Objective(s):	Replacement Expansion Efficiency
Project Description										
Terrace the east bank for more organized seating. Add shallow concrete walls with grass seating to maximize use.										
Funding Sources										
Service Charges and Fees	0	0	0	0	0	275,000	0	275,000		
Total Funding Sources	0	0	0	0	0	275,000	0	275,000		
Project Costs										
Const/Equip	0	0	0	0	0	275,000	0	275,000		
Total Project Costs	0	0	0	0	0	275,000	0	275,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	(1,000)	(1,000)		
P.I.R. Garages										
									Area:	N
									Objective(s):	Expansion
Project Description										
Construct garages and pit side suites. This construction helps keep pace with other facilities, increasing both event and non-event bottom lines.										
Funding Sources										
Service Charges and Fees	0	0	0	0	1,000,000	0	0	1,000,000		
Total Funding Sources	0	0	0	0	1,000,000	0	0	1,000,000		
Project Costs										
Const/Equip	0	0	0	0	1,000,000	0	0	1,000,000		
Total Project Costs	0	0	0	0	1,000,000	0	0	1,000,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	(20,000)	(20,000)		
P.I.R. Hot pits										
									Area:	N
									Objective(s):	Replacement Expansion Efficiency
Project Description										
The asphalt in hot pits will be replaced with concrete because the air jacks used by Indy cars make dents in the asphalt when it is hot creating unsafe conditions. Other improvements to keep the facility competitive, include moving the pit wall back 15 feet, changing the water delivery, and replacing fencing with pullout posts.										
Funding Sources										
Service Charges and Fees	0	0	0	0	250,000	0	0	250,000		
Total Funding Sources	0	0	0	0	250,000	0	0	250,000		
Project Costs										
Const/Equip	0	0	0	0	250,000	0	0	250,000		
Total Project Costs	0	0	0	0	250,000	0	0	250,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	0	0		

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

P.I.R. Irrigation

Area: N
Objective(s): Repair/Maint
Expansion
Efficiency

Project Description

Install an irrigation system in the Chalet area, west, and east end of track. This includes installing well at west end and regrading/reseeding area between track and guardrail and around Chalet. Entire cost is shown for FY 04-05 but would be phased. Maintenance cost reduction of \$15,000 and additional revenue of \$30,000 would also be phased in.

Funding Sources

Service Charges and Fees	0	0	0	0	0	400,000	0	400,000
Total Funding Sources	0	0	0	0	0	400,000	0	400,000

Project Costs

Const/Equip	0	0	0	0	0	400,000	0	400,000
Total Project Costs	0	0	0	0	0	400,000	0	400,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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P.I.R. Media Center

Area: N
Objective(s): Expansion
Efficiency

Project Description

The existing permanent press room is too small, so staff is using portables on an event to event basis. This building would be located behind the current timing and scoring building and would house press personnel during major events. At other times it could be used as a classroom, meeting room, catered dining room, etc.

Funding Sources

Service Charges and Fees	0	0	0	0	0	150,000	0	150,000
Total Funding Sources	0	0	0	0	0	150,000	0	150,000

Project Costs

Const/Equip	0	0	0	0	0	150,000	0	150,000
Total Project Costs	0	0	0	0	0	150,000	0	150,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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P.I.R. Repaving

Area: N
Objective(s): Repair/Maint
Expansion

Project Description

Repave entire racetrack, widen east and west end surfaces and change shape of turn # 9. CART has expressed safety concerns about the present asphalt. While the turns have been paved in 1992, the straight has not been paved since 1971. The track needs to be widened to be more accommodating to Indycars.

Funding Sources

Service Charges and Fees	0	0	0	750,000	0	0	0	750,000
Total Funding Sources	0	0	0	750,000	0	0	0	750,000

Project Costs

Const/Equip	0	0	0	750,000	0	0	0	750,000
Total Project Costs	0	0	0	750,000	0	0	0	750,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	(10,000)	(10,000)	(10,000)	(30,000)
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Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05			
P.I.R. Restroom #1										
									Area:	N
									Objective(s):	Replacement Expansion Efficiency
Project Description										
Replace the restroom and concession building near the amateur pits with a new, larger structure which will better serve current crowds.										
Funding Sources										
Service Charges and Fees	0	0	0	300,000	0	0	0	0	300,000	
Total Funding Sources	0	0	0	300,000	0	0	0	0	300,000	
Project Costs										
Const/Equip	0	0	0	300,000	0	0	0	0	300,000	
Total Project Costs	0	0	0	300,000	0	0	0	0	300,000	
Fund Level Costs	0	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	(25,000)	(25,000)	(25,000)	(25,000)	(75,000)	
P.I.R. Restrooms #2-4										
									Area:	N
									Objective(s):	Expansion Efficiency
Project Description										
Build two restrooms in the Chalet area and one at the west end. These restrooms would serve the hospitality area and make they area more usable and rentable. Portable toilets would still be added for large events but there would be substantial aesthetic and financial improvements.										
Funding Sources										
Service Charges and Fees	0	0	0	0	500,000	0	0	0	500,000	
Total Funding Sources	0	0	0	0	500,000	0	0	0	500,000	
Project Costs										
Const/Equip	0	0	0	0	500,000	0	0	0	500,000	
Total Project Costs	0	0	0	0	500,000	0	0	0	500,000	
Fund Level Costs	0	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	(33,000)	(33,000)	(33,000)	(66,000)	
P.I.R. Shops										
									Area:	N
									Objective(s):	Expansion
Project Description										
Build a series of tip-up or "pole barn" type warehouses for lease as shops, commissaries, retail outlet, etc.										
Funding Sources										
Service Charges and Fees	0	0	0	500,000	0	0	0	0	500,000	
Total Funding Sources	0	0	0	500,000	0	0	0	0	500,000	
Project Costs										
Const/Equip	0	0	0	500,000	0	0	0	0	500,000	
Total Project Costs	0	0	0	500,000	0	0	0	0	500,000	
Fund Level Costs	0	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	(76,000)	(76,000)	(76,000)	(76,000)	(228,000)	

Capital Improvement Plan — Parks, Recreation and Culture
Bureau of Parks and Recreation

PROJECT DETAIL

	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total
P.I.R. Water Quality Swales and Filters								
Project Description	Design and construct filters and cleansing swales at drains in paved areas. Cleaning stormwater before releasing to slough is mandated by BES and DEQ.							
Funding Sources								
Service Charges and Fees	0	0	0	176,000	0	0	0	176,000
Total Funding Sources	0	0	0	176,000	0	0	0	176,000
Project Costs								
Const/Equip	0	0	0	176,000	0	0	0	176,000
Total Project Costs	0	0	0	176,000	0	0	0	176,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	3,000	3,000	3,000	9,000

Area: N
Objective(s): Mandated
Expansion

Capital Improvement Plan — Parks, Recreation and Culture
Special Appropriations, Parks

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Land Acquisition								
Surplus School Property Acquisition								
Project Description								
Acquisition of surplus school property for use by Parks and Recreation.								
Funding Sources								
General Fund Discretionary	0	0	1,883,000	0	0	0	0	1,883,000
Total Funding Sources	0	0	1,883,000	0	0	0	0	1,883,000
Project Costs								
Site Acquisition	0	0	1,833,000	0	0	0	0	1,833,000
Total Project Costs	0	0	1,833,000	0	0	0	0	1,833,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Area: ALL
Objective(s): Expansion

**Capital Improvement Plan — Parks, Recreation and Culture
Spectator Facilities**

PROJECT DETAIL

	Revised		Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Civic Stadium									
Civic Stadium Redevelopment									
									Area: SW
									Objective(s): Repair/Maint
Project Description									
Redevelopment of Civic Stadium									
Funding Sources									
Others Financing	213,780	6,800,000	32,000,000	0	0	0	0	0	32,000,000
Total Funding Sources	213,780	6,800,000	32,000,000	0	0	0	0	0	32,000,000
Project Costs									
Planning	213,780	1,140,865	0	0	0	0	0	0	0
Const/Equip	0	5,659,135	32,000,000	0	0	0	0	0	32,000,000
Total Project Costs	213,780	6,800,000	32,000,000	0	0	0	0	0	32,000,000
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0
Memorial Coliseum									
Memorial Coliseum Maintenance/Repair									
									Area: NE
									Objective(s): Repair/Maint
Project Description									
Major maintenance improvements and repair for the Memorial Coliseum									
Funding Sources									
Bureau Revenues	258,539	125,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total Funding Sources	258,539	125,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Project Costs									
Const/Equip	258,539	125,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total Project Costs	258,539	125,000	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0
Parking Operations									
Rose Quarter Electronic Parking System									
									Area: NE
									Objective(s): Replacement
Project Description									
Electronic parking control to monitor and verify parking usage in order to track parking revenues. The system design would include remote programming that automatically computes and displays the fee due with the flexibility to allow pre-paid parking usage.									
Funding Sources									
Bureau Revenues	50,990	59,590	0	0	0	0	0	0	0
Total Funding Sources	50,990	59,590	0	0	0	0	0	0	0
Project Costs									
Const/Equip	50,990	59,590	0	0	0	0	0	0	0
Total Project Costs	50,990	59,590	0	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Combined Sewer Overflow

Ankeny Pump Station Upgrade

Area: CC
Objective(s): Mandated

Project Description

This project will upgrade the Ankeny Pump Station to increase pumping capacity that will be required as overflows are captured within the sewer system. The Ankeny Pump Station is expected to pump captured combined sewer overflow that currently discharges through six outfalls in Southwest Portland. On approximately 99 days each year, these outfalls discharge 560 million gallons of combined sewage to the Willamette River.

Funding Sources

Others Financing

Revenue Bonds

Service Charges and Fees

Total Funding Sources

Project Costs

Design/ProjMgmt

Site Acquisition

Const/Equip

Total Project Costs

Fund Level Costs

Oper & Maint Costs

	0	137,289	1,866,053	2,831,580	5,015,173	4,204,501	0	13,917,307
Design/ProjMgmt	0	114,289	1,866,053	372,085	0	0	0	2,238,138
Site Acquisition	0	23,000	0	0	0	0	0	0
Const/Equip	0	0	0	2,459,495	5,015,173	4,204,501	0	11,679,169
Total Project Costs	0	137,289	1,866,053	2,831,580	5,015,173	4,204,501	0	13,917,307
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Balch Force Main & River Crossing

Area: NW
Objective(s): Mandated

Project Description

The Balch River Crossing project will carry captured combined sewer overflow that currently discharges through outfalls in Northwest and Southwest Portland to the Wet Weather Treatment Facility. On approximately 99 days each year, these outfalls discharge 821 million gallons of combined sewage to the Willamette River. This river crossing will connect the Balch Pump Station to the Willamette Wet Weather Treatment Facility with a pressure pipeline that crosses under the Willamette river.

Funding Sources

Service Charges and Fees

Revenue Bonds

Others Financing

Total Funding Sources

Project Costs

Design/ProjMgmt

Const/Equip

Total Project Costs

Fund Level Costs

Oper & Maint Costs

Service Charges and Fees	0	0	862,124	292,887	593,683	3,500,753	2,809,587	8,059,034
Revenue Bonds	0	0	1,616,226	549,073	1,112,980	6,562,881	5,267,150	15,108,310
Others Financing	0	0	51,352	17,445	35,363	208,524	167,355	480,039
Total Funding Sources	0	0	2,529,702	859,405	1,742,026	10,272,158	8,244,092	23,647,383
Project Costs	0	0	2,529,702	859,405	30,000	0	0	3,419,107
Design/ProjMgmt	0	0	2,529,702	859,405	30,000	0	0	3,419,107
Const/Equip	0	0	0	0	1,712,026	10,272,158	8,244,092	20,228,276
Total Project Costs	0	0	2,529,702	859,405	1,742,026	10,272,158	8,244,092	23,647,383
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05			
Balch Pump Station										
									Area:	NW
									Objective(s):	Mandated
Project Description										
The Balch Pump Station is a new pump station which will be located between the Balch and Nicolai basins and will pump captured CSO from the west side conveyance/storage tunnel to a wet weather treatment facility located either on the east side of the Willamette River or at Columbia Boulevard. This project is part of the west side Willamette River combined sewer overflow control system. This system includes the SW Parallel Interceptor, Ankeny Pump Station Upgrade, Ankeny Force Main, Ankeny/Balch consolidation Conduit, Balch River Crossing and the Balch Pump Station. The capacity of the station is currently 80 MGD in the 1994 CSO Facilities Plan but may vary depending on the flow rates for the westside.										
Funding Sources										
Revenue Bonds	0	37,953	495,051	406,572	1,596,128	2,700,429	1,136,245	6,334,425		
Service Charges and Fees	0	20,247	264,069	216,873	851,402	1,440,456	606,094	3,378,894		
Others Financing	0	1,205	15,729	12,918	50,714	85,801	36,102	201,264		
Total Funding Sources	0	59,405	774,849	636,363	2,498,244	4,226,686	1,778,441	9,914,583		
Project Costs										
Planning	0	59,405	0	0	0	0	0	0		
Design/ProjMgmt	0	0	691,287	636,363	50,000	0	0	1,377,650		
Site Acquisition	0	0	83,562	0	0	0	0	83,562		
Const/Equip	0	0	0	0	2,448,244	4,226,686	1,778,441	8,453,371		
Total Project Costs	0	59,405	774,849	636,363	2,498,244	4,226,686	1,778,441	9,914,583		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	1,000	100,000	101,000		
California Pump Station Upgrade										
									Area:	SW
									Objective(s):	Mandated
Project Description										
To meet the Amended Stipulated Final Order (ASFO) regulatory requirements, the California Pump Station will have to be upgraded to approximately 8cfs (5mgd) with a new 16-inch force main (300 feet long) and a new wet well with a new inflow of 24-inches in diameter (200 feet in length). A more thorough analysis needs to be performed to see if a larger inflow conduit (48-inches or so) can be used to provide upstream storage and flow equalization to reduce the maximum pump rate required.										
Funding Sources										
Others Financing	0	0	3,331	3,966	10,136	8,956	0	26,389		
Revenue Bonds	0	0	104,848	124,827	319,012	281,880	0	830,567		
Service Charges and Fees	0	0	55,929	66,585	170,168	150,360	0	443,042		
Total Funding Sources	0	0	164,108	195,378	499,316	441,196	0	1,299,998		
Project Costs										
Planning	0	0	75,000	0	0	0	0	75,000		
Design/ProjMgmt	0	0	89,108	70,891	0	0	0	159,999		
Const/Equip	0	0	0	124,487	499,316	441,196	0	1,064,999		
Total Project Costs	0	0	164,108	195,378	499,316	441,196	0	1,299,998		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	0	0		

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP CSO Improvements

Area: N
Objective(s): Mandated

Project Description

This project will provide for design and construction of wet weather improvements to satisfy the treatment requirements for west side CSO flows. Phase I will have the capacity to treat all the flows from the west side of the Willamette. The proposal for the wet weather improvements includes an evaluation of the CBWTP disinfection system. Alternative methods of disinfection will be researched during the Willamette River Pre-design Project (6011) to try to minimize the environmental impact of the effluent from the treatment facility.

Funding Sources

Others Financing	2	2,364	29,336	29,336	12,377	35,119	187,167	293,335
Revenue Bonds	70	74,412	923,296	923,296	389,555	1,105,303	5,890,698	9,232,148
Service Charges and Fees	38	39,694	492,503	492,503	207,796	589,588	3,142,198	4,924,588
Total Funding Sources	110	116,470	1,445,135	1,445,135	609,728	1,730,010	9,220,063	14,450,071

Project Costs

Planning	78	0	0	0	0	0	0	0
Design/ProjMgmt	20	116,470	1,445,135	1,445,135	609,728	50,000	0	3,549,998
Const/Equip	12	0	0	0	0	1,680,010	9,220,063	10,900,073
Total Project Costs	110	116,470	1,445,135	1,445,135	609,728	1,730,010	9,220,063	14,450,071

Fund Level Costs

0 0 0 0 0 0 0 0 0

Oper & Maint Costs

0 0 0 0 0 0 0 0 0

CBWTP Influent Pump Station

Area: N
Objective(s): Mandated

Project Description

The Columbia Blvd. Wet Weather Treatment Facility (CBWWTF) Influent Pump Station will pump combined sewer overflows from the Columbia Slough Consolidation Conduit to the CBWWTF.

Funding Sources

Others Financing	159,511	45,983	17,606	0	0	0	0	17,606
Revenue Bonds	5,020,302	1,447,249	554,116	0	0	0	0	554,116
Service Charges and Fees	2,677,915	771,989	295,576	0	0	0	0	295,576
Total Funding Sources	7,857,728	2,265,221	867,298	0	0	0	0	867,298

Project Costs

Planning	259,240	0	0	0	0	0	0	0
Design/ProjMgmt	3,064,149	0	0	0	0	0	0	0
Const/Equip	4,534,339	2,265,221	867,298	0	0	0	0	867,298
Total Project Costs	7,857,728	2,265,221	867,298	0	0	0	0	867,298

Fund Level Costs

0 0 0 0 0 0 0 0 0

Oper & Maint Costs

0 0 72,000 72,000 72,000 72,000 72,000 360,000

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP Outfall

Area: N
Objective(s): Mandated

Project Description

This project will construct a second outfall pipeline/diffuser to expand the peak flow capacity of the Columbia Blvd. Wastewater Treatment Plant outfall system. The project involves connection to the existing 72-inch outfall pipeline. The new pipeline includes underwater crossing of the Columbia Slough; crossing of Hayden Island; connection to the new Hayden Island Dechlorination Facility; and, a diffuser in the Columbia River.

Funding Sources

Service Charges and Fees	2,369,084	2,651,664	433,494	0	0	0	0	433,494
Others Financing	141,116	157,948	25,821	0	0	0	0	25,821
Revenue Bonds	4,441,336	4,971,091	812,671	0	0	0	0	812,671
Total Funding Sources	6,951,536	7,780,703	1,271,986	0	0	0	0	1,271,986

Project Costs

Planning	1,182,180	0	0	0	0	0	0	0
Design/ProjMgmt	2,782,678	500	0	0	0	0	0	0
Site Acquisition	30,691	0	0	0	0	0	0	0
Const/Equip	2,955,987	7,780,203	1,271,986	0	0	0	0	1,271,986
Total Project Costs	6,951,536	7,780,703	1,271,986	0	0	0	0	1,271,986

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	7,400	7,400	7,400	7,400	7,400	37,000
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Cheltenham CSO Storage

Area: SW
Objective(s): Mandated

Project Description

The proposed project will construct a 6-foot diameter inline storage tank (830 feet long) along SW Cheltenham Street. The facility will provide part of the CSO reduction by dampening peak runoff rates from the steeply sloped residential area in the western part of the Carolina Basin. It will receive combined flows from two main trunk lines that flow down to Cheltenham. The stored flows will be then released at a controlled rate to the main Carolina trunk line that runs down the stream parallel to SW Capitol Highway.

Funding Sources

Others Financing	0	0	4,466	19,970	24,079	203	0	48,718
Service Charges and Fees	0	0	74,976	335,278	404,260	3,408	0	817,922
Revenue Bonds	0	0	140,558	628,545	757,867	6,389	0	1,533,359
Total Funding Sources	0	0	220,000	983,793	1,186,206	10,000	0	2,399,999

Project Costs

Planning	0	0	70,000	0	0	0	0	70,000
Design/ProjMgmt	0	0	150,000	20,000	0	0	0	170,000
Const/Equip	0	0	0	963,793	1,186,206	10,000	0	2,159,999
Total Project Costs	0	0	220,000	983,793	1,186,206	10,000	0	2,399,999

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Columbia Blvd Wet Weather Treatment Facilities

Area: N
Objective(s): Mandated

Project Description

The Columbia Blvd. Wet Weather Treatment Facility (CBWWTF) project consists of construction of new primary clarifiers to treat up to 120 MGD of dry weather flows, modifications of existing primary clarifiers to treat up to 240 MGD of wet weather flows, expansion of the existing chlorination system, modifications of the existing effluent pump station, construction of a new dechlorination facility, modifications of the screen house, odor control, and environmental enhancements as part of the commitment to the local communities.

Funding Sources

Service Charges and Fees	9,657,034	7,529,029	3,989,016	1,711,090	780,972	0	0	6,481,078
Others Financing	575,228	448,472	237,608	101,922	46,519	0	0	386,049
Revenue Bonds	18,104,102	14,114,718	7,478,233	3,207,789	1,464,093	0	0	12,150,115
Total Funding Sources	28,336,364	22,092,219	11,704,857	5,020,801	2,291,584	0	0	19,017,242

Project Costs

Planning	1,241,726	0	868,000	0	0	0	0	868,000
Design/ProjMgmt	8,585,402	50,500	59,992	0	0	0	0	59,992
Const/Equip	18,509,236	22,041,719	10,776,865	5,020,801	2,291,584	0	0	18,089,250
Total Project Costs	28,336,364	22,092,219	11,704,857	5,020,801	2,291,584	0	0	19,017,242

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	1,234,192	1,459,152	1,626,852	1,780,568	1,780,568	7,881,332
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Columbia Slough Consolidation Conduit

Area: N
Objective(s): Mandated

Project Description

This project is one of the four main projects in the Columbia Slough program that would capture, store, convey, and treat the CSO from the Columbia Slough basin. The other three main projects in the Columbia Slough program are the Influent Pump Station, Wet Weather Treatment Facility and the Outfall. The Consolidation Conduit is divided into six parts, being referred to as construction segments: Segment #1: 144" pipeline from Influent Pump Station to Outfall 58, Segment #2: 144" pipeline from Outfall 58 to Interstate 5, Segment #3: 72" pipeline from Interstate 5 to NE 13th Avenue, Segment #4: Restoration and Site Improvements, Segment #5: 36" Sewer and 48" Interceptor Relocation and utility relocation, and Segment #6: Odor Control Facilities at Interstate 5.

Funding Sources

Others Financing	1,006,614	326,983	143,657	2,634	0	0	0	146,291
Revenue Bonds	31,681,079	10,291,120	4,521,306	82,915	0	0	0	4,604,221
Service Charges and Fees	16,899,222	5,489,457	2,408,502	47,470	0	0	0	2,455,972
Total Funding Sources	49,586,915	16,107,560	7,073,465	133,019	0	0	0	7,206,484

Project Costs

Planning	2,134,617	0	0	0	0	0	0	0
Design/ProjMgmt	8,616,139	35,000	0	0	0	0	0	0
Site Acquisition	704,190	0	0	0	0	0	0	0
Const/Equip	38,131,969	16,072,560	7,073,465	133,019	0	0	0	7,206,484
Total Project Costs	49,586,915	16,107,560	7,073,465	133,019	0	0	0	7,206,484

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	38,000	38,000	38,000	118,000	38,000	270,000
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
DISCO - East Willamette Unsumped									
								Area:	E
								Objective(s):	Mandated
Project Description									
This project is for expanding the current scope and implementation of the Downspout Disconnection Program to include an unsumped area of 6,151 single family residential properties north of I-84. The Downspout Disconnection Program is completing field surveys of the properties in this area to determine the background rate of flow removal as well as to estimate the percentage of additional safe and effective disconnection. The neighborhoods in this area are suited for disconnection based on the program's experience working in other neighborhoods which were part of previous target areas.									
Funding Sources									
Others Financing	0	0	2,434	2,434	2,434	2,440	0	9,742	
Service Charges and Fees	0	0	40,869	40,869	40,869	40,981	0	163,588	
Revenue Bonds	0	0	76,614	76,614	76,614	76,825	0	306,667	
Total Funding Sources	0	0	119,917	119,917	119,917	120,246	0	479,997	
Project Costs									
Const/Equip	0	0	119,917	119,917	119,917	120,246	0	479,997	
Total Project Costs	0	0	119,917	119,917	119,917	120,246	0	479,997	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Fiske B Basin Local Separation									
								Area:	N
								Objective(s):	Mandated
Project Description									
Fiske B Basin is located on a bluff on the eastern bank of the Willamette River adjacent to the University of Portland campus. The basin is at an elevation of approximately 150 feet while the foot of the bluff is at an elevation of approximately 30 feet. The drainage area is 313 acres in size.									
Funding Sources									
Others Financing	43,706	232	76	0	0	0	0	76	
Service Charges and Fees	733,749	3,911	1,293	0	0	0	0	1,293	
Revenue Bonds	1,375,561	7,329	2,421	0	0	0	0	2,421	
Total Funding Sources	2,153,016	11,472	3,790	0	0	0	0	3,790	
Project Costs									
Planning	125,848	0	0	0	0	0	0	0	
Design/ProjMgmt	283,307	1,991	0	0	0	0	0	0	
Const/Equip	1,743,861	9,481	3,790	0	0	0	0	3,790	
Total Project Costs	2,153,016	11,472	3,790	0	0	0	0	3,790	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Northwest CSO Tunnel									
								Area:	NW
								Objective(s):	Mandated
Project Description									
This project will construct a tunnel system to convey combined sewage overflow from the new Ankeny consolidation conduit to the new Balch pump station. The tunnel is approximately 14 feet in diameter and 7,600 feet in length. It will serve as both conveyance and storage for the westside CSO system. The westside Willamette River combined sewer system includes the Southwest Parallel Interceptor, Ankeny Pump Station Upgrade, Ankeny Consolidation Conduit, Northwest CSO Tunnel, Balch Pump Station, Balch Force Main and River Crossing, and CBWTP CSO Improvements.									
Funding Sources									
Service Charges and Fees	0	0	1,113,959	1,113,959	1,960,786	8,252,235	8,229,688	20,670,627	
Revenue Bonds	0	0	2,088,344	2,088,344	3,675,896	15,470,516	15,428,247	38,751,347	
Others Financing	0	0	66,353	66,353	116,795	491,550	490,207	1,231,258	
Total Funding Sources	0	0	3,268,656	3,268,656	5,753,477	24,214,301	24,148,142	60,653,232	
Project Costs									
Design/ProjMgmt	0	0	3,268,656	3,268,656	1,717,761	0	0	8,255,073	
Const/Equip	0	0	0	0	4,035,716	24,214,301	24,148,142	52,398,159	
Total Project Costs	0	0	3,268,656	3,268,656	5,753,477	24,214,301	24,148,142	60,653,232	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Sellwood Basin Local Separation

Area: SE
Objective(s): Mandated

Project Description

This project will design and construct replacement sewers with in-line storage and detention in the Sellwood Combined Sewer Basin to reduce Combined Sewer Overflows (CSOs). Installation of sumps and an analysis of roof drain disconnections have been completed within this basin. Additional study and modeling of the basin with these actions in place have determined that additional separation or storage will be necessary to meet the City of Portland/DEQ Amended Stipulated and Final Order (AFSO) requirement.

Funding Sources

Service Charges and Fees	442,431	143,908	409,441	566,770	0	0	0	976,211
Revenue Bonds	829,427	269,781	767,579	1,062,525	0	0	0	1,830,104
Others Financing	26,353	8,571	24,388	33,759	0	0	0	58,147
Total Funding Sources	1,298,211	422,260	1,201,408	1,663,054	0	0	0	2,864,462

Project Costs

Planning	71,394	8,188	0	0	0	0	0	0
Design/ProjMgmt	162,163	204,960	78,742	721	0	0	0	79,463
Const/Equip	1,064,654	209,112	1,122,666	1,662,333	0	0	0	2,784,999
Total Project Costs	1,298,211	422,260	1,201,408	1,663,054	0	0	0	2,864,462

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	5,000	5,000	2,000	12,000
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Southwest Stream Diversion

Area: SW
Objective(s): Mandated

Project Description

This project combines the Sheridan, Woods and Carolina stream diversion projects into one project to promote overall west side solution and meet the design schedule for the Southwest Parallel Interceptor and Ankeny Pump Station. This project will remove stormwater from the combined sewer system to reduce the size and cost of the proposed Willamette River Combined Sewer Overflow conveyance and treatment facilities as identified in the Combined Sewer Overflow Management Plan-Final Facilities Plan completed in December 1994.

Funding Sources

Service Charges and Fees	0	0	615,573	783,713	701,721	637,064	635,323	3,373,394
Revenue Bonds	0	0	1,154,017	1,469,231	1,315,519	1,194,305	1,191,043	6,324,115
Others Financing	0	0	36,667	46,682	41,798	37,947	37,843	200,937
Total Funding Sources	0	0	1,806,257	2,299,626	2,059,038	1,869,316	1,864,209	9,898,446

Project Costs

Planning	0	0	172,474	0	0	0	0	172,474
Design/ProjMgmt	0	0	1,016,263	733,736	0	0	0	1,749,999
Site Acquisition	0	0	617,520	825,622	210,363	0	0	1,653,505
Const/Equip	0	0	0	740,268	1,848,675	1,869,316	1,864,209	6,322,468
Total Project Costs	0	0	1,806,257	2,299,626	2,059,038	1,869,316	1,864,209	9,898,446

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Stormwater Infiltration Sump Projects

Area: ALL
Objective(s): Mandated

Project Description

This project involves the construction of a number of sumps to reduce the overall volume of stormwater flow into the combined sewer system and to ultimately reduce the number of CSOs to the Willamette River. Infiltration sumps reduce Combined Sewer Overflows (CSOs) in the Willamette and Columbia Slough Basins by collecting stormwater that would normally enter the combined sewer system, and discharging it into the soil. Sumps are constructed in low-traffic intersections serving residential areas. Surface runoff from streets, driveways, sidewalks, and other non-percolating areas is directed to the sump via storm inlets. In areas where the Downspout Disconnect Program is operating, the sumps also collect excess stormwater from residential properties.

Funding Sources

Revenue Bonds	17,209,586	597,789	1,177,173	1,177,173	0	0	0	2,354,346
Service Charges and Fees	9,179,884	318,873	627,925	627,925	0	0	0	1,255,850
Others Financing	546,806	18,993	37,402	37,402	0	0	0	74,804
Total Funding Sources	26,936,276	935,655	1,842,500	1,842,500	0	0	0	3,685,000

Project Costs

Planning	193,858	0	0	0	0	0	0	0
Design/ProjMgmt	1,177,718	77,207	75,000	75,000	0	0	0	150,000
Site Acquisition	116	0	0	0	0	0	0	0
Const/Equip	25,564,584	858,448	1,767,500	1,767,500	0	0	0	3,535,000
Total Project Costs	26,936,276	935,655	1,842,500	1,842,500	0	0	0	3,685,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	6,000	6,000	6,000	6,000	24,000

SW CSO Parallel Interceptor

Area: SW
Objective(s): Mandated

Project Description

The Southwest CSO Control System incorporates the integrated elements that are required for controlling the combined sewer overflow (CSO) from the California, Carolina, Lowell, Woods, and Sheridan Systems. The key components of the SW CSO Control System include elements that were previously included in the FY1999-2003 CIP as separate, independent projects: California Storage Tank - Project #5502; Carolina/California Consolidation Conduit - Project #5523; and, Woods/Sheridan/Mill Consolidation Conduit - Project #5511.

Funding Sources

Others Financing	0	12,101	78,653	215,549	73,227	0	0	367,429
Revenue Bonds	0	380,878	2,475,446	6,783,955	2,304,686	0	0	11,564,087
Service Charges and Fees	0	203,168	1,320,446	3,618,677	1,229,359	0	0	6,168,482
Total Funding Sources	0	596,147	3,874,545	10,618,181	3,607,272	0	0	18,099,998

Project Costs

Design/ProjMgmt	0	596,147	2,100,000	0	0	0	0	2,100,000
Const/Equip	0	0	1,774,545	10,618,181	3,607,272	0	0	15,999,998
Total Project Costs	0	596,147	3,874,545	10,618,181	3,607,272	0	0	18,099,998
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Tanner Creek Basin Stream Diversion									
								Area:	NW
								Objective(s):	Mandated
Project Description									
This project is for the design and construction of a stream diversion pipe in the Tanner Creek basin to divert stormwater from entering the combined sewer system, providing increased capacity for sanitary sewage. The Tanner Creek Basin is served by a combined sewer system. Much of the stormwater runoff comes from forested areas in the upper basin and is clean enough for direct discharge to the Willamette River. Removal of these clean water flows from the Tanner Creek combined sewer system will greatly reduce the CSOs from the Tanner Creek basin. This will also free up capacity in the West Central Interceptor, Ankeny Pump Station and Treatment Plant which is needed for sanitary sewage.									
Funding Sources									
Grants/Donations	1,736,639	1,624,312	3,016,050	3,335,476	440,514	0	0	6,792,040	
Revenue Bonds	3,690,360	3,451,665	6,409,109	7,087,889	936,095	0	0	14,433,093	
Total Funding Sources	5,426,999	5,075,977	9,425,159	10,423,365	1,376,609	0	0	21,225,133	
Project Costs									
Planning	176,662	0	0	0	0	0	0	0	
Design/ProjMgmt	2,160,731	239,619	1,114,595	10,513	0	0	0	1,125,108	
Const/Equip	3,089,606	4,836,358	8,310,564	10,412,852	1,376,609	0	0	20,100,025	
Total Project Costs	5,426,999	5,075,977	9,425,159	10,423,365	1,376,609	0	0	21,225,133	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Western Half Lents 1 Separation									
								Area:	SE
								Objective(s):	Mandated
Project Description									
This project will construct a new storm water sewer pipeline allowing the existing system to carry only the sanitary flow. This new pipeline will remove the storm water flow from the combination system thereby reducing flow to the Hamey Pump Station, and the southeast interceptor. The Western Half Lents 1 Sewer Separation project is one of the east side Cornerstone Projects identified by the CSO Management Plan to separate the storm flow from the combined sewer system by constructing a new storm only system and using the existing system as a sanitary only system.									
Funding Sources									
Revenue Bonds	35,774	600,557	813,230	781,379	0	0	0	1,594,609	
Others Financing	1,136	19,081	25,839	24,827	0	0	0	50,666	
Service Charges and Fees	19,084	320,348	433,791	416,801	0	0	0	850,592	
Total Funding Sources	55,994	939,986	1,272,860	1,223,007	0	0	0	2,495,867	
Project Costs									
Planning	929	0	0	0	0	0	0	0	
Design/ProjMgmt	54,800	195,807	95,549	0	0	0	0	95,549	
Const/Equip	265	744,179	1,177,311	1,223,007	0	0	0	2,400,318	
Total Project Costs	55,994	939,986	1,272,860	1,223,007	0	0	0	2,495,867	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	9,500	9,500	

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Willamette Basin Downspout DP

Area: S
Objective(s): Mandated

Project Description

Research completed for the CSO Management Plan suggested that disconnecting downspouts at single family residential properties could remove substantial volume of inflow from the combined sewer, reduce sewer backup problems and prevent the need for new and expensive facilities to handle the combined sewage. This project will focus on 15,000-20,000 properties in sumped areas which drain to the Willamette River including Sellwood sewer basin. Disconnecting residential downspouts is simple, inexpensive and offers a tangible way for City residents to make a contribution toward solving the CSO problem. Disconnection work is done by property owners, neighborhood volunteers and M/W/ESB local contractors.

Funding Sources

Service Charges and Fees	15,641	0	238,561	238,561	238,561	238,561	238,561	1,192,805
Revenue Bonds	29,321	0	447,230	447,230	447,230	447,230	447,230	2,236,150
Others Financing	931	0	14,209	14,209	14,209	14,209	14,209	71,045
Total Funding Sources	45,893	0	700,000	700,000	700,000	700,000	700,000	3,500,000

Project Costs

Planning	5,943	0	0	0	0	0	0	0
Design/ProjMgmt	39	0	0	0	0	0	0	0
Const/Equip	39,911	0	700,000	700,000	700,000	700,000	700,000	3,500,000
Total Project Costs	45,893	0	700,000	700,000	700,000	700,000	700,000	3,500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Willamette River Basin Predesign

Area: ALL
Objective(s): Mandated

Project Description

The principal goal of this project is to find a way of continuing to improve and maintain high water quality in the lower Willamette River while developing the most cost effective solutions for controlling Portland's CSO discharges to the river. To date, the project has identified 4 control alternatives which will provide more cost effective control of CSOs than the facilities plan. They will be modeled to determine their impact on instream water quality to be certain that overall water quality is improved.

Funding Sources

Others Financing	89,083	20,138	28,480	0	0	0	0	28,480
Service Charges and Fees	1,495,543	338,087	478,144	0	0	0	0	478,144
Revenue Bonds	2,803,702	633,811	896,376	0	0	0	0	896,376
Total Funding Sources	4,388,328	992,036	1,403,000	0	0	0	0	1,403,000

Project Costs

Planning	3,933,307	948,586	1,403,000	0	0	0	0	1,403,000
Design/ProjMgmt	259,918	40,250	0	0	0	0	0	0
Const/Equip	195,103	3,200	0	0	0	0	0	0
Total Project Costs	4,388,328	992,036	1,403,000	0	0	0	0	1,403,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Maintenance & Reliability									
Alder Basin Repair and Reconstruction									
								Area:	SE
								Objective(s):	Repair/Maint
Project Description									
Reconstruction of the Alder Basin began in 1992 to repair and improve brick and clay pipe sewers built approximately 100 years ago. Inspection has revealed major structural problems with the large brick trunk sewer, and additional cracked and deteriorated pipe in many sections of clay collector sewers. In addition, this basin has experienced reported flooded basements, indicating hydraulic capacity problems. Emergency repairs were required in 1989 when the sewer collapsed and again in June of 1996 when a large void formed along Hawthorne. The project is divided into six phases. Phase 1 was completed in 1995; Phase 2 and Phase Unit 1 were completed in 1998, and Phase 3-Unit 2 is currently in design. Design is scheduled to be completed for Phase 3-Unit 2, Phase 4, and Phase 6 during FY 2000/2001.									
Funding Sources									
Revenue Bonds	8,220,057	617,250	3,015,199	424,399	1,769,371	4,837,228	0	10,046,197	
Others Financing	261,178	19,612	95,803	13,484	56,218	153,694	0	319,199	
Service Charges and Fees	4,384,718	329,253	1,608,358	226,383	943,814	2,580,260	0	5,358,815	
Total Funding Sources	12,865,953	966,115	4,719,360	664,266	2,769,403	7,571,182	0	15,724,211	
Project Costs									
Planning	403,525	0	0	0	0	0	0	0	
Design/ProjMgmt	484,707	51,720	3,021	664,249	336,774	0	0	1,004,044	
Const/Equip	11,977,721	914,395	4,716,339	17	2,432,629	7,571,182	0	14,720,167	
Total Project Costs	12,865,953	966,115	4,719,360	664,266	2,769,403	7,571,182	0	15,724,211	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Balch Basin Relief and Reconstruction

Area: NW

Objective(s): Repair/Maint

Project Description

Two individual projects are proposed for the Balch Creek combined sewer basin: separation of the natural stream that flow into the combined sewers, and the implementation of three sewer capacity relief projects. The initial task of this project is to complete a pre-design report to evaluate the feasibility of stream separation, the downstream impacts of this separation on the St. Helens storm system, and the need to upsize existing conveyance pipes if the stormwater is removed from the system.

Funding Sources

Others Financing	0	0	2,568	2,247	11,647	0	0	16,462
Service Charges and Fees	0	0	43,121	37,728	195,542	0	0	276,391
Revenue Bonds	0	0	80,837	70,727	366,581	0	0	518,145
Total Funding Sources	0	0	126,526	110,702	573,770	0	0	810,998

Project Costs

Planning	0	0	108,000	0	0	0	0	108,000
Design/ProjMgmt	0	0	18,526	59,473	0	0	0	77,999
Const/Equip	0	0	0	51,229	573,770	0	0	624,999
Total Project Costs	0	0	126,526	110,702	573,770	0	0	810,998

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Basement Flooding and Reconstruction Program

Area: SE
Objective(s): Repair/Maint

Project Description

This is a multi-year program to address capacity and structural problems throughout the combined sewer system. The combined basins are the oldest portions of the sewer system. There have been over 2,000 flooded basements reported in these basins since the mid-1970's. In recent times, the number of floodings had reduced partly due to improvements made to the system, but also because of several years of drought. Since 1993, with the return of a more normal rain pattern, there has been a significant increase in flooded basements reported. This program provides for reconstruction of existing pipes or for the addition of new relief sewer pipes and storage pipes. These areas are all identified in the 1987 public facilities plan as needing relief. Within the five year CIP, this project is anticipated to include the Taggart-A/Insley Relief; Sullivan, Stark and Holladay Basin; and, Taggart B, C, and D Basin and other Combined Relief sub-projects.

Funding Sources

Service Charges and Fees	2,342,839	467,885	170,400	852,000	2,590,080	1,601,760	5,452,800	10,667,040
Others Financing	139,552	27,869	10,150	50,750	154,280	95,410	324,800	635,390
Revenue Bonds	4,392,133	877,145	319,450	1,597,250	4,855,640	3,002,830	10,222,400	19,997,570
Total Funding Sources	6,874,524	1,372,899	500,000	2,500,000	7,600,000	4,700,000	16,000,000	31,300,000

Project Costs

Planning	2,904,336	366,532	0	0	0	0	0	0
Design/ProjMgmt	130,856	140,900	500,000	575,000	1,748,000	1,081,000	3,680,000	7,584,000
Const/Equip	3,839,332	865,467	0	1,925,000	5,852,000	3,619,000	12,320,000	23,716,000
Total Project Costs	6,874,524	1,372,899	500,000	2,500,000	7,600,000	4,700,000	16,000,000	31,300,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	1,400	2,800	4,200	6,000	14,400
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Beech/Essex Basin CS Relief

Area: NE
Objective(s): Repair/Maint

Project Description

The purpose of this project is to perform a predesign study of this basin. Once implemented this project will help relieve sewer backups into the several homes and businesses in the Beech/Essex Basin and thereby help protect human health and private property. Specifically, this project will address over 20 basement flooding complaints as well as the high/medium priority structural condition problems recently discovered. The sewer condition in Beech/Essex is problematic in specific areas such as the Outfall #46. Recent inspection reports show that the condition problems are more widespread in Beech/Essex than originally thought and that there is likely additional lines that need to be looked at more carefully.

Funding Sources

Service Charges and Fees	0	100,571	76,064	0	0	0	0	76,064
Revenue Bonds	0	188,539	142,594	0	0	0	0	142,594
Others Financing	0	5,990	4,530	0	0	0	0	4,530
Total Funding Sources	0	295,100	223,188	0	0	0	0	223,188

Project Costs

Planning	0	289,600	223,188	0	0	0	0	223,188
Design/ProjMgmt	0	5,500	0	0	0	0	0	0
Total Project Costs	0	295,100	223,188	0	0	0	0	223,188

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	

Burnside Sewer Structural Rehab.

Area: E
Objective(s): Repair/Maint

Project Description

The project lies within Nicolai Basin. BES Public Facilities Plan (July 1999) indicated that most of the pipes in the basin are in relatively good condition, with the exception of 725 feet of 42-inch brick trunk sewer pipe in W Burnside Street between NW 23rd Place and SW Kingston Avenue. The pipe is proposed for replacement or structural rehabilitation. If the pipe fails, the cost of the emergency repair will be high. West Burnside is a high volume traffic corridor. Traffic conductivity would be significantly affected by street closure (partial or total) associated with the emergency reconstruction work.

Funding Sources

Revenue Bonds	0	0	95,332	285,451	0	0	0	380,783
Service Charges and Fees	0	0	50,852	152,266	0	0	0	203,118
Others Financing	0	0	3,029	9,069	0	0	0	12,098
Total Funding Sources	0	0	149,213	446,786	0	0	0	595,999

Project Costs

Design/ProjMgmt	0	0	62,000	0	0	0	0	62,000
Const/Equip	0	0	87,213	446,786	0	0	0	533,999
Total Project Costs	0	0	149,213	446,786	0	0	0	595,999

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Fanno Basin Reconstruction

Area: SW
Objective(s): Repair/Maint

Project Description

This project will replace five obsolete pump stations with one new, upgraded pump station and pressure line, and a new gravity sanitary sewer mainline to direct all flows from the Fanno Creek basin to City of Portland Treatment facilities. Currently flows from this basin either are transported by a series of outdated pump stations to City of Portland facilities or flow by gravity to the Durham Wastewater treatment plant operated by the Unified Sewage Agency (USA). This project provides a cost-effective approach to replacing old, outdated pump station and directing all flows from this basin to a City of Portland Treatment Facility.

Funding Sources

Revenue Bonds	4,481,957	4,085,001	1,209,338	0	0	0	0	1,209,338
Service Charges and Fees	2,390,753	2,179,009	645,083	0	0	0	0	645,083
Others Financing	142,406	129,794	38,424	0	0	0	0	38,424
Total Funding Sources	7,015,116	6,393,804	1,892,845	0	0	0	0	1,892,845

Project Costs

Planning	1,849,447	0	0	0	0	0	0	0
Design/ProjMgmt	532,570	101,750	0	0	0	0	0	0
Site Acquisition	680,544	0	0	0	0	0	0	0
Const/Equip	3,952,555	6,292,054	1,892,845	0	0	0	0	1,892,845
Total Project Costs	7,015,116	6,393,804	1,892,845	0	0	0	0	1,892,845

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	(650,000)	(1,250,000)	(1,250,000)	(1,250,000)	(1,250,000)	(5,650,000)

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Insley/Taggart "A" Relief and Reconstruction

Area: SE
Objective(s): Repair/Maint

Project Description

The project will provide an acceptable solution for the rehabilitation of the Insley and Taggart "A" Basin sewer system that will alleviate basement flooding, thereby reducing potential health and safety hazards. In this process the hydraulic capacity of the system will be augmented to convey the BES standard 25-year design storm. A pre-design study and report was completed in June 1997. More than 300 flooded basements have been documented within the two basins, confirming the conveyance capacity limitations. The existing system consists of 120,000 feet of clay, brick and concrete pipe, ranging in diameter from 8" to 64" with 21,000 feet larger than 24" in diameter. Existing land use in both basins is predominantly residential, with commercial and industrial corridors.

Funding Sources

Service Charges and Fees	227,470	856,144	1,517,196	1,079,545	903,826	342	0	3,500,909
Revenue Bonds	426,438	1,605,016	2,844,295	2,023,827	1,694,406	638	0	6,563,166
Others Financing	13,549	50,996	90,372	64,303	53,837	20	0	208,532
Total Funding Sources	667,457	2,512,156	4,451,863	3,167,675	2,652,069	1,000	0	10,272,607

Project Costs

Planning	68,827	0	0	0	0	0	0	0
Design/ProjMgmt	136,715	664,730	141,526	6,367	69	0	0	147,962
Site Acquisition	0	120,000	0	0	0	0	0	0
Const/Equip	461,915	1,727,426	4,310,337	3,161,308	2,652,000	1,000	0	10,124,645
Total Project Costs	667,457	2,512,156	4,451,863	3,167,675	2,652,069	1,000	0	10,272,607

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	260	510	2,960	3,730
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Inverness Pressure Line Corrosion Improvement

Area: NE
Objective(s): Repair/Maint

Project Description

This project will repair part of the Inverness Pressure line which has been damaged due to corrosion. The pipe was put into service in the summer of 1985 with class 50 cement lined ductile iron with a nominal wall thickness of 0.38". At the time of construction corrosion control measures were installed to protect the pipe. In 1991, additional corrosion control measures were taken and two impressed-current cathodic protection (CP) ground bed systems were installed. These systems only provide partial corrosion protection along the 8.7 mile pipeline, additional maintenance work and CP systems are required to fully protect the force main.

Funding Sources

Service Charges and Fees	0	35,424	21,023	0	0	0	0	21,023
Revenue Bonds	0	66,405	39,411	0	0	0	0	39,411
Others Financing	0	2,109	1,252	0	0	0	0	1,252
Total Funding Sources	0	103,938	61,686	0	0	0	0	61,686

Project Costs

Planning	0	2,000	0	0	0	0	0	0
Design/ProjMgmt	0	12,410	0	0	0	0	0	0
Const/Equip	0	89,528	61,686	0	0	0	0	61,686
Total Project Costs	0	103,938	61,686	0	0	0	0	61,686

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Inverness Stormwater Sediment Dewatering Facility

Area: NE
Objective(s): Expansion

Project Description

This request is for a second additional stormwater sediment dewatering facility (vector pad) to be built at the Inverness site. An older, smaller pad is currently in operation, and a new larger one is under construction and expected to come into service in fall of 1998. This request is in accord with the sediment management plan dated 1995, with the exception that the 1995 plan anticipated greater delay between the construction of the first and second new pads, and anticipated taking the old pad out of service when the second pad is built.

Funding Sources

Others Financing	0	5,843	5,539	0	0	0	0	5,539
Service Charges and Fees	0	98,096	92,999	0	0	0	0	92,999
Revenue Bonds	0	183,900	174,344	0	0	0	0	174,344
Total Funding Sources	0	287,839	272,882	0	0	0	0	272,882

Project Costs

Planning	0	4,800	0	0	0	0	0	0
Design/ProjMgmt	0	9,120	10,076	0	0	0	0	10,076
Const/Equip	0	273,919	262,806	0	0	0	0	262,806
Total Project Costs	0	287,839	272,882	0	0	0	0	272,882

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	8,000	8,000	8,000	8,000	32,000
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Lambert Subbasin Relief/Recon(Insley/Taggart A)

Area: SE
Objective(s): Repair/Maint

Project Description

The Lambert Subbasin was studied as part of the Insley/Taggart Predesign Study completed in June 1997. This basin was ranked second highest based on occurrences of reported flooding, cost per dwellings, hydraulic and structural condition of the sewer. More than 300 flooded basements have been documented within the Insley/Taggart "A" basins, 28 occurred in the Lambert Subbasin. The purpose of this project is to correct capacity and structural deficiencies within the basin. The collection of projects will provide relief to the flooding victims as well as protect the rest of the neighborhood. Structurally defective pipes will be replaced to prevent future system breakdowns, reducing costly emergency repairs.

Funding Sources

Service Charges and Fees	0	0	0	16,855	438,751	516,018	0	971,624
Revenue Bonds	0	0	0	31,595	822,526	967,380	0	1,821,501
Others Financing	0	0	0	1,003	26,134	30,736	0	57,873
Total Funding Sources	0	0	0	49,453	1,287,411	1,514,134	0	2,850,998

Project Costs

Design/ProjMgmt	0	0	0	49,453	60,546	0	0	109,999
Const/Equip	0	0	0	0	1,226,865	1,514,134	0	2,740,999
Total Project Costs	0	0	0	49,453	1,287,411	1,514,134	0	2,850,998

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Linnton Residential Sewer Rehab

Area: NW
Objective(s): Mandated

Project Description

This project is an outcome of the NW 110th Avenue Predesign and is part of the overall basin solution to solve the long standing sewer infiltration problems in the basin. In addition, the pipes included in this scope of work are either undersized and/or in poor condition and therefore this work is necessary to protect the assets of our existing system.

Funding Sources

Service Charges and Fees	0	0	78,374	273,401	0	0	0	351,775
Revenue Bonds	0	0	146,927	512,544	0	0	0	659,471
Others Financing	0	0	4,668	16,285	0	0	0	20,953
Total Funding Sources	0	0	229,969	802,230	0	0	0	1,032,199

Project Costs

Design/ProjMgmt	0	0	74,100	0	0	0	0	74,100
Const/Equip	0	0	155,869	802,230	0	0	0	958,099
Total Project Costs	0	0	229,969	802,230	0	0	0	1,032,199

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Maintenance Capital - Construction

Area: ALL
Objective(s): Repair/Maint

Project Description

This is an ongoing capital project which supports normal Maintenance Bureau repairs or rehabilitation of existing sewer pipes in response to structural or hydraulic capacity deficiencies in the sewer system. As the system ages, it develops problems of a structural nature; and as development density increases, problems of a hydraulic nature develop. This program addresses collection system deficiencies that are smaller in scope than those which are normally contracted out and which can be accomplished with existing maintenance crews and equipment. Individual project activities are determined in response to problems identified by TV inspection and field investigations during the course of the year. In addition, this project includes sump construction conducted by BOM crews.

Funding Sources

Service Charges and Fees	1,692,711	238,613	239,875	239,875	239,875	239,879	239,875	1,199,379
Revenue Bonds	3,173,335	447,328	449,694	449,694	449,694	449,701	449,694	2,248,477
Others Financing	100,827	14,213	14,288	14,288	14,288	14,288	14,288	71,440
Total Funding Sources	4,966,873	700,154	703,857	703,857	703,857	703,868	703,857	3,519,296

Project Costs

Planning	48,580	0	0	0	0	0	0	0
Design/ProjMgmt	453,962	0	3,857	3,857	3,857	3,868	3,857	19,296
Const/Equip	4,464,331	700,154	700,000	700,000	700,000	700,000	700,000	3,500,000
Total Project Costs	4,966,873	700,154	703,857	703,857	703,857	703,868	703,857	3,519,296

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	2,800	5,600	8,400	11,200	14,000	42,000
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Maintenance Capital - Contract

Area: ALL
Objective(s): Repair/Maint

Project Description

The Maintenance Capital - Contract project supports privately contracted maintenance repair and reconstruction projects throughout the collection system. Due to the age of much of our inventory, structural failures, or near failures, localized flooding, and hydraulic capacity problems often occur during the year. Many of these are discovered through our routine TV sewer inspection program. Recent efforts have focussed on more accurately assessing the condition of our most critical pipe segments so that construction work can be directed most appropriately and effectively. Individual maintenance contract projects are identified annually in response to emergency structural or hydraulic capacity problems and other system deficiencies.

Funding Sources

Others Financing	205,841	48,100	30,449	30,449	30,449	30,450	30,449	152,246
Revenue Bonds	6,478,426	1,513,866	958,349	958,349	958,349	958,350	958,350	4,791,747
Service Charges and Fees	3,455,702	807,523	511,201	511,201	511,201	511,200	511,201	2,556,004
Total Funding Sources	10,139,969	2,369,489	1,499,999	1,499,999	1,499,999	1,500,000	1,500,000	7,499,997

Project Costs

Planning	165,760	46,600	0	0	0	0	0	0
Design/ProjMgmt	548,512	118,000	164,909	164,909	164,909	165,361	164,909	824,997
Const/Equip	9,425,697	2,204,889	1,335,090	1,335,090	1,335,090	1,334,639	1,335,091	6,675,000
Total Project Costs	10,139,969	2,369,489	1,499,999	1,499,999	1,499,999	1,500,000	1,500,000	7,499,997

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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NW Central Business District Basin Phases 1 - 6

Area: CC
Objective(s): Repair/Maint

Project Description

This project will restore the structural integrity and increase the flow capacity of the combined sewers within the NW CBD basin. The NW Central Business District (CBD) Basin is located in the northwest portion of downtown Portland. Properties in this vicinity have been served by a combined sewer system since the early settlement in 1867. Since this time, the area has been fully developed and the sewers have deteriorated, rendering the existing sewer system unable to provide adequate service. The NW CBD Predesign Report was developed to determine the extent of the improvements necessary to stabilize this sewer system, preventing system failure. The predesign report recommends six prioritized construction phases to correct the problems experienced in this basin.

Funding Sources

Service Charges and Fees	1,141,773	285,829	535,749	290,714	0	0	0	826,463
Revenue Bonds	2,140,487	535,843	1,004,371	545,002	0	0	0	1,549,373
Others Financing	68,010	17,025	31,912	17,316	0	0	0	49,228
Total Funding Sources	3,350,270	838,697	1,572,032	853,032	0	0	0	2,425,064

Project Costs

Planning	61,948	0	0	0	0	0	0	0
Design/ProjMgmt	237,699	47,656	32,645	32	0	0	0	32,677
Const/Equip	3,050,623	791,041	1,539,387	853,000	0	0	0	2,392,387
Total Project Costs	3,350,270	838,697	1,572,032	853,032	0	0	0	2,425,064

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	

Oak Basin Combined Sewer Relief

Area: SE
Objective(s): Mandated

Project Description

The Oak Basin is a 390 acre combined sewer basin located in east Portland. The Oak sewer system consists of 15,720 feet of clay, brick and stone, and concrete pipe ranging in diameter from 24 to 34 inches in diameter. This basin experiences significant surcharging when modeled by the 25- year storm event and has a history of some basement flooding. The 1987 Public Facilities Plan recommended the installation of new sewer pipe to augment system capacity and alleviate surcharging. The current update of the Public Facilities Plan has again concluded that much of the basin has inadequate capacity and that much of the system should be replaced with larger diameter pipes.

Funding Sources

Service Charges and Fees	0	0	191,177	64,424	0	0	0	255,601
Others Financing	0	0	11,387	3,837	0	0	0	15,224
Revenue Bonds	0	0	358,399	120,775	0	0	0	479,174
Total Funding Sources	0	0	560,963	189,036	0	0	0	749,999

Project Costs

Planning	0	0	560,963	189,036	0	0	0	749,999
Total Project Costs	0	0	560,963	189,036	0	0	0	749,999

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Riverside Basin Combined Sewer Replacement

Area: SE
Objective(s): Repair/Maint

Project Description

A predesign study and assessment of the combined sewer collection system within the Riverside Basin was completed in 1997. This study found through video inspection, field investigation, and review of maintenance records that there are significant structural problems within the piped collection system throughout the Riverside Basin. Recent collapse of portions of pipe in scattered areas of the basin and other system failures are attributed to the age of the system (87+ years), the methodology of pipe installation and quality of materials at the time the system was constructed.

Funding Sources

Revenue Bonds	1,284,753	0	1,208,533	1,212,104	1,013,666	0	0	3,434,303
Others Financing	40,820	0	38,399	38,512	32,207	0	0	109,118
Service Charges and Fees	685,311	0	644,653	646,558	540,708	0	0	1,831,919
Total Funding Sources	2,010,884	0	1,891,585	1,897,174	1,586,581	0	0	5,375,340

Project Costs

Planning	60,887	0	0	0	0	0	0	0
Design/ProjMgmt	179,190	0	16,585	22,174	11,239	0	0	49,998
Const/Equip	1,770,807	0	1,875,000	1,875,000	1,575,342	0	0	5,325,342
Total Project Costs	2,010,884	0	1,891,585	1,897,174	1,586,581	0	0	5,375,340

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999–00	FY 2000–01	FY 2001–02	FY 2002–03	FY 2003–04	FY 2004–05	

Sullivan Sewer Structural Rehab.

Area: NE
Objective(s): Repair/Maint

Project Description

This project is for the replacement or structural rehabilitation of 580 feet of existing 72-inch x 72 inch reinforced pipe in the Sullivan Gulch in the vicinity of NE 17th and Holladay/Multnomah Streets. This pipe is known as the Sullivan Gulch trunkline. It is a basket-handle conduit that is buried deep along the old north embankment of the Sullivan Gulch.

Funding Sources

Others Financing	0	0	2,131	10,103	1,061	0	0	13,295
Revenue Bonds	0	0	67,084	317,997	33,396	0	0	418,477
Service Charges and Fees	0	0	35,785	169,627	17,815	0	0	223,227
Total Funding Sources	0	0	105,000	497,727	52,272	0	0	654,999

Project Costs

Design/ProjMgmt	0	0	105,000	0	0	0	0	105,000
Const/Equip	0	0	0	497,727	52,272	0	0	549,999
Total Project Costs	0	0	105,000	497,727	52,272	0	0	654,999

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Sullivan/Stark/Holladay Basins CS Relief

Area: E
Objective(s): Repair/Maint

Project Description

The purpose of this project is to perform one combined predesign study of the Sullivan, Stark and Holladay basins. All three basins have been identified as having basement flooding and pipeline conveyance problems through previously completed and ongoing facilities plans. Based upon the modeling results for Sullivan, Stark and Holladay Basins, and their hydraulic dependency upon one another, it is necessary to combine the three basins into one predesign project rather than three separate projects.

Funding Sources

Others Financing	3,549	11,703	3,321	0	0	0	0	3,321
Service Charges and Fees	59,599	196,480	55,759	0	0	0	0	55,759
Revenue Bonds	111,727	368,339	104,529	0	0	0	0	104,529
Total Funding Sources	174,875	576,522	163,609	0	0	0	0	163,609

Project Costs

Planning	153,339	574,522	163,609	0	0	0	0	163,609
Design/ProjMgmt	4,823	0	0	0	0	0	0	0
Const/Equip	16,713	2,000	0	0	0	0	0	0
Total Project Costs	174,875	576,522	163,609	0	0	0	0	163,609

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Sump Reconstruction & Upgrade Master Plan

Area: ALL
Objective(s): Repair/Maint

Project Description

The Sump Reconstruction and Upgrade project improves existing sumps and sedimentation manholes in order to increase system performance and to improve ease of maintenance. In addition, the upgrades provide sedimentation manholes to help protect groundwater and extend the life of the sump. This project was initially a multi-year program to reconstruct and upgrade all existing substandard sumps as construction of sanitary sewers occurred in each Mid-County Basin. After the Mid County projects were phased out in 1997, the upgrades continued on an independent basis in project areas where the sumps were not improved in conjunction with the original sanitary sewer projects. The remainder of the upgrades will occur in various locations throughout Portland as needed.

Funding Sources

Service Charges and Fees	7,594,872	136,320	9,285	0	0	0	0	9,285
Revenue Bonds	14,238,156	255,560	17,404	0	0	0	0	17,404
Others Financing	452,394	8,120	552	0	0	0	0	552
Total Funding Sources	22,285,422	400,000	27,241	0	0	0	0	27,241

Project Costs

Planning	19,934	0	27,241	0	0	0	0	27,241
Design/ProjMgmt	79,569	32,000	0	0	0	0	0	0
Const/Equip	22,185,919	368,000	0	0	0	0	0	0
Total Project Costs	22,285,422	400,000	27,241	0	0	0	0	27,241

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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SW Woods Street Outfall Reconstruction

Area: SW
Objective(s): Repair/Maint

Project Description

The Woods Street Outfall is a 60" combined sewer overflow pipe that serves approximately 300 acres. The existing outfall carries combined sewer overflows to the Willamette River when flow exceeds the capacity of the southwest interceptor. A collapse in the outfall occurred in 1997 and service was restored with temporary repair around an obstruction. It is important to remove this obstruction and return the system to a free flowing condition.

Funding Sources

Service Charges and Fees	0	30,080	21,881	61,844	0	0	0	83,725
Others Financing	0	1,791	1,303	3,683	0	0	0	4,986
Revenue Bonds	0	56,389	41,018	115,936	0	0	0	156,954
Total Funding Sources	0	88,260	64,202	181,463	0	0	0	245,665

Project Costs

Planning	0	1,600	0	0	0	0	0	0
Design/ProjMgmt	0	11,410	5,666	0	0	0	0	5,666
Const/Equip	0	75,250	58,536	181,463	0	0	0	239,999
Total Project Costs	0	88,260	64,202	181,463	0	0	0	245,665

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

SW Yamhill & Morrison Sewer Rehab.

Area: CC
Objective(s): Repair/Maint

Project Description

Structural defects have been identified throughout the sewer pipes underneath the MAX Light Rail tracks in SW Yamhill and Morrison Streets in downtown Portland. These defects are allowing soil to migrate into the sewer and possibly undermine the foundation of the Light Rail tracks. Addressing the problem now will allow the use of less invasive, less expensive techniques. Due to the location of the pipe, a repair internal to the existing pipes is recommended. Cured-in place pipe is one repair method that does not require an access and would adequately stabilize the existing sewer pipe.

Funding Sources

Others Financing	0	0	0	0	10,080	18,360	0	28,440
Service Charges and Fees	0	0	0	0	169,226	308,236	0	477,462
Revenue Bonds	0	0	0	0	317,248	577,849	0	895,097
Total Funding Sources	0	0	0	0	496,554	904,445	0	1,400,999

Project Costs

Planning	0	0	0	0	6,000	0	0	6,000
Design/ProjMgmt	0	0	0	0	43,000	0	0	43,000
Const/Equip	0	0	0	0	447,554	904,445	0	1,351,999
Total Project Costs	0	0	0	0	496,554	904,445	0	1,400,999

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Tanner/Fremont/Nicolai CS Relief

Area: W
Objective(s): Mandated

Project Description

Tanner B Basin experiences significant surcharging during by the 25-year design storm and has a poor history of multiple basement flooding complaints. Tanner B also has recorded problems of high priority structural and operational condition problems. Fremont basin experiences similar surcharging problems that are driven by high intense rainfall occurring over a large impervious area. However, Fremont Basin shows very few historical basement flooding complaints and no significant condition problems. The 1987 Public Facilities Plan recommended the installation of new sewer pipe to augment system capacity and alleviate surcharging. The current update of the Public Facilities Plan has again concluded that much of the basin has inadequate capacity and that much of the system should be replaced with larger diameter pipes.

Funding Sources

Service Charges and Fees	0	0	152,941	51,540	0	0	0	204,481
Revenue Bonds	0	0	286,719	96,620	0	0	0	383,339
Others Financing	0	0	9,110	3,069	0	0	0	12,179
Total Funding Sources	0	0	448,770	151,229	0	0	0	599,999

Project Costs

Planning	0	0	448,770	151,229	0	0	0	599,999
Total Project Costs	0	0	448,770	151,229	0	0	0	599,999

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Taylor Trunk Sewer Relief								
								Area: SW
								Objective(s): Repair/Maint
Project Description								
A Sanitary Sewer Evaluation Study was conducted that evaluated collection system hydraulics, infiltration and inflow characteristics, and structural condition of the Southwest Portland separated sewer system. The study identified 2,300 feet of the Taylor trunk, immediately downstream of the 31st and Multnomah diversion structure, as hydraulically deficient. The proposed project would increase the existing Taylor Trunk Sewer from 30 to 36 inches in diameter along Multnomah Boulevard between 22nd and 31st. The existing trunk in this area averages about 18 feet in depth from the crown to the ground surface.								
Funding Sources								
Revenue Bonds	0	0	51,112	608,232	0	0	0	659,344
Service Charges and Fees	0	0	27,264	324,443	0	0	0	351,707
Others Financing	0	0	1,624	19,325	0	0	0	20,949
Total Funding Sources	0	0	80,000	952,000	0	0	0	1,032,000
Project Costs								
Design/ProjMgmt	0	0	80,000	0	0	0	0	80,000
Const/Equip	0	0	0	952,000	0	0	0	952,000
Total Project Costs	0	0	80,000	952,000	0	0	0	1,032,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
Taylor Trunk Sewer Structural Repair								
								Area: SW
								Objective(s): Repair/Maint
Project Description								
This project replaces approximately 1,050 feet of 36-inch trunk sewer located parallel to I-5 between SW 10th and SW 12th Avenues. The existing trunk sewer has longitudinal fractures that run along the top of the pipe. The trunk sewer is the only major conveyance facility that links the separated sewer system in the Southwest Portland area to the combined sewer system. The long term flow management plan for the Tryon Creek Wastewater Treatment Plant (TCWTP) and the CSO programs require that this sewer continue to convey a large portion of flow generated in the TCWTP basin to the combined system.								
Funding Sources								
Others Financing	0	0	3,297	28,897	0	0	0	32,194
Revenue Bonds	0	0	103,795	909,499	0	0	0	1,013,294
Service Charges and Fees	0	0	55,367	485,144	0	0	0	540,511
Total Funding Sources	0	0	162,459	1,423,540	0	0	0	1,585,999
Project Costs								
Planning	0	0	60,000	0	0	0	0	60,000
Design/ProjMgmt	0	0	102,459	7,540	0	0	0	109,999
Const/Equip	0	0	0	1,416,000	0	0	0	1,416,000
Total Project Costs	0	0	162,459	1,423,540	0	0	0	1,585,999
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
Wheeler Structural Rehab.								
								Area: NE
								Objective(s): Repair/Maint
Project Description								
The BES Public Facilities Plan, July 1999 identified the Wheeler Basin as having high amount of system deficiencies, including a large number of basement flooding events, and significant hydraulic capacity problems. Of critical structural and operational concern requiring maintenance is the 62-inch brick trunkline just downstream of the diversion structure. This pipe reach is proposed for structural rehabilitation.								
Funding Sources								
Others Financing	0	0	2,273	10,852	1,124	0	0	14,249
Service Charges and Fees	0	0	38,171	182,191	18,883	0	0	239,245
Revenue Bonds	0	0	71,556	341,552	35,397	0	0	448,505
Total Funding Sources	0	0	112,000	534,595	55,404	0	0	701,999
Project Costs								
Design/ProjMgmt	0	0	112,000	0	0	0	0	112,000
Const/Equip	0	0	0	534,595	55,404	0	0	589,999
Total Project Costs	0	0	112,000	534,595	55,404	0	0	701,999
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Sewage Treatment Systems

CBWTP Automation

Area: N
Objective(s): Efficiency

Project Description

This project provides for automation improvements at the Columbia Blvd. Wastewater Treatment Plant (CBWTP) that will offer increasing organizational productivity, energy savings, and material or process cost reduction. The latter includes such things as electricity, polymers, sawdust, hauling cost and methane utilization. A proactive approach to automation is necessary to efficiently deal with continued growth of the system (infill of services) and added facilities from CSO and Stormwater Management. The operation and maintenance demands are projected to continue to increase and we need to expand our ability to monitor and control.

Funding Sources

Service Charges and Fees	270,387	21,205	18,396	31,218	116,213	1,550	0	167,377
Others Financing	16,105	1,263	1,095	1,859	6,922	92	0	9,968
Revenue Bonds	506,894	39,752	34,484	58,522	217,863	2,903	0	313,772
Total Funding Sources	793,386	62,220	53,975	91,599	340,998	4,545	0	491,117

Project Costs

Planning	5,357	0	101	0	0	0	0	101
Design/ProjMgmt	51,705	30,800	671	32,170	0	0	0	32,841
Const/Equip	736,324	31,420	53,203	59,429	340,998	4,545	0	458,175
Total Project Costs	793,386	62,220	53,975	91,599	340,998	4,545	0	491,117

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	(168,000)	(168,000)	(336,000)

CBWTP Central Control Facility

Area: N
Objective(s): Efficiency

Project Description

This project provides a new Central Control Facility for the Columbia Boulevard Wastewater Treatment Plant (CBWTP), all wastewater pumping stations, the Tryon Creek Wastewater Treatment Plant (TCWTP), and soon the operating portions of the Columbia Slough Consolidation Conduit (CSCC) and associated wet weather treatment facilities. The existing Central Control Building began operation in 1972 and with the various expansions of the treatment plant, it is time for a new central control facility. The project was originally addressed by the Centralized Monitoring and Control Building conceptual plan prepared in 1992 by CH2M HILL and again in the 1995 CBWTP Facilities Plan.

Funding Sources

Service Charges and Fees	0	24,198	127,826	0	0	0	0	127,826
Others Financing	0	1,441	7,614	0	0	0	0	7,614
Revenue Bonds	0	45,361	239,636	0	0	0	0	239,636
Total Funding Sources	0	71,000	375,076	0	0	0	0	375,076

Project Costs

Planning	0	3,200	0	0	0	0	0	0
Design/ProjMgmt	0	67,800	0	0	0	0	0	0
Const/Equip	0	0	375,076	0	0	0	0	375,076
Total Project Costs	0	71,000	375,076	0	0	0	0	375,076

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP Lagoon Reconstruction

Area: N
Objective(s): Repair/Maint

Project Description

The 1995 CBWTP Facilities Plan and the 1997 CBWTP Site Master Plan recommend that the existing Triangle Lake Lagoon (lagoon) be lined and compartmentalized to improve operational efficiency and to reduce the potential for groundwater impacts. The existing 37-acre lagoon will be modified as necessary to meet these needs in the most cost-effective manner.

Funding Sources

Service Charges and Fees	18,264	132,806	114,510	0	771,776	773,890	771,776	2,431,952
Revenue Bonds	34,238	248,969	214,670	0	1,446,851	1,450,815	1,446,851	4,559,187
Others Financing	1,087	7,910	6,820	0	45,971	46,097	45,971	144,859
Total Funding Sources	53,589	389,685	336,000	0	2,264,598	2,270,802	2,264,598	7,135,998

Project Costs

Planning	42,222	0	0	0	0	0	0	0
Design/ProjMgmt	9,115	384,635	336,000	0	0	0	0	336,000
Const/Equip	2,252	5,050	0	0	2,264,598	2,270,802	2,264,598	6,799,998
Total Project Costs	53,589	389,685	336,000	0	2,264,598	2,270,802	2,264,598	7,135,998
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CBWTP Land Purchase

Area: N
Objective(s): Expansion

Project Description

This project involves the purchase of approximately 20 acres of land to the northwest of the Columbia Blvd. Wastewater Treatment Plant (CBWTP). The property is identified in the CBWTP Facility Plan dated September 1995 and 1997 CBWTP Site Master Plan. The property is needed for several reasons: before Year 2011, flows will require two new secondary clarifiers to meet NPDES permit requirements; future expansion capability for nitrification and new effluent pump station (all future NPDES); and, for expansion of secondary treatment capacity in the near future.

Funding Sources

Others Financing	943	21,630	50,750	0	0	0	0	50,750
Revenue Bonds	29,707	680,775	1,597,250	0	0	0	0	1,597,250
Service Charges and Fees	15,848	363,138	852,000	0	0	0	0	852,000
Total Funding Sources	46,498	1,065,543	2,500,000	0	0	0	0	2,500,000

Project Costs

Planning	29,599	0	0	0	0	0	0	0
Design/ProjMgmt	15,541	0	0	0	0	0	0	0
Site Acquisition	0	1,061,142	2,500,000	0	0	0	0	2,500,000
Const/Equip	1,358	4,401	0	0	0	0	0	0
Total Project Costs	46,498	1,065,543	2,500,000	0	0	0	0	2,500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP Odor Control Projects

Area: N
Objective(s): Mandated

Project Description

This is a series of odor abatement projects for the Columbia Boulevard Wastewater Treatment Plant (CBWTP). The series of projects are community driven, are identified in the 1995 CBWTP Facilities Plan, and eliminate major odor sources as required by City Council Resolution No. 35453. Also, DEQ has the authority under OAR 340-20 to order abatement of nuisance odors. The objective of the projects is to eliminate major odor sources at the plant as part of the overall CBWTP odor control program.

Funding Sources

Others Financing	44,756	3,434	25,318	41,257	0	0	0	66,575
Revenue Bonds	1,408,629	108,105	796,834	1,298,497	0	0	0	2,095,331
Service Charges and Fees	751,388	57,666	425,046	692,641	0	0	0	1,117,687
Total Funding Sources	2,204,773	169,205	1,247,198	2,032,395	0	0	0	3,279,593

Project Costs

Planning	27,863	0	0	0	0	0	0	0
Design/ProjMgmt	616,929	134,405	107,690	0	0	0	0	107,690
Site Acquisition	5,000	0	0	0	0	0	0	0
Const/Equip	1,554,981	34,800	1,139,508	2,032,395	0	0	0	3,171,903
Total Project Costs	2,204,773	169,205	1,247,198	2,032,395	0	0	0	3,279,593

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	6,000	193,000	232,000	233,000	245,000	909,000
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CBWTP Outfall Line Repair

Area: N
Objective(s): Repair/Maint

Project Description

This project involves repair of the existing 102" semi-elliptical outfall line from CBWTP to the Columbia River to ensure that it can withstand the internal pressures to which it may be subjected during periods of high plant inflow and high river stage and to enable it to function effectively in tandem with a second outfall which will be constructed for wet weather flows. The previous year costs completed repair of pipe cracks.

Funding Sources

Others Financing	9,302	1,339	1,161	1,014	0	12,180	168,766	183,121
Revenue Bonds	292,762	42,167	36,567	31,945	0	383,340	5,311,577	5,763,429
Service Charges and Fees	156,165	22,494	19,507	17,041	0	204,480	2,833,286	3,074,314
Total Funding Sources	458,229	66,000	57,235	50,000	0	600,000	8,313,629	9,020,864

Project Costs

Planning	19,062	0	0	0	0	0	0	0
Design/ProjMgmt	252,263	0	57,235	50,000	0	0	0	107,235
Const/Equip	186,904	66,000	0	0	0	600,000	8,313,629	8,913,629
Total Project Costs	458,229	66,000	57,235	50,000	0	600,000	8,313,629	9,020,864

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP Seismic Improvements

Area: N
Objective(s): Repair/Maint

Project Description

Seismic vulnerability assessment study of the Columbia Boulevard Wastewater Treatment Plant (CBWTP) has been done as part of the 1995 Facilities Plan and the 1997 CBWTP Site Master Plan. The scope of this work includes investigations and structural upgrades where needed to the Blower Building (infill walls, precast roof connections, precast panel connections), Administration Building (infill walls, straight sheathing roof diaphragm, roof-to-wall connections), Chlorine Containment Building (investigate potential for minor wall cracking), Sludge Processing Building (infill walls, roof connections, precast panel-to-foundation connections), Digester Control Buildings (potential pounding problems), Effluent Pump House (wall-to-foundation connections), and Maintenance/Stores Building (infill panels, tilt-up panel connections).

Funding Sources

Others Financing	0	0	0	0	2,920	24,659	24,592	52,171
Revenue Bonds	0	0	0	0	91,908	776,103	773,982	1,641,993
Service Charges and Fees	0	0	0	0	49,027	413,987	412,856	875,870
Total Funding Sources	0	0	0	0	143,855	1,214,749	1,211,430	2,570,034

Project Costs

Design/ProjMgmt	0	0	0	0	143,855	0	0	143,855
Const/Equip	0	0	0	0	0	1,214,749	1,211,430	2,426,179
Total Project Costs	0	0	0	0	143,855	1,214,749	1,211,430	2,570,034

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CBWTP Sodium Hypochlorite Conversion

Area: N
Objective(s): Efficiency

Project Description

The project will convert the existing disinfection system at the Columbia Boulevard Wastewater Treatment Plant (CBWTP) from the use of chlorine gas to the use of sodium hypochlorite solution. Compared to chlorine, hypochlorite (strong bleach) is considered safer, easier to handle, and simpler to operate. There are major benefits with using sodium hypochlorite. It is safer, simpler to operate and easier to comply with regulatory requirements because it is used in liquid form whereas chlorine is in the gas form. Sodium hypochlorite system has fewer subsystems; therefore, it is simpler to operate. The savings in equipment maintenance cost is estimated at \$7,000 a year.

Funding Sources

Others Financing	0	0	0	10,657	20,549	765	0	31,971
Revenue Bonds	0	0	0	335,422	646,755	24,089	0	1,006,266
Service Charges and Fees	0	0	0	178,921	344,991	12,850	0	536,762
Total Funding Sources	0	0	0	525,000	1,012,295	37,704	0	1,574,999

Project Costs

Planning	0	0	0	100,000	0	0	0	100,000
Design/ProjMgmt	0	0	0	425,000	0	0	0	425,000
Const/Equip	0	0	0	0	1,012,295	37,704	0	1,049,999
Total Project Costs	0	0	0	525,000	1,012,295	37,704	0	1,574,999

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	(42,000)	(42,000)	(84,000)

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CBWTP Solids Management & Dewatering

Area: N
Objective(s): Replacement

Project Description

The 1995 CBWTP Facilities Plan and the 1997 CBWTP Site Master Plan recommend two future improvements to the solids processing systems to optimize the capacity of the existing equipment. The first improvement will add thickening equipment for thickening and recirculation of anaerobic digester solids. This improvement is called recuperative thickening and it allows longer solids retention in the anaerobic digesters. It postpones the need to add digester capacity by accomplishing longer solids retention times in the existing digester tanks. The second improvement adds a high pressure dewatering zone to the existing belt filter presses. This improvement allows the production of drier dewatered biosolids which will reduce operating costs.

Funding Sources

Service Charges and Fees	0	0	0	0	59,451	425,938	6,832	492,221
Revenue Bonds	0	0	0	0	111,450	798,507	12,806	922,763
Others Financing	0	0	0	0	3,541	25,371	406	29,318
Total Funding Sources	0	0	0	0	174,442	1,249,816	20,044	1,444,302

Project Costs

Design/ProjMgmt	0	0	0	0	174,442	0	0	174,442
Const/Equip	0	0	0	0	0	1,249,816	20,044	1,269,860
Total Project Costs	0	0	0	0	174,442	1,249,816	20,044	1,444,302

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	(6,000)	(6,000)	(1,520,000)	(1,520,000)	(3,052,000)

Pump Station Improvement Program

Area: ALL
Objective(s): Repair/Maint

Project Description

This is a continuing program to refurbish or upgrade pump stations that are not in compliance with present codes, are not operating in a reliable manner, need improvements because of growth in the receiving sewage basin, and/or are over 20 years old and have out-of-date equipment. The City currently operates and maintains 96 pump stations. Many of these stations are aging, have out-of-date equipment, require maintenance, or need improvements to remain in compliance with present codes.

Funding Sources

Revenue Bonds	5,145,688	640,472	958,350	958,350	958,350	958,350	958,350	4,791,750
Service Charges and Fees	2,744,798	341,640	511,201	511,201	511,201	511,201	511,201	2,556,005
Others Financing	163,495	20,349	30,449	30,449	30,449	30,449	30,449	152,245
Total Funding Sources	8,053,981	1,002,461	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000

Project Costs

Planning	469,926	0	0	0	0	0	0	0
Design/ProjMgmt	2,675,153	140,860	0	0	0	0	0	0
Site Acquisition	370	70,000	0	0	0	0	0	0
Const/Equip	4,908,532	791,601	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000
Total Project Costs	8,053,981	1,002,461	1,500,000	1,500,000	1,500,000	1,500,000	1,500,000	7,500,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
TCWTP Aeration Basin Modification									
								Area:	SW
								Objective(s):	Efficiency
Project Description									
The proposed improvements would (1) replace the mechanical turbine aerators with a fine bubble diffuser system to provide oxygen to aeration basins; and (2) modify the aeration basins from the current complete mixed mode to a plug flow mode. Some interim piping and weir modifications were made in 1996 which allow the basins to operate seasonally in a plug flow mode. This project interfaces with several other potential projects regarding TCWTP aeration basin facilities.									
Funding Sources									
Others Financing	0	1,543	10,088	1,910	0	0	0	11,998	
Service Charges and Fees	0	25,921	169,360	32,067	0	0	0	201,427	
Revenue Bonds	0	48,591	317,500	60,114	0	0	0	377,614	
Total Funding Sources	0	76,055	496,948	94,091	0	0	0	591,039	
Project Costs									
Design/ProjMgmt	0	76,055	0	0	0	0	0	0	
Const/Equip	0	0	496,948	94,091	0	0	0	591,039	
Total Project Costs	0	76,055	496,948	94,091	0	0	0	591,039	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	(70,000)	(70,000)	(70,000)	(70,000)	(280,000)	
TCWTP Improvements									
								Area:	SW
								Objective(s):	Replacement
Project Description									
This project will implement improvements identified in the 1999 Tryon Creek Wastewater Treatment Plant (TCWTP) Facilities Plan. The improvements will upgrade the headworks, addition of fine bubble aeration, add a secondary clarifier for reliability, and provide odor control facilities. The 1999 TCWTP Facilities Plan identified many of these inadequacies. At this time, aging equipment that could decrease system reliability, increasing flows, and concerns about odor control are all factors in the decision to proceed with these improvements.									
Funding Sources									
Revenue Bonds	0	0	0	0	149,046	786,385	784,236	1,719,667	
Service Charges and Fees	0	0	0	0	79,505	419,472	418,327	917,304	
Others Financing	0	0	0	0	4,735	24,986	24,917	54,638	
Total Funding Sources	0	0	0	0	233,286	1,230,843	1,227,480	2,691,609	
Project Costs									
Design/ProjMgmt	0	0	0	0	233,286	233,926	233,286	700,498	
Const/Equip	0	0	0	0	0	996,917	994,194	1,991,111	
Total Project Costs	0	0	0	0	233,286	1,230,843	1,227,480	2,691,609	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Treatment Facilities - Rehab & Modification									
								Area:	ALL
								Objective(s):	Repair/Maint
Project Description									
The Repair, Rehabilitation and Modifications project provides for annual reinvestment in the treatment system. The project is set up to protect capital investment and to enhance system reliability at the sewage treatment facilities. It also provides the best management practice to prevent probable violations of NPDES permit. Both the Columbia and Tryon Creek treatment plants are aging facilities and therefore require a substantial amount of investment every year for repair, rehabilitation and maintenance work. This project would facilitate a rapid and practical response to replace capital equipment and upgrade aging facilities.									
Funding Sources									
Others Financing	116,907	36,292	21,778	21,778	21,778	20,781	20,763	106,878	
Service Charges and Fees	1,962,660	609,286	365,619	365,619	365,619	348,880	348,579	1,794,316	
Revenue Bonds	3,679,411	1,142,229	685,425	685,425	685,425	654,045	653,480	3,363,800	
Total Funding Sources	5,758,978	1,787,807	1,072,822	1,072,822	1,072,822	1,023,706	1,022,822	5,264,994	
Project Costs									
Planning	191,451	0	84,953	84,953	84,953	85,186	84,953	424,998	
Design/ProjMgmt	679,695	253,520	203,888	203,888	203,888	204,446	203,888	1,019,998	
Const/Equip	4,887,832	1,534,287	783,981	783,981	783,981	734,074	733,981	3,819,998	
Total Project Costs	5,758,978	1,787,807	1,072,822	1,072,822	1,072,822	1,023,706	1,022,822	5,264,994	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	(27,000)	(27,000)	(27,000)	(27,000)	(27,000)	(135,000)	

Capital Improvement Plan — Public Utilities
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PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Surface Water Management

Brookside Wetland and Stream Enhancement

Area: SE
Objective(s): Mandated

Project Description

This project will develop a wetland to provide flood storage to reduce flood damages in the Lents area and improve water quality. The Brookside Wetland and Stream Enhancement project is a multi-objective project that will include flood storage as well as water quality and habitat improvements. The project is currently complete and fully operational. The remaining budget is to complete the plantings, which require staggering, and maintenance of the current plantings.

Funding Sources

Others Financing	68,367	3,450	126	0	0	0	0	126
Revenue Bonds	2,151,710	108,613	3,989	0	0	0	0	3,989
Service Charges and Fees	1,147,759	57,937	2,129	0	0	0	0	2,129
Total Funding Sources	3,367,836	170,000	6,244	0	0	0	0	6,244

Project Costs

Planning	191,122	0	0	0	0	0	0	0
Design/ProjMgmt	359,642	0	0	0	0	0	0	0
Site Acquisition	134,096	0	0	0	0	0	0	0
Const/Equip	2,682,976	170,000	6,244	0	0	0	0	6,244
Total Project Costs	3,367,836	170,000	6,244	0	0	0	0	6,244

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	1,360	1,360	1,360	4,080
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Buffalo Slough Water Quality Facility

Area: NE
Objective(s): Mandated

Project Description

This project will treat stormwater prior to discharge into one of Portland's most important jurisdictional waterbodies by installing a Downstream Defender or an equal product in the right-of-way and upsizing the catch basin to accommodate current stormwater flows. The Downstream Defender (a "stormwater cleaning facility" similar to a Stormsceptor) removes sediment and oil from stormwater. This passive system was selected for its relative low operations and maintenance costs and its anticipated performance. Benefits to the Slough include: less sedimentation to the slough, removal of Total Suspended Solids (TSS), metals, and oil and grease.

Funding Sources

Revenue Bonds	0	12,905	36,955	0	0	0	0	36,955
Service Charges and Fees	0	6,885	19,714	0	0	0	0	19,714
Others Financing	0	410	1,174	0	0	0	0	1,174
Total Funding Sources	0	20,200	57,843	0	0	0	0	57,843

Project Costs

Design/ProjMgmt	0	20,200	0	0	0	0	0	0
Const/Equip	0	0	57,843	0	0	0	0	57,843
Total Project Costs	0	20,200	57,843	0	0	0	0	57,843

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	1,360	1,360	1,360	4,080
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Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Columbia Slough Watershed Revegetation Program									
								Area:	N
								Objective(s):	Mandated
Project Description									
This project proposes to continue the Watershed Revegetation Program for five years. The program addresses the water quality problems associated with toxics, temperature, sedimentation, nutrient loading, dissolved oxygen, and pH. The proposed revegetation program consists of 17 individual sites. Of these 17 sites, 3 will be used for filtering storm water, 7 sites will restore wetlands, and the remaining 7 sites include riparian restoration and revegetation.									
Funding Sources									
Others Financing	0	0	6,058	6,058	6,058	6,075	6,058	30,307	
Service Charges and Fees	0	0	101,719	101,719	101,719	101,997	101,719	508,873	
Revenue Bonds	0	0	190,690	190,690	190,690	191,213	190,690	953,973	
Total Funding Sources	0	0	298,467	298,467	298,467	299,285	298,467	1,493,153	
Project Costs									
Const/Equip	0	0	298,467	298,467	298,467	299,285	298,467	1,493,153	
Total Project Costs	0	0	298,467	298,467	298,467	299,285	298,467	1,493,153	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Columbia Steel Casting Outfall Relocation									
								Area:	N
								Objective(s):	Expansion
Project Description									
Columbia Steel Castings has shown an interest in expanding their plant facilities on two separate blocks north to the Columbia Slough. This expansion work would necessitate the filling of a backwater area of the Columbia Slough where an existing City outfall discharges. There have been discharges of oil and grease from the outfall that have exceeded allowable limits. This project will work within a public-private partnership with Columbia Steel Castings to construct a water quality facility west of Columbia Steel Castings proposed development and construct a 36-inch pipe from the existing outfall to the water quality facility.									
Funding Sources									
Revenue Bonds	0	26,585	4,504	31,654	225,768	4,205	0	266,131	
Others Financing	0	844	143	1,005	7,173	133	0	8,454	
Service Charges and Fees	0	14,182	2,403	16,886	120,429	2,245	0	141,963	
Total Funding Sources	0	41,611	7,050	49,545	353,370	6,583	0	416,548	
Project Costs									
Planning	0	8,640	7,050	0	0	0	0	7,050	
Design/ProjMgmt	0	32,971	0	17,045	13,854	0	0	30,899	
Site Acquisition	0	0	0	32,500	27,500	0	0	60,000	
Const/Equip	0	0	0	0	312,016	6,583	0	318,599	
Total Project Costs	0	41,611	7,050	49,545	353,370	6,583	0	416,548	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Fanno Creek Basin Predesign									
								Area:	SW
								Objective(s):	Mandated
Project Description									
This project is a basinwide pre-design for the Fanno Creek storm water basin that addresses hydraulic deficiencies in infrastructure, water quality requirements in accordance with Oregon Revised Statutes (ORS 468.730) and TMDL requirements, and protection/improvement of the stream corridor riparian zone. The need for the pre-design is based on the findings from the Fanno Creek Resource Management Plan (RMP) and the Public Facilities Plan (PFP). The outcome of this effort will be a comprehensive and regional plan for the basin that focuses on meeting regulatory requirements for water quality and established bureau service levels for stormwater management. The final outcome of the pre-design will be a list of prioritized projects for implementation.									
Funding Sources									
Others Financing	0	0	2,694	1,365	0	0	0	4,059	
Service Charges and Fees	0	0	45,234	22,927	0	0	0	68,161	
Revenue Bonds	0	0	84,799	42,980	0	0	0	127,779	
Total Funding Sources	0	0	132,727	67,272	0	0	0	199,999	
Project Costs									
Planning	0	0	132,727	67,272	0	0	0	199,999	
Total Project Costs	0	0	132,727	67,272	0	0	0	199,999	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities
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PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Fanno Creek WQ Improvement

Area: SW
Objective(s): Mandated

Project Description

This project will provide design and construction of stream bed and stream bank restoration, riparian restoration, and a water quality facility using bioengineering and passive wetland treatment to achieve sediment and phosphorus removal from Fanno Creek to meet Tualatin Total Maximum Daily Load (TMDL) requirements.

Funding Sources

Others Financing	2,420	4,169	10,496	0	0	0	0	10,496
Revenue Bonds	76,169	131,239	330,362	0	0	0	0	330,362
Service Charges and Fees	40,631	70,006	176,222	0	0	0	0	176,222
Total Funding Sources	119,220	205,414	517,080	0	0	0	0	517,080

Project Costs

Planning	66,660	0	0	0	0	0	0	0
Design/ProjMgmt	48,090	78,800	80	0	0	0	0	80
Const/Equip	4,470	126,614	517,000	0	0	0	0	517,000
Total Project Costs	119,220	205,414	517,080	0	0	0	0	517,080
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	1,360	1,360	2,720

Fanno Creek/Birkland (Alpenrose Site)

Area: SW
Objective(s): Mandated

Project Description

This project will design and construct a water quality facility using bioengineering and passive wetland treatment to achieve sediment and phosphorus removal from Fanno Creek to meet Tualatin Total Maximum Daily Load (TMDL) requirements. As required by the DEQ rules, the City prepared Portland's Tualatin Basin Water Quality Management Plan in 1990. The plan outlined the City's non-point source control measures for total phosphorous reduction in the system. The plan recommended 31 sites for further examination and consideration as PRFs

Funding Sources

Others Financing	300	562	1,015	2,026	531	0	0	3,572
Revenue Bonds	9,466	17,707	31,962	63,784	16,716	0	0	112,462
Service Charges and Fees	5,051	9,446	17,051	34,025	8,917	0	0	59,993
Total Funding Sources	14,817	27,715	50,028	99,835	26,164	0	0	176,027

Project Costs

Planning	4,241	13,600	1,028	0	0	0	0	1,028
Design/ProjMgmt	9,373	14,115	49,000	0	0	0	0	49,000
Const/Equip	1,203	0	0	99,835	26,164	0	0	125,999
Total Project Costs	14,817	27,715	50,028	99,835	26,164	0	0	176,027
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	500	1,000	1,500

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Johnson Creek Projects								
							Area: SE	
							Objective(s): Expansion	
Project Description								
This project proposes to use a three prong approach to reduce flood damage in the Lents area of the Johnson Creek watershed. Elements of this project include: acquire the most flood damaged properties through a willing seller acquisition program and partnership with FEMA and other programs; create multi-objective passive flood storage and water quality facilities which support fish and wildlife objectives in partnership with Parks and Metro; and, create structural controls as necessary to store flood water.								
Funding Sources								
Service Charges and Fees	405,721	380,943	395,877	870,218	874,833	880,064	580,013	3,601,005
Revenue Bonds	760,604	714,154	742,151	1,631,402	1,640,051	1,649,859	1,087,350	6,750,813
Others Financing	24,166	22,691	23,580	51,835	52,109	52,421	34,548	214,493
Total Funding Sources	1,190,491	1,117,788	1,161,608	2,553,455	2,566,993	2,582,344	1,701,911	10,566,311
Project Costs								
Planning	964,563	200,000	0	0	0	0	0	0
Design/Proj/Mgmt	183,641	295,050	374,743	374,743	374,743	375,770	0	1,499,999
Site Acquisition	0	500,000	500,000	500,000	500,000	500,000	0	2,000,000
Const/Equip	42,287	122,738	286,865	1,678,712	1,692,250	1,706,574	1,701,911	7,066,312
Total Project Costs	1,190,491	1,117,788	1,161,608	2,553,455	2,566,993	2,582,344	1,701,911	10,566,311
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	1,000	1,000	1,000	1,000	2,720	6,720

Johnson Creek Revegetation Project

Area: SE
Objective(s): Expansion

Project Description

Technical Memorandum No. 12 from the Johnson Creek Resources Management Plan, the Resources Management Plan, and the Integrated Watershed Plan all recommend riparian restoration in Johnson Creek for the purposes of reducing stream temperatures, increasing fish and wildlife habitat, and improving water quality. Based on these recommendations and the analysis done by Planning and Watershed Revegetation Staff, this project will restore 27 acres on 47 private properties in the City of Portland.

Funding Sources

Others Financing	0	0	3,782	0	0	0	0	3,782
Revenue Bonds	0	0	119,057	0	0	0	0	119,057
Service Charges and Fees	0	0	63,508	0	0	0	0	63,508
Total Funding Sources	0	0	186,347	0	0	0	0	186,347

Project Costs

Const/Equip	0	0	186,347	0	0	0	0	186,347
Total Project Costs	0	0	186,347	0	0	0	0	186,347
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999–00	FY 2000–01	FY 2001–02	FY 2002–03	FY 2003–04	FY 2004–05	5–Year Total	

NPDES Stormwater BMPs

Area: ALL
Objective(s): Mandated

Project Description

The NPDES Stormwater Best Management Practices (BMPs) combines Stormwater Early Action projects (SWEAPs) and NPDES Stormwater STR2 into one project that addresses the design and implementation of projects that incorporate elements of the NPDES BMPs. This project is to apply new stormwater quality structural BMPs to existing and proposed projects to reduce non-point source pollutants in city stormwater discharges on a citywide basis. In addition, the project will improve BES' and other city practices related to structural and operations related activities.

Funding Sources

Service Charges and Fees	102,316	46,880	40,195	0	0	0	0	40,195
Others Financing	6,094	2,792	2,394	0	0	0	0	2,394
Revenue Bonds	191,810	87,883	75,353	0	0	0	0	75,353
Total Funding Sources	300,220	137,555	117,942	0	0	0	0	117,942

Project Costs

Planning	80,301	0	0	0	0	0	0	0
Design/ProjMgmt	88,534	0	0	0	0	0	0	0
Const/Equip	131,385	137,555	117,942	0	0	0	0	117,942
Total Project Costs	300,220	137,555	117,942	0	0	0	0	117,942

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	2,000	2,000	2,000	2,000	2,000	10,000

NPDES Stormwater Program: NE 122nd Subbasin

Area: NE
Objective(s): Mandated

Project Description

The Parkrose Pilot Project was developed as a main implementation tool to meet the federally mandated conditions of the City of Portland NPDES Municipal Stormwater Permit. The project is designed to test Best Management Practices (BMP) and Existing Management Practices (EMP) in a well-defined 600 acre study area located in northeast Portland. This project includes two projects in right-of- ways along NE 121st and NE Sandy Boulevard. A bioswale and sand filter will be constructed within the right-of-way owned by Multnomah County but deeded to the City for infrastructure maintenance. Initial approval to proceed has been granted by the County.

Funding Sources

Service Charges and Fees	201,562	0	2,390	0	0	0	0	2,390
Revenue Bonds	377,868	0	4,478	0	0	0	0	4,478
Others Financing	12,006	0	142	0	0	0	0	142
Total Funding Sources	591,436	0	7,010	0	0	0	0	7,010

Project Costs

Planning	404,540	0	0	0	0	0	0	0
Design/ProjMgmt	85,689	0	0	0	0	0	0	0
Const/Equip	101,207	0	7,010	0	0	0	0	7,010
Total Project Costs	591,436	0	7,010	0	0	0	0	7,010

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	1,360	1,360	2,720

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Pollution Reduction Facility @ NE 158th/162nd Ave									
								Area:	NE
								Objective(s):	Mandated
Project Description									
This project involves the construction of a stormwater pollution reduction facility (PRF) on a 9.4 acre site at NE 162nd and Airport Way and a sedimentation pond at a 3.2 acre site at 158th and Sandy Blvd. The 3.2 acre site will serve as a sedimentation area for the 162nd site which is planned to be a passive wetland treatment facility. This combined PRF will provide passive treatment (mainly sedimentation) of stormwater for the removal of solids which are source of metals and some organic materials from a 600 acre sub-basin in the Upper Slough.									
Funding Sources									
Revenue Bonds	954,570	696,180	321,854	4,472	1,277	0	0	327,603	
Others Financing	30,329	22,119	10,226	142	40	0	0	10,408	
Service Charges and Fees	509,186	371,356	171,683	2,386	683	0	0	174,752	
Total Funding Sources	1,494,085	1,089,655	503,763	7,000	2,000	0	0	512,763	
Project Costs									
Planning	80,704	5,440	0	0	0	0	0	0	
Design/ProjMgmt	184,173	118,000	1,353	0	0	0	0	1,353	
Site Acquisition	110,000	0	0	0	0	0	0	0	
Const/Equip	1,119,208	966,215	502,410	7,000	2,000	0	0	511,410	
Total Project Costs	1,494,085	1,089,655	503,763	7,000	2,000	0	0	512,763	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	1,360	1,360	1,360	4,080	

Russell Pond Retrofit **Area:** NE
Objective(s): Repair/Maint

Project Description
 The Russell Pond Retrofit was developed to address the requirements for municipalities to retrofit existing conveyance and detention systems to enhance water quality (Permit BMP # STR2). The Russell Pond Retrofit project is a combination of four separate efforts: retrofit the existing facility which is silting in taking up valuable capacity; look at upstream sedimentation measures to keep sedimentation out of the pond itself; explore opportunities to enhance the volume of drainage the pond treats and retains; and, retrofit the site vegetation scheme to a nativescape that requires less maintenance and provides enhanced habitat.

Funding Sources								
Others Financing	1,258	2,221	15	40	40	0	0	95
Revenue Bonds	39,618	69,913	488	1,277	1,277	0	0	3,042
Service Charges and Fees	21,135	37,294	261	683	683	0	0	1,627
Total Funding Sources	62,011	109,428	764	2,000	2,000	0	0	4,764
Project Costs								
Planning	43,415	0	0	0	0	0	0	0
Design/ProjMgmt	11,099	5,530	0	0	0	0	0	0
Const/Equip	7,497	103,898	764	2,000	2,000	0	0	4,764
Total Project Costs	62,011	109,428	764	2,000	2,000	0	0	4,764
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	1,000	1,000	1,000	1,000	1,000	5,000

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Slough Infrastructure: US Army COE Grant Project

Area: NE
Objective(s): Expansion

Project Description

This project will provide additional funding for large capital projects that would improve the water quality and wildlife habitat of the Columbia Slough. The project was initiated in FY 95/96, in response to the possibility of receiving a grant from the US Army Corps of Engineers (ACOE) 1135 Program for revitalization of 4 miles of the Lower Columbia Slough.

Funding Sources

Others Financing	5,730	4,073	0	0	3,704	9,754	9,728	23,186
Service Charges and Fees	96,212	68,385	0	0	62,193	163,764	163,316	389,273
Revenue Bonds	180,366	128,199	0	0	116,591	307,007	306,168	729,766
Total Funding Sources	282,308	200,657	0	0	182,488	480,525	479,212	1,142,225

Project Costs

Planning	279,939	0	0	0	0	0	0	0
Design/ProjMgmt	1,616	197,457	0	0	63,014	0	0	63,014
Const/Equip	753	3,200	0	0	119,474	480,525	479,212	1,079,211
Total Project Costs	282,308	200,657	0	0	182,488	480,525	479,212	1,142,225

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Tryon Creek Predesign

Area: SW
Objective(s): Mandated

Project Description

The purpose of this project is to take the planning level recommendation from the Public Facilities Plan and the Tryon Creek Corridor Assessment Plan and develop a predesign for the mainstem of Tryon Creek and its tributaries (Falling Creek and Arnold Creek). The predesign will perform a comprehensive evaluation of the watershed to assess the cause and effect that existing and future development will have on basin water quality, existing infrastructure capacity, and stream system function. The outcome of the predesign will be a prioritized list of projects which: identifies the repair and replacement of inadequately sized culverts; proposes improvements to the conveyance system deficiencies; provides for the protection and rehabilitation of stream segments (for stream function and water quality); and identifies upland water quality retrofits to the existing system.

Funding Sources

Others Financing	0	0	3,367	1,707	0	0	0	5,074
Revenue Bonds	0	0	105,999	53,725	0	0	0	159,724
Service Charges and Fees	0	0	56,543	28,658	0	0	0	85,201
Total Funding Sources	0	0	165,909	84,090	0	0	0	249,999

Project Costs

Planning	0	0	165,909	84,090	0	0	0	249,999
Total Project Costs	0	0	165,909	84,090	0	0	0	249,999

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Commercial/Industrial Sanitary Sewer Extn Program

Area: ALL
Objective(s): Expansion

Project Description

The primary objective of this program is to make sanitary sewers available to commercial/ industrial zones which have been at least partially developed, use on-site septic systems, and which are not able to construct new on-site systems within the Oregon Department of Environmental Quality (DEQ) regulations due to locations or land constraints. This program seeks to construct infrastructure to allow commercial/ industrial facilities to obtain sanitary sewer service when needed and thus prevent creation of public health hazards. The Commercial Sewer Extension Program will allow construction of infrastructure for existing commercial/ industrial sites when a documented need for such facilities is established.

Funding Sources

Revenue Bonds	260,682	202,541	383,129	383,129	383,129	384,178	383,129	1,916,694
Service Charges and Fees	139,053	108,040	204,368	204,368	204,368	204,929	204,368	1,022,401
Others Financing	8,282	6,435	12,173	12,173	12,173	12,206	12,173	60,898
Total Funding Sources	408,017	317,016	599,670	599,670	599,670	601,313	599,670	2,999,993

Project Costs

Planning	52,994	0	0	0	0	0	0	0
Design/ProjMgmt	87,199	38,260	49,972	49,972	49,972	50,109	49,972	249,997
Const/Equip	267,824	278,756	549,698	549,698	549,698	551,204	549,698	2,749,996
Total Project Costs	408,017	317,016	599,670	599,670	599,670	601,313	599,670	2,999,993

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	1,000	2,000	3,000	4,000	10,000
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Drainage Improvement Program (DIP)

Area: ALL
Objective(s): Expansion

Project Description

The Drainage Improvement Program (DIP) provides assistance to projects initiated through Local Improvement District (LID) or Public Works Permits processes for oversizing of storm drainage facilities or upgrading of existing public downstream drainage systems. This program was created in FY 90/91 in response to drainage improvement needs throughout the City.

Funding Sources

Revenue Bonds	705,636	63,994	44,698	44,698	44,698	44,820	44,698	223,612
Service Charges and Fees	376,400	34,136	23,843	23,843	23,843	23,909	23,843	119,281
Others Financing	22,420	2,033	1,420	1,420	1,420	1,424	1,420	7,104
Total Funding Sources	1,104,456	100,163	69,961	69,961	69,961	70,153	69,961	349,997

Project Costs

Planning	8,832	0	0	0	0	0	0	0
Design/ProjMgmt	106,888	7,300	0	0	0	0	0	0
Site Acquisition	3,100	0	0	0	0	0	0	0
Const/Equip	985,636	92,863	69,961	69,961	69,961	70,153	69,961	349,997
Total Project Costs	1,104,456	100,163	69,961	69,961	69,961	70,153	69,961	349,997

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Environmental Services

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Permit Reimbursement								
Project Description								
This on-going program provides reimbursement to the developer of a public works permit sanitary sewer project for the value of in-lieu-of-assessment payments by nearby property owners who receive sewer service as part of the permit project. When public works permit projects are constructed by an individual developer, but benefit other properties, in-lieu-of-assessment charges are made to the benefiting property owners in accord with a City Code-defined process. Reimbursement to the developer is made upon completion and acceptance of the project. The purpose of this program is to acknowledge the benefits to adjacent property owners and the public sewer system of sanitary sewer facilities developed through the public works permit process. The City will recover the cost when the adjacent properties connect to the sewer and pay the in-lieu-of-assessment charges as defined in the Code. The reimbursement applies to the construction cost of the project only. The design/engineering cost is borne by the developer.								
Funding Sources								
Service Charges and Fees	152,147	47,450	47,346	47,346	47,346	47,476	47,346	236,860
Others Financing	9,062	2,826	2,820	2,820	2,820	2,827	2,820	14,107
Revenue Bonds	285,227	88,952	88,757	88,757	88,757	89,001	88,757	444,029
Total Funding Sources	446,436	139,228	138,923	138,923	138,923	139,304	138,923	694,996
Project Costs								
Planning	76,051	0	0	0	0	0	0	0
Const/Equip	370,385	139,228	138,923	138,923	138,923	139,304	138,923	694,996
Total Project Costs	446,436	139,228	138,923	138,923	138,923	139,304	138,923	694,996
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Area: ALL
Objective(s): Expansion

Permits

Area: ALL
Objective(s): Expansion

Project Description

This on-going, full cost recovery project supports new development within our service area by providing for new public sewer system facilities through the public works permitting process. The permit process is defined in Title 17, Chapter 17.24, Permits. When proposed development creates the need for additional sewer system facilities, private developers are required to construct those facilities under this program. As part of the permit process, BES reviews and approves both plans and final construction for compliance with system standards. Facilities developed through this process are accepted as part of the City's sewerage system when completed and approved.

Funding Sources

Service Charges and Fees	3,042,111	300,492	400,000	400,000	400,000	400,000	400,000	2,000,000
Total Funding Sources	3,042,111	300,492	400,000	400,000	400,000	400,000	400,000	2,000,000

Project Costs

Planning	38,921	0	0	0	0	0	0	0
Design/ProjMgmt	573,493	16,178	20,000	20,000	20,000	20,000	20,000	100,000
Const/Equip	2,429,697	284,314	380,000	380,000	380,000	380,000	380,000	1,900,000
Total Project Costs	3,042,111	300,492	400,000	400,000	400,000	400,000	400,000	2,000,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	30,000	60,000	90,000	120,000	150,000	450,000

Capital Improvement Plan — Public Utilities
Bureau of Environmental Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Residential Sanitary Sewer Extension Program

Area: ALL
Objective(s): Expansion

Project Description

The Sewer Extension Program is designed to provide sewer service to the remaining developed but unsewered residential neighborhoods within the City of Portland. This program was developed at the direction of City Council to provide an alternative to the Local Improvement District (LID) process for extending sanitary sewers to developed residential areas. A major portion of the cost of improvements provided through this program is recovered from benefited property owners through line and branch charges.

Funding Sources

Revenue Bonds	2,316,266	384,284	574,694	574,694	574,694	576,269	574,694	2,875,045
Others Financing	73,595	12,210	18,259	18,259	18,259	18,310	18,259	91,346
Service Charges and Fees	1,235,536	204,984	306,553	306,553	306,553	307,392	306,553	1,533,604
Total Funding Sources	3,625,397	601,478	899,506	899,506	899,506	901,971	899,506	4,499,995

Project Costs

Planning	222,220	0	0	0	0	0	0	0
Design/ProjMgmt	503,487	100,280	99,945	99,945	99,945	100,219	99,945	499,999
Const/Equip	2,899,690	501,198	799,561	799,561	799,561	801,752	799,561	3,999,996
Total Project Costs	3,625,397	601,478	899,506	899,506	899,506	901,971	899,506	4,499,995

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	2,000	4,000	6,000	8,000	10,000	30,000
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South Airport Sanitary Trunk Sewer

Area: NE
Objective(s): Expansion

Project Description

The South Airport Sanitary Trunk Sewer project will provide sewer service to the South Airport Industrial Sanitary Basin. The recommended trunk sewer project will consist of 9,600' of 8" to 24" sewer pipe and most notably three pump stations. It will ultimately serve the entire 1,400 acre South Airport Industrial Basin. It will be located close to and parallel to the Whitaker Slough. It will convey sewage to the NE 59th Place Pumping Station. It will reach to NE 42nd Avenue on the west and the Colwood Golf Course (72nd Avenue) on the east.

Funding Sources

Others Financing	11,578	27,134	26,330	17,763	6,741	11,077	26,222	88,133
Revenue Bonds	364,421	854,001	828,685	559,056	212,189	348,627	825,293	2,773,850
Service Charges and Fees	194,390	455,539	442,036	298,211	113,187	185,965	440,227	1,479,626
Total Funding Sources	570,389	1,336,674	1,297,051	875,030	332,117	545,669	1,291,742	4,341,609

Project Costs

Planning	310,917	0	125,000	125,000	0	0	0	250,000
Design/ProjMgmt	159,985	203,050	739	19,818	69,426	78,240	20,349	188,572
Site Acquisition	77,197	140,000	934	19,487	63,388	64,441	0	148,250
Const/Equip	22,290	993,624	1,170,378	710,725	199,303	402,988	1,271,393	3,754,787
Total Project Costs	570,389	1,336,674	1,297,051	875,030	332,117	545,669	1,291,742	4,341,609

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	5,000	5,000	5,000	5,000	20,000
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Prior Years	Revised	Adopted	Capital Plan				5-Year Total
		FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Customer Service

AUTOMATED METER READING

Area: NA
Objective(s): Efficiency

Project Description

The Bureau has completed a successful automated meter reading (AMR) pilot study using hard-to-read commercial meters. This project continues evaluation of AMR technology for system-wide meter reading, as well as a continued focus on the use of technology to resolve additional situations with hard-to-read meters. By installing automatic meter reading technology, the Bureau will reduce the cost of reading these meters. The primary benefit of the project is to improve the Bureau's efficiency and increase the safety of employees that read the meters. When completed, the project savings are expected to exceed \$5,000 per year.

Funding Sources

Revenue Bonds	402,008	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Total Funding Sources	402,008	100,000	100,000	100,000	100,000	100,000	100,000	500,000

Project Costs

Planning	11,763	0	0	0	0	0	0	0
Design/ProjMgmt	390,245	10,000	10,000	10,000	10,000	10,000	10,000	50,000
Const/Equip	0	90,000	90,000	90,000	90,000	90,000	90,000	450,000
Total Project Costs	402,008	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CUSTOMER INFORMATION SYSTEM

Area: NA
Objective(s): Replacement

Project Description

This project encompasses the business process re-engineering, planning, design, testing, and implementation for a new utility billing and customer information system. An optimum approach to replacing the current system was identified during the re-engineering effort. New business practices, training programs, and system documentation approaches are currently being developed. The new system is targeted to be online in December 1999, with completion over the next several months. The project is expected to favorably impact the Bureau's O&M costs; however, the amount of improvement has not yet been identified in the project design.

Funding Sources

Revenue Bonds	3,484,129	1,515,000	0	0	0	0	0	0
Total Funding Sources	3,484,129	1,515,000	0	0	0	0	0	0

Project Costs

Planning	85,000	0	0	0	0	0	0	0
Design/ProjMgmt	688,536	165,000	0	0	0	0	0	0
Const/Equip	2,710,593	1,350,000	0	0	0	0	0	0
Total Project Costs	3,484,129	1,515,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Distribution

AIRPORT LRT

Area: NE
Objective(s): Mandated

Project Description

This project includes the necessary planning, evaluation, design, and relocation of water facilities to accommodate the Airport Light Rail Transit (LRT) line. Project completion is expected in mid November 1999. The project entails relocation of approximately 1,500 feet of 16-inch DI main in conflict with the proposed Airport MAX light rail extension, as well as installation of six cased crossings of the light rail track. Costs for this project are recoverable from Bechtel under a current agreement between Bechtel and the Bureau.

Funding Sources

Intergovernmental	11,649	100,000	0	0	0	0	0	0
Revenue Bonds	11,650	100,000	0	0	0	0	0	0
Total Funding Sources	23,299	200,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	23,299	50,000	0	0	0	0	0	0
Const/Equip	0	150,000	0	0	0	0	0	0
Total Project Costs	23,299	200,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

BRIDGE PIPE EVALUATION

Area: NA
Objective(s): Repair/Maint

Project Description

Design standards for bridge pipe systems will be reviewed, including those for pipe sizes, materials, and hanger types. On the basis of these reviews, Bureau staff and consultants will develop criteria for bridge review and recommend maintenance, modifications, or replacement of bridge mains. Standards for future design will also be developed. Project benefits are improved employee and public safety and improved reliability of pipelines suspended from bridges.

Funding Sources

Revenue Bonds	37,677	20,000	0	0	0	0	0	0
Total Funding Sources	37,677	20,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	37,677	20,000	0	0	0	0	0	0
Total Project Costs	37,677	20,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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BUILDING MAINTENANCE-GENERAL

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for the capital maintenance of underground vaults, buildings, and grounds owned by the Bureau. A program for the repair and maintenance of these facilities is essential for their proper operation. Structural maintenance of buildings and grounds includes painting, roofing, paving, remodeling, repairing damage caused by vandalism, and other related tasks. Maintenance of underground vaults centers on replacing vaults that endanger worker safety. Work slated for completion in FY 99-00 includes building modifications necessary to comply with the Americans with Disabilities Act (ADA), completion of the office space remodeling in the Portland Building, roofing repairs to several buildings, and removal of seismic hazards to employees and equipment at various facilities. Additional scheduled projects include seismic upgrade of the Groundwater Pump Station, construction of a cement silo, upgrade of the Interstate facility, and demolition of the Westinghouse Building. These upgrades are needed to ensure continued performance of the Groundwater Pump Station and to maintain operation. These activities also will help ensure compliance with applicable regulations and include cost-effective repairs to correct or prevent damage to existing facilities. Further funding for the project and the negotiations is included in the Bureau's base budget.

Funding Sources

Revenue Bonds	0	428,400	407,000	250,000	200,000	200,000	200,000	1,257,000
Service Charges and Fees	0	900,000	0	0	0	0	0	0
Total Funding Sources	0	1,328,400	407,000	250,000	200,000	200,000	200,000	1,257,000

Project Costs

Design/ProjMgmt	0	1,188,400	136,000	60,000	60,000	60,000	60,000	376,000
Const/Equip	0	140,000	271,000	190,000	140,000	140,000	140,000	881,000
Total Project Costs	0	1,328,400	407,000	250,000	200,000	200,000	200,000	1,257,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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BURLINGAME SERVICE AREA STORAGE IMPROVEMENTS

Area: NA
Objective(s): Replacement

Project Description

This project provides for evaluation of Burlingame service area storage for compliance with the Bureau's storage criterion for major service areas. Many of the existing storage facilities in the Burlingame service area were obtained through annexation and are located at elevations that are too low to operate effectively as part of the Burlingame pressure zone. The project provides for: construction of additional storage at the proper elevation, if required; piping and control modifications to existing storage facilities; and removal of unusable storage facilities. Additional sites at two existing storage facilities—Alfred Tank and Brugger Tank—may be appropriate for construction of additional storage for the service area. This project incorporates the former Canby High Tank Replacement and Collins View Tank Modification projects. Associated projects included in this CIP include the Fulton Pump Station Renovation and the Burlingame/WCSL and Westwood Intertie. The primary project benefit is improving system design criteria (reliability, operation, and fire flow). A preliminary study and master plan of the area will be prepared in the first year of the project, followed by design and construction of storage pipelines and control systems in subsequent years.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	40,000	40,000
Total Funding Sources	0	0	0	0	0	0	40,000	40,000

Project Costs

Planning	0	0	0	0	0	0	10,000	10,000
Design/ProjMgmt	0	0	0	0	0	0	30,000	30,000
Total Project Costs	0	0	0	0	0	0	40,000	40,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

BURNSIDE PUMP STATION UPGRADE

Area: NW
Objective(s): Repair/Maint

Project Description

The existing Burnside Pump Station is the back-up supply to the Calvary Tank, which is the primary supply for the Sylvan, Skyline, and Northwest Hills storage areas. The station also provides emergency backup supply to parts of the Tualatin Valley Water District. The pump station is needed for reliability in the event that the primary station, the Hoyt Park Pump Station, is out of service or backup emergency supply is needed by Tualatin Valley Water District. The project consists of reconstruction of the existing facility. The primary benefit of the project is system maintenance.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CAREY BOULEVARD SUPPLY MAIN

Area: N
Objective(s): Mandated

Project Description

This project will fund construction of a major pipeline supply loop to Hayden Island and the Rivergate area. Approximately 15,000 feet of 24-inch main will be installed in N. Carey Boulevard and N. Portland Road from N. Princeton to N. Suttle Road. The main will include a bridge crossing of the Burlington-Northern Railroad cut. This project will allow the existing Rivergate Pump Station to be retired and will help meet demand and fireflow requirements for the West Hayden Island development and Rivergate areas. A master plan to be prepared in the early phases of this project will compare the cost of operating the existing pump station and constructing the supply main prior to the need for increased supply to West Hayden Island and the Rivergate area.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	20,000	20,000
Total Funding Sources	0	0	0	0	0	0	20,000	20,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	20,000	20,000
Total Project Costs	0	0	0	0	0	0	20,000	20,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CENTRAL CITY STREETCAR

Area: CC
Objective(s): Replacement

Project Description

The purpose of this project to relocate and protect water facilities as necessary to allow construction of a public streetcar system that connects the Portland State University Campus to Good Samaritan Hospital. The proposed streetcar project will consist of a single set of tracks (eastbound) in N.W. Lovejoy Street from N.W. 23rd Avenue to N.W. 11th Avenue (southbound), in N.W. and S.W. 11th Avenue from Lovejoy Street to S.W. Mill Street (northbound), in S.W. and N.W. 10th Avenue from S.W. Mill Street to N.W. Northrup Street, and westbound in N.W. Northrup Street from N.W. 10th Avenue to N.W. 23rd Avenue. The Bureau anticipates that 80 percent of the costs for the work will be reimbursed by the Streetcar project. Future phases of the Streetcar project are being considered, but no funding is included for them.

Funding Sources

Revenue Bonds	213,892	244,340	20,000	0	0	0	0	20,000
Intergovernmental	855,566	977,360	80,000	0	0	0	0	80,000
Total Funding Sources	1,069,458	1,221,700	100,000	0	0	0	0	100,000

Project Costs

Planning	324	0	0	0	0	0	0	0
Design/ProjMgmt	1,069,134	260,000	10,000	0	0	0	0	10,000
Const/Equip	0	961,700	90,000	0	0	0	0	90,000
Total Project Costs	1,069,458	1,221,700	100,000	0	0	0	0	100,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CONTROL SYSTEMS IMPROVEMENT

Area: NE
Objective(s): Efficiency

Project Description

This project provides for adding new telemetry sites to the Water Bureau's Supervisory Control and Data Acquisition (SCADA) system. New sites are needed to serve facilities acquired by annexation, to improve operational reliability and efficiency, to monitor the Bureau's wholesale customers, and to monitor additional key operational data points. Its primary benefit is improved operation and design of the water system.

Funding Sources

Revenue Bonds	0	27,000	27,000	27,000	27,000	27,000	27,000	135,000
Total Funding Sources	0	27,000	27,000	27,000	27,000	27,000	27,000	135,000

Project Costs

Design/ProjMgmt	0	7,000	7,000	7,000	7,000	7,000	7,000	35,000
Const/Equip	0	20,000	20,000	20,000	20,000	20,000	20,000	100,000
Total Project Costs	0	27,000	27,000	27,000	27,000	27,000	27,000	135,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CORROSION CONTROL EXTERNAL

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for cathodic protection and corrosion control for the Bureau's conduits, supply mains, and storage tanks. Both capital maintenance of existing corrosion control systems and installation of new cathodic protection systems are funded. The primary benefit of this ongoing project is maintenance of the water system.

Funding Sources

Revenue Bonds	0	150,000	50,000	50,000	50,000	50,000	50,000	250,000
Total Funding Sources	0	150,000	50,000	50,000	50,000	50,000	50,000	250,000

Project Costs

Design/ProjMgmt	0	20,000	20,000	20,000	20,000	20,000	20,000	100,000
Const/Equip	0	130,000	30,000	30,000	30,000	30,000	30,000	150,000
Total Project Costs	0	150,000	50,000	50,000	50,000	50,000	50,000	250,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

COUNCIL CREST RESERVOIR NO. 3

Area: SW
Objective(s): Expansion

Project Description

This project provides for an evaluation of Council Crest Service Area storage for compliance with the Bureau's major service storage criteria. The project provides for construction of additional storage, if necessary, and for piping and control modifications to improve operations of the existing storage facilities. The primary project benefits are improved fire protection and service capacity, which will be achieved by bringing this area up to Bureau standards.

Funding Sources

Revenue Bonds	0	0	0	0	0	15,000	0	15,000
Total Funding Sources	0	0	0	0	0	15,000	0	15,000

Project Costs

Planning	0	0	0	0	0	15,000	0	15,000
Total Project Costs	0	0	0	0	0	15,000	0	15,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CUSTOMER DEMAND MONITORING

Area: NA
Objective(s): Efficiency

Project Description

This project will fund acquisition and installation of an automated system to monitor water demand of a representative number of services at the customer level. Data collected using this system can be applied to rate-making and developing benchmarks for conservation programs. It can also be used to improve design and operations standards and to calibrate and validate water distribution models, including the Bureau's long-term and short-term demand monitoring projects and State Study project. As part of this project, flow monitoring or automated metering devices will be installed on approximately 800 retail customers' meters and 1,500 wholesale customer residential meters. Data will be transmitted using radio or telephone uplinks to provide instantaneous, hourly, or diurnal data, as needed. Ongoing operations and maintenance costs are expected to be approximately \$20,000 a year. The primary benefit of the project is increased accuracy of the design and operation of the water system.

Funding Sources

Intergovernmental	0	0	120,000	0	0	0	0	120,000
Revenue Bonds	186,500	67,000	8,000	108,000	0	0	0	116,000
Service Charges and Fees	247,406	363,000	90,000	90,000	0	0	0	180,000
Total Funding Sources	433,906	430,000	218,000	198,000	0	0	0	416,000

Project Costs

Design/ProjMgmt	433,906	363,000	90,000	90,000	0	0	0	180,000
Const/Equip	0	67,000	128,000	108,000	0	0	0	236,000
Total Project Costs	433,906	430,000	218,000	198,000	0	0	0	416,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	20,000	20,000	20,000	20,000	20,000	100,000

EAST BOUNDARY MAIN

Area: SE
Objective(s): Mandated

Project Description

This project will provide supply and distribution strength along the eastern boundary of the Portland system, the Powell Valley Road Water District, and the Rockwood Water District. The primary objective is to eliminate dead ends along the boundary by constructing the East Boundary Main. Approximately 6,000 feet of 16-inch main will be installed in SE 174th Avenue from SE Haig Street to SE Division Street and 10,800 feet of 12-inch main will be installed in SE Stark Street from SE 148th Avenue to SE 174th Avenue and in 162nd Avenue from SE Stark Street to NE Halsey Street. The timing of this project will be linked to the needs of the East County Annexation Area. Planning will take place in FY 03-04, with design and construction to be staged in FY 05-06 and FY 07-08, respectively. The primary benefit of this project will be improved fire protection. Secondary benefits will include increased system reliability and improved water quality.

Funding Sources

Revenue Bonds	0	0	0	0	0	10,000	0	10,000
Total Funding Sources	0	0	0	0	0	10,000	0	10,000

Project Costs

Planning	0	0	0	0	0	10,000	0	10,000
Total Project Costs	0	0	0	0	0	10,000	0	10,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted		Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05			
EMERGENCY OPERATIONS FACILITY										
									Area:	NA
									Objective(s):	Mandated
Project Description										
This project includes a feasibility assessment, design and construction of a multi-use facility for an emergency operations center at the Bureau's Interstate Complex. This multi-use facility will allow for efficient response by the Bureau to all types of emergencies as well as providing space for conference rooms and training. The Bureau will apply for grants from FEMA to provide partial funding of the facility. A temporary facility was constructed in FY 99-00. The permanent facility will be located as a part of the master planning effort currently underway at the Interstate facility is planned for FY 04-05 and FY 05-06. The budget assumes that a portion of the cost will be underwritten by FEMA.										
Funding Sources										
Revenue Bonds	5,860	665,000	0	0	0	0	100,000	100,000		
Total Funding Sources	5,860	665,000	0	0	0	0	100,000	100,000		
Project Costs										
Planning	5,860	10,000	0	0	0	0	0	0		
Design/ProjMgmt	0	265,000	0	0	0	0	10,000	10,000		
Const/Equip	0	390,000	0	0	0	0	90,000	90,000		
Total Project Costs	5,860	665,000	0	0	0	0	100,000	100,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	0	0		
FOREST PARK LOW SUPPLY MAIN										
									Area:	NW
									Objective(s):	Mandated
Project Description										
This is a phased project to connect the proposed Forest Park Low Tank (1,044-foot overflow elevation) to the Calvary Tank. The project will be initiated with a small planning study, followed by pipeline design and construction. The pipeline itself will consist of installing 8,600 feet of 16-inch main in N.W. Miller Road from NW Brynwood Lane to NW Barnes Road and then Barnes Road, Burnside Street, and Skyline Boulevard to the Calvary Tank.										
Funding Sources										
Revenue Bonds	0	0	0	10,000	0	70,000	300,000	380,000		
Total Funding Sources	0	0	0	10,000	0	70,000	300,000	380,000		
Project Costs										
Planning	0	0	0	10,000	0	0	0	10,000		
Design/ProjMgmt	0	0	0	0	0	70,000	50,000	120,000		
Const/Equip	0	0	0	0	0	0	250,000	250,000		
Total Project Costs	0	0	0	10,000	0	70,000	300,000	380,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	0	0		
FOREST PARK RESERVOIRS										
									Area:	NW
									Objective(s):	Expansion
Project Description										
This project provides for the planning, design, and construction of three reservoirs to serve the Skyline Boulevard corridor and the Northwest Hills area. The first reservoir, a recently completed 0.5-million-gallon elevated storage structure near Skyline Memorial Gardens, serves the high service areas in the old Sylvan Water District area and was placed in service during FY 96-97. The second and third reservoirs, which will serve the lower service areas in conjunction with Calvary Reservoir, will be below ground tanks located near the intersection of Skyline Boulevard and Cornell Road. Site acquisition of the lower reservoirs is scheduled for FY 99-00. Design and construction of the second tank is scheduled for FY 01-02. The third reservoir will be needed in future years to serve anticipated build-out demands.										
Funding Sources										
Revenue Bonds	2,628,165	215,000	0	200,000	1,195,000	0	0	1,395,000		
Total Funding Sources	2,628,165	215,000	0	200,000	1,195,000	0	0	1,395,000		
Project Costs										
Design/ProjMgmt	394,225	215,000	0	50,000	95,000	0	0	145,000		
Site Acquisition	2,233,940	0	0	0	0	0	0	0		
Const/Equip	0	0	0	150,000	1,100,000	0	0	1,250,000		
Total Project Costs	2,628,165	215,000	0	200,000	1,195,000	0	0	1,395,000		
Fund Level Costs	0	0	0	0	0	0	0	0		
Oper & Maint Costs	0	0	0	0	0	0	0	0		

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

FOUNTAIN IMPROVEMENTS

Area: CC
Objective(s): Repair/Maint

Project Description

The Bureau is responsible for the operation and maintenance of 27 of the City's decorative fountains, many of which need major repairs or renovation. This ongoing program of fountain improvements includes repair of drain lines and valves; replacement of liners; repair and replacement of electrical equipment and lighting systems; repair and replacement of pumps; repair and replacement of wind controls and spray nozzles; various improvements to exterior surfaces; and installation of recirculating systems. The project also includes adding telemetry from major fountains to the Water Control Center. The primary benefits of this project are improved maintenance, enhanced public safety, and water conservation. The Bureau does not expect to realize any measurable O&M savings for several years from this project because fountains not yet reconstructed by this project are deteriorating rapidly.

Funding Sources

Revenue Bonds	0	371,000	200,000	200,000	105,000	105,000	105,000	715,000
Total Funding Sources	0	371,000	200,000	200,000	105,000	105,000	105,000	715,000

Project Costs

Design/ProjMgmt	0	51,000	40,000	40,000	23,000	23,000	23,000	149,000
Const/Equip	0	320,000	160,000	160,000	82,000	82,000	82,000	566,000
Total Project Costs	0	371,000	200,000	200,000	105,000	105,000	105,000	715,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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FREEMAN TANK REMOVAL

Area: NW
Objective(s): Efficiency

Project Description

The Freeman Tank, which is relatively old and does not meet current standards, will be demolished. This tank was initially constructed by another water district and was obtained by the Bureau through annexation. The tank has leaked excessively for years, resulting in further damage. The tank is no longer needed to supply the area it serves and has been removed from service. Its value to the system is less than the cost required to maintain it. Because the tank is not currently in service, operations and maintenance costs will not be reduced through its removal.

Funding Sources

Service Charges and Fees	0	0	8,000	50,000	0	0	0	58,000
Total Funding Sources	0	0	8,000	50,000	0	0	0	58,000

Project Costs

Planning	0	0	8,000	0	0	0	0	8,000
Design/ProjMgmt	0	0	0	5,000	0	0	0	5,000
Const/Equip	0	0	0	45,000	0	0	0	45,000
Total Project Costs	0	0	8,000	50,000	0	0	0	58,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

GILBERT-CLATSOP SUPPLY MAIN

Area: SE
Objective(s): Expansion

Project Description

The goal of this project is to improve water supply to the Gilbert area and provide a second supply to the S.E. 162nd Avenue Pump Station, which supplies the Clatsop Butte area. Construction of the main will connect this area to the Powell Butte Reservoir via the Washington County Supply Line at S.E. Holgate Boulevard. Approximately 1,600 feet of 16-inch main in S.E. Raymond Street from S.E. 136th Avenue to the S.E. 143rd Avenue reservoir has been installed by the Powell Valley Road Water District (PVRWD). It is anticipated that PVRWD will install approximately 4,600 feet of 16-inch main in SE 136th Avenue from Holgate Boulevard to SE Foster Road and in SE Foster Road from SE 136th Avenue to SE 145th Avenue. The Portland Water Bureau will install the remaining portion of main in Foster Road from SE 145th Avenue to the SE 162nd Avenue Pump Station. The project is contingent on the area annexed to the City being withdrawn from PVRWD. The primary benefit of the project is an increase in water system capacity for the area served. Secondary benefits include replacement of old mains and increased fire protection. A related project in the current CIP is the S.E. Foster Road Supply Main, which will supply the Gilbert-Clatsop Supply Main.

Funding Sources

Revenue Bonds	0	0	0	0	0	15,000	100,000	115,000
Total Funding Sources	0	0	0	0	0	15,000	100,000	115,000

Project Costs

Planning	0	0	0	0	0	15,000	0	15,000
Design/ProjMgmt	0	0	0	0	0	0	100,000	100,000
Const/Equip	0	0	0	0	0	0	0	0
Total Project Costs	0	0	0	0	0	15,000	100,000	115,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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GIS WATER BUREAU

Area: NA
Objective(s): Efficiency

Project Description

This project will create electronic maps of the water system and establish database links to other Bureau computer systems. The resulting information will be made available within the Bureau and eventually on a citywide basis. The primary benefit of the project is increased efficiency in operation and maintenance of the water system, by providing greater access to mapping, customer service, and facility records by Bureau employees. Specific work to be accomplished in FY 00-01 includes completing the transfer of data to the city-wide standard GIS platform and application development.

Funding Sources

Service Charges and Fees	2,129,535	525,000	191,000	50,000	50,000	50,000	0	341,000
Total Funding Sources	2,129,535	525,000	191,000	50,000	50,000	50,000	0	341,000

Project Costs

Planning	8,661	0	0	0	0	0	0	0
Design/ProjMgmt	2,057,594	525,000	191,000	50,000	50,000	50,000	0	341,000
Const/Equip	63,280	0	0	0	0	0	0	0
Total Project Costs	2,129,535	525,000	191,000	50,000	50,000	50,000	0	341,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	60,000	60,000	60,000	60,000	60,000	300,000
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GREENLEAF PUMP STATION REPLACEMENT

Area: NW
Objective(s): Replacement

Project Description

This project consists of replacing the Greenleaf Pump Station, which currently supplies water to the Penridge standpipe. The pump replacement will enable the Bureau to increase flows to meet current and future water demands and fire protection requirements of the Penridge distribution system. The primary project benefit is increased fire flow, resulting in increased public safety. Secondary benefits include reduced maintenance costs and increased system capacity.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	27,000	27,000
Total Funding Sources	0	0	0	0	0	0	27,000	27,000

Project Costs

Planning	0	0	0	0	0	0	7,000	7,000
Design/ProjMgmt	0	0	0	0	0	0	20,000	20,000
Total Project Costs	0	0	0	0	0	0	27,000	27,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

GREENLEAF RESERVOIR NO. 3

Area: NW
Objective(s): Mandated

Project Description

This project provides for the design and construction of a 700,000-gallon reservoir at the Greenleaf Reservoir site. This new reservoir is needed to provide adequate storage for water supply and fire flows to meet future demands in the Northwest Hills, Skyline Boulevard Corridor, and Forest Park Estates service areas. The project may also require replacement of the existing public building on the site, which is currently used for public meetings. The primary project benefit is increased system capacity.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	20,000	20,000
Total Funding Sources	0	0	0	0	0	0	20,000	20,000

Project Costs

Planning	0	0	0	0	0	0	5,000	5,000
Design/ProjMgmt	0	0	0	0	0	0	15,000	15,000
Total Project Costs	0	0	0	0	0	0	20,000	20,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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HAYDEN ISLAND MASTER METERING EAST OF I-5

Area: N
Objective(s): Efficiency

Project Description

This project consists of planning, design, and construction of master meters on Hayden Island east of Interstate 5 (I-5). Several mains are on private property and cannot be easily maintained. These mains will be master metered. Several master meters will be installed in FY 99-00 in conjunction with the replacement of the mains on the east side of Hayden Island. Some of the meters will be on private property and will require easements.

Funding Sources

Revenue Bonds	10,046	120,000	0	0	0	0	0	0
Total Funding Sources	10,046	120,000	0	0	0	0	0	0

Project Costs

Planning	8,394	0	0	0	0	0	0	0
Design/ProjMgmt	1,652	20,000	0	0	0	0	0	0
Const/Equip	0	100,000	0	0	0	0	0	0
Total Project Costs	10,046	120,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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INTERSTATE SECURITY SYSTEM

Area: CC
Objective(s): Efficiency

Project Description

The security needs at the Bureau's Interstate properties will be studied. The project includes funding necessary to improve lighting and install six card system gates, camera surveillance equipment, and motion detectors. The benefits of the project are reduced theft from the Bureau's construction material yard and a more secure environment for employees. The Interstate Site Plan is a related project.

Funding Sources

Revenue Bonds	307	0	0	0	200,000	0	0	200,000
Total Funding Sources	307	0	0	0	200,000	0	0	200,000

Project Costs

Planning	95	0	0	0	0	0	0	0
Design/ProjMgmt	212	0	0	0	5,000	0	0	5,000
Const/Equip	0	0	0	0	195,000	0	0	195,000
Total Project Costs	307	0	0	0	200,000	0	0	200,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)	(10,000)
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

INTERSTATE SITE PLAN IMPLEMENTATION

Area: N
Objective(s): Expansion

Project Description

The purpose of this project is to develop and implement a plan that will increase the efficiency and utility of the Bureau's current Interstate properties. The project provides funds to purchase real property to meet the plan goals (FY 01-02) and to improve existing properties (FY 00-01). The resultant plan will include short- and long-term options. Options for moving a majority of the current office staff from the Portland Building to the Interstate site will be studied. In past years, the project provided for the acquisition of land to expand the Interstate yard and the purchase and remodeling of space within the Portland Building to meet the Bureau's short-term space needs in FY 95-96. Related projects include the Emergency Operations Facility, the Interstate Security System, and the Paint Shop Relocation.

Funding Sources

Revenue Bonds	1,001,755	100,000	100,000	500,000	0	0	0	600,000
Total Funding Sources	1,001,755	100,000	100,000	500,000	0	0	0	600,000

Project Costs

Design/ProjMgmt	115,104	100,000	14,000	50,000	0	0	0	64,000
Site Acquisition	721,381	0	0	450,000	0	0	0	450,000
Const/Equip	165,270	0	86,000	0	0	0	0	86,000
Total Project Costs	1,001,755	100,000	100,000	500,000	0	0	0	600,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

KELLY BUTTE AREA SUPPLY

Area: SE
Objective(s): Expansion

Project Description

The Kelly Butte area, recently annexed from the Powell Valley Road Water District (PVRWD), contains developable land at elevations too high to be served by Portland's local Tabor 411-pressure zone. Currently, there is no water supply to high elevations in this area. This project will entail constructing at least one pump station and the necessary mains to serve this area. A second pump station or storage tank may be required to support Bureau operations as development occurs in the area. Work completed to date on this project consists of a preliminary consultant report written for the PVWRD. A master plan will be completed in the first year of the project to identify the required supply facilities. Design and construction will follow in future years. The primary purpose of the project is to expand the water system service area and support economic development of the Kelly Butte area.

Funding Sources

Revenue Bonds	0	0	0	0	0	16,000	0	16,000
Total Funding Sources	0	0	0	0	0	16,000	0	16,000

Project Costs

Planning	0	0	0	0	0	16,000	0	16,000
Total Project Costs	0	0	0	0	0	16,000	0	16,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

KINGS HEIGHTS MAIN REPLACEMENT

Area: SW
Objective(s): Replacement

Project Description

Portions of the existing pump main system from Washington Park to Kings Heights and Arlington Heights are in poor condition and have undergone numerous repairs. This project provides for replacing approximately 6,600 feet of 12-inch steel main. Preliminary analysis is required to determine whether portions of the main can be preserved with corrosion protection and if any alignment changes are needed.

Funding Sources

Revenue Bonds	1,170	10,000	0	50,000	500,000	0	0	550,000
Total Funding Sources	1,170	10,000	0	50,000	500,000	0	0	550,000

Project Costs

Planning	1,170	8,000	0	0	0	0	0	0
Design/ProjMgmt	0	2,000	0	50,000	0	0	0	50,000
Const/Equip	0	0	0	0	500,000	0	0	500,000
Total Project Costs	1,170	10,000	0	50,000	500,000	0	0	550,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

LARGE VALVE PROGRAM

Area: NA
Objective(s): Replacement

Project Description

This ongoing project systematically replaces or repairs old large diameter pipeline valves within the supply and distribution mains. The water system contains numerous valves for 24-inch and larger pipelines that are 50 to 100 years old. These valves have deteriorated and they will not function properly because of inherent design problems and corrosion. To function reliably (especially to shut water off during main breaks) these valves must be replaced or repaired.

Funding Sources

Revenue Bonds	0	70,000	0	57,000	57,000	57,000	57,000	228,000
Total Funding Sources	0	70,000	0	57,000	57,000	57,000	57,000	228,000

Project Costs

Design/ProjMgmt	0	15,000	0	5,000	5,000	5,000	5,000	20,000
Const/Equip	0	55,000	0	52,000	52,000	52,000	52,000	208,000
Total Project Costs	0	70,000	0	57,000	57,000	57,000	57,000	228,000

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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MAINS PROGRAM

Area: NA
Objective(s): Replacement

Project Description

This ongoing project funds improvements for maintenance of the water distribution piping system, including construction of approximately 62,000 feet of new mains each year. The project includes installing customer-requested mains and new mains in subdivision developments, which are largely reimbursable; replacing leaking mains; upsizing mains to ensure adequate flows for fire protection and water supply; and constructing new mains for looping and redundancy to ensure a reliable supply. Replacement of bridge crossings is also included. The overall project includes the following subprograms: (1) Mains Program--approximately 33,000 feet of new main is installed each year to upsize and replace leaking mains to ensure reliable supply and provide for looping, water quality, and backup or standby supply; (2) Fire Main Program--approximately 13,000 feet of new main is installed each year to replace old, undersized mains and to ensure adequate flow for fire protection and other uses; (3) Petition Main Program--approximately 16,000 feet of new main is installed each year, including customer-requested work and upsizing and replacement of old mains to supply the new petitioner-requested mains; (4) Hydrant Program--30 new hydrants are installed each year for fire protection; and (5) Bridge Pipe Repair Program--existing pipes on bridges are either repaired or replaced. The Downtown Improvements, which consist of upgrades to the water system within the downtown core area on a block-by-block basis, have been combined with this project. The downtown area includes some of the oldest portions of the water system. The primary benefit of the project is maintenance of the water system, with a secondary benefit of improved fire protection. The project is not expected to affect the Bureau's O&M costs. The program has been reduced by \$600,000 annually through FY 04-05 to provide resources for the LRT and other transportation projects.

Funding Sources

Revenue Bonds	0	3,700,000	4,500,000	4,500,000	4,500,000	4,500,000	4,500,000	22,500,000
System Development Charges	0	500,000	450,000	500,000	500,000	500,000	500,000	2,450,000
Total Funding Sources	0	4,200,000	4,950,000	5,000,000	5,000,000	5,000,000	5,000,000	24,950,000

Project Costs

Design/ProjMgmt	0	300,000	250,000	300,000	300,000	300,000	300,000	1,450,000
Const/Equip	0	3,900,000	4,700,000	4,700,000	4,700,000	4,700,000	4,700,000	23,500,000
Total Project Costs	0	4,200,000	4,950,000	5,000,000	5,000,000	5,000,000	5,000,000	24,950,000

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

MAINTENANCE MANAGEMENT SYSTEM

Area: NA
Objective(s): Efficiency

Project Description

The purpose of this project is to evaluate and recommend improvements to many of the Bureau's work processes, especially those that can be enhanced by technology. One project that will receive specific review is the potential replacement of the Maintenance Group's obsolete scheduling systems and warehouse computers. The project includes funding for significant computer upgrades for the office and field crews within the Bureau's Maintenance Group. The primary benefits of this project are more efficient use of resources and timely field reporting and record updating. The first phase of work, which was completed in FY 98-99, included the installation of the inventory System. The Bureau expects to obtain significant operational savings from this project; however, until the initial project study is completed, those savings cannot be reliably estimated.

Funding Sources

Service Charges and Fees	838,550	400,000	200,000	500,000	500,000	400,000	200,000	1,800,000
Total Funding Sources	838,550	400,000	200,000	500,000	500,000	400,000	200,000	1,800,000

Project Costs

Planning	12,414	0	0	0	0	0	0	0
Design/ProjMgmt	123,920	100,000	200,000	200,000	100,000	100,000	100,000	700,000
Const/Equip	702,216	300,000	0	300,000	400,000	300,000	100,000	1,100,000
Total Project Costs	838,550	400,000	200,000	500,000	500,000	400,000	200,000	1,800,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

MARINE DRIVE

Area:

Project Description

The project involves relocation of the existing 24-inch and 16-inch ductile iron mains, and the adjustment and relocation of the existing services and vaults along N. Marine Drive from Suttle Road to the Kelly Point Park access road to accommodate the reconstruction and widening of 2.6 miles of N. Marine Drive by the Port of Portland and the City of Portland Department of Transportation. A budget for assessment of impacts and needed relocations is provided. The construction budget has not yet been determined.

Funding Sources

Revenue Bonds	0	25,000	0	0	0	0	0	0
Total Funding Sources	0	25,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	0	25,000	0	0	0	0	0	0
Total Project Costs	0	25,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

MARQUAM HILL PUMP MAIN 2

Area: SW
Objective(s): Replacement

Project Description

This project provides for planning, design, and construction of 16-inch and 12-inch pump main to replace the existing 12-inch pump main from Marquam Hill Pump Stations Nos. 1 and 2 up the hill to Bertha Reservoir No. 2. The first phase of this project, from the Marquam Hill Pump Stations up SW Marquam Hill Road to SW Fairmont Boulevard, was completed in FY 98-99 in conjunction with the installation of a new 8-inch distribution main. Design for Phase 2 will be done in FY 03-04, with construction to follow in FY 04-05. The primary benefit of this project is to improve capacity in the Council Crest area.

Funding Sources

Revenue Bonds	0	0	10,000	0	72,000	15,000	282,000	379,000
Total Funding Sources	0	0	10,000	0	72,000	15,000	282,000	379,000

Project Costs

Planning	0	0	0	0	2,000	0	0	2,000
Design/ProjMgmt	0	0	10,000	0	3,000	15,000	12,000	40,000
Const/Equip	0	0	0	0	67,000	0	270,000	337,000
Total Project Costs	0	0	10,000	0	72,000	15,000	282,000	379,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

MARQUAM HILL SUPPLY MAIN REALIGNMENT

Area: SW
Objective(s): Repair/Maint

Project Description

This project will improve the reliability of the Marquam Hill Supply Main, which runs through the hospital complex on Marquam Hill and supplies the Marquam Tank. The condition of the main is deteriorating, and the pipeline cannot be maintained for a portion of its length. The best method or combination of methods to ensure its continued reliable operation (currently considered to be either lining or relocating portions of the pump main) will be evaluated. This project will consist of a study and design in FY 99-00 and construction of the selected alternative in FY 01-02.

Funding Sources

Revenue Bonds	13,660	40,000	0	220,000	0	0	0	220,000
Total Funding Sources	13,660	40,000	0	220,000	0	0	0	220,000

Project Costs

Design/ProjMgmt	13,660	40,000	0	20,000	0	0	0	20,000
Site Acquisition	0	0	0	0	0	0	0	0
Const/Equip	0	0	0	200,000	0	0	0	200,000
Total Project Costs	13,660	40,000	0	220,000	0	0	0	220,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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MICROWAVE COMMUNICATIONS SYSTEM

Area: NA
Objective(s): Replacement

Project Description

This project will fund microwave communication links between several Bureau facilities. The first phase of the project, completed in FY 96/97, was construction of a back-up hot link between Council Crest Reservoir and the Water Control Center. The current phase of the project, to be constructed in FY 99-00, will replace the obsolete 12-mHz microwave link between the Headworks and Bear Creek House, as well as provide a new microwave link between Bear Creek House and Look Out Point. This new link to the existing tower at Look Out Point will enable data and video transmission between the Headworks and the Water Control Center. Future phases of the project will include evaluation of communications needs at other remote Bureau facilities such as the Sandy River Station, Lusted Hill, the Groundwater Pump Station, and Powell Butte. Communications capabilities between these sites and the Water Control Center will also be upgraded. The objectives of this project are to: 1) improve employee safety at remote facilities; 2) to monitor remote sites to obtain early detection of forest fires and trespassing; and 3) to reduce vandalism at Bureau facilities. The project will also reduce the need for leased phone lines, resulting in substantial savings to offset the ongoing maintenance costs for the microwave system.

Funding Sources

Revenue Bonds	481,333	580,000	0	0	0	0	0	0
Total Funding Sources	481,333	580,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	72,199	30,000	0	0	0	0	0	0
Const/Equip	409,134	550,000	0	0	0	0	0	0
Total Project Costs	481,333	580,000	0	0	0	0	0	0

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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NORTH INTERSTATE LRT

Area: N

Project Description

This project is needed to move water facilities to accommodate the North Interstate LRT Project on 5.5 miles of N. Interstate Avenue from the Rose Quarter to the Expo Center. Construction of the North LRT will require the Bureau to rebuild the water system along the entire length of the project. Construction is expected to occur in several segments, all of which will be under construction at the same time. Utility work must be completed prior to construction of the light rail tracks. Isolation valves will be installed on all crossing mains prior to utility relocation work on N. Interstate Avenue to facilitate construction and future connections. Construction is expected to begin in July 2000. Most of the project construction costs are expected to be reimbursed through funding for the LRT project.

Funding Sources

Intergovernmental	0	25,000	1,000,000	6,000,000	6,000,000	1,000,000	0	14,000,000
Total Funding Sources	0	25,000	1,000,000	6,000,000	6,000,000	1,000,000	0	14,000,000

Project Costs

Design/ProjMgmt	0	25,000	200,000	200,000	200,000	200,000	0	800,000
Const/Equip	0	0	800,000	5,800,000	5,800,000	800,000	0	13,200,000
Total Project Costs	0	25,000	1,000,000	6,000,000	6,000,000	1,000,000	0	14,000,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

ODOT ADJUSTMENTS

Area: NA
Objective(s): Replacement

Project Description

This ongoing project provides for adjustment and relocation of Bureau facilities required to accommodate several ODOT and City transportation projects. The project also gives the Bureau an opportunity to make improvements to the water system before the transportation improvements are constructed, reducing future maintenance and repair problems and avoiding excavation and cuts in newly constructed streets. ODOT and other agencies will provide some reimbursement for these improvements; however, where water facilities are located in the state highway by permit or where a project provides an opportunity to upgrade the water system at an unusually low cost, at least a portion of the expense is customarily borne by the Water Fund, and the Bureau would expect to provide 50 percent of overall funding for such projects. Included within this project is the relocation of water facilities for removal of the N.W. Lovejoy Street and N.W. 10th Avenue ramps. This will require replacing 1,800 feet of 20-inch main, 300 feet of 12-inch main, and 60 feet of 8-inch main. This main installation will be constructed in conjunction with the new streets and street car tracks for the Central City Streetcar project.

Funding Sources

Intergovernmental	0	847,500	1,137,500	337,500	337,500	337,500	337,500	2,487,500
Revenue Bonds	0	647,500	337,500	337,500	337,500	337,500	337,500	1,687,500
Total Funding Sources	0	1,495,000	1,475,000	675,000	675,000	675,000	675,000	4,175,000

Project Costs

Design/ProjMgmt	0	295,000	225,000	145,000	145,000	145,000	145,000	805,000
Const/Equip	0	1,200,000	1,250,000	530,000	530,000	530,000	530,000	3,370,000
Total Project Costs	0	1,495,000	1,475,000	675,000	675,000	675,000	675,000	4,175,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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PAINT SHOP RELOCATION

Area: N
Objective(s): Expansion

Project Description

The Bureau currently operates a paint shop on the same premises as Parkrose Well No. 3. Oregon Health Division Administrative Rules now prohibit using or storing hazardous materials such as paints near drinking water wells. For this reason, the paint shop must be relocated. This project includes planning, design, and construction of the relocated facility. This project will be done in conjunction with Interstate Facility Planning. In the interim, the requirements for the paint shop will be defined and the existing facility will be secured.

Funding Sources

Revenue Bonds	8,677	0	0	0	0	0	80,000	80,000
Total Funding Sources	8,677	0	0	0	0	0	80,000	80,000

Project Costs

Planning	8,677	0	0	0	0	0	10,000	10,000
Design/ProjMgmt	0	0	0	0	0	0	70,000	70,000
Const/Equip	0	0	0	0	0	0	0	0
Total Project Costs	8,677	0	0	0	0	0	80,000	80,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

PARKROSE SUPPLY MAINS

Area: NE
Objective(s): Expansion

Project Description

The purpose of this project is to construct new mains to supply the areas annexed from the Hazelwood and Parkrose areas. These areas were supplied by the Groundwater transmission main. Under this arrangement, the areas served receive 100 percent well water whenever the well system was operated. This violates Bureau policies for furnishing all City customers with the same quality of water and not serving distribution areas from pump mains. The new mains are also needed to provide adequate supply to the Airport Way area. The project has two phases. Phase 1, which is complete, consists of constructing (1) 7,800 feet of 36-inch main from the N.E. Supply Main at S.E. Taylor in 96th Avenue to S.E. Washington Street, in S.E. Washington Street to 102nd Avenue to N.E. Halsey Street, (2) 5,300 feet of 24-inch main in N.E. 102nd Avenue from N.E. Halsey Street to the Klickitat Tank at N.E. Morris Court, and (3) a new outlet from Kelly Butte Reservoir to the N.E. Supply Main consisting of 2,400 feet of 48-inch main in S.E. 101st Avenue to S.E. Division Street. Phase 2 consists of constructing (1) 11,000 feet of 30-inch main from N.E. 102nd Avenue in Halsey Street to N.E. 148th Avenue and (2) 1,400 ft of 16-inch main along NE Halsey from NE 148th to NE 153rd Street. The second phase is scheduled for FY 05-06 and 06-07. The primary benefit of the main is to provide added system capacity. A secondary benefit is to improve water quality in the Parkrose area.

Funding Sources

Revenue Bonds	4,739,661	5,000	0	0	0	0	0	0
Total Funding Sources	4,739,661	5,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	710,950	5,000	0	0	0	0	0	0
Const/Equip	4,028,711	0	0	0	0	0	0	0
Total Project Costs	4,739,661	5,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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PIPE DESIGN AND LIFE STUDY

Area: NA
Objective(s): Efficiency

Project Description

The expected life of the existing distribution mains and their reliability under environmental stress, including earthquake events, will be analyzed. The study will include recommended ways to extend the life of existing piping and the most appropriate designs for new piping that will withstand reasonably expected environmental and loading conditions during its required life. The primary benefits of the project are improved CIP project scheduling and improved efficiency in pipeline construction due to improved designs. The Transmission Pipe Condition and Life Study is a related project.

Funding Sources

Service Charges and Fees	14,024	10,000	0	0	0	0	0	0
Total Funding Sources	14,024	10,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	14,024	10,000	0	0	0	0	0	0
Total Project Costs	14,024	10,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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PROJECT MANAGEMENT SYSTEM

Area: NA
Objective(s): Efficiency

Project Description

This project will fund research, selection, and acquisition of a new computerized project management system to be used by the Bureau's project managers. Progress to date includes formalizing a generic five-phase project schedule, compiling all CIP projects within the Primavera scheduling software for Bureau distribution, and developing "as is" and "should be" process maps for engineering services. The CIP Project Management System is now ready for software development. The system is expected to be of primary benefit for CIP projects, but will have Bureau-wide applications. The primary benefits of the project are increased efficiency and effectiveness in project management. Ongoing operations and maintenance costs for the new system are expected to be offset by savings resulting from more efficient project management.

Funding Sources

Revenue Bonds	0	0	100,000	0	0	0	0	100,000
Service Charges and Fees	68,332	100,000	75,000	0	0	0	0	75,000
Total Funding Sources	68,332	100,000	175,000	0	0	0	0	175,000

Project Costs

Design/ProjMgmt	68,332	100,000	126,000	0	0	0	0	126,000
Const/Equip	0	0	49,000	0	0	0	0	49,000
Total Project Costs	68,332	100,000	175,000	0	0	0	0	175,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

PUMP AND CONTROL MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

The Bureau operates and maintains more than 30 pump stations. This project ensures continued reliable and efficient operation of the Bureau's pump stations by providing for pump and motor repairs and replacements, pump station piping modifications, and electrical system improvements. Potential activities are identified and prioritized annually. This project also provides for emergency repair and replacement of pumps, motors, and other station equipment. Significant activities completed under this project in the last 10 years include: (1) replacing or rebuilding some or all of the pumps, motors, and/or motor controllers at Burnside Pump Station, Barbur Gibbs Pump Station, Clatsop High Pump Station, Fulton Pump Station, Greenleaf Pump Station, Linnton Pump Station, Portland Heights Pump Station, Sam Jackson Pump Station, SE 112th Avenue Pump Station, SE 162nd Avenue Pump Station, Stephenson Pump Station, Tenino Court Pump Station, Verde Vista Pump Station, and Washington Park Pump Stations 2 and 3, and (2) modifying piping and valving at Carolina Pump Station, Marquam Hill Pump Station 2, and Rocky Butte Tank. Additional funding in FY 00-01 is for piping modifications at Taylors Ferry Pump Station.

Funding Sources

Revenue Bonds	0	125,000	200,000	125,000	125,000	125,000	125,000	700,000
Total Funding Sources	0	125,000	200,000	125,000	125,000	125,000	125,000	700,000

Project Costs

Design/ProjMgmt	0	5,000	57,000	5,000	5,000	5,000	5,000	77,000
Const/Equip	0	120,000	143,000	120,000	120,000	120,000	120,000	623,000
Total Project Costs	0	125,000	200,000	125,000	125,000	125,000	125,000	700,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

RETAIL/WHOLESALE FINANCIAL PLANNING MODEL

Area: NA
Objective(s): Efficiency

Project Description

The Bureau's finance section maintains and operates a complex cost-of-service utility rate setting and financial forecasting spreadsheet model. The current model has been in place since the late 1980s and it is the primary tool used to set wholesale as well as retail water rates. One important feature of this model is that it provides a customized allocation of costs between retail and wholesale customers based on the current 25-year wholesale contract's pricing provisions. With these 25-year wholesale agreements scheduled to expire beginning in 2005, contract renewal discussion have already begun. Based on these preliminary meetings, it is clear that a new model will need to be constructed, potentially as early as 2002. This project provides for development of that model, to be built in conjunction with the final phase of the wholesale contract renewal process, supporting the negotiations themselves, as well as performing the anticipated complex pricing computations required by the next set of wholesale contracts.

Funding Sources

Service Charges and Fees	0	0	0	250,000	0	0	0	250,000
Total Funding Sources	0	0	0	250,000	0	0	0	250,000

Project Costs

Planning	0	0	0	250,000	0	0	0	250,000
Total Project Costs	0	0	0	250,000	0	0	0	250,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

RIVERGATE INTERTIE

Area: NA
Objective(s): Expansion

Project Description

This project provides for installing two mains that will complete a pair of loops in the Rivergate Industrial area. To date, 600 feet of main has been installed in N. Burgard Road. Approximately 900 feet of 16-inch main will be installed on the proposed overpass structure in N. Lombard Street, and 600 feet of 12-inch main will be installed in N. Columbia Boulevard from N. Burgard Road to the proposed overpass structure; 3,500 feet of 16-inch main will be installed in N. Burgard Road (Project No. 1998-5383) and an additional 230 feet will be installed in N. Sever Court from N. Burgard Road to the existing 8-inch main. This project is to be coordinated with the Bureau of Transportation's design of the Rivergate-Burgard Railroad crossing. Because this crossing is currently in the design stage, the timing of the Rivergate Intertie Project will be imperative.

Funding Sources

Revenue Bonds	0	0	25,000	200,000	0	0	30,000	255,000
Total Funding Sources	0	0	25,000	200,000	0	0	30,000	255,000

Project Costs

Design/ProjMgmt	0	0	25,000	20,000	0	0	30,000	75,000
Const/Equip	0	0	0	180,000	0	0	0	180,000
Total Project Costs	0	0	25,000	200,000	0	0	30,000	255,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

ROCKY BUTTE FIRE PROTECTION

Area: NE
Objective(s): Expansion

Project Description

The area supplied by the Rocky Butte Pump Station has substandard fire flow capacity. A study has been completed that identified alternatives for providing fire protection to the area. Primary benefit of the project is improved public safety provided by improved fire flow capacity to serve this fast growing neighborhood. The project is listed as an expansion benefit because further development in the area cannot occur without resolving the substandard fire flow capacity. The Bureau is investigating a local improvement district (LID) as a possible funding source. The budget assumes reimbursement through the LID.

Funding Sources

LID	0	5,000	50,000	600,000	0	0	0	650,000
Revenue Bonds	53,635	0	0	0	0	0	0	0
Total Funding Sources	53,635	5,000	50,000	600,000	0	0	0	650,000

Project Costs

Planning	53,635	5,000	0	0	0	0	0	0
Design/ProjMgmt	0	0	50,000	50,000	0	0	0	100,000
Const/Equip	0	0	0	550,000	0	0	0	550,000
Total Project Costs	53,635	5,000	50,000	600,000	0	0	0	650,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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SAM JACKSON TANK #1

Area: NA
Objective(s): Replacement

Project Description

This project provides for the repair or replacement of Sam Jackson Tank No. 1. The tank is considered to be structurally unsafe due to corrosion of the reinforcement steel, a result of the original construction methods. The tank has been out of service since a structural study was completed several years ago. The impetus for this project includes increasing development and associated water demands and combined storage needs on the west side. Major customers include the Oregon Health Sciences University and Veterans' Hospital complexes.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
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Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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SCHOLLS FERRY ROAD SUPPLY MAIN

Area: SW
Objective(s): Expansion

Project Description

The project will provide fire flows to the area of SW Scholls Ferry Road and SW Hamilton Street. This main will supply additional needed water supply to the area east of SW Scholls Ferry Road on SW Hamilton Street from the 12-inch main in SW Beaverton-Hillsdale Highway. The main will loop the distribution system and will increase reliability. Design of this main is scheduled for FY 00-01, with construction in FY 01-02.

Funding Sources

Revenue Bonds	0	0	0	10,000	350,000	0	0	360,000
Total Funding Sources	0	0	0	10,000	350,000	0	0	360,000

Project Costs

Planning	0	0	0	1,000	0	0	0	1,000
Design/ProjMgmt	0	0	0	9,000	5,000	0	0	14,000
Const/Equip	0	0	0	0	345,000	0	0	345,000
Total Project Costs	0	0	0	10,000	350,000	0	0	360,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

SE FOSTER ROAD SUPPLY MAIN

Area: NA
Objective(s): Replacement

Project Description

The goal of this project is to improve supply in the Gilbert distribution system and provide a secondary supply to the S.E. 112th Avenue and Tenino Court Pump Stations. A total of 2,000 feet of 16-inch main will be installed in S.E. Foster Road from S.E. 122nd Avenue to S.E. 115th Avenue. Also included in the project is the construction of a regulator station. The primary benefit of this project is improved system reliability. A related project is the Gilbert-Clatsop Supply Main, which the S.E. Foster Road Main will supply. The impetus and timing for this project is contingent on the Bureau's merger with the Powell Valley Road Water District.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	30,000	30,000
Total Funding Sources	0	0	0	0	0	0	30,000	30,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	30,000	30,000
Total Project Costs	0	0	0	0	0	0	30,000	30,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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SE HAROLD STREET MAIN

Area: NA
Objective(s): Replacement

Project Description

The purpose of this project is to help bring the Gilbert area distribution system up to Bureau standards by providing a central backbone in the water system for that area. The project consists of installing 9,700 feet of 12-inch main in S.E. Harold Street from S.E. 136th Avenue to S.E. 103rd Avenue and in S.E. 136th Avenue from S.E. Harold Street to S.E. Raymond Street. The primary benefit of the project is improved service by the water system resulting from replacement of undersized piping and an increase in fire protection capacity.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Planning	0	0	0	0	0	0	0	0
Total Project Costs	0	0	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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SE STARK STREET MAIN

Area: NA
Objective(s): Replacement

Project Description

An adequate supply and distribution reinforcement is needed to meet peak demands in the Hazelwood and Rockwood areas. These areas were annexed into the Bureau's system and do not meet its standards for pipe sizing necessary to maintain quality service. The project consists of installing 10,150 feet of 12-inch main in S.E. Stark from S.E. 102nd Avenue to 127th Avenue. The new 12-inch main will be connected to an existing 12-inch main in S.E. Stark Street from S.E. 127th Avenue to S.E. 135th Avenue.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Planning	0	0	0	0	0	0	0	0
Total Project Costs	0	0	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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	Revised		Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

SPRINGVILLE PUMP MAIN REPLACEMENT

Area: NW
Objective(s): Replacement

Project Description

The Springville Pump Station delivers water to the Willalatin Tank and its Skyline service area via a pump main that runs through Forest Park. The existing pump main is too small to serve increasing demand in the service area. This project replaces the existing main with a larger main that can withstand the necessary flow and pressure needed to fulfill service demands.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

STANDARDS FOR FACILITY DESIGN

Area: NA
Objective(s): Efficiency

Project Description

This project provides for revisions in the engineering standards used to design Portland water system facilities. Currently the Bureau uses general city standards in developing projects. Through this project, the Bureau will identify those standards specific to the Bureau's projects and develop an in-house reference for those standards. Specific standards will address pipeline sizing, distribution network grids, storage tanks, pumping, site design, and pressure regulation. By identifying specific standards for Bureau projects, the Bureau will be able to increase design efficiency and consistency in the application of standards. The primary benefit of the project is more efficient water system design and, consequently, a more efficient water system.

Funding Sources

Service Charges and Fees	22,571	15,000	0	15,000	20,000	0	0	35,000
Total Funding Sources	22,571	15,000	0	15,000	20,000	0	0	35,000

Project Costs

Design/ProjMgmt	22,571	15,000	0	15,000	20,000	0	0	35,000
Total Project Costs	22,571	15,000	0	15,000	20,000	0	0	35,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

STEPHENSON PUMP STATION AND TANK IMPROVEMENTS

Area: SW
Objective(s): Replacement

Project Description

The Stephenson Pump Station and Tanks were acquired through annexation of the Capitol Highway Water District. The elevation of the pump station in relation to the tanks does not create sufficient suction pressure for reliable pump operation. The pumps frequently lose suction and will not operate without an operator driving to the site and re-priming the pumps. In addition, there is not sufficient flow for fire protection in the area served by the tank. During FY 99-00, the Bureau identified several alternatives to alleviate the suction pressure problem. Design of the new pump station will occur in FY 99-00 and FY 00-01, followed by construction in FY 01-02. The project will also provide for the design and construction of a 1-million-gallon reservoir at the existing Stephenson Reservoir site. This reservoir is needed to provide adequate storage to meet growing demands on the Stephenson distribution system, and is expected to be designed and constructed in FY 07-08. The new reservoir will replace one or two of the smaller reservoirs on the site.

Funding Sources

Revenue Bonds	50,438	100,000	60,000	445,000	0	0	0	505,000
Total Funding Sources	50,438	100,000	60,000	445,000	0	0	0	505,000

Project Costs

Design/ProjMgmt	50,438	100,000	45,000	45,000	0	0	0	90,000
Const/Equip	0	0	15,000	400,000	0	0	0	415,000
Total Project Costs	50,438	100,000	60,000	445,000	0	0	0	505,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	(1,000)	(1,000)	(2,000)

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted		Capital Plan				
	Prior Years	FY 1999–00	FY 2000–01	FY 2001–02	FY 2002–03	FY 2003–04	FY 2004–05	5–Year Total	
SW LANCASTER ROAD MAIN									
								Area:	SW
								Objective(s):	Expansion
Project Description									
To improve the current water supply and meet future needs in southwest Portland, approximately 7,800 feet of 12-inch main will be installed from the intersection of S.W. Lancaster Road and S.W. Broadleaf Drive to 7,800 feet south of S.W. Broadleaf Drive (11604 S.W. Lancaster Road). This improvement will reduce energy required for pumping and eliminate the need for additional storage facilities to serve the Arnold system until at least 2005. The construction schedule will be based on the needs of development in the area. Benefits of the project include improved system supply and distribution.									
Funding Sources									
Revenue Bonds	0	0	0	0	10,000	0	671,000	681,000	
Total Funding Sources	0	0	0	0	10,000	0	671,000	681,000	
Project Costs									
Planning	0	0	0	0	10,000	0	671,000	681,000	
Total Project Costs	0	0	0	0	10,000	0	671,000	681,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
SYSTEM METERING									
								Area:	NA
								Objective(s):	Efficiency
Project Description									
Efficient water system operation and effective system planning require reliable flow, pressure, and tank-level data. The Bureau has an existing network of flow, pressure, and tank level sensors at facilities throughout the City. The Water Control Center uses the existing metering network to monitor and operate the system. Data gathered by the Water Control Center are stored for system analysis and planning purposes. This ongoing project: (1) improves the accuracy and reliability of the water-system data through design and implementation of a regular calibration program for all sensors and (2) enhances the metering network by adding flow and pressure sensors at critical locations to provide staff with an understanding of system hydraulics. Potential sites for new sensors will be selected to address system operation, planning, network analysis, and water loss concerns.									
Funding Sources									
Revenue Bonds	0	49,000	27,000	27,000	27,000	27,000	27,000	135,000	
Total Funding Sources	0	49,000	27,000	27,000	27,000	27,000	27,000	135,000	
Project Costs									
Design/ProjMgmt	0	6,000	6,000	6,000	6,000	6,000	6,000	30,000	
Const/Equip	0	43,000	21,000	21,000	21,000	21,000	21,000	105,000	
Total Project Costs	0	49,000	27,000	27,000	27,000	27,000	27,000	135,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
TANK IMPROVEMENTS									
								Area:	NA
								Objective(s):	Repair/Maint
Project Description									
The purpose of this project is to provide capital improvements at several Water Bureau water storage tanks. The project will improve water quality and reliability of tanks. Tanks that are seismically unstable, undersized, or that have corrosion damage will be replaced.									
Funding Sources									
Revenue Bonds	260,575	328,000	1,000,000	100,000	40,000	40,000	40,000	1,220,000	
Total Funding Sources	260,575	328,000	1,000,000	100,000	40,000	40,000	40,000	1,220,000	
Project Costs									
Design/ProjMgmt	39,086	128,000	100,000	50,000	40,000	40,000	40,000	270,000	
Site Acquisition	0	0	0	0	0	0	0	0	
Const/Equip	221,489	200,000	900,000	50,000	0	0	0	950,000	
Total Project Costs	260,575	328,000	1,000,000	100,000	40,000	40,000	40,000	1,220,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

TANK OVERFLOW

Area: NA
Objective(s): Replacement

Project Description

Inadequately sized water storage tank overflow systems or improper overflow destinations could result in property damage, violate Oregon Health Division and federal NPDES standards, or violate discharge permit requirements, leaving the Bureau open to civil or regulatory action. In FY 99-00, an NPDES permit will be developed for more than 20 storage tanks owned by the Bureau. Storage tanks also will be analyzed to develop a ranked list of overflow system improvements for construction. Project specific design and construction will begin in FY 00-01 and proceed according to the list of priorities developed in the analysis.

Funding Sources

Revenue Bonds	0	20,000	100,000	100,000	100,000	100,000	100,000	500,000
Total Funding Sources	0	20,000	100,000	100,000	100,000	100,000	100,000	500,000

Project Costs

Planning	0	0	0	0	0	0	0	0
Design/ProjMgmt	0	20,000	20,000	20,000	20,000	20,000	20,000	100,000
Const/Equip	0	0	80,000	80,000	80,000	80,000	80,000	400,000
Total Project Costs	0	20,000	100,000	100,000	100,000	100,000	100,000	500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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TANNER CREEK DIVERSION

Area: NW
Objective(s): Repair/Maint

Project Description

This project includes modifications to the water system along the alignment for the proposed Tanner Creek Diversion Sewer project, along NW 17th Avenue from NW Johnson Street to NW Couch Street and along NW/SW 16th and 17th Avenues from NW Couch Street to SW Jefferson Street. This project will be done in conjunction with modifications required by the sewer construction. The benefits of this project are minimizing potential main breaks and associated service disruptions, as well as minimizing water damage during sewer construction activities and water damage claims from affected property owners. Relocations required for the new sewer will be reimbursed to the Bureau.

Funding Sources

Revenue Bonds	17,620	120,000	40,000	0	0	0	0	40,000
Bureau Revenues	0	180,000	60,000	0	0	0	0	60,000
Total Funding Sources	17,620	300,000	100,000	0	0	0	0	100,000

Project Costs

Planning	17,620	0	0	0	0	0	0	0
Design/ProjMgmt	0	200,000	20,000	0	0	0	0	20,000
Const/Equip	0	100,000	80,000	0	0	0	0	80,000
Total Project Costs	17,620	300,000	100,000	0	0	0	0	100,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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WATER CONTROL CENTER MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

The Bureau's Supervisory Control and Data Acquisition (SCADA) system uses a network of Remote Telemetry Units (RTUs) installed at pump stations, tanks, valves, and other sites throughout the City. A system of telephone and radio links transmit data between the RTUs and the central computer system at the Water Control Center. This ongoing project provides for capital maintenance of the telemetry sites and the SCADA system. There was a large expenditure in FY 97-98 to upgrade and replace the central control system at the Water Control Center. Final implementation will occur in FY 98-99. The project will have ongoing upgrade costs. The primary benefit of the project is system maintenance.

Funding Sources

Revenue Bonds	0	240,000	80,000	0	0	0	85,000	165,000
Total Funding Sources	0	240,000	80,000	0	0	0	85,000	165,000

Project Costs

Design/ProjMgmt	0	60,000	50,000	0	0	0	85,000	135,000
Const/Equip	0	180,000	30,000	0	0	0	0	30,000
Total Project Costs	0	240,000	80,000	0	0	0	85,000	165,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	10,000	10,000	10,000	10,000	40,000
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

WATER LOSS REDUCTION

Area: NA
Objective(s): Efficiency

Project Description

This project continues the Bureau's efforts to identify, quantify, and reduce water losses within the distribution system. The Bureau recently hired two full-time employees to conduct leak detection surveys of the distribution system. The goal is to complete a full system survey every 5 years. The bureau also purchased a correlator and two sets of leak noise data loggers to more accurately identify leaks. Staff were trained to use the new equipment in September 1999. In addition to being used for the system wide survey, leak noise loggers will be used at the facilities of large water customers to help determine if leaks are present. The correlator also can interface directly with the Bureau's GIS system, providing geographically distributed data on leak density. The data are then analyzed and used to prioritize system maintenance activities. During FY 00-01 the Bureau will continue to install strategically located system meters to improve our ability to quantify flows to various geographic areas. As part of this continuing project, analysis techniques will be developed to electronically compare customer billing data from the new Customer Information System (CIS) system within a defined geographic area to Supervisory Control & Data Acquisition (SCADA) system flows into that area. This information will be used to focus leak detection efforts on areas that appear to have higher than average leakage rates.

Funding Sources

Service Charges and Fees	0	25,000	100,000	100,000	0	0	0	200,000
Total Funding Sources	0	25,000	100,000	100,000	0	0	0	200,000

Project Costs

Design/ProjMgmt	0	5,000	80,000	80,000	0	0	0	160,000
Const/Equip	0	20,000	20,000	20,000	0	0	0	40,000
Total Project Costs	0	25,000	100,000	100,000	0	0	0	200,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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WEST HAYDEN ISLAND SUPPLY MAIN

Area: N
Objective(s): Expansion

Project Description

This project provides for the construction of a third water supply crossing the Columbia Slough to Hayden Island. Existing water supplies exist on the east side of the island, but are unable to provide sufficient fire flows to the developing west side of the island. The major physical components of this project will include a supply main and a regulator. It is expected that the supply main will be 16 inches in diameter and will be supplied from the proposed 24-inch main in N. Carey Boulevard. Construction scheduling will depend on the development of West Hayden Island. Construction of the supply main may also depend on construction of a second access bridge; however, directional drilling may also be an option. The Port of Portland expects to have the bridge constructed by 2007. Environmental concerns associated with crossing the Columbia Slough may be an important consideration for this project. Other related projects include the ongoing abandonment of existing tanks and pumps on the island. The primary benefit of this project is providing adequate fire flow to this developing area.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
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Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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WESTSIDE MAINT. OPERATIONS STUDY & FACILITY

Area: SW
Objective(s): Efficiency

Project Description

This project evaluates location and design options for a satellite operations and maintenance facility with emergency operations capabilities on the west side of the Willamette River. Property acquisition, design, and construction of the facility will follow. The primary benefit of the proposed facility is improved system reliability during emergency operations, improved security of Bureau records due to copy storage at this secure site, and improved efficiency of the Bureau's normal maintenance work on the west side of the Willamette. The project is anticipated to lower the Bureau's on-going maintenance costs. These costs will be defined as part of the project's initial feasibility study in FY 01-02.

Funding Sources

Revenue Bonds	1,900	5,000	0	50,000	650,000	0	0	700,000
Total Funding Sources	1,900	5,000	0	50,000	650,000	0	0	700,000

Project Costs

Planning	1,900	5,000	0	0	0	0	0	0
Design/ProjMgmt	0	0	0	50,000	50,000	0	0	100,000
Const/Equip	0	0	0	0	600,000	0	0	600,000
Total Project Costs	1,900	5,000	0	50,000	650,000	0	0	700,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

WILLAMETTE HEIGHTS TANK ANALYSIS

Area: N/A
Objective(s): Repair/Maint

Project Description

Willamette Heights Tank, a small tank locate in Forest Park, serves a small area in northwest Portland that has a single source of supply. The tank is the only back-up source of water to supply the area. It cannot be reached by vehicle, nor can it be adequately maintained. The first phase of this project is a study to identify potential solutions to the problem, evaluate them, and recommend an alternative for disposition of this tank. The study will be followed by the design and construction of the selected solution. Alternatives may include purchase of a new, more accessible location for this small tank.

Funding Sources

Revenue Bonds	0	0	0	0	0	95,000	350,000	445,000
Service Charges and Fees	0	0	0	0	70,000	0	0	70,000
Total Funding Sources	0	0	0	0	70,000	95,000	350,000	515,000

Project Costs

Planning	0	0	0	0	10,000	0	0	10,000
Design/ProjMgmt	0	0	0	0	60,000	75,000	50,000	185,000
Site Acquisition	0	0	0	0	0	20,000	0	20,000
Const/Equip	0	0	0	0	0	0	300,000	300,000
Total Project Costs	0	0	0	0	70,000	95,000	350,000	515,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Supply

AIRPORT WAY/PARKROSE MAIN

Area: NE
Objective(s): Replacement

Project Description

This project provides for construction of a new discharge pipe connection from Parkrose Wells 2 and 3 to the Groundwater Collection Main in Airport Way at N.E. 122nd Avenue. The project will allow water from the Parkrose 2 and 3 wells to be pumped to the Groundwater Pump Station, where it can be blended and disinfected before it is served to customers. This will prevent customers served by the existing discharge line from being completely dependent on groundwater when these wells are operating. Primary project benefits are improved public health, employee safety, and consistent treatment.

Funding Sources

Revenue Bonds	558,482	172,000	0	0	0	0	0	0
Total Funding Sources	558,482	172,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	83,772	12,000	0	0	0	0	0	0
Const/Equip	474,710	160,000	0	0	0	0	0	0
Total Project Costs	558,482	172,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

BULL RUN BRIDGE MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for a bridge inspection, repair, and maintenance program for the major conduit bridges in the Bull Run area between Headworks and Gresham. Also included are approximately 20 minor conduit bridge spans in the Bull Run Watershed and the City of Portland's right-of-way through Gresham. Funding also provides for consulting services for structural evaluation, design, and related construction services for necessary improvements, including seismic strengthening, to the six major conduit and roadway bridges in the Bull Run area. Headworks Pipe Bridge, Headworks Road Bridge and Bowman's Bridge were strengthened and painted in FY 99-00. The current plan is to upgrade Larson's Bridge in FY 00-01. One of the pipeline bridges crossing the Sandy River will also be upgraded after a decision is made on which crossing to put in a tunnel under the Sandy River. The primary benefit of these improvements is maintenance of the water system and vulnerability reduction.

Funding Sources

Revenue Bonds	0	1,549,000	700,000	700,000	0	0	0	1,400,000
Total Funding Sources	0	1,549,000	700,000	700,000	0	0	0	1,400,000

Project Costs

Design/ProjMgmt	0	249,500	177,200	177,200	0	0	0	354,400
Const/Equip	0	1,299,500	522,800	522,800	0	0	0	1,045,600
Total Project Costs	0	1,549,000	700,000	700,000	0	0	0	1,400,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

BULL RUN FISHERIES

Area: NA
Objective(s): Repair/Maint

Project Description

Operation of the Bull Run water system affects fish that are on the federal Endangered Species Act (ESA) list. To meet our regulatory obligations, the Bureau has adopted a multi-year approach that will eventually culminate in a regulatory compliance plan. The first phase of the project strategy is Technical Investigations. During FY 99-00, the Bureau will determine where the fish are, what they need, and how Bureau operations are affecting fishery resources. The first phase will involve significant consultant services for technical investigations. The second phase, Negotiations, will use the information developed during the Technical Investigations as the basis for negotiations with the Bureau's Sandy River Basin Agreement partners. The Bureau will then begin framing a possible specific compliance strategy. Most of the funding for this phase will be used for strategic planning and focused technical studies by outside consultants to fill data gaps. The Negotiation phase should run from FY 00-01 to FY 01-02. The third phase, which is the Procedural phase, will focus on finalizing the regulatory compliance plan. The public involvement effort will be increased during the third phase and an Environmental Impact Statement will be prepared. The Procedural phase should be completed in FY 02-03. After the regulatory compliance plan is completed, the Bureau will implement and fund its fishery enhancement commitments and monitoring efforts. Additional funding is included in the base budget, and will be used for such activities as agency negotiations.

Funding Sources

Service Charges and Fees	611,806	375,000	0	0	0	0	0	0
Total Funding Sources	611,806	375,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	611,806	375,000	0	0	0	0	0	0
Total Project Costs	611,806	375,000	0	0	0	0	0	0

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

BULL RUN LAKE CABINS

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for renovation and maintenance of the Bureau-owned buildings at Bull Run Lake, which are used to store electronic monitoring equipment. These buildings, which also have historic and aesthetic value, have deteriorated. The project will be completed over a period of 3 years. Tasks to be accomplished in the first two years include evaluating the condition of the existing buildings, identifying needed renovations, and obtaining the necessary permits. Construction funding is included in the third year, FY 01-02. The primary benefit of the project is maintaining the usefulness of these Bureau assets and preserving their public education value.

Funding Sources

Revenue Bonds	0	40,000	40,000	110,000	0	0	0	150,000
Total Funding Sources	0	40,000	40,000	110,000	0	0	0	150,000

Project Costs

Design/ProjMgmt	0	40,000	40,000	20,000	0	0	0	60,000
Const/Equip	0	0	0	90,000	0	0	0	90,000
Total Project Costs	0	40,000	40,000	110,000	0	0	0	150,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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BULL RUN LAKE MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

This project funds maintenance of all man-made structures at Bull Run Lake. The lake outlet works were reconstructed to mitigate for water temperature in Summer 1996. The access road, spillway, and dike were reconstructed in Summer 1998. Upcoming work includes repairs to the outlet dam structures, improvements to better enable pumping for releases below the outlet level, replacement of flow measurement devices, and assessment and improvements to reduce seepage from the lake. The Bull Run Lake Mitigation project is associated with other projects addressing habitat mitigation measures required for releases from the lake. The primary benefit of the project is system maintenance.

Funding Sources

Revenue Bonds	0	50,000	50,000	50,000	50,000	50,000	50,000	250,000
Total Funding Sources	0	50,000	50,000	50,000	50,000	50,000	50,000	250,000

Project Costs

Design/ProjMgmt	0	50,000	10,000	10,000	10,000	10,000	10,000	50,000
Const/Equip	0	0	40,000	40,000	40,000	40,000	40,000	200,000
Total Project Costs	0	50,000	50,000	50,000	50,000	50,000	50,000	250,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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BULL RUN LAKE MITIGATION

Area: NA
Objective(s): Repair/Maint

Project Description

The Bull Run Lake special-use authorization from the U.S. Forest Service requires a variety of habitat mitigation projects, some in advance of future water releases and others subsequent to each release. Mitigation measures included in this project are planting vegetation, installing fish cover structures, modifying the existing boat ramp, and improving fish passage into the tributaries. Project costs will be ongoing through 2016. Magnitude will vary depending on frequency of lake use for water supply. The benefits of the project include the enhancement of natural resources for fish and wildlife in addition to meeting the regulatory requirements associated with using water from the lake.

Funding Sources

Revenue Bonds	0	193,000	40,000	40,000	40,000	40,000	40,000	200,000
Total Funding Sources	0	193,000	40,000	40,000	40,000	40,000	40,000	200,000

Project Costs

Design/ProjMgmt	0	123,000	30,000	30,000	30,000	30,000	30,000	150,000
Const/Equip	0	70,000	10,000	10,000	10,000	10,000	10,000	50,000
Total Project Costs	0	193,000	40,000	40,000	40,000	40,000	40,000	200,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

BULL RUN LAKE STUDY

Area: NA
Objective(s): Repair/Maint

Project Description

This project comprises a geologic, geotechnical, and hydrologic study of Bull Run Lake. The purpose of the study is to determine the stability of the natural dam that forms Bull Run Lake and to investigate the feasibility of determining possible sources and quantities of reservoir leakage and mitigating leakage problems to allow more effective water storage at Bull Run Lake. Methods to reduce leakage from various sources will be investigated and, if feasible, leakage will be reduced to improve the lake's storage reliability and recovery after drawdowns. Funding for improvements to reduce leakage from Bull Run Lake is not included in this project; however, this project may lead to construction that will allow Bull Run Lake to become an annually renewable storage area and increase summer storage capacity in the watershed. The primary benefit of this project is to improve system maintenance. Secondary benefits are additional water supply and environmental enhancement due to more stable lake levels.

Funding Sources

Service Charges and Fees	0	0	0	0	0	0	83,000	83,000
Total Funding Sources	0	0	0	0	0	0	83,000	83,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	83,000	83,000
Total Project Costs	0	0	0	0	0	0	83,000	83,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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BULL RUN OPTIMIZATION STUDY

Area:

Project Description

This project would fund development of a constrained optimization model linked to the river-reservoir system flow and water quality model (CE-QUAL-W2) to allow the Bureau to assess preferred reservoir operation schemes to meet instream, in-reservoir, and distribution system temperature, and other water quality requirements and goals. Creation and use of the optimization model, together with the CE-QUAL-W2 model is expected to lead to the development of operating rules for the reservoir system. The CE-QUAL-W2 model is a two-dimensional flow and water quality model that simulates the movement of water through reservoirs and rivers. The model can explicitly represent Reservoir 1 and 2, the Bull Run River, and Reservoir 3 as well. With the addition of selective withdrawal in Reservoir 2, the Bureau will have additional flexibility to manipulate flows and temperatures in each of its two reservoirs.

Funding Sources

Service Charges and Fees	0	0	100,000	100,000	0	0	0	200,000
Total Funding Sources	0	0	100,000	100,000	0	0	0	200,000

Project Costs

Design/ProjMgmt	0	0	100,000	100,000	0	0	0	200,000
Total Project Costs	0	0	100,000	100,000	0	0	0	200,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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BURLINGAME/WCSL & WESTWOOD INTERTIE

Area: SW
Objective(s): Mandated

Project Description

This project improves the connection between the Westwood tank and the Burlingame tanks and adds an intertie to the Washington County Supply Line (WCSL) to improve controls and reliability. Preliminary engineering report for the pump station, regulator vault, 24-inch main, and intertie will occur in FY 99-00. Funding for FY 03-04 will provide for the design, and land acquisition for the pump station, regulator vault, 24-inch main, and intertie, as well as initiation of construction, which will continue through FY 04-05. Secondary benefits of this project include providing a means for the Water Bureau to obtain water from the Joint Water Commission's supply system during emergencies and becoming a supplemental and back-up supply to the Washington County Supply Main.

Funding Sources

Revenue Bonds	25,034	190,100	0	0	100,000	780,000	650,000	1,530,000
Total Funding Sources	25,034	190,100	0	0	100,000	780,000	650,000	1,530,000

Project Costs

Planning	2,409	0	0	0	100,000	0	0	100,000
Design/ProjMgmt	22,625	140,100	0	0	0	130,000	110,000	240,000
Site Acquisition	0	50,000	0	0	0	0	50,000	50,000
Const/Equip	0	0	0	0	0	650,000	490,000	1,140,000
Total Project Costs	25,034	190,100	0	0	100,000	780,000	650,000	1,530,000

Fund Level Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CONDUIT 5 AT POWELL BUTTE

Area: SE
Objective(s): Expansion

Project Description

This project will fund construction of a phase of Conduit 5 from a new intertie to the existing Conduits 2, 3, and 4 in Gresham to a connection to the existing 50-million-gallon reservoir on Powell Butte. The project may also consider the need for a pump station and related piping on Powell Butte to further enhance transmission system capacity. The project is identified in the preliminary findings of the Water Bureau's Infrastructure Master Plan and will be used to provide an additional 20 to 25 mgd of transmission capacity from the Bull Run Watershed. Planning for Conduit 5 included the Conduit 5 Preliminary Design and Powell Butte Master Plan projects.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	500,000	500,000
Total Funding Sources	0	0	0	0	0	0	500,000	500,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	500,000	500,000
Total Project Costs	0	0	0	0	0	0	500,000	500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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CONDUIT 5 PRELIMINARY DESIGN

Area: NA
Objective(s): Replacement

Project Description

This project provides for review and updating of the 1974 preliminary design of Conduit 5. Pipe sizes and configurations, alignments, right-of-way needs, environmental and land use permitting and identification of construction constraints, as well as costs and construction timelines, will be confirmed. Review of the remaining useful life and/or possible additional needs associated with Conduits 2, 3, and 4, and the date by which Conduit 5 will be required to replace an existing conduit will also be determined. Using this information, the Bureau will obtain rights-of-way and reserve adequate space in existing streets for the new conduits. Construction of Conduit 5 will then be scheduled and budgeted as found appropriate by this study.

Funding Sources

Revenue Bonds	8,608	300,000	300,000	250,000	0	0	0	550,000
Total Funding Sources	8,608	300,000	300,000	250,000	0	0	0	550,000

Project Costs

Design/ProjMgmt	8,608	300,000	300,000	250,000	0	0	0	550,000
Total Project Costs	8,608	300,000	300,000	250,000	0	0	0	550,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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CONDUIT 5 RIGHT-OF-WAY

Area: NA
Objective(s): Repair/Maint

Project Description

This ongoing project provides for work required to survey, map, obtain, and record easements and provide unencumbered Bureau rights along the 23-mile future route of Conduit 5. Most of the pipeline route right-of-way has already been purchased. The primary purpose of the project is to maintain the Bureau's rights over the many easements required, which will continue even after Conduit 5 is constructed. The route of Conduit 5 is currently under review as part of the Conduit 5 Preliminary Design Study. Additional funding has been provided for this project in FY 00-01 through FY 01-02 to purchase easements and rights-of-way that will be required as a result of revisions in the conduit route recommended as part of the Preliminary Design Study.

Funding Sources

Revenue Bonds	29,750	160,000	20,000	100,000	10,000	10,000	10,000	150,000
Total Funding Sources	29,750	160,000	20,000	100,000	10,000	10,000	10,000	150,000

Project Costs

Design/ProjMgmt	29,750	10,000	15,000	15,000	10,000	10,000	10,000	60,000
Site Acquisition	0	150,000	5,000	85,000	0	0	0	90,000
Total Project Costs	29,750	160,000	20,000	100,000	10,000	10,000	10,000	150,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999–00	FY 2000–01	FY 2001–02	FY 2002–03	FY 2003–04	FY 2004–05	

CONDUIT CATHODIC PROTECTION

Area: NA
Objective(s): Efficiency

Project Description

The Bureau owns three large-diameter steel pipelines that carry water from the Bull Run River to the City's main storage reservoirs on Powell Butte and Mt. Tabor. The pipelines are protected from exterior corrosion by cathodic protection systems installed in the 1980s at locations that the City had identified as being those areas where the pipelines were most susceptible to corrosion from the soil. This project would allow the Bureau to renew the existing cathodic protection systems and extend cathodic protection to the full length of the three Bull Run pipelines. Corrosion protection is expected to eliminate any further known deterioration of the conduit, and to correspondingly increase its useful life.

Funding Sources

Revenue Bonds	0	0	25,000	100,000	250,000	250,000	250,000	875,000
Total Funding Sources	0	0	25,000	100,000	250,000	250,000	250,000	875,000

Project Costs

Design/ProjMgmt	0	0	25,000	100,000	50,000	50,000	50,000	275,000
Const/Equip	0	0	0	0	200,000	200,000	200,000	600,000
Total Project Costs	0	0	25,000	100,000	250,000	250,000	250,000	875,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CONDUIT ISOLATION AND IMPROVEMENTS

Area: NA
Objective(s): Efficiency

Project Description

The project provides for five major interties between the three water supply conduits that carry water from the Bull Run Headworks to the Powell Butte and Mt. Tabor Reservoirs to enable sections of the conduits to be bypassed and removed from service as needed for maintenance or emergencies. In FY 95-96 and FY 96-97, the Bureau performed hydraulic, geotechnical, seismic, and structural analyses of the conduits. That study identified numerous improvements, including: the construction of interties; installation of additional air valves; and replacement of existing air valves. In FY 96-97 and FY 97-98, a consultant performed preliminary engineering studies to select final design options. Final design for two interties was completed in FY 98-99 and 99-00. Construction of selected interties is funded in stages, with the first two interties planned for construction in FY 99-00 through 02-03. The remaining interties are planned for future years, in conjunction with Conduit No. 5 or other conduit improvements. These improvements are needed to maintain and improve the integrity of the supply conduits, and allow the Bureau more flexibility during emergencies for example, to allow diversion of conduit flow around a broken section of one of the conduits.

Funding Sources

Revenue Bonds	963,127	2,300,000	3,000,000	2,500,000	2,000,000	0	0	7,500,000
Total Funding Sources	963,127	2,300,000	3,000,000	2,500,000	2,000,000	0	0	7,500,000

Project Costs

Design/ProjMgmt	770,501	300,000	300,000	250,000	200,000	0	0	750,000
Const/Equip	192,626	2,000,000	2,700,000	2,250,000	1,800,000	0	0	6,750,000
Total Project Costs	963,127	2,300,000	3,000,000	2,500,000	2,000,000	0	0	7,500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	500	500	500	500	2,000

CONDUIT MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

This project will standardize designs for and installation of DEQ/BES-approved conduit blow-off systems, including installation of manhole vaults and covers for the Bureau's buried conduit valve operators and air valves. These access points are routinely used for operations, maintenance, and inspection of buried conduits that supply water to the City from the Bull Run Watershed. Currently, when access to any of these locations is needed, the access must be excavated or shored, or both. With this project, new blow-off systems, vaults, and manhole covers for the Bureau's buried conduit valve operators and air valves would be replaced over time at all blow-off locations. The new blow-off systems would be installed according to a prioritized list, while the vaults and manhole covers would be replaced as access at these locations is made for routine maintenance or whenever the valves are uncovered. The project is expected to reduce the Bureau's costs for routine O&M of the three conduits.

Funding Sources

Revenue Bonds	0	90,000	250,000	300,000	200,000	100,000	100,000	950,000
Total Funding Sources	0	90,000	250,000	300,000	200,000	100,000	100,000	950,000

Project Costs

Design/ProjMgmt	0	10,000	40,000	30,000	20,000	20,000	20,000	130,000
Const/Equip	0	80,000	210,000	270,000	180,000	80,000	80,000	820,000
Total Project Costs	0	90,000	250,000	300,000	200,000	100,000	100,000	950,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

CONDUIT RELOCATION-SANDY RIVER

Area: NA

Objective(s): Replacement

Project Description

This project provides for relocation of the three existing water supply conduit crossings of the Sandy River near Dodge Park. Existing Conduits 2 and 4 cross the Sandy River on a pipeline bridge adjacent to the Lusted Road Highway Bridge, which is more than a century old. Existing Conduit 3 crosses on a pipeline bridge about 1/2 mile downstream. That bridge is approximately 73 years old. Both of these bridges are nearing the end of their useful lives. They were not designed to withstand the earthquake loadings required by modern building codes, volcano-generated mudflows, flooding, or other potential hazards. A feasibility study and preliminary engineering report (including data gathered from test hole borings) will form the basis for selection of a preferred alternative, which will then be designed and constructed. Cost estimates shown are based on construction of underwater crossings for only one crossing. The second crossing is planned for future years. The primary benefit of the project is maintenance of the water system. A secondary benefit is the improvement in system reliability and capacity.

Funding Sources

Revenue Bonds	688,539	1,800,000	1,000,000	4,500,000	3,400,000	0	0	8,900,000
Total Funding Sources	688,539	1,800,000	1,000,000	4,500,000	3,400,000	0	0	8,900,000
Project Costs								
Design/ProjMgmt	688,539	1,800,000	1,000,000	450,000	340,000	0	0	1,790,000
Const/Equip	0	0	0	4,050,000	3,060,000	0	0	7,110,000
Total Project Costs	688,539	1,800,000	1,000,000	4,500,000	3,400,000	0	0	8,900,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

CONDUIT VULNERABILITY REDUCTION

Area: NA

Objective(s): Repair/Maint

Project Description

This project includes predesign, design, and construction of various improvement projects to reduce the vulnerability of the water supply conduits between the Bull Run Headworks and Powell Butte. Conduits 2, 3, and 4 carry water from the headworks of Bull Run Dam 2 in the Bull Run Watershed to the city reservoirs on Mt. Tabor and Powell Butte in southeast Portland. Potential projects include landslide mitigation, bridge replacement, and seismic upgrades to existing structures. This work will provide cost-effective improvements to the conduits to increase their reliability. Specific needs and priorities will be identified as part of the System Vulnerability Assessment study that is currently in progress. This project will also assess the need for the conduit trestle crossing vulnerability reduction. Currently 22 trestles at creek and swale crossings support exposed or above-ground sections of these conduits. Earthquake, landslide, and flooding all pose hazards that threaten the stability of the trestles in these exposed sections of the conduits.

Funding Sources

Revenue Bonds	0	10,000	240,000	625,000	625,000	0	250,000	1,740,000
Total Funding Sources	0	10,000	240,000	625,000	625,000	0	250,000	1,740,000
Project Costs								
Design/ProjMgmt	0	10,000	240,000	75,000	75,000	0	250,000	640,000
Const/Equip	0	0	0	550,000	550,000	0	0	1,100,000
Total Project Costs	0	10,000	240,000	625,000	625,000	0	250,000	1,740,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

DAM 1 OUTLET WORKS

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for an engineering study of the outlet works associated with Bull Run Dam No. 1. These facilities are more than 70 years old and are critical to the safe and reliable operation of the dam. Some of the components, because of their critical positioning or function, have not been operated, refurbished, or closely inspected since they were installed. The spillway and the top of the dam will also be assessed for overtopping expected during a probable maximum flood (PMF). The study will assess the condition of the facilities, identify needed repairs and upgrades, and determine priorities and alternative methods or approaches for inspection, upgrade, and repair of the outlet and operating structures. Actual construction is budgeted in future years, and may be modified as found to be appropriate through the course of this study.

Funding Sources

Service Charges and Fees	5,087	10,000	0	0	0	0	0	0
Revenue Bonds	0	0	100,000	0	0	0	0	100,000
Total Funding Sources	5,087	10,000	100,000	0	0	0	0	100,000

Project Costs

Design/ProjMgmt	5,087	10,000	100,000	0	0	0	0	100,000
Const/Equip	0	0	0	0	0	0	0	0
Total Project Costs	5,087	10,000	100,000	0	0	0	0	100,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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DAM 2 SPILLWAY APPROACH CHANNEL REPAIR

Area: NA
Objective(s): Mandated

Project Description

The purpose of this project is to control seepage along the spillway approach canal at Bull Run Dam #2. On October 26, 1998, the Portland Water Bureau was directed by the Federal Energy Regulatory Commission (FERC) to complete construction of a remedial solution by the end of 2000. Preliminary engineering was completed in FY 98-99, and a remediation alternative was selected to seal the bank of the canal. Final design and permitting are scheduled for completion in FY 99-00, with construction scheduled to be completed in the latter half of 2000.

Funding Sources

Revenue Bonds	218,893	150,000	500,000	0	0	0	0	500,000
Total Funding Sources	218,893	150,000	500,000	0	0	0	0	500,000

Project Costs

Planning	0	0	0	0	0	0	0	0
Design/ProjMgmt	218,893	150,000	50,000	0	0	0	0	50,000
Const/Equip	0	0	450,000	0	0	0	0	450,000
Total Project Costs	218,893	150,000	500,000	0	0	0	0	500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

DAM 2 SPILLWAY RAISE

Area: NA
Objective(s): Expansion

Project Description

This project will help the Bureau meet its overall supply needs by increasing the Bull Run Dam 2 storage through raising spillway heights by either 6 or 12 feet. This additional storage will primarily be used to address both summer demand and turbidity event supply needs. Other benefits will include enhancement of fish flows to meet requirements during the summer season. Two options are under consideration: (1) a 6-foot raise (for seasonal purposes) to reservoir elevation 866, which will add 1 billion gallons of useable storage and (2) a 12-foot permanent raise to reservoir elevation 872, which will add 2 billion gallons of additional storage. To accommodate the increased maximum probable flood (PMF), the crest of the dam, the top of the upstream spalls, and the top of the core would also need to be raised. The spillway approach canal may also need to be lined. This project will address several Bureau objectives, including additional seasonal supply requirements and fish flows. Other related projects are the Dam 2 Tower Improvements and the Dam 2 Approach Canal Seepage Project. Changes to the existing dam structure will trigger several agency reviews, permit applications, and environmental studies. Additional permits and licenses may be required from USFS, FERC, EPA, DEQ, and SHPO. The early phases of the project provide for a preliminary feasibility study, engineering, and permitting. Construction is scheduled for future years, provided that the preliminary assessments indicate that the Project is needed and feasible.

Funding Sources

Revenue Bonds	0	0	200,000	500,000	200,000	0	0	900,000
Service Charges and Fees	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	200,000	500,000	200,000	0	0	900,000

Project Costs

Planning	0	0	200,000	0	0	0	0	200,000
Design/ProjMgmt	0	0	0	500,000	200,000	0	0	700,000
Total Project Costs	0	0	200,000	500,000	200,000	0	0	900,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

DAM 2 STILLING POOL

Area: NA
Objective(s): Repair/Maint

Project Description

The stilling pool below the Dam 2 spillway will be deepened as necessary to allow large flood flows to pass the dam spillway without disrupting the City's pipelines from the Bull Run Headworks, located north of the spillway. The pipelines were washed out by flood water in 1964. Studies following those floods included recommendations to allow large flows to pass without damaging the conduits. Some of those recommendations have been implemented. This project includes review of the remaining recommendations in light of more recent information predicting larger flood flows and will fund measures needed to allow the maximum credible flood to safely pass Dam 2 without loss of pipeline capacity to Portland. Some of the alternatives considered include: (1) Constructing baffle blocks in the spillway chute to dissipate energy; (2) relocating the water transmission conduits to a new alignment located away from the potential scour zone; and (3) deepening the plunge pool.

Funding Sources

Revenue Bonds	0	0	0	0	0	10,000	0	10,000
Total Funding Sources	0	0	0	0	0	10,000	0	10,000

Project Costs

Planning	0	0	0	0	0	10,000	0	10,000
Total Project Costs	0	0	0	0	0	10,000	0	10,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
DAM 2 TOWER IMPROVEMENTS/WATER QUALITY INLET									
								Area:	NA
								Objective(s):	Replacement
Project Description									
This project includes the study, design, and construction of modifications to the intake towers at Bull Run Reservoir 2 to allow for selective withdrawal from various levels within the reservoir, to allow the towers to operate properly during flood conditions, to screen the intakes, and to enable the towers to better withstand seismic loadings. The proposed improvements will provide greater flexibility and control of reservoir operations, with related benefits to water quality, fish habitat, operator safety, and system reliability. The project also includes developing a temperature model of the Bull Run System to evaluate how to best meet water supply and fish habitat objectives.									
Funding Sources									
Revenue Bonds	37,323	200,000	200,000	850,000	1,000,000	0	0	2,050,000	
Total Funding Sources	37,323	200,000	200,000	850,000	1,000,000	0	0	2,050,000	
Project Costs									
Planning	10,263	0	0	0	0	0	0	0	
Design/ProjMgmt	27,060	200,000	200,000	50,000	100,000	0	0	350,000	
Const/Equip	0	0	0	800,000	900,000	0	0	1,700,000	
Total Project Costs	37,323	200,000	200,000	850,000	1,000,000	0	0	2,050,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
DIVERSION DAM REPAIR									
								Area:	NA
								Objective(s):	Repair/Maint
Project Description									
This project covers maintenance work at the diversion dam that is the primary means of diverting water from the outlet of Bull Run Reservoir No. 2 to the conduits at the headworks. The dam is approximately 80 years old. Identified maintenance needs include repair of extensive concrete spalling on the dam spillway and replacement of the drainage gates. The project is planned to be completed in two phases. The primary benefit of the project is to maintain this component of the water system in good working order. The project is not expected to change the Bureau's current O&M costs for this small dam.									
Funding Sources									
Revenue Bonds	0	5,000	0	0	0	0	0	0	
Total Funding Sources	0	5,000	0	0	0	0	0	0	
Project Costs									
Planning	0	0	0	0	0	0	0	0	
Design/ProjMgmt	0	5,000	0	0	0	0	0	0	
Const/Equip	0	0	0	0	0	0	0	0	
Total Project Costs	0	5,000	0	0	0	0	0	0	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
EAST MULTNOMAH/CLACKAMAS COUNTY SUPPLY MAIN									
								Area:	SE
								Objective(s):	Expansion
Project Description									
This project provides for the construction of a supply line to serve existing service areas east of Powell Butte, as well as potential new service areas south and east of Powell Butte in what is currently the urban reserve area. It may also be extended to provide limited service or to include a larger regional intertie with Clackamas water purveyors. The supply main is anticipated to originate from the existing Powell Butte storage reservoir to minimize existing and future demand peaking on the conduits. The project may augment other supply improvements and possibly source or treatment plant sizes or phasing, either in Portland or in the region. An intertie could enable water to be supplied to either Portland or Clackamas purveyors for lower cost winter water, emergency back-up, or summer peak season augmentation. The primary benefits are improved system capacity, emergency back-up to reduce vulnerability, and the economics of delay or avoiding the need for alternative improvements.									
Funding Sources									
Revenue Bonds	0	0	0	0	0	0	5,000	5,000	
Total Funding Sources	0	0	0	0	0	0	5,000	5,000	
Project Costs									
Planning	0	0	0	0	0	0	5,000	5,000	
Total Project Costs	0	0	0	0	0	0	5,000	5,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

EAST WELLFIELD COLLECTION MAIN

Area: NE
Objective(s): Repair/Maint

Project Description

The East Wellfield Collection Main will be upgraded to allow the use of greater capacity by the wells located near Blue Lake. A portion of the original collection piping system was installed before the production wells were completed. The production from these wells is greater than was expected; consequently, the collection main is too small to take advantage of the full capacity. In addition, seismic assessment findings indicate that the undersized portion of the collection main is on unstable soil and should be relocated. The pipeline is expected to follow a new route to the Groundwater Pump State that avoids the areas of unstable soil.

Funding Sources

Revenue Bonds	0	0	20,000	20,000	200,000	2,210,000	1,280,000	3,730,000
Total Funding Sources	0	0	20,000	20,000	200,000	2,210,000	1,280,000	3,730,000

Project Costs

Planning	0	0	0	0	0	0	0	0
Design/ProjMgmt	0	0	20,000	20,000	200,000	710,000	200,000	1,150,000
Const/Equip	0	0	0	0	0	1,500,000	1,080,000	2,580,000
Total Project Costs	0	0	20,000	20,000	200,000	2,210,000	1,280,000	3,730,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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EAST/WEST HEADER AND RIVER CROSSING MAIN

Area: SW

Project Description

The purpose of this project is to maintain the flexibility, reliability, and capacity of the Willamette River crossing system by constructing a new supply line between the eastside terminal storage at Powell Butte and Mt. Tabor and westside storage at Washington Park. The project combines three projects from prior years, the Westside Header, the Willamette River Crossing, and the Westside Supply Line, into a single project that takes a more comprehensive approach to addressing the long-term supply needs of the downtown area west of the river. The project schedule is being driven by LRT projects on the westside that conflict with key existing supply mains. River crossings are vulnerable to the effects of earthquakes and scour and may need to be replaced. System analysis has been completed and preliminary engineering will be performed in FY 99-00 to prepare specific improvements for design and construction. The project will consist of several phases: (1) Identification of the pipeline corridor, including the general alignment and preliminary engineering; (2) Construction of a header along the western bank of the Willamette River (This project is needed in part to relocate the existing header from the area identified for a possible future light rail alignment. Part of these project costs may be reimbursable by ODOT.); (3) Construction/replacement of the two current river crossings that serve the downtown area and west Portland with a single 36-inch diameter underwater crossing (The existing Clay Street crossing must be replaced because of its age and deterioration. The Ross Island crossing will require upgrading or replacement in conjunction with seismic upgrades to the Ross Island Bridge.); (4) Construction of an eastside header; and (5) connecting the new headers and crossing to complete the system interconnection from the Mt. Tabor to the Washington Park Reservoir.

Funding Sources

Revenue Bonds	569,175	61,000	150,000	150,000	510,000	150,000	1,750,000	2,710,000
Total Funding Sources	569,175	61,000	150,000	150,000	510,000	150,000	1,750,000	2,710,000

Project Costs

Planning	0	61,000	0	0	0	0	0	0
Design/ProjMgmt	85,376	0	150,000	150,000	60,000	150,000	200,000	710,000
Const/Equip	483,799	0	0	0	450,000	0	1,550,000	2,000,000
Total Project Costs	569,175	61,000	150,000	150,000	510,000	150,000	1,750,000	2,710,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

FULTON PUMP STATION RENOVATION

Area: SW
Objective(s): Repair/Maint

Project Description

This project will renovate the Bureau's aging Fulton Pump Station. The station was constructed in the early 1900s and still uses the original inlet and discharge piping, which are now seriously deteriorated. The project includes a review of the service requirements for the station so that repairs can be initiated to bring it up to current building codes and ensure that it meets future service requirements. Future capacity is expected to be at least 12 mgd. This pump station is a primary link to southwest Portland, therefore reliability and fireflow are important issues. A planning study will be performed to determine future capacity needs and to investigate the possibility of using higher hydraulic grade line water from the WCSL during the non-peak season to reduce O&M costs. A related project is the Burlingame/WCSL and Westwood Interties project.

Funding Sources

Revenue Bonds	0	0	0	10,000	0	80,000	600,000	690,000
Total Funding Sources	0	0	0	10,000	0	80,000	600,000	690,000

Project Costs

Planning	0	0	0	10,000	0	0	0	10,000
Design/ProjMgmt	0	0	0	0	0	80,000	0	80,000
Const/Equip	0	0	0	0	0	0	600,000	600,000
Total Project Costs	0	0	0	10,000	0	80,000	600,000	690,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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FULTON-CAROLINA SUPPLY PIPELINE

Area: SW
Objective(s): Replacement

Project Description

This project includes analysis, planning, design, and construction of improvements (reconstruction or replacement) to the Fulton-Carolina supply pipeline. This pipeline extends from the Sellwood Willamette River crossing to the Fulton and Carolina pump stations and has an existing capacity of 31 mgd. It is the primary supply to the Fulton and Carolina Pump Stations, which serve a large portion of southwest Portland. Previous projects revealed portions of the pipeline to be in poor condition. Approximately 7,200 feet of 36-inch main will be installed to replace the deteriorating pipeline. Analysis of the existing line and design of necessary improvements are scheduled for FY 06-07. Improvements would be constructed in FY 07-08 and 08-09. The primary benefit of the project is to maintain the water system.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
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Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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GROUNDWATER MAINTENANCE

Area: NE
Objective(s): Repair/Maint

Project Description

The wellfield is the City's supplementary and backup water supply to the Bull Run River supply. Repair funds were withdrawn in prior years due to budgetary constraints and a lack of Bureau staffing needed to manage these needed repairs. As a result, many maintenance needs have accumulated. Project funds are provided to perform the backlog of maintenance needed on this system. Maintenance projects will include pump and motor overhauls, well testing and redevelopment, pump station upgrades, and wellhead upgrades. Maintenance is needed to maintain the Bureau's back-up supply to the Bull Run Reservoir.

Funding Sources

Revenue Bonds	0	450,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Total Funding Sources	0	450,000	300,000	300,000	300,000	300,000	300,000	1,500,000

Project Costs

Design/ProjMgmt	0	150,000	60,000	60,000	60,000	60,000	60,000	300,000
Site Acquisition	0	0	0	0	0	0	0	0
Const/Equip	0	300,000	240,000	240,000	240,000	240,000	240,000	1,200,000
Total Project Costs	0	450,000	300,000	300,000	300,000	300,000	300,000	1,500,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

GROUNDWATER STUDIES

Area: NA
Objective(s): Mandated

Project Description

This project will fund a study to increase understanding and utilization of the Bureau's groundwater supply system. A groundwater model, the DAY model, was developed in FY 98-99 to determine the following: the sustainable yield of the well field under long-term emergency operation; whether raising well pump settings will increase the sustainable yield; the cause of recent declines in the level of the Sand and Gravel Aquifer (City of Vancouver pumping is thought to be the cause); and the location of additional wells to increase the sustainable yield. Although the model has been developed, it has not yet passed verification testing. The focus of efforts in FY 99-00 will be to further test the sensitivity of the model, to improve its reliability, and to pass the model verification testing. IN FY 00-01, the model will be connected to another model, the BLA model, to allow re-wetting, particle tracking, and contaminant tracking. It will also be tested against data from the November 1999 turbidity event.

Funding Sources

Service Charges and Fees	407,046	574,000	200,000	100,000	100,000	0	0	400,000
Total Funding Sources	407,046	574,000	200,000	100,000	100,000	0	0	400,000

Project Costs

Planning	2,344	0	0	0	0	0	0	0
Design/ProjMgmt	404,702	574,000	200,000	100,000	100,000	0	0	400,000
Total Project Costs	407,046	574,000	200,000	100,000	100,000	0	0	400,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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GROUNDWATER SYSTEM UPGRADE

Area: NE
Objective(s): Expansion

Project Description

This project will enhance the reliability and capacity of the Water Bureau's existing groundwater supply resources to allow their use as a supplemental water source, with yields ranging from approximately 85 to 100 million gallons per day (mgd). The work will include design and construction of well system improvements in support of planned Aquifer Storage and Recovery (ASR) pilot testing of two to five existing wells, including modifications at the Groundwater Pump Station needed to facilitate injection of Bull Run water from Powell Butte. In addition to the ASR pilot program, a preliminary evaluation will follow up on capacity expansion studies performed in concert with the Infrastructure Master Plan and Groundwater Facility Plan. The evaluation will focus on options to increase reliable capacity that were ranked highest in the Groundwater Facility Plan and to develop a conceptual design for the preferred option. The preferred option will include rehabilitation/modification of existing wells as well as adding new wells to the system. This evaluation will incorporate the results of the ASR pilot program, particularly any capacity gains that may result from implementation of ASR. The project is related to several other groundwater system projects, including the Groundwater Disinfection Improvements, Well Site Improvements, and other projects to reduce system vulnerability, such as the East Wellfield Pipeline Upsize and Seismic Upgrades project. The Groundwater System Upgrade project response to water system needs identified in the Infrastructure Master Plan.

Funding Sources

Revenue Bonds	0	0	1,000,000	2,000,000	3,000,000	7,000,000	4,000,000	17,000,000
Total Funding Sources	0	0	1,000,000	2,000,000	3,000,000	7,000,000	4,000,000	17,000,000

Project Costs

Planning	0	0	100,000	0	0	0	0	100,000
Design/ProjMgmt	0	0	400,000	400,000	500,000	500,000	500,000	2,300,000
Site Acquisition	0	0	0	0	400,000	200,000	0	600,000
Const/Equip	0	0	500,000	1,600,000	2,100,000	6,300,000	3,500,000	14,000,000
Total Project Costs	0	0	1,000,000	2,000,000	3,000,000	7,000,000	4,000,000	17,000,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

HEADWORKS SCREENHOUSE #2 AND INTAKE

Area: NA
Objective(s): Replacement

Project Description

The existing Screenhouse No. 2 and intake structures, including the intakes, control valves, screens, and canal, are about 75 years old and need major repairs and renovation. These facilities serve as both primary and backup intakes, as well as a backup screening system for the conduits at the Bull Run Headworks. During the first year of the project, facilities were evaluated to determine if they should be repaired, rehabilitated, or replaced. The existing facilities do not meet future needs and it is not cost-effective to repair them. A new facility is being designed in FY 99-00. Construction will begin in FY 99-00 and continue through FY 01-02.

Funding Sources

Revenue Bonds	595,248	1,700,000	3,600,000	100,000	0	0	0	3,700,000
Total Funding Sources	595,248	1,700,000	3,600,000	100,000	0	0	0	3,700,000

Project Costs

Planning	0	100,000	0	0	0	0	0	0
Design/ProjMgmt	595,248	200,000	100,000	100,000	0	0	0	200,000
Const/Equip	0	1,400,000	3,500,000	0	0	0	0	3,500,000
Total Project Costs	595,248	1,700,000	3,600,000	100,000	0	0	0	3,700,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

INDUSTRIAL CONSERVATION

Area: NA
Objective(s): Efficiency

Project Description

This project will fund a pilot program to provide low-cost loans to industrial, commercial, and government water users to install water conservation projects at their facilities. The primary benefit will be to achieve more cost-effective use of existing water supply capacity. Loans will be repaid over a 5-year period. The process for evaluating and selecting loan recipients and repayment procedures will be developed with assistance from the City Attorney's Office in FY 99-00. The first loans totaling \$90,000 will be awarded in FY 00-01. Each year a small additional amount of loan capital will be added to the fund so that, at the end of 5 years, the revolving balance in the fund will reach an amount that will allow several (5 to 10) loans to be awarded in a single year.

Funding Sources

Service Charges and Fees	0	5,000	82,000	30,000	30,000	30,000	30,000	202,000
Total Funding Sources	0	5,000	82,000	30,000	30,000	30,000	30,000	202,000

Project Costs

Planning	0	5,000	0	0	0	0	0	0
Design/ProjMgmt	0	0	82,000	30,000	30,000	30,000	30,000	202,000
Total Project Costs	0	5,000	82,000	30,000	30,000	30,000	30,000	202,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

INFRASTRUCTURE MASTER PLAN

Area: NA
Objective(s): Efficiency

Project Description

This project consists of a comprehensive analysis of system-wide needs and strategies for supply, treatment, storage, and distribution. Benefits, costs, priorities, and timing of improvements will be identified and a comprehensive master plan for system improvements will be developed to improve system reliability and respond to growth. Anticipated work elements include: (1) a master plan and public facility plan for water supply, storage, transmission, and treatment requirements to meet current and anticipated future demands for both routine and emergency supplies, including timing and capacity requirements; (2) an assessment of the vulnerability to hazards of the Bureau's physical facilities, including the watershed, dams, headworks, conduits, bridges, reservoirs, supply mains, tanks, pump stations, and groundwater system (among the hazards to be analyzed will be earthquake, flood, landslide, windstorm, snow/ice, hazardous material, contamination, forest or structure fires, terrorism, drought, electrical power or telemetry disruption, and turbidity events) (The project has been combined with the former System Vulnerability Assessment project.); (3) a Distribution System Master Plan, including hydraulic analysis to identify timing and capacity requirements for system upgrades; and (4) an assessment of the Bureau's customer services, information technology, business systems, and building vulnerability to hazards. The first two phases of the project, including the Infrastructure Master Plan and the System Vulnerability Study have been completed and are under review. The Public Facility Plan for the system supply backbone is currently underway, and the Distribution System Master Plan Study is planned for FY 00-01. This project is linked with implementation of the Regional Water Supply Plan and wholesale contract renewals.

Funding Sources

Service Charges and Fees	2,220,443	340,000	374,000	200,000	200,000	200,000	0	974,000
Total Funding Sources	2,220,443	340,000	374,000	200,000	200,000	200,000	0	974,000

Project Costs

Design/ProjMgmt	2,220,443	340,000	374,000	200,000	200,000	200,000	0	974,000
Total Project Costs	2,220,443	340,000	374,000	200,000	200,000	200,000	0	974,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

LUSTED CLEAR WELL STORAGE

Area: N/A
Objective(s): Expansion

Project Description

Currently there is no clear well storage at the inlet to the Bureau's distribution system. Under this set up, it is possible that water that has not been disinfected could enter the distribution system. This project would provide storage and an alternative disinfection system, and could be used for a clear well for future advanced disinfection/treatment. The project also includes interconnecting the tank with the three Bull Run conduits.

Funding Sources

Revenue Bonds	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
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Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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MASTER PLAN DODGE PARK

Area: N
Objective(s): Efficiency

Project Description

The Bureau owns land at the confluence of the Bull Run and Sandy Rivers where the Bull Run conduits cross the Sandy River. A master plan will be developed for use of the property, which contains Dodge Park, Conduits 2 & 4, and the Bureau's adjacent maintenance facilities. Issues such as recreational access, public information, and visual resources will be considered. In addition, the Bureau of Land Management's recommendation for water conservation information displays at Dodge, Oxbow, and Dabney Parks will be considered, together with the Bureau's long-term potential uses for City-owned land in and around Dodge Park. The master plan will address law enforcement needs at the site, trespass/hazard warning signs, facility maintenance and upgrades, alternative park management arrangements, and visitor management. Construction of selected improvements will occur after the master plan is complete, although some short-term improvements may be installed during preparation of the plan.

Funding Sources

Service Charges and Fees	34,755	10,000	0	0	74,000	35,000	0	109,000
Revenue Bonds	0	0	0	0	0	0	30,000	30,000
Total Funding Sources	34,755	10,000	0	0	74,000	35,000	30,000	139,000

Project Costs

Design/ProjMgmt	34,755	10,000	0	0	74,000	35,000	10,000	119,000
Const/Equip	0	0	0	0	0	0	20,000	20,000
Total Project Costs	34,755	10,000	0	0	74,000	35,000	30,000	139,000

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	20,000	20,000
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Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted		Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
MASTER PLAN IN-CITY PROPERTY/CONDUIT RT.									
								Area:	NA
								Objective(s):	Efficiency
Project Description									
The purpose of this project is to establish a master plan for managing Bureau property within the City, including tank, pump, and reservoir sites, and properties outside the City that serve existing and planned conduits. Funds are included in this project to purchase easements to improve Bureau control of the Conduit 2, 3, and 4 routes. The benefits of the effort are threefold: protecting system assets, making operations more efficient, and enhancing community livability.									
Funding Sources									
Revenue Bonds	0	0	0	0	0	290,000	85,000	375,000	
Service Charges and Fees	7,955	0	23,000	0	0	0	0	23,000	
Total Funding Sources	7,955	0	23,000	0	0	290,000	85,000	398,000	
Project Costs									
Design/ProjMgmt	7,955	0	23,000	0	0	290,000	85,000	398,000	
Total Project Costs	7,955	0	23,000	0	0	290,000	85,000	398,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
MT. TABOR PART 12									
								Area:	SE
								Objective(s):	Expansion
Project Description									
The Bureau operates a hydroelectric power generator at Reservoir No. 6 on Mt. Tabor, which is driven by water flowing downhill from Reservoir No. 5 to Reservoir No. 6. This unit is licensed by the U.S. Federal Energy Regulatory Commission (FERC). Part 12 of Title 18 of the Code of Federal Regulations requires the Bureau to hire independent consultants to review the safety of the project structures at least once every 5 years. This project will provide funds for such studies.									
Funding Sources									
Service Charges and Fees	33,830	30,000	0	0	0	0	40,000	40,000	
Total Funding Sources	33,830	30,000	0	0	0	0	40,000	40,000	
Project Costs									
Design/ProjMgmt	33,830	30,000	0	0	0	0	40,000	40,000	
Total Project Costs	33,830	30,000	0	0	0	0	40,000	40,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
OPEN RESERVOIRS STUDY AND IMPLEMENTATION									
								Area:	NA
								Objective(s):	Repair/Maint
Project Description									
The project funds an evaluation of the condition and use of the open reservoirs, and needed maintenance, repairs and modifications of the facilities and their associated piping. The project includes water quality, seismic, and condition analyses of the open reservoirs, while addressing new and anticipated water quality regulations and the seismic reclassification of the Portland area, along with other factors that will affect the Bureau's continued ability to operate key terminal reservoirs that are not covered. Alternatives for potential modifications to the facilities will be identified and evaluated, and an implementation plan for long-term improvements will be developed. Potential improvements include covering of the open reservoirs or their replacement with covered storage. The first phase of the evaluation, performance of a condition and maintenance needs assessment study, is nearing completion. The second phase is an alternatives analysis and long-term improvement or replacement plan and strategy development study, which is scheduled for FY 00-01. Modifications to set back the fence and trails surrounding Reservoir No. 5 and modifications to the gate house are to make it more appropriate for public use is planned for FY 00-01 and FY 01-02. A budget for the design and construction of the selected alternatives is provided in FY 06-10. The primary benefit of the project will be to secure the storage required by the water system for many years to come.									
Funding Sources									
Revenue Bonds	751,906	0	50,000	350,000	0	0	0	400,000	
Service Charges and Fees	0	107,300	47,000	200,000	200,000	0	0	447,000	
Total Funding Sources	751,906	107,300	97,000	550,000	200,000	0	0	847,000	
Project Costs									
Design/ProjMgmt	751,906	107,300	97,000	550,000	200,000	0	0	847,000	
Total Project Costs	751,906	107,300	97,000	550,000	200,000	0	0	847,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

PEAK OFFLOAD/BACKUP WELLS/HEALTH CARE FACILITIES

Area: NA
Objective(s): Expansion

Project Description

This project continues a partnership between the Water Bureau and metropolitan area hospitals to provide assistance for the construction of on-site water wells to provide summer irrigation and emergency water supplies in the event of a failure of the Bull Run Water system. The project solves two problems: 1) it reduces large summer irrigation peaking loads on the Bull Run, and 2) it provides emergency water supplies to hospitals. During the 1996 flood, and the associated possibility of non-potable water being used in the distribution system, it became evident that local hospitals are in need of back up water supplies. Currently Providence and Good Samaritan Hospitals have wells. St. Vincent has an arrangement with Catlin Gable School to use their well if the City supplies fire hose for the connection. The U.S. Veterans' Hospital has a small on-site water storage tank for its back up supply. Providing redundancy or hardening of the existing water system for emergency supply to the rest of the Marquam Hill complex (OHSU, Shriners' Hospital), especially given the steep terrain in the area, would be quite costly. The balance of the hospitals in the metropolitan area do not have emergency water supplies; however, the system provides some redundancy to these hospitals. A less costly alternative to providing redundancy for area hospitals is to provide assistance to the hospitals to construct water wells. The primary benefit of the project is to reduce future capital construction costs for the Bureau. In FY 98-99, a stakeholders' group was formed and a consultant was hired to evaluate project feasibility for facilities on Marquam Hill. The evaluation of Marquam Hill will be completed in FY 99-00 and design and construction of a well supply, if found to be feasible and cost-effective, will begin in FY 00-01.

Funding Sources

Service Charges and Fees	9,525	40,000	93,000	150,000	0	0	0	243,000
Total Funding Sources	9,525	40,000	93,000	150,000	0	0	0	243,000
Project Costs								
Planning	9,525	20,000	0	0	0	0	0	0
Design/ProjMgmt	0	20,000	93,000	30,000	0	0	0	123,000
Const/Equip	0	0	0	120,000	0	0	0	120,000
Total Project Costs	9,525	40,000	93,000	150,000	0	0	0	243,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

POWELL BUTTE MASTER PLAN

Area: SE
Objective(s): Repair/Maint

Project Description

A master plan was developed for the City's future use of Powell Butte, including a variety of site uses for the public. The project included coordination with other City bureaus and neighborhood groups. The final product is a new master plan with maps and renderings of future uses for this property. The project enables the Bureau to plan accurately for major future facilities, such as the addition of in-town storage to replace existing deteriorating facilities, and for potential water treatment facilities. The resulting document includes a formal management plan for the Powell Butte site that outlines the partnership between the Parks Bureau, the Water Bureau, and other user groups for ongoing operations, maintenance, and resource protection at the site. The final task of the study is to obtain a Conditional Use Master Plan for the property, which will provide the permits necessary to implement the now completed Master Plan. The Master Plan requires the Bureau to increase its level of maintenance for the property, including approximately two full-time employees to manage the facility.

Funding Sources

Revenue Bonds	970,434	300,000	10,000	0	0	0	0	10,000
Total Funding Sources	970,434	300,000	10,000	0	0	0	0	10,000
Project Costs								
Design/ProjMgmt	970,434	300,000	10,000	0	0	0	0	10,000
Total Project Costs	970,434	300,000	10,000	0	0	0	0	10,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	200,000	200,000	200,000	200,000	200,000	1,000,000

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05

POWELL BUTTE RESERVOIR #2

Area: SE
Objective(s): Expansion

Project Description

This project will provide for planning, design, and construction of a second reservoir on Powell Butte. The project includes a study to determine the size and elevation of any storage needed on Powell Butte. The new reservoir will lead to a reduction in the system's dependence on the 100-year-old reservoirs on Mt. Tabor and in Washington Park, which present water quality, seismic stability, and safety concerns that were identified in separate studies. This project will provide the additional storage required to safely operate the water system with one or more of the open reservoirs out of service. The first part of the project will include preliminary studies, conceptual design, permitting, and property purchase for mitigation and overflow discharge containment. Project design is funded in FY 00-01 and 01-02. Construction will continue through several years. The project is scheduled to allow incorporation of findings from the Powell Butte Master Plan, Infrastructure Master Plan, Mt. Tabor Part 12 study, System Vulnerability Assessment Study, and the Open Reservoirs Study. The project will significantly enhance the function and reliability of the water supply system.

Funding Sources

Revenue Bonds	48,248	150,000	150,000	1,000,000	4,000,000	10,000,000	6,000,000	21,150,000
Total Funding Sources	48,248	150,000	150,000	1,000,000	4,000,000	10,000,000	6,000,000	21,150,000

Project Costs

Planning	4,069	0	0	0	0	0	0	0
Design/ProjMgmt	44,179	30,000	140,000	500,000	500,000	300,000	300,000	1,740,000
Site Acquisition	0	120,000	10,000	0	0	0	0	10,000
Const/Equip	0	0	0	500,000	3,500,000	9,700,000	5,700,000	19,400,000
Total Project Costs	48,248	150,000	150,000	1,000,000	4,000,000	10,000,000	6,000,000	21,150,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

REGIONAL PIPELINES

Area: NA
Objective(s): Expansion

Project Description

This project supports the objectives of a regional water system in which all of the major water supply providers are interconnected to provide greater regional reliability. The project will either support construction of interties or take advantage of opportunities to upsize pipelines planned for local supply, which will allow them to be used as regional interties. Funding for the project has been moved to the latter years of this CIP until the costs and benefits become better understood and quantified for the Bureau and other regional water providers. To better understand the issues, a study is currently underway by the Regional Water Suppliers' Consortium to develop a vision for water transmission and storage for the Portland metropolitan area that should provide information to make informed and timely decisions. Funds shown are only estimates provided by the Water Bureau. Significant additional funding by others will be necessary to fund the anticipated interties. The project responds to water system needs identified in the preliminary findings of the Water Bureau's Infrastructure Master Plan and the Regional Water Supply Plan.

Funding Sources

Revenue Bonds	0	100,000	0	0	0	0	0	0
Total Funding Sources	0	100,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	0	100,000	0	0	0	0	0	0
Const/Equip	0	0	0	0	0	0	0	0
Total Project Costs	0	100,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

REGIONAL WATER SUPPLY PLAN (RWSP) REVISION

Area: NA
Objective(s): Replacement

Project Description

The current Regional Water Supply Plan (RWSP) was endorsed by the region's water providers in late 1996. The RWSP calls for a review and update at least every 5 years; therefore, the first update should take place by 2001. This review will entail a review and update of the RWSP policy objectives, evaluation criteria, technical information, resource strategies, and implementation actions to reflect new information and evolving priorities. The Regional Water Providers Consortium will be the implementing body for this update, and the City of Portland, under an existing Intergovernmental Agreement (IGA) with the Consortium, will provide the staff services to conduct the RWSP revision. The study is expected to be funded 30% by the Water Bureau and 70% by other members of the Consortium.

Funding Sources

Intergovernmental	0	0	0	243,750	243,750	0	0	487,500
Service Charges and Fees	0	0	0	81,250	81,250	0	0	162,500
Total Funding Sources	0	0	0	325,000	325,000	0	0	650,000

Project Costs

Planning	0	0	0	5,000	0	0	0	5,000
Design/ProjMgmt	0	0	0	320,000	325,000	0	0	645,000
Total Project Costs	0	0	0	325,000	325,000	0	0	650,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

RESERVOIR MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

The Reservoir Maintenance Project consists of capitalized projects for preserving the structural and functional integrity of the Bureau's in-city reservoirs and tanks. Work includes major repairs to tank surfaces and linings, repair to lines leading to and from reservoirs and associated valves, and facilities. The reservoirs, some dating from the 1890s (Washington Park and Mt. Tabor), are the major facilities for storing finished water. This project also includes the installation of valves on conduits and mains to regulate the reservoirs. A liner was placed in Reservoir 5 in FY 98-99. Installation of liners is planned for Reservoirs 1 and 3 during FY 00-01.

Funding Sources

Revenue Bonds	0	845,500	834,000	312,000	312,000	312,000	312,000	2,082,000
Total Funding Sources	0	845,500	834,000	312,000	312,000	312,000	312,000	2,082,000

Project Costs

Design/ProjMgmt	0	445,500	84,000	53,000	53,000	53,000	53,000	296,000
Const/Equip	0	400,000	750,000	259,000	259,000	259,000	259,000	1,786,000
Total Project Costs	0	845,500	834,000	312,000	312,000	312,000	312,000	2,082,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

SMALL WELLS STUDY & RENOVATION

Area: NA
Objective(s): Repair/Maint

Project Description

The project provided for an analysis of small wells and either abandonment, rebuilding to provide an emergency source, or reconstruction as a non-potable water source. Funding is provided to abandon several of these wells and install small pumps at others for water quality testing. The study was completed in FY 99-00. Work will be ranked and completed according to the study recommendations over the next several years.

Funding Sources

Service Charges and Fees	37,480	50,000	50,000	50,000	50,000	50,000	50,000	250,000
Total Funding Sources	37,480	50,000	50,000	50,000	50,000	50,000	50,000	250,000

Project Costs

Planning	28,742	0	0	0	0	0	0	0
Design/ProjMgmt	8,738	10,000	10,000	10,000	10,000	10,000	10,000	50,000
Const/Equip	0	40,000	40,000	40,000	40,000	40,000	40,000	200,000
Total Project Costs	37,480	50,000	50,000	50,000	50,000	50,000	50,000	250,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised		Adopted		Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
SYSTEM VULNERABILITY REDUCTION									
								Area:	NA
								Objective(s):	Efficiency
Project Description									
This project will implement the recommendations for modifications to Bureau facilities that have been developed as part of the System Vulnerability Assessment (SVA) and that are not being addressed in other projects. The first phase of the SVA addressed the supply backbone, including supply, transmission, storage, and treatment. Subsequent phases will include the distribution system, buildings, technology, and communication systems and business systems. The Phase I work has identified the following priorities: addressing intentional acts; the WCSL River Crossing; the Groundwater Pump station structures, electrical power and protection from dike failure; Bull Run Dam mechanical failures, various key reservoirs; and operational procedures.									
Funding Sources									
Revenue Bonds	0	10,000	200,000	1,000,000	1,000,000	1,000,000	2,900,000	6,100,000	
Total Funding Sources	0	10,000	200,000	1,000,000	1,000,000	1,000,000	2,900,000	6,100,000	
Project Costs									
Planning	0	10,000	0	0	0	0	0	0	
Design/ProjMgmt	0	0	200,000	300,000	300,000	300,000	500,000	1,600,000	
Const/Equip	0	0	0	700,000	700,000	700,000	2,400,000	4,500,000	
Total Project Costs	0	10,000	200,000	1,000,000	1,000,000	1,000,000	2,900,000	6,100,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
TRANSMISSION PIPE CONDITION & LIFE STUDY									
								Area:	NA
								Objective(s):	Repair/Maint
Project Description									
This project includes evaluation of existing transmission pipelines, making use of the piping system inventory from the GIS system, as well as additional inspection and testing to predict the remaining life of pipelines. Priorities, costs, and benefits will be identified and a comprehensive program for pipeline replacement will be developed. This will allow for timely and economic maintenance or replacement of pipelines prior to system failures. Capital construction funds are provided in future years to fund repair of high priority problems identified in the ongoing evaluation of the condition of these large mains. The Distribution Pipe Design and Life project is related to this project.									
Funding Sources									
Revenue Bonds	0	0	0	0	0	0	100,000	100,000	
Service Charges and Fees	0	0	0	0	75,000	75,000	50,000	200,000	
Total Funding Sources	0	0	0	0	75,000	75,000	150,000	300,000	
Project Costs									
Design/ProjMgmt	0	0	0	0	75,000	75,000	150,000	300,000	
Total Project Costs	0	0	0	0	75,000	75,000	150,000	300,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
USFS/CITY OF PORTLAND LAND EXCHANGE									
								Area:	NA
								Objective(s):	Efficiency
Project Description									
This project will fund a timber inventory of selected City and U.S. Forest Service lands for potential future land exchanges. The timber inventory will provide data on timber species, merchantable volume, and grade, which are necessary inputs for both a preliminary valuation study and a complete market-value appraisal. The project may also include purchase of the only remaining privately held land in the Bull Run Management Unit, a 20-acre parcel owned by Longview Fibre Company. The USFS/City land exchange would provide greater certainty on environmental permitting issues associated with maintenance, operation, and expansion of the Bull Run supply system. The Longview Fibre land acquisition will eliminate the possibility that this parcel will be logged and will increase the overall level of source protection for the watershed.									
Funding Sources									
Revenue Bonds	19,512	150,000	0	0	250,000	250,000	0	500,000	
Total Funding Sources	19,512	150,000	0	0	250,000	250,000	0	500,000	
Project Costs									
Design/ProjMgmt	19,512	95,000	0	0	250,000	250,000	0	500,000	
Site Acquisition	0	55,000	0	0	0	0	0	0	
Total Project Costs	19,512	150,000	0	0	250,000	250,000	0	500,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

WASHINGTON COUNTY SUPPLY LINE DRAIN

Area: SW
Objective(s): Replacement

Project Description

High-pressure, 6-inch ball valves will be installed on the drain lines on both sides of the Willamette River for the Washington County Supply Line (WCSL) main. The existing valves installed as a part of the original construction of the WCSL have been rendered inoperable by the high pressure in the supply main. The new valves are needed in order to properly drain the WCSL for routine inspections.

Funding Sources

Revenue Bonds	0	10,000	0	70,000	0	0	0	70,000
Total Funding Sources	0	10,000	0	70,000	0	0	0	70,000

Project Costs

Planning	0	10,000	0	0	0	0	0	0
Design/ProjMgmt	0	0	0	10,000	0	0	0	10,000
Const/Equip	0	0	0	60,000	0	0	0	60,000
Total Project Costs	0	10,000	0	70,000	0	0	0	70,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WASHINGTON PARK 30" PIPELINE REHABILITATION

Area: NW
Objective(s): Repair/Maint

Project Description

The Washington Park Reservoir complex includes two critical 30-inch pipelines. One pipeline conveys water from Reservoir 3 to Pump Station No. 1, and the other conveys water from Pump Station No. 1 to the Reservoir 4 outlet gatehouse. Both lines are corroded and are in need of major repair or rehabilitation. Previous investigations, approximately 15 years ago, determined that repair methods were limited, very expensive, and potentially infeasible. Since that time the pipelines have further deteriorated, but new repair methods are now available. This work will be done after the Open Reservoir Study is completed to ensure the work is consistent with the long-term objectives for the facility. In the interim, the piping system at Pump Station No. 1 will be upgraded and reconfigured.

Funding Sources

Revenue Bonds	1,666	100,000	0	0	0	0	0	0
Total Funding Sources	1,666	100,000	0	0	0	0	0	0

Project Costs

Planning	1,666	0	0	0	0	0	0	0
Design/ProjMgmt	0	20,000	0	0	0	0	0	0
Const/Equip	0	80,000	0	0	0	0	0	0
Total Project Costs	1,666	100,000	0	0	0	0	0	0

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WATER DISTRICT CONNECTIONS

Area: SE
Objective(s): Expansion

Project Description

This project includes developing an overall strategy for additional connections with wholesale customers for both routine and emergency supplies to improve reliability of the water supply and transmission system. Potential supply and demand capacities of the following possible connections will be evaluated: Clackamas River, Oak Lodge, Tualatin Valley Water Districts, Lake Oswego, Beaverton, and Milwaukie. Benefits, costs, requirements, and priorities will be identified. In addition to completion of the Milwaukie connection relocation, preliminary engineering, design, and construction for increasing the capacity of the backup/emergency connection with the Clackamas water system is anticipated to begin in FY 00-01.

Funding Sources

Revenue Bonds	12,458	110,000	100,000	100,000	0	0	0	200,000
Total Funding Sources	12,458	110,000	100,000	100,000	0	0	0	200,000

Project Costs

Planning	12,458	0	0	0	0	0	0	0
Design/ProjMgmt	0	20,000	20,000	20,000	0	0	0	40,000
Site Acquisition	0	0	0	0	0	0	0	0
Const/Equip	0	90,000	80,000	80,000	0	0	0	160,000
Total Project Costs	12,458	110,000	100,000	100,000	0	0	0	200,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

WATER REUSE & ALTERNATIVE USE

Area: NA
Objective(s): Efficiency

Project Description

This project continues the Bureau's efforts to conserve the City of Portland's municipal water supply. Two recent studies have indicated that one of the most cost-effective ways to reduce municipal use is to develop localized alternative water sources for irrigation and commercial and industrial cooling. Although these two water uses contribute to summer peak, they do not require that water be treated to drinking water standards, and could therefore be supplied by alternative sources. Funds in this project will be used for a pilot project in the Rivergate Industrial District that began with construction of a well in that area in FY 96-97 under an intergovernmental agreement with the Port of Portland. This well will be used to supply water to several industrial customers and irrigation services in the District. Funds will also be used for a \$160,000 interagency loan to the Parks Bureau that will be repaid through the annual savings on the Park Bureau's water bills at three parks where wells are being installed. Lastly, a project at the Oregon Zoo will use clean groundwater encountered during construction of the Westside Light Rail tunnel to supply water to several exhibits to make up for evaporation and other normal losses.

Funding Sources

Service Charges and Fees	146,282	210,000	60,000	208,000	208,000	0	0	476,000
Total Funding Sources	146,282	210,000	60,000	208,000	208,000	0	0	476,000

Project Costs

Design/ProjMgmt	146,282	50,000	15,000	15,000	15,000	0	0	45,000
Const/Equip	0	160,000	45,000	193,000	193,000	0	0	431,000
Total Project Costs	146,282	210,000	60,000	208,000	208,000	0	0	476,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WATERSHED DAM S MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

The Bureau owns two large dams in the Bull Run watershed, several smaller dams and weirs and all facilities associated with the Headworks. The water stored behind these dams is the main source of the City's water. This ongoing project provides for routine capital maintenance to protect the long-term integrity of the dams. Projects include repairs to concrete, coatings, valves, spillways, and other features. Planned maintenance includes inspection of the needle valves and concrete repair.

Funding Sources

Revenue Bonds	0	10,000	52,000	52,000	52,000	70,000	110,000	336,000
Total Funding Sources	0	10,000	52,000	52,000	52,000	70,000	110,000	336,000

Project Costs

Design/ProjMgmt	0	10,000	10,000	10,000	10,000	30,000	20,000	80,000
Const/Equip	0	0	42,000	42,000	42,000	40,000	90,000	256,000
Total Project Costs	0	10,000	52,000	52,000	52,000	70,000	110,000	336,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WATERSHED MAINTENANCE

Area: NA
Objective(s): Repair/Maint

Project Description

This activity funds capital projects necessary to maintain, improve, and protect the Bull Run watershed environment and facilities that are not directly related to the water supply system facilities. The funding level reflects the amount necessary to backstop the Bureau-requested USFS programmatic environmental assessment of its road abandonment program in case appropriated federal money is not available as a result of federal budget reductions. Funds to assist the USFS in carrying out repair, reconstruction, or abandonment of federal roads, and monitoring the associated water quality impacts are also included because federally appropriated funds for these activities have been limited or unavailable for a number of years. Funds are also included to rebuild the federal fire management pre-attack facilities that are required to protect the watershed from fire damage.

Funding Sources

Revenue Bonds	0	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Total Funding Sources	0	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000

Project Costs

Design/ProjMgmt	0	60,000	60,000	60,000	60,000	60,000	60,000	300,000
Const/Equip	0	240,000	240,000	240,000	240,000	240,000	240,000	1,200,000
Total Project Costs	0	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

WELL SITE IMPROVEMENTS

Area: NE
Objective(s): Repair/Maint

Project Description

Bureau wells Nos. 26, 29, and 32 were constructed with only minimal, temporary electrical and piping systems. In this project, improvements similar to those made at the other 19 wells will bring the wells up to Bureau standards. The improvements will include new motor control centers, radio telemetry, remote transmitting units, vaults, site security, and landscaping. The primary benefit of the project is improved public and employee safety during operation of these wells and protection of the City's investment in the wells, as well as enhancement of the public's use of the well site adjacent to the Columbia Slough.

Funding Sources

Revenue Bonds	169,649	1,330,000	0	0	0	0	0	0
Total Funding Sources	169,649	1,330,000	0	0	0	0	0	0

Project Costs

Planning	10,559	0	0	0	0	0	0	0
Design/ProjMgmt	159,090	100,000	0	0	0	0	0	0
Const/Equip	0	1,230,000	0	0	0	0	0	0
Total Project Costs	169,649	1,330,000	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Water Quality

CHLORINE CONTROL IMPROVEMENTS

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides for modifications to the controls of the disinfection facilities at the Bull Run Headworks. The improvements will relocate controls for the facility outside of their current hazardous environment, and will include needed operational and safety improvements. Identification and design of needed improvements are scheduled for FY 99-00, with design to be completed and construction to take place in FY00-01. The primary benefit of the project is to better ensure public health. A secondary benefit is improved employee safety through improved hazardous materials handling and control facilities.

Funding Sources

Revenue Bonds	125,004	100,000	165,000	0	0	0	0	165,000
Total Funding Sources	125,004	100,000	165,000	0	0	0	0	165,000

Project Costs

Design/ProjMgmt	58,334	15,000	15,000	0	0	0	0	15,000
Const/Equip	66,670	85,000	150,000	0	0	0	0	150,000
Total Project Costs	125,004	100,000	165,000	0	0	0	0	165,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities

PROJECT DETAIL

Bureau of Water Works

	Revised		Adopted		Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
ENHANCED TREATMENT									
								Area:	NA
								Objective(s):	Mandated
Project Description									
<p>The Bureau anticipates the need to provide significant future funding for treatment process improvements for the Bull Run supply system. While actual treatment requirements have yet to be established, it is assumed that these treatment improvements will include requirements for inactivation of Cryptosporidium under the Long-Term Enhanced Surface Water Treatment Rule. These requirements are scheduled to be promulgated by EPA in 2001 with compliance required by 2005. This project budget assumes that it will be possible and sufficient to meet treatment requirements on the Bull Run system through the addition of enhanced disinfection using ultra-violet light plus modifications to the existing chlorination, ammoniation, and corrosion control treatment processes. Final decisions on treatment processes, locations, schedules, project phasing, and costs will be established based on specific regulatory requirements, additional studies being undertaken by the Bureau, and the currently funded Water Treatment Improvements Study. These improvements are assumed to be an interim measure until such time that additional future regulations and/or the Bureau identify the need for additional treatment improvements such as filtration. The completed improvements are likely to result in significant increases in operating costs. These costs have yet to be identified, but could range from a low of \$100,000 per year to more than \$1 million per year, depending on the required treatment method.</p>									
Funding Sources									
Revenue Bonds		0	0	0	100,000	400,000	750,000	2,000,000	3,250,000
Total Funding Sources		0	0	0	100,000	400,000	750,000	2,000,000	3,250,000
Project Costs									
Design/ProjMgmt		0	0	0	100,000	400,000	75,000	200,000	775,000
Const/Equip		0	0	0	0	0	675,000	1,800,000	2,475,000
Total Project Costs		0	0	0	100,000	400,000	750,000	2,000,000	3,250,000
Fund Level Costs		0	0	0	0	0	0	0	0
Oper & Maint Costs		0	0	0	0	0	0	0	0

GROUNDWATER DISINFECTION IMPROVEMENTS

Area: NE
Objective(s): Repair/Maint

Project Description

The existing disinfection system at the Groundwater Pump Station uses gaseous chlorine and ammonia. The facility does not meet new fire code requirements for containment or scrubbing of either of these hazardous materials. This project consists of modifying the groundwater disinfection system to meet these requirements. Recommended seismic improvements will also be done as part of this project. The project will be conducted in phases: (1) a pre-design study to evaluate improvement alternatives, (2) final design of the recommended alternative (scheduled for FY 00-01), and (3) construction of the recommended modifications in FY 99-00 through 01-02. The primary benefit of the project is enhanced public and employee safety. Groundwater treatment issues associated with groundwater contamination are addressed elsewhere in the Wellhead Protection and Groundwater Studies projects.

Funding Sources

Revenue Bonds	427,662	621,800	2,225,000	500,000	0	0	0	2,725,000
Total Funding Sources	427,662	621,800	2,225,000	500,000	0	0	0	2,725,000
Project Costs								
Design/ProjMgmt	78,314	600,000	225,000	100,000	0	0	0	325,000
Const/Equip	349,348	21,800	2,000,000	400,000	0	0	0	2,400,000
Total Project Costs	427,662	621,800	2,225,000	500,000	0	0	0	2,725,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised		Adopted	Capital Plan				
	Prior Years	FY 1999–00	FY 2000–01	FY 2001–02	FY 2002–03	FY 2003–04	FY 2004–05	5–Year Total
GROUNDWATER REMEDIATION								
								Area: NE
								Objective(s): Repair/Maint
Project Description								
Groundwater contamination remediation activities will continue at various sites in the vicinity of the City's Columbia River wells. As in previous years, the budget is based on the assumption that responsible parties and the Oregon Department of Environmental Quality will fund or conduct the majority of the work, and that a City contractor will provide oversight and review. The budget assumes legal support for cost recovery associated with Boeing and Cascade, development of a Feasibility Study for DNAPL at the ICN site, development of a Remedial Investigation/Feasibility Study (RI/FS) in the Glass Plant Road contamination area, ongoing site characterization activities in the Holman Redevelopment Area, and identification and investigation of contaminant sources along N.E. 148th and 158th Avenues.								
Funding Sources								
Service Charges and Fees	2,863,165	490,000	325,000	400,000	400,000	400,000	400,000	1,925,000
Total Funding Sources	2,863,165	490,000	325,000	400,000	400,000	400,000	400,000	1,925,000
Project Costs								
Design/ProjMgmt	2,725,957	490,000	325,000	400,000	400,000	400,000	400,000	1,925,000
Site Acquisition	26,875	0	0	0	0	0	0	0
Const/Equip	110,333	0	0	0	0	0	0	0
Total Project Costs	2,863,165	490,000	325,000	400,000	400,000	400,000	400,000	1,925,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
LUSTED HILL TREATMENT IMPROVEMENTS								
								Area: NA
								Objective(s): Efficiency
Project Description								
This project provides for improvements to the existing treatment facility to improve handling and disposal of lab wastes, employee locker room and shower; lunch room; office space; and an equipment maintenance workshop.								
Funding Sources								
Revenue Bonds	1,170	153,100	0	0	0	0	0	0
Total Funding Sources	1,170	153,100	0	0	0	0	0	0
Project Costs								
Planning	1,170	10,000	0	0	0	0	0	0
Design/ProjMgmt	0	43,100	0	0	0	0	0	0
Const/Equip	0	100,000	0	0	0	0	0	0
Total Project Costs	1,170	153,100	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	10,000	10,000	10,000	10,000	10,000	50,000
REGULATORY COMPLIANCE STUDIES								
								Area: NA
								Objective(s): Expansion
Project Description								
This project consists of regulatory compliance studies associated with control of microbial contaminants, disinfection byproducts, and implementation of existing and future surface water treatment regulations. It includes continuation of the current study of Cryptosporidium oocysts found in Portland's Bull Run Water Source, and the effectiveness of disinfection systems in killing the oocysts. Information from these studies will be used to develop background information for comments on and, ultimately, compliance with drinking water regulations.								
Funding Sources								
Service Charges and Fees	556,843	150,000	150,000	50,000	50,000	50,000	50,000	350,000
Total Funding Sources	556,843	150,000	150,000	50,000	50,000	50,000	50,000	350,000
Project Costs								
Design/ProjMgmt	556,843	150,000	150,000	50,000	50,000	50,000	50,000	350,000
Total Project Costs	556,843	150,000	150,000	50,000	50,000	50,000	50,000	350,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

RESOURCE PROTECTION PUBLIC EDUCATION

Area: NA
Objective(s): Expansion

Project Description

This project will construct education facilities and exhibits about management and protection of water resources the city relies on for its drinking water supply. Anticipated facilities and exhibits include: construction of a viewing deck in the watershed where an overview of the Headworks and Dam 2 could be achieved and where static displays can be created; construction of an ADA-accessible old growth trail; and interpretive exhibits at Bear Creek house, Dodge Park, the Headworks, the downtown water quality lab, and in the South Shore wellfield area. Several of these projects are necessary to improve visitor and employee safety (e.g., to avoid the potential for chlorine gas exposure and improve footing on trails).

Funding Sources

Service Charges and Fees	0	25,000	25,000	25,000	25,000	25,000	0	100,000
Total Funding Sources	0	25,000	25,000	25,000	25,000	25,000	0	100,000

Project Costs

Planning	0	2,000	0	0	0	0	0	0
Design/ProjMgmt	0	3,000	5,000	5,000	5,000	5,000	0	20,000
Const/Equip	0	20,000	20,000	20,000	20,000	20,000	0	80,000
Total Project Costs	0	25,000	25,000	25,000	25,000	25,000	0	100,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WATER QUALITY SAMPLE UPGRADE

Area: NA
Objective(s): Efficiency

Project Description

Standardized water quality sampling stations will be installed throughout the distribution system. These improvements will allow the Bureau to monitor water quality and chlorine residue throughout the distribution system and to more readily identify potential problems and their sources. This project includes the installation of chlorine residual analyzers for continuous monitoring of residuals in the distribution system. The primary benefit of these installations is the production of more accurate and reliable water quality data to use in operating the water system and to aid in the design of system improvements. Additional O&M costs will be incurred to operate these new facilities.

Funding Sources

Revenue Bonds	458,101	100,000	100,000	75,000	75,000	0	0	250,000
Total Funding Sources	458,101	100,000	100,000	75,000	75,000	0	0	250,000

Project Costs

Design/ProjMgmt	137,430	25,000	25,000	25,000	25,000	0	0	75,000
Const/Equip	320,671	75,000	75,000	50,000	50,000	0	0	175,000
Total Project Costs	458,101	100,000	100,000	75,000	75,000	0	0	250,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	3,000	3,000	6,000

WATER SYSTEM STUDIES

Area: NA
Objective(s): Repair/Maint

Project Description

This project provides funds to conduct studies necessary to efficiently operate, maintain, and expand the water system in future years where specific studies have yet to be identified. The majority of these studies are related to water quality issues, therefore, the primary benefit is improved public health.

Funding Sources

Service Charges and Fees	0	0	0	0	267,000	1,185,000	1,597,000	3,049,000
Total Funding Sources	0	0	0	0	267,000	1,185,000	1,597,000	3,049,000

Project Costs

Design/ProjMgmt	0	0	0	0	267,000	1,185,000	1,597,000	3,049,000
Total Project Costs	0	0	0	0	267,000	1,185,000	1,597,000	3,049,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Public Utilities
Bureau of Water Works

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

WATER TREATMENT IMPROVEMENTS AND SITING STUDIES

Area: NA
Objective(s): Repair/Maint

Project Description

This project includes various planning studies needed to further evaluate and identify requirements for future Bull Run treatment improvements minimally needed to comply with expected future federal and state regulations for surface water treatment. While actual treatment requirements have yet to be established, it is assumed that these will include requirements for inactivation of Cryptosporidium under the Long-Term Enhance Surface Water Treatment Rule. Specific tasks include preparing a treatment plant siting study, developing a Bull Run treatment public involvement program, analyzing permitting requirements, and developing a Bull Run treatment implementation plan. Final decisions on treatment processes, locations, schedules, and costs will be established based on specific regulatory requirements, additional studies being undertaken by the Bureau, and a complete assessment of the benefits and costs of the various alternatives available.

Funding Sources

Service Charges and Fees	0	50,000	200,000	200,000	0	0	0	400,000
Total Funding Sources	0	50,000	200,000	200,000	0	0	0	400,000

Project Costs

Design/ProjMgmt	0	50,000	200,000	200,000	0	0	0	400,000
Total Project Costs	0	50,000	200,000	200,000	0	0	0	400,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

WELLHEAD PROTECTION

Area: NE
Objective(s): Repair/Maint

Project Description

This project will provide funding for additional monitoring wells that are a part of the Bureau's regional groundwater monitoring program. In previous fiscal year efforts, the Bureau has installed 26 monitoring wells. These wells have indicated that groundwater quality upgradient of the Bureau's production wells is very good, although some areas of contamination have been identified and are being addressed. Additional wells are required to complete the monitoring network. Monitoring the water quality in these wells will increase the Bureau's O&M costs as more wells are installed.

Funding Sources

Revenue Bonds	674,563	301,000	150,000	150,000	0	0	0	300,000
Total Funding Sources	674,563	301,000	150,000	150,000	0	0	0	300,000

Project Costs

Design/ProjMgmt	674,563	101,000	150,000	150,000	0	0	0	300,000
Const/Equip	0	200,000	0	0	0	0	0	0
Total Project Costs	674,563	301,000	150,000	150,000	0	0	0	300,000

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	1,500	2,000	2,000	2,000	2,000	9,500

Capital Improvement Plan — Community Development
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Union Station

Awning Replacement

Area: CC
Objective(s): Replacement

Project Description

The awnings at Union Station have deteriorated significantly over time. They also create water damage to the adjacent windows. The awnings provide a functional screen from the sun and are a historic feature of the building. The project will replace the deteriorated awnings and repair existing windows as needed.

Funding Sources

Bureau Revenues

Total Funding Sources	0	0	0	35,000	0	0	0	35,000
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Project Costs

Design/ProjMgmt	0	0	0	4,000	0	0	0	4,000
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Const/Equip	0	0	0	29,000	0	0	0	29,000
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Total Project Costs	0	0	0	33,000	0	0	0	33,000
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Fund Level Costs	0	0	0	2,000	0	0	0	2,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Electrical System Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

The electrical system at Union Station is a hodgepodge of various installations over years of utility upgrades. The service panels are of various vintage and were installed to meet an evolving load of more and greater numbers of appliances over time. The system is in need of a complete overhaul and requires installation of a comprehensive distribution network. A new telecommunications system is also required. This project will replace the deteriorated electrical system and provide a new high-speed telecommunications system.

Funding Sources

Bureau Revenues	0	0	0	0	0	250,000	0	250,000
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Total Funding Sources	0	0	0	0	0	250,000	0	250,000
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Project Costs

Design/ProjMgmt	0	0	0	0	0	27,000	0	27,000
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Const/Equip	0	0	0	0	0	208,000	0	208,000
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Total Project Costs	0	0	0	0	0	235,000	0	235,000
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Fund Level Costs	0	0	0	0	0	15,000	0	15,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Elevator Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

The elevator at Union Station is old and does not provide adequate access for persons in wheelchairs. The existing elevator does not meet ADA and needs to be upgraded. This project will replace the existing deteriorated elevator with a new ADA compliant elevator.

Funding Sources

Bureau Revenues	0	0	0	0	0	0	150,000	150,000
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Total Funding Sources	0	0	0	0	0	0	150,000	150,000
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Project Costs

Design/ProjMgmt	0	0	0	0	0	0	16,000	16,000
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Const/Equip	0	0	0	0	0	0	125,000	125,000
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Total Project Costs	0	0	0	0	0	0	141,000	141,000
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Fund Level Costs	0	0	0	0	0	0	9,000	9,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Community Development
Bureau of General Services

	Revised	Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	

Exterior Door Refinish/Repair

Area: CC
Objective(s): Repair/Maint

Project Description

The exterior doors at Union Station are old and in disrepair. Because they are a historic feature of the building they require repair and refinishing. This project will repair and refinish the existing deteriorated exterior doors.

Funding Sources

Bureau Revenues	0	0	0	0	27,000	0	0	27,000
Total Funding Sources	0	0	0	0	27,000	0	0	27,000

Project Costs

Design/ProjMgmt	0	0	0	0	3,000	0	0	3,000
Const/Equip	0	0	0	0	22,000	0	0	22,000
Total Project Costs	0	0	0	0	25,000	0	0	25,000

Fund Level Costs

	0	0	0	0	2,000	0	0	2,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Facility Assessment and Seismic Analysis

Area: CC
Objective(s): Repair/Maint

Project Description

Reviewing annually, prioritizing and implementing major maintenance items and the development of a comprehensive seismic work-plan is essential to maintaining the safety, integrity and longevity of Union Station. This project will address major maintenance items such as re-roofing, replacement of the boiler system, painting interiors and repairs to restrooms.

Funding Sources

Bureau Revenues	0	0	75,000	0	0	0	0	75,000
Total Funding Sources	0	0	75,000	0	0	0	0	75,000

Project Costs

Design/ProjMgmt	0	0	1,000	0	0	0	0	1,000
Const/Equip	0	0	69,000	0	0	0	0	69,000
Total Project Costs	0	0	70,000	0	0	0	0	70,000

Fund Level Costs

	0	0	5,000	0	0	0	0	5,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Restroom Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

The restrooms at Union Station are old and in disrepair. The lavatory and water closet fixtures need to be replaced. This project will repair and refinish the existing deteriorated restrooms at Union Station providing new and efficient plumbing fixtures.

Funding Sources

Bureau Revenues	0	0	0	0	0	0	100,000	100,000
Total Funding Sources	0	0	0	0	0	0	100,000	100,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	11,000	11,000
Const/Equip	0	0	0	0	0	0	83,000	83,000
Total Project Costs	0	0	0	0	0	0	94,000	94,000

Fund Level Costs

	0	0	0	0	0	0	6,000	6,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Community Development
Bureau of General Services

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Roof Replacement

Area: CC
Objective(s): Replacement

Project Description

The existing roof is well past its useful expected lifecycle and has developed many leaks. Restoring the existing roof will provide the first phase of Union Station's comprehensive restoration and protect the structure from further deterioration. The first phase of roof replacement was initiated by PDC and covers most of the main concourse. The roof will require further phases of replacement as building reserves allow.

Funding Sources

Bureau Revenues	0	0	175,000	215,000	180,000	0	0	570,000
Total Funding Sources	0	0	175,000	215,000	180,000	0	0	570,000

Project Costs

Design/ProjMgmt	0	0	19,250	23,650	19,800	0	0	62,700
Const/Equip	0	0	143,500	178,450	149,400	0	0	471,350
Total Project Costs	0	0	162,750	202,100	169,200	0	0	534,050
Fund Level Costs	0	0	12,250	12,900	10,800	0	0	35,950
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Community Development
Local Improvement Districts

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Local Improvement Districts								
Local Improvement Districts								
Project Description								
Local Improvement Districts are projects which provide improvements to neighborhoods and are paid for through tax assessments of the affected properties that benefit from these improvements.								
Funding Sources								
LID	5,150,000	2,037,100	7,946,000	3,202,000	720,000	0	0	11,868,000
Total Funding Sources	5,150,000	2,037,100	7,946,000	3,202,000	720,000	0	0	11,868,000
Project Costs								
Const/Equip	5,150,000	2,037,100	7,946,000	3,202,000	720,000	0	0	11,868,000
Total Project Costs	5,150,000	2,037,100	7,946,000	3,202,000	720,000	0	0	11,868,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Area: N/A
Objective(s): Expansion

Capital Improvement Plan — Community Development
Portland Development Commission

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Business Development									
Centennial Mill									
								Area:	Expansion
								Objective(s):	Expansion
Project Description									
Acquisition and Redevelopment of Centennial Mill.									
Funding Sources									
Bureau Revenues	0	0	221,919	0	775,056	0	0	996,975	
Fund Balance	0	0	0	612,442	224,944	225,452	0	1,062,838	
Tax Increment Financing	0	0	3,578,081	387,558	0	774,548	0	4,740,187	
Total Funding Sources	0	0	3,800,000	1,000,000	1,000,000	1,000,000	0	6,800,000	
Project Costs									
Design/ProjMgmt	0	0	145,100	42,136	59,710	81,696	0	328,642	
Const/Equip	0	0	3,654,900	957,864	940,290	918,304	0	6,471,358	
Total Project Costs	0	0	3,800,000	1,000,000	1,000,000	1,000,000	0	6,800,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Eastbank Contact Office									
								Area:	E
								Objective(s):	Expansion
Project Description									
Design and construction of contact office at east end of the Steel Bridge.									
Funding Sources									
Others Financing	0	0	287,271	0	0	0	0	287,271	
Tax Increment Financing	0	150,000	400,102	0	0	0	0	400,102	
Total Funding Sources	0	150,000	687,373	0	0	0	0	687,373	
Project Costs									
Design/ProjMgmt	0	150,000	183,721	0	0	0	0	183,721	
Const/Equip	0	0	503,652	0	0	0	0	503,652	
Total Project Costs	0	150,000	687,373	0	0	0	0	687,373	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
OCC Expansion									
								Area:	NE
								Objective(s):	Expansion
Project Description									
Capital support for Convention Center expansion.									
Funding Sources									
Tax Increment Financing	0	0	2,614,444	2,595,762	0	0	0	5,210,206	
Total Funding Sources	0	0	2,614,444	2,595,762	0	0	0	5,210,206	
Project Costs									
Design/ProjMgmt	3,100	0	100,008	105,164	0	0	0	205,172	
Const/Equip	0	0	2,514,436	2,490,598	0	0	0	5,005,034	
Total Project Costs	3,100	0	2,614,444	2,595,762	0	0	0	5,210,206	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Community Development

Portland Development Commission

	Revised		Adopted	Capital Plan					
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	
Neighborhood Commercial									
MLK/Grand Public Improvements									
								Area:	SE
								Objective(s):	Repair/Maint
Project Description									
This project includes new trees, tree grates, ornamental lighting and curb extensions where site-specific criteria is met.									
Funding Sources									
Tax Increment Financing	0	203,974	1,197,823	1,158,554	222,371	540,077	90,632	3,209,457	
Bureau Revenues	410	0	0	0	750,000	750,000	750,000	2,250,000	
Fund Balance	1,054,581	0	0	0	0	0	0	0	
Others Financing	0	0	0	0	150,000	150,000	150,000	450,000	
Total Funding Sources	1,054,991	203,974	1,197,823	1,158,554	1,122,371	1,440,077	990,632	5,909,457	
Project Costs									
Design/ProjMgmt	62,441	32,503	101,560	117,911	118,681	135,969	114,224	588,345	
Const/Equip	944,026	171,471	1,096,263	1,040,643	1,003,690	1,304,108	876,408	5,321,112	
Total Project Costs	1,006,467	203,974	1,197,823	1,158,554	1,122,371	1,440,077	990,632	5,909,457	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
N. Mac Land Acquisition									
								Area:	SW
								Objective(s):	Expansion
Project Description									
Professional services include appraisal, geotech work, level I and II testing, and legal costs.									
Funding Sources									
Tax Increment Financing	0	0	105,163	260,085	512,391	2,201,854	1,803,122	4,882,615	
Bureau Revenues	0	0	2,100,000	0	0	0	0	2,100,000	
Fund Balance	0	0	0	0	0	740,473	1,363,478	2,103,951	
Total Funding Sources	0	0	2,205,163	260,085	512,391	2,942,327	3,166,600	9,086,566	
Project Costs									
Design/ProjMgmt	0	0	189,511	163,212	168,377	505,420	568,571	1,595,091	
Const/Equip	0	0	2,015,652	96,873	344,014	2,436,907	2,598,029	7,491,475	
Total Project Costs	0	0	2,205,163	260,085	512,391	2,942,327	3,166,600	9,086,566	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
RD Chinatown Sr Housing Community Center									
								Area:	
Project Description									
Acquisition of building space in Chinatown to house a community center supporting the Chinese community.									
Funding Sources									
Bureau Revenues	0	0	0	0	8,414	0	0	8,414	
Fund Balance	0	0	0	27,035	0	0	5,476	32,511	
Tax Increment Financing	0	40,477	803,912	0	0	5,316	0	809,228	
Total Funding Sources	0	40,477	803,912	27,035	8,414	5,316	5,476	850,153	
Project Costs									
Design/ProjMgmt	0	30,477	78,600	27,035	8,414	5,316	5,476	124,841	
Const/Equip	0	10,000	725,312	0	0	0	0	725,312	
Total Project Costs	0	40,477	803,912	27,035	8,414	5,316	5,476	850,153	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Community Development

Portland Development Commission

	Prior Years	Revised	Adopted	Capital Plan					5-Year Total
		FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
DT Pioneer Square Public Impr									
Area:									
Objective(s): Repair/Maint									
Project Description									
PDC portion of capital improvement commitment.									
Funding Sources									
Fund Balance	0	250,000	0	0	0	0	0	0	0
Tax Increment Financing	0	0	98,500	0	0	0	0	0	98,500
Total Funding Sources	0	250,000	98,500	0	0	0	0	0	98,500
Project Costs									
Design/ProjMgmt	0	13,272	3,766	0	0	0	0	0	3,766
Const/Equip	0	236,728	94,734	0	0	0	0	0	94,734
Total Project Costs	0	250,000	98,500	0	0	0	0	0	98,500
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0
Eastbank Riverfront Park									
Area:									
Objective(s): Expansion									
Project Description									
Manage, design, and construct (Phase I) east side park along Willamette River between Steel and Burnside bridges. Includes Floating Walkway portion.									
Funding Sources									
Bureau Revenues	86,796	0	1,822,766	0	0	0	0	0	1,822,766
Fund Balance	745,568	0	74	0	0	0	0	0	74
Others Financing	0	0	215,803	0	0	0	0	0	215,803
Tax Increment Financing	0	1,803,737	1,923	291,114	0	0	0	0	293,037
Total Funding Sources	832,364	1,803,737	2,040,566	291,114	0	0	0	0	2,331,680
Project Costs									
Design/ProjMgmt	1,217,208	240,893	142,044	69,168	0	0	0	0	211,212
Const/Equip	6,727,289	1,562,844	1,898,522	221,946	0	0	0	0	2,120,468
Total Project Costs	7,944,497	1,803,737	2,040,566	291,114	0	0	0	0	2,331,680
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0
Lents Parks & Open Space - Dev. Projects									
Area:									
Objective(s): Repair/Maint									
Project Description									
Undertake construction of improvements to parks and open spaces.									
Funding Sources									
Tax Increment Financing	0	0	270,443	1,038,835	1,645,090	754,063	757,607	0	4,466,038
Total Funding Sources	0	0	270,443	1,038,835	1,645,090	754,063	757,607	0	4,466,038
Project Costs									
Design/ProjMgmt	0	0	19,119	90,551	166,198	112,676	144,844	0	533,388
Const/Equip	0	0	251,324	948,284	1,478,892	641,387	612,763	0	3,932,650
Total Project Costs	0	0	270,443	1,038,835	1,645,090	754,063	757,607	0	4,466,038
Fund Level Costs	0	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0	0

Capital Improvement Plan — Community Development
Portland Development Commission

	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Park Block 5									
								Area:	CC
								Objective(s):	Replacement
Project Description									
Manage the planning and design for the new Park Block at Taylor and Park Avenue.									
Funding Sources									
Bureau Revenues	0	98,709	0	0	0	0	0	0	
Fund Balance	0	0	0	794,517	0	11,728	54,739	860,984	
Tax Increment Financing	0	0	312,043	0	773,039	687,073	0	1,772,155	
Total Funding Sources	0	98,709	312,043	794,517	773,039	698,801	54,739	2,633,139	
Project Costs									
Design/ProjMgmt	48,346	98,709	106,678	142,916	136,105	135,407	54,739	575,845	
Const/Equip	0	0	205,365	651,601	636,934	563,394	0	2,057,294	
Total Project Costs	48,346	98,709	312,043	794,517	773,039	698,801	54,739	2,633,139	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
RD Tanner Creek Park Development									
								Area:	CC
								Objective(s):	Expansion
Project Description									
Staff and consultants to undertake Tanner Creek Park & Water Feature project planning, design, and construction of the first two park squares.									
Funding Sources									
Bureau Revenues	0	0	2,268,575	315,010	0	1,062,849	0	3,646,434	
Tax Increment Financing	0	312,315	0	0	61,275	544,983	1,983,351	2,589,609	
Total Funding Sources	0	312,315	2,268,575	315,010	61,275	1,607,832	1,983,351	6,236,043	
Project Costs									
Design/ProjMgmt	15,969	32,815	138,451	71,545	61,275	186,439	245,310	703,020	
Const/Equip	0	279,500	2,130,124	243,465	0	1,421,393	1,738,041	5,533,023	
Total Project Costs	15,969	312,315	2,268,575	315,010	61,275	1,607,832	1,983,351	6,236,043	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
SPB OBryant Square									
								Area:	CC
								Objective(s):	Repair/Maint
Project Description									
Capital Improvements to O'Bryant Square Park in South Park Blocks.									
Funding Sources									
Bureau Revenues	0	0	5,635	0	0	0	0	5,635	
Fund Balance	0	0	0	207,989	131,138	0	0	339,127	
Tax Increment Financing	0	0	72,234	0	80,170	0	0	152,404	
Total Funding Sources	0	0	77,869	207,989	211,308	0	0	497,166	
Project Costs									
Design/ProjMgmt	0	0	77,869	8,426	11,942	0	0	98,237	
Const/Equip	0	0	0	199,563	199,366	0	0	398,929	
Total Project Costs	0	0	77,869	207,989	211,308	0	0	497,166	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

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	Revised	Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05

SPB Preservation - Fairfield

Area: CC
Objective(s): Repair/Maint

Project Description

Preservation project in the South Park Blocks area- Fairfield.

Funding Sources

Tax Increment Financing	0	0	1,059,031	0	0	0	0	1,059,031
Total Funding Sources	0	0	1,059,031	0	0	0	0	1,059,031

Project Costs

Design/ProjMgmt	0	0	58,321	0	0	0	0	58,321
Const/Equip	0	0	1,000,710	0	0	0	0	1,000,710
Total Project Costs	0	0	1,059,031	0	0	0	0	1,059,031

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

SW Park Amphitheater Repair

Area: SW
Objective(s): Repair/Maint

Project Description

Tom McCall Waterfront Park Amphitheater repair.

Funding Sources

Fund Balance	0	17,000	0	0	0	0	0	0
Tax Increment Financing	0	0	384,766	0	0	0	0	384,766
Total Funding Sources	0	17,000	384,766	0	0	0	0	384,766

Project Costs

Design/ProjMgmt	0	2,000	18,609	0	0	0	0	18,609
Const/Equip	0	15,000	366,157	0	0	0	0	366,157
Total Project Costs	0	17,000	384,766	0	0	0	0	384,766

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

SWF Greenway Development

Area: SW
Objective(s): Expansion

Project Description

Construction of final phase of Waterfront Park at RiverPlace from SW Montgomery to Marquam Bridge.

Funding Sources

Tax Increment Financing	0	1,122,904	139,912	0	1,085,528	4,257	0	1,229,697
Bureau Revenues	1,146	0	0	0	0	0	0	0
Grants/Donations	0	342,957	0	0	0	0	0	0
Fund Balance	428,900	200,000	0	0	0	0	0	0
Total Funding Sources	430,046	1,665,861	139,912	0	1,085,528	4,257	0	1,229,697

Project Costs

Design/ProjMgmt	274,762	191,271	11,304	0	79,164	4,257	0	94,725
Const/Equip	3,286,271	1,474,590	128,608	0	1,006,364	0	0	1,134,972
Total Project Costs	3,561,033	1,665,861	139,912	0	1,085,528	4,257	0	1,229,697

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

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	Revised		Adopted	Capital Plan				5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Parking Development Program									
								Area:	CC
								Objective(s):	Expansion
Project Description									
Smart Park location management. Staff, design, capital assistance, and legal services.									
Funding Sources									
Fund Balance	0	1,822,033	0	1,299,437	0	0	74,041	1,373,478	
Others Financing	163,785	87,130	0	0	0	0	0	0	
Tax Increment Financing	0	0	761,951	0	264,585	158,834	0	1,185,370	
Total Funding Sources	163,785	1,909,163	761,951	1,299,437	264,585	158,834	74,041	2,558,848	
Project Costs									
Design/Proj/Mgmt	205,931	187,233	279,667	304,178	264,585	158,834	74,041	1,081,305	
Const/Equip	53,253	1,721,930	482,284	995,259	0	0	0	1,477,543	
Total Project Costs	259,184	1,909,163	761,951	1,299,437	264,585	158,834	74,041	2,558,848	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Preserv. Line/Credit - Jeff. West									
								Area:	CC
								Objective(s):	Expansion
Project Description									
Preservation housing acquisition of Jefferson West property in South Park Blocks.									
Funding Sources									
Bureau Revenues	0	0	0	0	1,500,000	0	0	1,500,000	
Tax Increment Financing	0	0	3,000,000	0	0	0	0	3,000,000	
Total Funding Sources	0	0	3,000,000	0	1,500,000	0	0	4,500,000	
Project Costs									
Planning	0	0	0	0	1,500,000	0	0	1,500,000	
Const/Equip	0	0	3,000,000	0	0	0	0	3,000,000	
Total Project Costs	0	0	3,000,000	0	1,500,000	0	0	4,500,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Preserv. Line/Credit Fairfield									
								Area:	CC
								Objective(s):	Expansion
Project Description									
Line of credit portion of Fairfield preservation housing acquisition in South Park Blocks.									
Funding Sources									
Bureau Revenues	0	0	0	0	750,000	0	0	750,000	
Tax Increment Financing	0	0	430,000	0	0	0	0	430,000	
Total Funding Sources	0	0	430,000	0	750,000	0	0	1,180,000	
Project Costs									
Planning	0	0	0	0	750,000	0	0	750,000	
Const/Equip	0	0	430,000	0	0	0	0	430,000	
Total Project Costs	0	0	430,000	0	750,000	0	0	1,180,000	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

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	Revised		Adopted		Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
RD Land Acquisition									
Area:									CC
Objective(s):									Expansion
Project Description									
Funds to acquire key waterfront properties pursuant to the River District Development Plan.									
Funding Sources									
Bureau Revenues	0	0	42,032	1,170,875	1,224,944	0	0	2,437,851	
Tax Increment Financing	0	0	0	0	0	1,302,273	49,215	1,351,488	
Total Funding Sources	0	0	42,032	1,170,875	1,224,944	1,302,273	49,215	3,789,339	
Project Costs									
Design/ProjMgmt	0	0	42,032	85,395	103,986	128,531	49,215	409,159	
Const/Equip	0	0	0	1,085,480	1,120,958	1,173,742	0	3,380,180	
Total Project Costs	0	0	42,032	1,170,875	1,224,944	1,302,273	49,215	3,789,339	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
RD Mounted Horse Relocation									
Area:									CC
Objective(s):									Replacement
Project Description									
Relocate Mounted Horse Patrol from the Union Station property to the Centennial Mills site.									
Funding Sources									
Tax Increment Financing	0	0	1,140,677	237,133	0	0	0	1,377,810	
Total Funding Sources	0	0	1,140,677	237,133	0	0	0	1,377,810	
Project Costs									
Design/ProjMgmt	0	0	104,535	25,893	0	0	0	130,428	
Const/Equip	0	0	1,036,142	211,240	0	0	0	1,247,382	
Total Project Costs	0	0	1,140,677	237,133	0	0	0	1,377,810	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
RD Terminal One									
Area:									CC
Objective(s):									Expansion
Project Description									
Acquisition and property management; pre-development work leading to offering for redevelopment.									
Funding Sources									
Bureau Revenues	0	0	52,530	175,842	0	133,766	0	362,138	
Fund Balance	0	0	0	0	0	250,826	0	250,826	
Tax Increment Financing	0	18,356	0	0	564,015	316,110	17,718	897,843	
Total Funding Sources	0	18,356	52,530	175,842	564,015	700,702	17,718	1,510,807	
Project Costs									
Design/ProjMgmt	0	18,356	9,434	68,448	43,269	64,039	17,718	202,908	
Const/Equip	0	0	43,096	107,394	520,746	636,663	0	1,307,899	
Total Project Costs	0	18,356	52,530	175,842	564,015	700,702	17,718	1,510,807	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

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Portland Development Commission

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
DT RD Parking Dev. Program								
Area:								CC
Project Description	Smart Park location management. Staff, design, and legal services.							
Funding Sources								
Tax Increment Financing	0	0	0	0	0	1,041,080	0	1,041,080
Fund Balance	0	0	0	0	1,136,036	180,245	629,597	1,945,878
Total Funding Sources	0	0	0	0	1,136,036	1,221,325	629,597	2,986,958
Project Costs								
Design/ProjMgmt	0	0	0	0	87,908	120,820	80,722	289,450
Const/Equip	0	0	0	0	1,048,128	1,100,505	548,875	2,697,508
Total Project Costs	0	0	0	0	1,136,036	1,221,325	629,597	2,986,958
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
Lloyd Transportation Improvements								
Area:								NE
Objective(s):								Repair/Maint
Project Description	Finance various transportation improvements in the Lloyd Target Area including streetscape improvements, street signal modifications and changes to existing street network to support area livability and business development.							
Funding Sources								
Fund Balance	0	0	0	0	0	0	233,870	233,870
Tax Increment Financing	0	0	1,516,096	1,507,423	2,579,624	1,076,178	852,942	7,532,263
Total Funding Sources	0	0	1,516,096	1,507,423	2,579,624	1,076,178	1,086,812	7,766,133
Project Costs								
Design/ProjMgmt	0	0	67,938	73,154	155,999	102,250	119,116	518,457
Const/Equip	0	0	1,448,158	1,434,269	2,423,625	973,928	967,696	7,247,676
Total Project Costs	0	0	1,516,096	1,507,423	2,579,624	1,076,178	1,086,812	7,766,133
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
Midtown Park Blocks Street Improvement								
Area:								CC
Objective(s):								Repair/Maint
Project Description	Completion of design guidelines and preliminary capital improvements for Midtown Park Blocks.							
Funding Sources								
Fund Balance	0	637,171	0	0	374	0	641	1,015
Tax Increment Financing	0	0	554,693	123,833	4,473	5,126	4,722	692,847
Total Funding Sources	0	637,171	554,693	123,833	4,847	5,126	5,363	693,862
Project Costs								
Design/ProjMgmt	20,659	96,045	53,182	24,428	4,847	5,126	5,363	92,946
Const/Equip	0	541,126	501,511	99,405	0	0	0	600,916
Total Project Costs	20,659	637,171	554,693	123,833	4,847	5,126	5,363	693,862
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

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	Revised		Adopted		Capital Plan			5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
MLK Sidewalks									
								Area:	NE
								Objective(s):	Repair/Maint
Project Description									
Incentives to encourage businesses to implement MLK Blvd. street improvements in conjunction with construction projects.									
Funding Sources									
Fund Balance	0	0	142,059	141,076	0	0	146,854	429,989	
Tax Increment Financing	0	48,606	0	0	142,397	145,999	0	288,396	
Total Funding Sources	0	48,606	142,059	141,076	142,397	145,999	146,854	718,385	
Project Costs									
Design/ProjMgmt	0	13,973	7,310	7,621	9,980	14,996	17,242	57,149	
Const/Equip	0	34,633	134,749	133,455	132,417	131,003	129,612	661,236	
Total Project Costs	0	48,606	142,059	141,076	142,397	145,999	146,854	718,385	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
N. Mac Bancroft Construction									
								Area:	SW
								Objective(s):	Expansion
Project Description									
Construction of Bancroft to Bond.									
Funding Sources									
Tax Increment Financing	0	0	0	0	0	659,295	0	659,295	
Total Funding Sources	0	0	0	0	0	659,295	0	659,295	
Project Costs									
Design/ProjMgmt	0	0	0	0	0	72,798	0	72,798	
Const/Equip	0	0	0	0	0	586,497	0	586,497	
Total Project Costs	0	0	0	0	0	659,295	0	659,295	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
N. Mac Bond Construction									
								Area:	SW
								Objective(s):	Expansion
Project Description									
Engineering and design for the first new north/south street to be constructed in North Macadam. FY 2000--'01 work will focus on engineering. Construction anticipated to begin in FY 2001--'02.									
Funding Sources									
Tax Increment Financing	0	0	253,382	4,622,417	211,210	0	0	5,087,009	
Total Funding Sources	0	0	253,382	4,622,417	211,210	0	0	5,087,009	
Project Costs									
Design/ProjMgmt	0	0	52,305	230,334	13,538	0	0	296,177	
Const/Equip	0	0	201,077	4,392,083	197,672	0	0	4,790,832	
Total Project Costs	0	0	253,382	4,622,417	211,210	0	0	5,087,009	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

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	Prior Years	Revised	Adopted	Capital Plan					5-Year Total
		FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
N. Mac Streetcar									
									Area: SW
									Objective(s): Expansion
Project Description									
Preliminary planning and engineering; funding strategies.									
Funding Sources									
Tax Increment Financing	0	0	12,994	13,145	134,809	449,080	1,409,998	2,020,026	
Total Funding Sources	0	0	12,994	13,145	134,809	449,080	1,409,998	2,020,026	
Project Costs									
Design/ProjMgmt	0	0	12,994	13,145	134,809	449,080	152,003	762,031	
Const/Equip	0	0	0	0	0	0	1,257,995	1,257,995	
Total Project Costs	0	0	12,994	13,145	134,809	449,080	1,409,998	2,020,026	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
N. Macadam Tram									
									Area: SW
									Objective(s): Expansion
Project Description									
Planning, design and construction of Marquam Hill Tram to OHSU.									
Funding Sources									
Tax Increment Financing	0	0	9,492	9,782	159,378	458,098	1,951,381	2,588,131	
Total Funding Sources	0	0	9,492	9,782	159,378	458,098	1,951,381	2,588,131	
Project Costs									
Design/ProjMgmt	0	0	9,492	9,782	159,378	67,708	209,456	455,816	
Const/Equip	0	0	0	0	0	390,390	1,741,925	2,132,315	
Total Project Costs	0	0	9,492	9,782	159,378	458,098	1,951,381	2,588,131	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
OHS Area Streetscape									
									Area: CC
									Objective(s): Replacement
Project Description									
Pedestrian improvements related to future redevelopment of Oregon Historical Society (OHS) area into mixed use facility.									
Funding Sources									
Fund Balance	0	0	0	595,417	0	0	0	595,417	
Total Funding Sources	0	0	0	595,417	0	0	0	595,417	
Project Costs									
Design/ProjMgmt	0	0	0	33,916	0	0	0	33,916	
Const/Equip	0	0	0	561,501	0	0	0	561,501	
Total Project Costs	0	0	0	595,417	0	0	0	595,417	
Fund Level Costs	0	0	0	0	0	0	0	0	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

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	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total
Old Town/CT Streetscape Impr.								
								Area: CC
								Objective(s): Repair/Maint
Project Description								
Design/construction of public improvements in Old Town/Chinatown to enhance cultural identity, following 1999 Chinatown Dev. Plan. Includes sidewalks, street trees, and redevelopment assistance to private properties.								
Funding Sources								
Bureau Revenues	0	100,000	0	0	565,066	1,673,724	1,042,190	3,280,980
Fund Balance	0	0	0	1,550,658	0	0	0	1,550,658
Tax Increment Financing	0	132,017	595,023	0	0	0	0	595,023
Total Funding Sources	0	232,017	595,023	1,550,658	565,066	1,673,724	1,042,190	5,426,661
Project Costs								
Planning	80,000	0	51,500	53,045	53,045	56,275	57,964	271,829
Design/ProjMgmt	8,120	42,962	46,648	106,636	57,534	154,414	122,311	487,543
Const/Equip	73,181	189,055	496,875	1,390,977	454,487	1,463,035	861,915	4,667,289
Total Project Costs	161,301	232,017	595,023	1,550,658	565,066	1,673,724	1,042,190	5,426,661
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
RD Public Site Improvement								
								Area: CC
								Objective(s): Expansion
Project Description								
City's share of streets, sidewalks, pedestrianways and Boardwalk associated with Hoyt Street Properties' development.								
Funding Sources								
Tax Increment Financing	0	0	708,680	724,620	1,379,857	277,270	286,386	3,376,813
Total Funding Sources	0	0	708,680	724,620	1,379,857	277,270	286,386	3,376,813
Project Costs								
Design/ProjMgmt	0	0	86,926	90,859	225,610	57,877	63,098	524,370
Const/Equip	0	0	621,754	633,761	1,154,247	219,393	223,288	2,852,443
Total Project Costs	0	0	708,680	724,620	1,379,857	277,270	286,386	3,376,813
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
River Distr - Public Site Improvement								
								Area: CC
								Objective(s): Expansion
Project Description								
City's share of streets, sidewalks, pedestrianways and Boardwalk associated with Hoyt Street Properties' development.								
Funding Sources								
Tax Increment Financing	0	0	0	0	0	4,644	0	4,644
General Fund Discretionary	167,337	0	0	0	0	0	0	0
Bureau Revenues	6,348	0	0	0	3,438	0	0	3,438
Fund Balance	3,000,653	3,843,042	706,362	667,218	0	0	6,651	1,380,231
Total Funding Sources	3,174,338	3,843,042	706,362	667,218	3,438	4,644	6,651	1,388,313
Project Costs								
Design/ProjMgmt	116,155	239,474	34,392	34,546	3,438	4,644	6,651	83,671
Const/Equip	495,041	3,603,568	671,970	632,672	0	0	0	1,304,642
Total Project Costs	611,196	3,843,042	706,362	667,218	3,438	4,644	6,651	1,388,313
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Community Development
Portland Development Commission

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Streetcar Streetscape Improvements								
								Area: CC
								Objective(s): Expansion
Project Description								
Architectural/engineering/planning and construction for Central City streetcar and related streetscape improvements along 10th/11th Ave.								
Funding Sources								
Bureau Revenues	0	15,282	0	0	0	0	0	0
Fund Balance	134,678	7,613,822	0	1,354,598	0	0	5,817	1,360,415
Tax Increment Financing	0	307,341	1,095,601	0	1,055,219	5,559	0	2,156,379
Total Funding Sources	134,678	7,936,445	1,095,601	1,354,598	1,055,219	5,559	5,817	3,516,794
Project Costs								
Design/ProjMgmt	163,671	441,990	113,025	82,186	73,009	5,559	5,817	279,596
Const/Equip	0	7,494,455	982,576	1,272,412	982,210	0	0	3,237,198
Total Project Costs	163,671	7,936,445	1,095,601	1,354,598	1,055,219	5,559	5,817	3,516,794
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
SWF Harrison St Extension								
								Area: CC
								Objective(s): Expansion
Project Description								
Design and engineering of extension of SW Harrison from Front Avenue to Moody.								
Funding Sources								
Bureau Revenues	0	48,216	0	1,699,231	0	0	0	1,699,231
Fund Balance	0	10,604	0	0	0	0	0	0
Tax Increment Financing	0	0	476,919	978,398	0	0	0	1,455,317
Total Funding Sources	0	58,820	476,919	2,677,629	0	0	0	3,154,548
Project Costs								
Design/ProjMgmt	17,938	31,915	73,714	186,183	0	0	0	259,897
Const/Equip	5,820	26,905	403,205	2,491,446	0	0	0	2,894,651
Total Project Costs	23,758	58,820	476,919	2,677,629	0	0	0	3,154,548
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0
SWF Public Parking Development								
								Area: CC
								Objective(s): Expansion
Project Description								
Negotiation of long-term lease with Oregon Department of Transportation for use of Marquam Bridge Right of Way for visitor parking. Undertake environmental investigation, project design and engineering.								
Funding Sources								
Bureau Revenues	0	374,669	0	0	0	0	0	0
Fund Balance	0	4,585	0	0	0	0	0	0
Tax Increment Financing	0	0	341,617	0	0	0	0	341,617
Total Funding Sources	0	379,254	341,617	0	0	0	0	341,617
Project Costs								
Planning	0	0	279,051	0	0	0	0	279,051
Design/ProjMgmt	1,215	29,866	62,566	0	0	0	0	62,566
Const/Equip	0	349,388	0	0	0	0	0	0
Total Project Costs	1,215	379,254	341,617	0	0	0	0	341,617
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Community Development
Portland Development Commission

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

SWF River Parkway Realignment

Area: CC
Objective(s): Replacement

Project Description

Construction of SW River Parkway from Moody to Marquam Bridge.

Funding Sources

Tax Increment Financing	0	0	540,264	0	0	0	0	540,264
Bureau Revenues	0	362,462	0	0	0	0	0	0
Fund Balance	0	46,946	1,082,496	0	0	0	0	1,082,496
Total Funding Sources	0	409,408	1,622,760	0	0	0	0	1,622,760

Project Costs

Design/ProjMgmt	5,447	36,563	80,359	0	0	0	0	80,359
Const/Equip	0	372,845	1,542,401	0	0	0	0	1,542,401
Total Project Costs	5,447	409,408	1,622,760	0	0	0	0	1,622,760

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Parking Facilities

10th and Yamhill - Derust/Repaint Steel Decking

Area: CC

Objective(s): Repair/Maint

Project Description

The steel decks, top two floors, of the 10th and Yamhill parking garage show rusting and deterioration. The benefits to this project include maintaining the structural integrity of the parking garage and reducing the likelihood of further damage. This project will derust, preserve and repaint the steel decks (top two floors) of the 10th and Yamhill parking garage in FY 2002-03. The existing paint coating must be replaced to preserve the steel strength and appearance. Concrete sealer will be applied to the top surface to reduce water penetration.

Funding Sources

Others Financing

Total Funding Sources	0	0	0	0	207,000	0	0	207,000
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Project Costs

Design/ProjMgmt	0	0	0	0	34,000	0	0	34,000
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Const/Equip	0	0	0	0	173,000	0	0	173,000
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Total Project Costs	0	0	0	0	207,000	0	0	207,000
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Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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10th and Yamhill - Elevator Upgrade/Exhaust/Finishes

Area: CC

Objective(s): Repair/Maint

Project Description

This project will improve the appearance and functionality of the Smart Park garage elevator cab interiors. The garage elevators are heavily used and there is a high incidence of vandalism requiring regular, periodic renovation. The cab interiors will have flooring, ceiling, lighting, and exhaust fans replaced. Wall surfaces will either be refurbished or replaced, as needed. All elevator floor buttons, indicator lights, and emergency phones will be updated.

Funding Sources

Others Financing	0	0	55,000	0	0	0	0	55,000
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Total Funding Sources	0	0	55,000	0	0	0	0	55,000
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Project Costs

Design/ProjMgmt	0	0	9,000	0	0	0	0	9,000
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Const/Equip	0	0	46,000	0	0	0	0	46,000
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Total Project Costs	0	0	55,000	0	0	0	0	55,000
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Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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10th and Yamhill - HVAC Controls Change

Area: CC

Objective(s): Repair/Maint

Project Description

The pneumatic HVAC controls system is at the end of its lifecycle and requires frequent repair. This project will replace existing controls and VAV boxes. The benefits are reliable HVAC service and reduced costly repairs. This project will replace controls with DDC system as well as individual zone VAV boxes with modern technology.

Funding Sources

Others Financing	0	0	221,000	0	0	0	0	221,000
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Total Funding Sources	0	0	221,000	0	0	0	0	221,000
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Project Costs

Design/ProjMgmt	0	0	37,000	0	0	0	0	37,000
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Const/Equip	0	0	184,000	0	0	0	0	184,000
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Total Project Costs	0	0	221,000	0	0	0	0	221,000
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Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

10th and Yamhill - Replace HVAC Chiller

Area: CC
Objective(s): Repair/Maint
 Efficiency

Project Description

The HVAC chiller at 10th and Yamhill is nearing the end of its service life and requires frequent repair. This project will provide reliable chilled water for retail tenant spaces and reduce maintenance costs. This project will replace the existing HVAC chiller in 2001-2002.

Funding Sources

Others Financing	0	0	0	110,000	0	0	0	110,000
Total Funding Sources	0	0	0	110,000	0	0	0	110,000

Project Costs

Design/ProjMgmt	0	0	0	18,000	0	0	0	18,000
Const/Equip	0	0	0	92,000	0	0	0	92,000
Total Project Costs	0	0	0	110,000	0	0	0	110,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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10th and Yamhill - Replace/Repair 2nd Floor Deck Coating

Area: CC
Objective(s): Repair/Maint

Project Description

The second floor of the 10th and Yamhill parking garage gets the most traffic of any portion of the garage, because all vehicles pass through it; it is also the ceiling for ground floor retail businesses. As a result, the deck must be re-coated on a regular schedule to prevent water from seeping into the tenant spaces on the first floor and from damaging the structural components of the parking garage. The benefits to this project include maintaining the structural and waterproof integrity of the parking garage and reducing the likelihood of water leaking into the retail tenant spaces located on the 1st floor. Without this work being done on a regular schedule, the deck will begin leaking and deteriorate the concrete and some of the reinforcement rods. This project will replace and repair portions of the 2nd floor deck coating at the 10th and Yamhill parking garage in FY 2004-05. The coating will seal and waterproof the deck.

Funding Sources

Others Financing	0	97,000	0	0	0	0	40,000	40,000
Total Funding Sources	0	97,000	0	0	0	0	40,000	40,000

Project Costs

Design/ProjMgmt	0	16,000	0	0	0	0	7,000	7,000
Const/Equip	0	81,000	0	0	0	0	33,000	33,000
Total Project Costs	0	97,000	0	0	0	0	40,000	40,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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10th and Yamhill - Security Fencing

Area: CC
Objective(s): Repair/Maint

Project Description

The 10th and Yamhill Garage is subject to a good deal of vandalism. It is an open system garage with little way to keep individuals from trespassing on the premises and doing damage or, worse, injuring themselves or others. A decorative, security fencing system that has scanning devices to read parking tickets and release locked gates only to those individuals who need to get to their cars would greatly reduce the opportunity for trespassing and vandalism. This system is one effective way the current garage configuration could handle its vandalism and safety problems. The project would be a series of decorative fences with one way gates that would only allow re-entry by scanning a parking patron's ticket and then releasing a locked gate. This project has been placed in FY 2004-2005 because PDC is currently re-examining the garage's design and future role. Should the facility remain in its current configuration, this fencing will be the remedy used to deter trespassing.

Funding Sources

Others Financing	0	0	0	0	0	0	207,000	207,000
Total Funding Sources	0	0	0	0	0	0	207,000	207,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	34,000	34,000
Const/Equip	0	0	0	0	0	0	173,000	173,000
Total Project Costs	0	0	0	0	0	0	207,000	207,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

10th and Yamhill - Waterproof/Seal Stairwells

Area: CC
Objective(s): Repair/Maint

Project Description

An on-going problem for the 10th and Yamhill garage has been the continued use of the garage's stairwells as bathroom facilities. The odor and staining is offensive to paying parking patrons. The porous concrete adds to the difficulty of keeping the stairwells clean and, even though the stairwells are power washed on a regular schedule, the problem lingers. By sealing these porous surfaces, cleaning staff will be more successful in removing odor and stains. A concrete sealer and waterproofing will be applied on all stairwell surfaces up to a height of three feet to seal against contamination and soil.

Funding Sources

Others Financing	0	0	48,000	0	0	0	0	48,000
Total Funding Sources	0	0	48,000	0	0	0	0	48,000

Project Costs

Design/ProjMgmt	0	0	8,000	0	0	0	0	8,000
Const/Equip	0	0	40,000	0	0	0	0	40,000
Total Project Costs	0	0	48,000	0	0	0	0	48,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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10th and Yamhill - West End Garage

Area: CC
Objective(s): Expansion

Project Description

Development activity at the west end of the central city is being stimulated by the construction of the streetcar project, the possibility of Nordstrom's expansion, and the re-vitalization of the Galleria. Coupled with the closing of 120 surface parking spaces on Block 5 to make way for park block expansion, demand for parking in this area is growing. The Portland Development Commission is exploring options which include additions to the existing 10th and Yamhill garage or the development of underground, robotic parking to the east of the 10th and Yamhill garage. Demand is anticipated to call for up to 500 new parking spaces.

Funding Sources

Revenue Bonds	0	0	0	0	10,000,000	0	0	10,000,000
Total Funding Sources	0	0	0	0	10,000,000	0	0	10,000,000

Project Costs

Planning	0	0	0	0	0	0	0	0
Design/ProjMgmt	0	0	0	0	1,667,000	0	0	1,667,000
Const/Equip	0	0	0	0	8,333,000	0	0	8,333,000
Total Project Costs	0	0	0	0	10,000,000	0	0	10,000,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	723,200	723,200	1,446,400
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1st and Jefferson - 3rd Floor Deck Coating

Area: CC
Objective(s): Repair/Maint

Project Description

This floor of the parking garage gets the most traffic of any portion of the garage, because all vehicles pass through it; it is also the ceiling for ground floor retail businesses. As a result, the deck must be re-coated on a regular schedule to prevent water from seeping into the tenant spaces on the second floor and from damaging the structural components of the parking garage. The benefits to this project include maintaining the structural and waterproof integrity of the 1st and Jefferson parking garage and reducing the likelihood of water leaking into the tenant spaces located on the 2nd floor. This project will replace and repair portions of the 3rd floor deck coating at the 1st and Jefferson parking garage in FY 2002-03. Without this work being done on a regular schedule, the deck will begin leaking and deteriorate the concrete and some of the reinforcement rods. The leaking of the water through the deck may cause damage to the occupied tenant spaces below.

Funding Sources

Others Financing	0	0	0	0	83,000	0	0	83,000
Total Funding Sources	0	0	0	0	83,000	0	0	83,000

Project Costs

Design/ProjMgmt	0	0	0	0	14,000	0	0	14,000
Const/Equip	0	0	0	0	69,000	0	0	69,000
Total Project Costs	0	0	0	0	83,000	0	0	83,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

1st and Jefferson - Elevator Upgrade/Exhaust Finishes

Area: CC
Objective(s): Repair/Maint

Project Description

This project will improve the appearance and functionality of the Smart Park garage elevator cab interiors. The garage elevators are heavily used and there is a high incidence of vandalism requiring regular, periodic renovation. The cab interiors will have flooring, ceiling, lighting, and exhaust fans replaced. Wall surfaces will either be refurbished or replaced, as needed. All elevator floor buttons, indicator lights, and emergency phones will be updated. The project will be done in FY 2000-2001 and then be on a five year frequency schedule.

Funding Sources

Others Financing	0	0	28,000	0	0	0	0	28,000
Total Funding Sources	0	0	28,000	0	0	0	0	28,000

Project Costs

Design/ProjMgmt	0	0	5,000	0	0	0	0	5,000
Const/Equip	0	0	23,000	0	0	0	0	23,000
Total Project Costs	0	0	28,000	0	0	0	0	28,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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1st and Jefferson - Wayfinding/Painting/Graphics Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

This project will remove the existing paint and graphics in parking garages and replace it with a consistent system-wide graphics package for all garages over a two to four year period. This project will provide improved wayfinding for customers, interior marketing for garages, and a lighter, more friendly appearance for customers.

Funding Sources

Others Financing	0	0	407,000	0	0	0	0	407,000
Total Funding Sources	0	0	407,000	0	0	0	0	407,000

Project Costs

Design/ProjMgmt	0	0	68,000	0	0	0	0	68,000
Const/Equip	0	0	339,000	0	0	0	0	339,000
Total Project Costs	0	0	407,000	0	0	0	0	407,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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3rd and Alder - Replace/Repair Level 2 Deck Coating

Area: CC
Objective(s): Repair/Maint

Project Description

This project will replace and repair portions of the 2nd floor deck coating at the 3rd and Alder parking garage in FY 2003-04. Without this work being done on a regular schedule, the deck will begin leaking and deteriorate the concrete and some of the reinforcement rods. The coating will seal and waterproof the deck.

Funding Sources

Others Financing	0	110,000	0	0	0	39,000	0	39,000
Total Funding Sources	0	110,000	0	0	0	39,000	0	39,000

Project Costs

Design/ProjMgmt	0	18,000	0	0	0	7,000	0	7,000
Const/Equip	0	92,000	0	0	0	32,000	0	32,000
Total Project Costs	0	110,000	0	0	0	39,000	0	39,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

4th and Yamhill - Second Floor Deck Coating

Area: CC
Objective(s): Repair/Maint

Project Description

This project will recoat the second floors of the Fourth and Yamhill parking facility. The second floor of a parking garage gets the most traffic of any portion of the garage, because it is used by the most people. As a result, the deck must be recoated on a regular schedule to prevent water from seeping into the tenant spaces on the first floor and from damaging the structural components of the parking garage.

Funding Sources

Others Financing	0	0	0	0	0	0	83,000	83,000
Total Funding Sources	0	0	0	0	0	0	83,000	83,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	14,000	14,000
Const/Equip	0	0	0	0	0	0	69,000	69,000
Total Project Costs	0	0	0	0	0	0	83,000	83,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

4th and Yamhill - Upgrade Elevator Cab/Exhaust/Finishes

Area: CC
Objective(s): Repair/Maint

Project Description

The cab interiors will have flooring, ceiling, lighting, and exhaust fans replaced. Wall surfaces will either be refurbished or replaced, as needed. All elevator floor buttons, indicator lights, and emergency phones will be updated.

Funding Sources

Others Financing	0	0	41,000	0	0	0	41,000	82,000
Total Funding Sources	0	0	41,000	0	0	0	41,000	82,000

Project Costs

Design/ProjMgmt	0	0	6,000	0	0	0	6,000	12,000
Const/Equip	0	0	35,000	0	0	0	35,000	70,000
Total Project Costs	0	0	41,000	0	0	0	41,000	82,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

4th and Yamhill - Wayfinding/Painting/Graphics Upgrade

Area: CC
Objective(s): Repair/Maint
 Replacement

Project Description

The first two garages to receive these improvements are the 10th and Yamhill Garage and the 3rd and Alder Garage slated to be completed by the end of FY 1999-2000. The 1st and Jefferson will be the third garage to have this upgrade in FY 2000-2001. The 4th and Yamhill Garage is a relatively new facility and is programmed to have this upgrade in FY 2004-2005. Floors will be color-coded by painting surfaces and by correspondingly colored directional signage. Brighter and whiter lighting will be installed to enhance appearance and provide better safety.

Funding Sources

Others Financing	0	0	0	0	0	0	297,000	297,000
Total Funding Sources	0	0	0	0	0	0	297,000	297,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	49,000	49,000
Const/Equip	0	0	0	0	0	0	248,000	248,000
Total Project Costs	0	0	0	0	0	0	297,000	297,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Naito and Davis - 2nd Floor Deck Coating

Area: CC
Objective(s): Repair/Maint

Project Description

This project will replace and repair portions of the 2nd floor deck coating at the Naito and Davis parking garage in FY 2003-04. Without this work being done on a regular schedule, the deck will begin leaking and deteriorate the concrete and some of the reinforcement rods. The coating will seal and waterproof the deck.

Funding Sources

Others Financing	0	0	0	0	0	110,000	0	110,000
Total Funding Sources	0	0	0	0	0	110,000	0	110,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	18,000	0	18,000
Const/Equip	0	0	0	0	0	92,000	0	92,000
Total Project Costs	0	0	0	0	0	110,000	0	110,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Naito and Davis - Clean/Seal Exterior Brick Surfaces

Area: CC
Objective(s): Repair/Maint

Project Description

This project is part of a scheduled program to keep garage exteriors presentable and to protect surfaces and structural components from weather related deterioration. Each of the exteriors of the parking garages is on a ten-year schedule for exterior upkeep. Surfaces are cleaned, brickwork is sealed, and painted surfaces re-painted. This project addresses the brick surfaces at the Naito and Davis Garage and is scheduled for FY 2004-2005.

Funding Sources

Others Financing	0	0	0	0	0	0	37,000	37,000
Total Funding Sources	0	0	0	0	0	0	37,000	37,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	6,000	6,000
Const/Equip	0	0	0	0	0	0	31,000	31,000
Total Project Costs	0	0	0	0	0	0	37,000	37,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Naito and Davis - Elevator Seismic and Cab Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

This project will improve the appearance and functionality of the Smart Park garage elevator cab interiors. The garage elevators are heavily used and there is a high incidence of vandalism requiring regular, periodic renovation. The cab interiors will have flooring, ceiling, lighting, and exhaust fans replaced. Wall surfaces will either be refurbished or replaced, as needed. All elevator floor buttons, indicator lights, and emergency phones will be updated.

Funding Sources

Others Financing	0	97,000	0	0	0	55,000	0	55,000
Total Funding Sources	0	97,000	0	0	0	55,000	0	55,000

Project Costs

Design/ProjMgmt	0	16,000	0	0	0	9,000	0	9,000
Const/Equip	0	81,000	0	0	0	46,000	0	46,000
Total Project Costs	0	97,000	0	0	0	55,000	0	55,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Naito and Davis - Paint Interior/Exterior Surfaces

Area: CC
Objective(s): Repair/Maint

Project Description

This project is part of a scheduled program to keep garage surfaces presentable and to protect surfaces and structural components from wear and tear and weather related deterioration. This project is part of a ten-year upkeep schedule for each of the Smart Park garages. The project will address the painted surfaces, both exterior and interior, of the garage. Surfaces will be cleaned, repaired, sealed, and painted. The project will coincide with the brick cleaning and sealing and is scheduled for FY 2004-2005.

Funding Sources

Others Financing	0	0	0	0	0	0	46,000	46,000
Total Funding Sources	0	0	0	0	0	0	46,000	46,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	0	7,000	7,000
Const/Equip	0	0	0	0	0	0	39,000	39,000
Total Project Costs	0	0	0	0	0	0	46,000	46,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Costs

0	0	0	0	0	0	0	0	0
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Naito and Davis - Structural Assessment & Stairwell Repair

Area: CC
Objective(s): Repair/Maint
 Efficiency

Project Description

Cracks in structural members have developed in this structure. A structural assessment will ensure public safety and provide recommendations for corrective actions if necessary. The walls of the three stairwells at the Naito and Davis parking garage are made of a stucco material over concrete masonry units (CMU). The stucco is next to the concrete structure of the parking garage, and since both are effected differently by changes in temperature and humidity, hence the stucco is starting to crack and pull away from the underlying structure. In addition, the steel pan concrete stairs are badly corroded and require cleaning, preservation and painting. This project will first provide an engineering assessment of the current problem (FY 2000-01) and best methods to repair the cracks and rebuild the CMU and stucco walls of the stairwells at the Naito and Davis parking garage with work to be accomplished in FY 2001-02. The stair steel risers and concrete pans will be cleaned, preserved and painted.

Funding Sources

Others Financing	0	27,500	82,500	0	0	0	0	82,500
Total Funding Sources	0	27,500	82,500	0	0	0	0	82,500

Project Costs

Design/ProjMgmt	0	4,000	13,000	0	0	0	0	13,000
Const/Equip	0	23,500	69,500	0	0	0	0	69,500
Total Project Costs	0	27,500	82,500	0	0	0	0	82,500

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Coats

0	0	0	0	0	0	0	0	0
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Naito and Davis - Upgrade Elevator Controls

Area: CC
Objective(s): Repair/Maint
 Efficiency

Project Description

The existing elevator control system is aging and proprietary as technology has evolved to the place where replacement parts are no longer available. A new non-proprietary system used in all other Smart Park garages will standardize controls making components easier to work on and to replace. This project will replace the existing iOtis elevator control system with a new non-proprietary iMCE elevator control system.

Funding Sources

Others Financing	0	0	0	134,000	0	0	0	134,000
Total Funding Sources	0	0	0	134,000	0	0	0	134,000

Project Costs

Design/ProjMgmt	0	0	0	22,000	0	0	0	22,000
Const/Equip	0	0	0	112,000	0	0	0	112,000
Total Project Costs	0	0	0	134,000	0	0	0	134,000

Fund Level Costs

0	0	0	0	0	0	0	0	0
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Oper & Maint Coats

0	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

North Macadam Garage

Area: CC
Objective(s): Expansion

Project Description

The North Macadam Plan was recently adopted by City Council. The Portland Development Commission has now entered into discussions with developers of retail and other destination attractors. As development occurs the street parking in the area will feel the pressure and off-street parking will be needed to fulfill parking demand. The development of the North Macadam area will stimulate the need to develop up to 300 off-street, short-term parking spaces over the next five years.

Funding Sources

Revenue Bonds	0	0	0	10,000,000	0	0	0	10,000,000
Total Funding Sources	0	0	0	10,000,000	0	0	0	10,000,000

Project Costs

Design/ProjMgmt	0	0	0	1,667,000	0	0	0	1,667,000
Const/Equip	0	0	0	8,333,000	0	0	0	8,333,000
Total Project Costs	0	0	0	10,000,000	0	0	0	10,000,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	617,400	617,400	617,400	1,852,200

O'Bryant Square - Cleaning and Painting

Area: CC
Objective(s): Repair/Maint

Project Description

Cracks in structural members and upper deck have developed in this structure. The ceiling is dark, with evidence of water leaking and corrosion. The clean up of the garage will improve the Smart Park City image and make the space more hospitable and welcoming. The work will be coordinated with the associated waterproofing and structural assessment. This overall garage effort consists of waterproofing, and a test solution to determine the best methods to repaint and improve the appearance of the garage interior. Most of the work will be accomplished in FY 2000-01.

Funding Sources

Others Financing	0	41,500	124,500	0	0	0	0	124,500
Total Funding Sources	0	41,500	124,500	0	0	0	0	124,500

Project Costs

Design/ProjMgmt	0	7,000	21,000	0	0	0	0	21,000
Const/Equip	0	34,500	103,500	0	0	0	0	103,500
Total Project Costs	0	41,500	124,500	0	0	0	0	124,500

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

O'Bryant Square - Waterproofing and Structural Assessment

Area: CC
Objective(s): Repair/Maint

Project Description

Cracks in structural members and upper deck have developed in this structure. A structural assessment will ensure public safety and provide recommendations for corrective actions if necessary. Leaks need to be controlled to reduce concrete and reinforcement deterioration. Leaks need to be controlled to reduce possibility of damage to parked cars. This project will provide an engineering assessment of the current problem and best methods to repair the cracks and seal the leaks. The existing galvanized steel pans will be replaced or cleaned, preserved and painted.

Funding Sources

Others Financing	0	41,500	124,500	0	0	0	0	124,500
Total Funding Sources	0	41,500	124,500	0	0	0	0	124,500

Project Costs

Design/ProjMgmt	0	7,000	21,000	0	0	0	0	21,000
Const/Equip	0	34,500	103,500	0	0	0	0	103,500
Total Project Costs	0	41,500	124,500	0	0	0	0	124,500

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Transportation and Parking
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Portland State University Project

Area: CC
Objective(s): Expansion

Project Description

Portland State University's continued growth and expansion of its boundaries, particularly to the east towards BGS's Development Services Building, is acting as a catalyst for other development partnerships. PSU and the City have been in discussions about the opportunities to develop mixed-use space to include office space, classrooms, and housing. These uses require parking support as part of a successful project formula. The magnitude of the project under discussion anticipates off-street parking in the range of 120 spaces as part of a mixed-use project.

Funding Sources

Revenue Bonds	0	0	0	0	0	3,000,000	0	3,000,000
Total Funding Sources	0	0	0	0	0	3,000,000	0	3,000,000

Project Costs

Design/ProjMgmt	0	0	0	0	0	500,000	0	500,000
Const/Equip	0	0	0	0	0	2,500,000	0	2,500,000
Total Project Costs	0	0	0	0	0	3,000,000	0	3,000,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	248,700	248,700
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System Wide - Advanced Parking Information System Study

Area: CC
Objective(s): Expansion

Project Description

This project will fund a feasibility study to determine the need for an Advanced Parking Information System in Portland. The system includes electronic signs that would be placed at all major entrances to downtown, such as 13th and Market, Morrison and Hawthorne bridgeheads, etc. Each participating garage's computer would inform these master signs of the capacity available in the garage, which the signs would then display. They would also show a "Full" when the garage is at or near capacity. In addition, there would be individual signs directing motorists to the most efficient route to garages with available capacity.

Funding Sources

Others Financing	0	0	56,000	0	0	0	0	56,000
Total Funding Sources	0	0	56,000	0	0	0	0	56,000

Project Costs

Design/ProjMgmt	0	0	56,000	0	0	0	0	56,000
Const/Equip	0	0	0	0	0	0	0	0
Total Project Costs	0	0	56,000	0	0	0	0	56,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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System Wide - Ticket Validation & Credit Card Payment System

Area: CC
Objective(s): Efficiency

Project Description

The ticket validation portion of the system is a software addition to current revenue control equipment that will electronically sort, tabulate and invoice businesses for those validated tickets turned in by patrons. The credit card payment system is a software program linked to either attendant cash registers or to remote card swipe hardware allowing payment by credit card rather than cash. The program is to be phased in over three years.

Funding Sources

Others Financing	0	54,000	54,000	54,000	0	0	0	108,000
Total Funding Sources	0	54,000	54,000	54,000	0	0	0	108,000

Project Costs

Design/ProjMgmt	0	9,000	9,000	9,000	0	0	0	18,000
Const/Equip	0	45,000	45,000	45,000	0	0	0	90,000
Total Project Costs	0	54,000	54,000	54,000	0	0	0	108,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking

Office of Transportation

	Revised	Adopted	Capital Plan				
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

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This heading row has been added intentionally as a temporary placeholder.

Centers and Main Streets Program

102nd/Cherry Blossom, NE/SE

Area: SE
Objective(s): Expansion

Project Description

Plan and implement bicycle lanes from gateway on 102nd street, on cherry blossom drive, then on 111th and 112th streets to create north-south bikeway from gateway south to the springwater corridor.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	100,000	0	0	100,000
Total Funding Sources	0	0	0	0	100,000	0	0	100,000

Project Costs

Planning	0	0	0	0	20,000	0	0	20,000
Design/ProjMgmt	0	0	0	0	20,000	0	0	20,000
Const/Equip	0	0	0	0	60,000	0	0	60,000
Total Project Costs	0	0	0	0	100,000	0	0	100,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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14th/16 Avenues: Burnside to Vaughn, NW

Area: NW
Objective(s): Replacement

Project Description

Analysis of the operation of NW 14th & 16th to determine if changes can be made to signalization and access to I-405, and both north and south ends of this corridor to take non-local traffic around the NW district.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	50,000	0	0	50,000
Total Funding Sources	0	0	0	0	50,000	0	0	50,000

Project Costs

Planning	0	0	0	0	50,000	0	0	50,000
Total Project Costs	0	0	0	0	50,000	0	0	50,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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35th: Luradel-Dickinson, SW

Area: SW
Objective(s): Replacement

Project Description

Design and construct median islands at three intersections and construct sidewalk along east side. 35th is a wide collector with inadequate gaps during peak hours. Improvements will create adequate gaps for children walking to Jackson middle school.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
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Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Transportation and Parking
Office of Transportation

PROJECT DETAIL

Revised Adopted Capital Plan
 Prior Years FY 1999-00 FY 2000-01 FY 2001-02 FY 2002-03 FY 2003-04 FY 2004-05 5-Year Total

This heading row has been added intentionally as a temporary placeholder.

B-H Hwy: Capitol-60th Avenue, SW

Area: SW
Objective(s): Replacement

Project Description

Project will design and engineer pedestrian walkway improvements for baverton-hillsdale hwy between capitol hwy and 60th st, sw. Construction will be funded by posting and by the city walkway partnership fund.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	0	0	0	0
Total Funding Sources	0	0	0	0	0	0	0	0

Project Costs

Total Project Costs	0	0	0	0	0	0	0	0
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Barbur Blvd: 19th Avenue-Alice, SW

Area: SW
Objective(s): Expansion

Project Description

This project will include sidewalks and trees, improve and provide safe pedestrian crossings, enhance transit access and stop locations, provide connections to key attractions and adjacent neighborhoods, maintain existing bicycle lanes, and improve the corridor's visual character through landscape and streetscape improvements.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	250,000	1,690,000	0	1,940,000
Total Funding Sources	0	0	0	0	250,000	1,690,000	0	1,940,000

Project Costs

Planning	0	0	0	0	250,000	0	0	250,000
Design/ProjMgmt	0	0	0	0	0	500,000	0	500,000
Const/Equip	0	0	0	0	0	1,190,000	0	1,190,000
Total Project Costs	0	0	0	0	250,000	1,690,000	0	1,940,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Bertha Bike Lanes, SW

Area: SW
Objective(s): Expansion

Project Description

Design and implement bike lanes on missing piece of sw bertha boulevard. Project involves shoulder widening, possible structure modification.

Funding Sources

Unfunded Out-Years (Future2..10)	0	0	0	0	40,000	360,000	0	400,000
Total Funding Sources	0	0	0	0	40,000	360,000	0	400,000

Project Costs

Planning	0	0	0	0	4,000	0	0	4,000
Design/ProjMgmt	0	0	0	0	36,000	7,200	0	43,200
Const/Equip	0	0	0	0	0	352,800	0	352,800
Total Project Costs	0	0	0	0	40,000	360,000	0	400,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Transportation and Parking
Office of Transportation

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

This heading row has been added intentionally as a temporary placeholder.

Bond Avenue, SW

Area: SW

Objective(s): Expansion

Project Description

SW Bond Ave from River Parkway to Bancroft is the primary north-south mobility street in the new North Macadam Neighborhood.

Funding Sources

Intergovernmental	0	0	250,000	750,000	575,000	0	0	1,575,000
Total Funding Sources	0	0	250,000	750,000	575,000	0	0	1,575,000

Project Costs

Planning	0	0	250,000	0	0	0	0	250,000
Design/ProjMgmt	0	0	0	750,000	0	0	0	750,000
Const/Equip	0	0	0	0	575,000	0	0	575,000
Total Project Costs	0	0	250,000	750,000	575,000	0	0	1,575,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Broadway-Weidler III Grand-10TH, NE

Area: NE

Objective(s): Replacement



Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

1900 Building

Building Main Lobby Furniture & Exterior Fixtures

Area: CC
Objective(s): Expansion

Project Description

The original construction project did not include a provision for seating in the Plaza Level lobby or the placement of other furnishings and fixtures including exterior terrace seating, and flower planters around the building. Seating would allow customer waiting for various services in the building to have a place to sit in the lobby. Galvanized tables and seating for the exterior second level terrace would allow the public to utilize the terrace more effectively when used as breakout space for the Conference Center. Planters around the building would provide for an attractive appearance to the building.

Funding Sources

Bureau Revenues

Total Funding Sources	0	0	35,000	0	0	35,000	0	70,000
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Project Costs

Design/ProjMgmt	0	0	4,000	0	0	4,000	0	8,000
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Const/Equip	0	0	29,000	0	0	29,000	0	58,000
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Total Project Costs	0	0	33,000	0	0	33,000	0	66,000
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Fund Level Costs	0	0	2,000	0	0	2,000	0	4,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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City Downtown Space Requirements

13th Floor Remodel - Bureau of Purchases

Area: CC
Objective(s): Repair/Maint

Project Description

Renovation of the Purchases area will consist of temporarily relocating employees to either the 3rd floor or perhaps the 14th floor depending upon timing. The area (approximately 5,000 S.F. will then be totally demolished and rebuilt to current standards of open office landscaping and consistent, thematic materials. Changes include all new office furniture systems, new ceilings, new carpets, repainting, restructured telecommunications and data systems and any construction of hard walls necessary to support the Bureau's mission. Once complete, employees will be moved back into the completed space.

Funding Sources

General Fund Discretionary	0	0	0	262,000	0	0	0	262,000
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Total Funding Sources	0	0	0	262,000	0	0	0	262,000
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Project Costs

Design/ProjMgmt	0	0	0	22,000	0	0	0	22,000
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Const/Equip	0	0	0	205,000	0	0	0	205,000
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Total Project Costs	0	0	0	227,000	0	0	0	227,000
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Fund Level Costs	0	0	0	35,000	0	0	0	35,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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City Hall

Carpet Replacement

Area: CC
Objective(s): Repair/Maint

Project Description

Carpet replacement will be of a like material to the original renovation product. All carpeted offices, conference, and meeting rooms will be replaced. Like the original renovation product, the carpet selected will be a manufactured product containing re-cycled materials.

Funding Sources

Bureau Revenues	0	0	0	0	0	294,000	0	294,000
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Total Funding Sources	0	0	0	0	0	294,000	0	294,000
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Project Costs

Design/ProjMgmt	0	0	0	0	0	32,000	0	32,000
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Const/Equip	0	0	0	0	0	245,000	0	245,000
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Total Project Costs	0	0	0	0	0	277,000	0	277,000
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Fund Level Costs	0	0	0	0	0	17,000	0	17,000
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Oper & Maint Costs	0	0	0	0	0	0	0	0
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	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Exterior Maintenance

Area: CC
Objective(s): Repair/Maint

Project Description

Sandstone does not re-act well to sealing so must be carefully cleaned on a regular basis. Special equipment and products safe for historic sandstone will be used to remove stains and dirt accumulated over the five-year period.

Funding Sources

Bureau Revenues	0	0	0	0	166,000	0	0	166,000
Total Funding Sources	0	0	0	0	166,000	0	0	166,000

Project Costs

Design/ProjMgmt	0	0	0	0	18,000	0	0	18,000
Const/Equip	0	0	0	0	138,000	0	0	138,000
Total Project Costs	0	0	0	0	156,000	0	0	156,000
Fund Level Costs	0	0	0	0	10,000	0	0	10,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Fourth Avenue Plaza Improvements

Area: CC
Objective(s): Repair/Maint

Project Description

The project would hire a landscape architect to work with staff to develop options for improving the use of the plaza, the aesthetic appeal and to reinforce it as a pedestrian friendly zone. Elements may include benches (either freestanding or built-in), planters for shrubs and annuals, waste receptacles, and pathways around the rose border and to the new Keeston Lowery Garden. The proposed design would go through Design Review approval, and would be built during the 2001 CIP year.

Funding Sources

Bureau Revenues	0	0	165,000	0	0	0	0	165,000
Total Funding Sources	0	0	165,000	0	0	0	0	165,000

Project Costs

Design/ProjMgmt	0	0	17,000	0	0	0	0	17,000
Const/Equip	0	0	138,000	0	0	0	0	138,000
Total Project Costs	0	0	155,000	0	0	0	0	155,000
Fund Level Costs	0	0	10,000	0	0	0	0	10,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Interior Painting

Area: CC
Objective(s): Repair/Maint

Project Description

All walls will be inspected for repair. Walls will then be prepared and re-painted replicating the historical colors selected during the renovation process.

Funding Sources

Bureau Revenues	0	0	0	0	331,000	0	0	331,000
Total Funding Sources	0	0	0	0	331,000	0	0	331,000

Project Costs

Design/ProjMgmt	0	0	0	0	36,000	0	0	36,000
Const/Equip	0	0	0	0	276,000	0	0	276,000
Total Project Costs	0	0	0	0	312,000	0	0	312,000
Fund Level Costs	0	0	0	0	19,000	0	0	19,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Security Camera/Monitor Enhancements

Area: CC
Objective(s): Repair/Maint

Project Description

City Hall security deficiencies will be greatly reduced, or eliminated, by modifying existing and adding new CCTV cameras, monitors, and recording equipment, which will increase the safety of building occupants and visitors. This project will relocate and improve some existing CCTV cameras, add a new camera and some monitors, and upgrade the computer control system for better monitoring and recording.

Funding Sources

Bureau Revenues	0	0	21,000	0	0	0	0	21,000
Total Funding Sources	0	0	21,000	0	0	0	0	21,000

Project Costs

Design/ProjMgmt	0	0	3,000	0	0	0	0	3,000
Const/Equip	0	0	17,000	0	0	0	0	17,000
Total Project Costs	0	0	20,000	0	0	0	0	20,000

Fund Level Costs

	0	0	1,000	0	0	0	0	1,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Communications Services

Automated Receiver Testing System

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

Installation of a PC, custom software, SmartZone radio and ancillary hardware. In the current configuration, it requires several technicians and travel time to investigate suspected receiver problems at remote sites. This CIP would provide the ability to test from the prime site.

Funding Sources

Bureau Revenues	0	0	0	40,000	0	0	0	40,000
Total Funding Sources	0	0	0	40,000	0	0	0	40,000

Project Costs

Design/ProjMgmt	0	0	0	8,000	0	0	0	8,000
Const/Equip	0	0	0	32,000	0	0	0	32,000
Total Project Costs	0	0	0	40,000	0	0	0	40,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Council Crest Generator Upgrade

Area: SW
Objective(s): Replacement

Project Description

This project will replace the present Council Crest generator with a larger generator, including changes to electrical system, which will enable all active devices and environmental control systems to operate simultaneously.

Funding Sources

Bureau Revenues	0	250,000	0	0	0	0	0	0
Total Funding Sources	0	250,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	0	50,000	0	0	0	0	0	0
Const/Equip	0	200,000	0	0	0	0	0	0
Total Project Costs	0	250,000	0	0	0	0	0	0

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Council Crest Tower Cable Removal, Hangar Installation

Area: SW
Objective(s): Repair/Maint

Project Description

Over 40 years there has been a considerable amount of change to the tower requirements. As requirements changed, new cables were strung, and the old left in place. This large bundle of unused/used cables is starting to slip down the cable supports. Removal of abandoned cables. New vertical cable supports and stainless steel snap-in hangers. Replacement of ice damaged cables.

Funding Sources

Bureau Revenues	0	50,000	0	350,000	0	0	0	350,000
Total Funding Sources	0	50,000	0	350,000	0	0	0	350,000

Project Costs

Design/ProjMgmt	0	50,000	0	40,000	0	0	0	40,000
Const/Equip	0	0	0	310,000	0	0	0	310,000
Total Project Costs	0	50,000	0	350,000	0	0	0	350,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Digital Voting Monitoring System

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

Installation of a PC and ancillary monitoring equipment. This equipment will greatly simplify the testing and troubleshooting of the digital voting comparators.

Funding Sources

Bureau Revenues	0	0	0	50,000	0	0	0	50,000
Total Funding Sources	0	0	0	50,000	0	0	0	50,000

Project Costs

Design/ProjMgmt	0	0	0	12,000	0	0	0	12,000
Const/Equip	0	0	0	38,000	0	0	0	38,000
Total Project Costs	0	0	0	50,000	0	0	0	50,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Disaster Recovery Plan

Area: NE
Objective(s): Efficiency

Project Description

This project will create the written document for the Disaster Recovery of all mission critical 800 MHz systems and sites. This document will include active and passive single point failures, list of spare equipment, trunking on wheels design, vendor lists, yearly purchase orders with equipment on standby and other items to recover the system after a large scale disaster.

Funding Sources

Bureau Revenues	0	50,000	0	0	0	0	0	0
Total Funding Sources	0	50,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	0	10,000	0	0	0	0	0	0
Const/Equip	0	40,000	0	0	0	0	0	0
Total Project Costs	0	50,000	0	0	0	0	0	0

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	
Dixie Mountain IR Site								
								Area: N
								Objective(s): Expansion Efficiency
Project Description								
Construction of a 5 channel IR system and 1 channel RD-LAP base station.								
Funding Sources								
Revenue Bonds	0	0	0	0	500,000	0	0	500,000
Total Funding Sources	0	0	0	0	500,000	0	0	500,000
Project Costs								
Design/ProjMgmt	0	0	0	0	100,000	0	0	100,000
Const/Equip	0	0	0	0	400,000	0	0	400,000
Total Project Costs	0	0	0	0	500,000	0	0	500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	20,500	20,500	20,500	61,500
Downtown Simulcast Site								
								Area: CC
								Objective(s): Expansion
Project Description								
Construction of a 28-channel simulcast system and 1 channel RD-LAP base station. The addition of this site will provide improved coverage in the downtown area. Coverage using portable radios especially inside buildings downtown would be greatly increased.								
Funding Sources								
Revenue Bonds	0	0	0	0	2,000,000	0	0	2,000,000
Total Funding Sources	0	0	0	0	2,000,000	0	0	2,000,000
Project Costs								
Design/ProjMgmt	0	0	0	0	200,000	0	0	200,000
Const/Equip	0	0	0	0	1,800,000	0	0	1,800,000
Total Project Costs	0	0	0	0	2,000,000	0	0	2,000,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	38,000	38,000	38,000	114,000
Future Hardware & Software, Prime Site, Control One and Eng.								
								Area: ALL
								Objective(s): Repair/Maint Efficiency
Project Description								
Software and hardware to replace or enhance 800 MHz Prime Site, Control One and Engineering systems. This CIP would cover software additions or enhancements that are not covered by a Motorola Software Subscription Agreement. In addition to software, it will be used to replace and augment existing monitoring and alarming equipment.								
Funding Sources								
Bureau Revenues	0	0	0	200,000	100,000	100,000	100,000	500,000
Total Funding Sources	0	0	0	200,000	100,000	100,000	100,000	500,000
Project Costs								
Design/ProjMgmt	0	0	0	40,000	20,000	20,000	20,000	100,000
Const/Equip	0	0	0	160,000	80,000	80,000	80,000	400,000
Total Project Costs	0	0	0	200,000	100,000	100,000	100,000	500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Integrated Regional Network Enterprise

Area: CC
Objective(s): Expansion
 Efficiency

Project Description

This project will design and construct a City of Portland wide area network (WAN) which will serve as a replacement and augmentation to the conventional circuit-based networking strategies currently in place in many bureaus. This integrated and seamless technology will improve the efficiency of City communications by replacing many of the single bureau systems currently being used. The wide area network will be a high capacity communications network providing voice, video, and data transmission. The WAN is envisioned as a network architecture that will employ many state-of-the-art communications technologies, including fiber optics, wireless data systems, and fast-packet protocols.

Funding Sources

Fund Balance	151,800	395,886	100,000	0	0	0	0	100,000
Grants/Donations	0	142,500	95,000	0	0	0	0	95,000
Revenue Bonds	0	0	8,018,000	0	0	0	0	8,018,000
Total Funding Sources	151,800	538,386	8,213,000	0	0	0	0	8,213,000

Project Costs

Design/ProjMgmt	121,800	0	190,000	0	0	0	0	190,000
Const/Equip	30,000	538,386	8,023,000	0	0	0	0	8,023,000
Total Project Costs	151,800	538,386	8,213,000	0	0	0	0	8,213,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	492,000	595,000	241,000	101,000	(56,000)	1,373,000
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IR Sites Generator Upgrade

Area: ALL
Objective(s): Repair/Maint

Project Description

This project will purchase and install new generators at the Walters Hill & Cornelius Pass IR sites. This will provide us with emergency backup power, allowing the IR sites to function properly to support public safety communications during extended PGE power outages.

Funding Sources

Bureau Revenues	0	45,000	0	0	0	0	0	0
Total Funding Sources	0	45,000	0	0	0	0	0	0

Project Costs

Design/ProjMgmt	0	9,000	0	0	0	0	0	0
Const/Equip	0	36,000	0	0	0	0	0	0
Total Project Costs	0	45,000	0	0	0	0	0	0

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Microwave T-1 Overbuild for T-1 Landline Sites

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

Installation of digital microwave radios between the DS-3 microwave loop and the Prime Site.

Funding Sources

Revenue Bonds	0	0	0	0	1,000,000	0	0	1,000,000
Total Funding Sources	0	0	0	0	1,000,000	0	0	1,000,000

Project Costs

Design/ProjMgmt	0	0	0	0	160,000	0	0	160,000
Const/Equip	0	0	0	0	840,000	0	0	840,000
Total Project Costs	0	0	0	0	1,000,000	0	0	1,000,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

Miscellaneous IR site Channel Expansion

Area: ALL
Objective(s): Expansion

Project Description

Installation of one or more Quantar repeaters at one of the 9 IR sites. This would increase capacity at IR sites to keep up with customer usage and growth. This CIP would not add capacity at Simulcast locations.

Funding Sources

Bureau Revenues	0	0	0	100,000	50,000	50,000	50,000	250,000
Total Funding Sources	0	0	0	100,000	50,000	50,000	50,000	250,000

Project Costs

Design/ProjMgmt	0	0	0	10,000	5,000	5,000	5,000	25,000
Const/Equip	0	0	0	90,000	45,000	45,000	45,000	225,000
Total Project Costs	0	0	0	100,000	50,000	50,000	50,000	250,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Network Management Console

Area: ALL
Objective(s): Repair/Maint Efficiency

Project Description

The installation of a Motorola FULL VISION network management system and ancillary hardware. This will allow proactive management of data system components. It will allow engineering and technical staff to diagnose potential problems before they become service affecting.

Funding Sources

Bureau Revenues	0	0	0	200,000	0	0	0	200,000
Total Funding Sources	0	0	0	200,000	0	0	0	200,000

Project Costs

Design/ProjMgmt	0	0	0	40,000	0	0	0	40,000
Const/Equip	0	0	0	160,000	0	0	0	160,000
Total Project Costs	0	0	0	200,000	0	0	0	200,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Portable/Backup Trunking on Wheels

Area: ALL
Objective(s): Efficiency

Project Description

Installation of a 5 channel IR site, 1 channel MDT base station, Central Electronics Bank, desktop consoles, point-to-point microwave system, VSAT system, channel banks, codex, FXO/FXS telephone cards, DSU data cards, routers, hubs, HF/VHF/UHF control stations, portable radios, portable tower, rack chargers, secure transmission equipment, cables, batteries, electrical systems and a multi-line PBX telephone system in a self contained air conditioned Wells Cargo trailer. TOW = Trunking on Wheels.

Funding Sources

Bureau Revenues	0	0	0	400,000	0	0	0	400,000
Total Funding Sources	0	0	0	400,000	0	0	0	400,000

Project Costs

Design/ProjMgmt	0	0	0	80,000	0	0	0	80,000
Const/Equip	0	0	0	320,000	0	0	0	320,000
Total Project Costs	0	0	0	400,000	0	0	0	400,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					
Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total	

Prunehill Simulcast Site

Area: ALL
Objective(s): Expansion
 Efficiency

Project Description

Construction of a 28-channel simulcast system and 1 channel RD-LAP base station. The addition of this site will provide improved coverage in the NE Portland area. This area has been part of the system design since the beginning. The area that will be covered by this site has been identified as a area of less than desired coverage.

Funding Sources

Bureau Revenues	15,600	100,000	0	0	0	0	0	0
Revenue Bonds	0	0	0	0	3,000,000	0	0	3,000,000
Total Funding Sources	15,600	100,000	0	0	3,000,000	0	0	3,000,000

Project Costs

Design/ProjMgmt	15,600	100,000	0	0	200,000	0	0	200,000
Const/Equip	0	0	0	0	2,800,000	0	0	2,800,000
Total Project Costs	15,600	100,000	0	0	3,000,000	0	0	3,000,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	38,000	38,000	38,000	114,000
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Quantro to Quantar Upgrade at Biddle Butte & Goat M

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

This CIP would retrofit/upgrade existing based stations at listed locations to bring them up to the current standard at the remaining sites. This also reduces the needed rack space for each basestation, which will reduce the site rental charges at Goat Mountain. Replace the power amplifiers, power supplies, other modules and the addition of a cabinet. Add EPIC cards.

Funding Sources

Bureau Revenues	0	0	0	75,000	0	0	0	75,000
Total Funding Sources	0	0	0	75,000	0	0	0	75,000

Project Costs

Design/ProjMgmt	0	0	0	15,000	0	0	0	15,000
Const/Equip	0	0	0	60,000	0	0	0	60,000
Total Project Costs	0	0	0	75,000	0	0	0	75,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Radio Site Networking Project

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

: Installation of DSU's, routers, PC and other ancillary equipment. This would give the staff access to all the resources needed while maintaining or repairing the system.

Funding Sources

Bureau Revenues	0	0	0	175,000	0	0	0	175,000
Total Funding Sources	0	0	0	175,000	0	0	0	175,000

Project Costs

Design/ProjMgmt	0	0	0	30,000	0	0	0	30,000
Const/Equip	0	0	0	145,000	0	0	0	145,000
Total Project Costs	0	0	0	175,000	0	0	0	175,000

Fund Level Costs

	0	0	0	0	0	0	0	0
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

RD-LAP Data-Tac 2 Upgrade

Area: ALL
Objective(s): Repair/Maint
 Efficiency

Project Description

The installation of a gateway server, routers, firmware, software and other ancillary equipment to upgrade the existing system. Does not include Network Management. This CIP would provide end users with access to applications and data that more closely resembles their desktop environment. The addition of this equipment will enable us to attract more public works mobile data users.

Funding Sources

Bureau Revenues	0	0	0	500,000	0	0	0	500,000
Total Funding Sources	0	0	0	500,000	0	0	0	500,000

Project Costs

Design/ProjMgmt	0	0	0	100,000	0	0	0	100,000
Const/Equip	0	0	0	400,000	0	0	0	400,000
Total Project Costs	0	0	0	500,000	0	0	0	500,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Simulcast Expansion

Area: ALL
Objective(s): Expansion

Project Description

The addition of 800 MHz base stations at Council Crest, Prune Hill, Lookout Point, Mount Scott and Willalatin Tank. For each radio frequency channel added to the simulcast system, one base station and ancillary hardware is required. This CIP would only add capacity at Simulcast locations.

Funding Sources

Bureau Revenues	0	75,000	0	625,000	312,500	312,500	312,500	1,562,500
Total Funding Sources	0	75,000	0	625,000	312,500	312,500	312,500	1,562,500

Project Costs

Design/ProjMgmt	0	15,000	0	30,000	15,000	15,000	15,000	75,000
Const/Equip	0	60,000	0	595,000	297,500	297,500	297,500	1,487,500
Total Project Costs	0	75,000	0	625,000	312,500	312,500	312,500	1,562,500
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	0	0	0	0

Portland Building

2nd Floor Meeting Rooms Upgrade

Area: CC
Objective(s): Repair/Maint

Project Description

This project will increase the utility of meeting rooms A and B on the second floor of the Portland Building by enlarging one, improving air, lighting, and sound quality in both, and providing necessary maintenance for both rooms. In addition, large cracks in the meeting room lobby walls will be repaired and the condition that causes them will be corrected.

Funding Sources

Bureau Revenues	0	0	0	0	500,000	0	0	500,000
Total Funding Sources	0	0	0	0	500,000	0	0	500,000

Project Costs

Design/ProjMgmt	0	0	0	0	73,000	0	0	73,000
Const/Equip	0	0	0	0	399,000	0	0	399,000
Total Project Costs	0	0	0	0	472,000	0	0	472,000
Fund Level Costs	0	0	0	0	28,000	0	0	28,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan					5-Year Total
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	

3rd Floor Remodel

Area: CC
Objective(s): Efficiency

Project Description

Approximately 7,000 square feet of vacant space exists on the third floor as a result of the Bureau of Information Technology move to the fourth floor. The space requires remodeling to attract either a new tenant or to provide for a storage facility that can be leased to multiple tenants. Remove existing office walls, install new ceiling tiles, carpet, lighting fixtures, and paint walls.

Funding Sources

Bureau Revenues	0	0	150,000	0	0	0	0	150,000
Total Funding Sources	0	0	150,000	0	0	0	0	150,000

Project Costs

Design/ProjMgmt	0	0	16,000	0	0	0	0	16,000
Const/Equip	0	0	125,000	0	0	0	0	125,000
Total Project Costs	0	0	141,000	0	0	0	0	141,000
Fund Level Costs	0	0	9,000	0	0	0	0	9,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Access Card System

Area: CC
Objective(s): Efficiency

Project Description

This project will install an access card system in the Portland Building. The system includes computerized disks, which are assigned to each employee and contractor, and door access controls at the first floor entrance and at the main entrance of all 15 floors. The disks are programmed to only allow the employee or contractor access to the areas they have been previously authorized. This system will permit employees access to the building and their offices without using keys, saving key replacement costs and changing locks. It also will continually track movement in the building which can be viewed on screens at the first floor Security Desk.

Funding Sources

Bureau Revenues	0	0	0	153,000	0	0	0	153,000
Total Funding Sources	0	0	0	153,000	0	0	0	153,000

Project Costs

Design/ProjMgmt	0	0	0	17,000	0	0	0	17,000
Const/Equip	0	0	0	127,000	0	0	0	127,000
Total Project Costs	0	0	0	144,000	0	0	0	144,000
Fund Level Costs	0	0	0	9,000	0	0	0	9,000
Oper & Maint Costs	0	0	0	0	0	0	0	0

Electrical System Expansion

Area: CC
Objective(s): Replacement

Project Description

An in-depth study of the electrical system of the Portland Building has revealed that the building does not have enough circuits for all of the appliances which it must now serve, and also the electrical distribution system does not have the capacity to serve this increased load. This project will provide a new electrical system including transformers and electrical panels on the building's floors to increase the capacity to serve tenant requirements.

Funding Sources

Bureau Revenues	0	0	75,000	0	80,000	620,000	620,000	1,395,000
Total Funding Sources	0	0	75,000	0	80,000	620,000	620,000	1,395,000

Project Costs

Design/ProjMgmt	0	0	30,500	0	9,000	71,000	71,000	181,500
Const/Equip	0	0	41,000	0	70,000	540,000	540,000	1,191,000
Total Project Costs	0	0	71,500	0	79,000	611,000	611,000	1,372,500
Fund Level Costs	0	0	3,500	0	1,000	9,000	9,000	22,500
Oper & Maint Costs	0	0	0	0	0	0	0	0

Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total

Elevator Lobby (Firs 3, 5, 6, and 13)

Area: CC

Objective(s): Repair/Maint

Project Description

The elevator lobbies on floors 3, 5, 6, and 13 have not been upgraded to the new building standard. The lobbies on floors 4, 7, 8, 9, 10, 11, and 12 have been upgraded to the new standards as a result of the extensive remodeling that has occurred on each of those floors. The intent of the elevator lobby upgrade is to provide a uniform and pleasing aesthetic that brings the entire building up to the level of finish consistent with the completed floors. The floors of the six (6) elevator cabs will be upgraded from the current carpet to terrazzo floor material to provide for easier cleaning and maintenance, and for a consistent appearance with the elevator lobby upgrades. The new standard provides for improved lighting, upgraded floor materials, new wall panels, wall paint, improved acoustic ceiling material, and emergency equipment.

Funding Sources

Bureau Revenues	0	0	221,000	0	0	0	0	221,000
Total Funding Sources	0	0	221,000	0	0	0	0	221,000

Project Costs

Design/ProjMgmt	0	0	33,000	0	0	0	0	33,000
Const/Equip	0	0	176,000	0	0	0	0	176,000
Total Project Costs	0	0	209,000	0	0	0	0	209,000

Fund Level Costs

	0	0	12,000	0	0	0	0	12,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Fire Alarm Panel Replacement

Area: CC

Objective(s): Repair/Maint
Replacement

Project Description

The existing Fire Alarm Panel is not capable of selective control. To disable an area for construction or testing, the entire building must be disabled. Ideally, only individual zones would be turned OFF during construction or system testing. The new panel will include the capability to address specific sensors, and thereby, provide very specific information in the event of an alarm. This project will replace the existing panel and existing sub-panels in order to provide an addressable zone system.

Funding Sources

Bureau Revenues	0	0	132,000	0	0	0	0	132,000
Total Funding Sources	0	0	132,000	0	0	0	0	132,000

Project Costs

Design/ProjMgmt	0	0	37,000	0	0	0	0	37,000
Const/Equip	0	0	89,000	0	0	0	0	89,000
Total Project Costs	0	0	126,000	0	0	0	0	126,000

Fund Level Costs

	0	0	6,000	0	0	0	0	6,000
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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HVAC Improvements

Area: CC

Objective(s): Repair/Maint

Project Description

This project will evaluate and redesign the HVAC system to increase the Portland Building's internal air quality and system effectiveness for current and anticipated future conditions. The Portland building HVAC system was designed to maximize energy conservation by keeping fresh air inputs to a minimum. Current ASHRAE standards call for increased fresh air inputs to address the changing office environment. The increase in the use of personal computers and other office equipment produces a heat load the current system was not designed to handle. This project will enhance the Portland Building's internal air quality and increase the system's effectiveness.

Funding Sources

Bureau Revenues	0	0	50,000	320,000	370,000	370,000	0	1,110,000
Total Funding Sources	0	0	50,000	320,000	370,000	370,000	0	1,110,000

Project Costs

Design/ProjMgmt	0	0	5,500	35,000	41,000	41,000	0	122,500
Const/Equip	0	0	41,000	267,000	308,000	308,000	0	924,000
Total Project Costs	0	0	46,500	302,000	349,000	349,000	0	1,046,500

Fund Level Costs

	0	0	3,500	18,000	21,000	21,000	0	63,500
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Oper & Maint Costs

	0	0	0	0	0	0	0	0
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Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised		Adopted		Capital Plan			5-Year Total	
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05		
Main Roof Replacement									
								Area:	CC
								Objective(s):	Replacement
Project Description									
This project will replace the main roof of the Portland Building with an appropriate roofing system. The main roof of The Portland Building needs to be replaced. As it nears the end of its useful life of 15 years, patching this roof will not be an effective method of keeping water out of the tenant spaces below.									
Funding Sources									
Bureau Revenues	0	0	440,702	0	0	0	0	440,702	
Total Funding Sources	0	0	440,702	0	0	0	0	440,702	
Project Costs									
Design/ProjMgmt	0	0	93,702	0	0	0	0	93,702	
Const/Equip	0	0	324,000	0	0	0	0	324,000	
Total Project Costs	0	0	417,702	0	0	0	0	417,702	
Fund Level Costs	0	0	23,000	0	0	0	0	23,000	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Restroom Refurbishment									
								Area:	CC
								Objective(s):	Repair/Maint
Project Description									
The Portland Building restrooms have not been refurbished since the construction of the building. The restroom will be refurbished to reflect the upgrade of finishes on each floor, offering a more pleasing environment and appearance than presently exists. Install new counter-tops and sinks, re-paint walls, install new privacy screens and towel dispensers, wrap drain pipes under sinks, and upgrade the lighting.									
Funding Sources									
Bureau Revenues	0	0	0	150,000	300,000	300,000	300,000	1,050,000	
Total Funding Sources	0	0	0	150,000	300,000	300,000	300,000	1,050,000	
Project Costs									
Design/ProjMgmt	0	0	0	22,000	44,000	44,000	44,000	154,000	
Const/Equip	0	0	0	120,000	239,000	239,000	239,000	837,000	
Total Project Costs	0	0	0	142,000	283,000	283,000	283,000	991,000	
Fund Level Costs	0	0	0	8,000	17,000	17,000	17,000	59,000	
Oper & Maint Costs	0	0	0	0	0	0	0	0	
Signing and Wayfinding									
								Area:	CC
								Objective(s):	Repair/Maint Efficiency
Project Description									
Provide new signing and wayfinding signage in the building. The old signage was removed with the remodel projects on each floor. The new signage will provide standardization of all building signs to make it easier to find offices within the building and to upgrade the overall appearance of signage throughout the building. Provide for design and programming of directional and wayfinding signage for all exterior and interior public areas. Provide sign standards for tenants to use within tenant spaces. Purchase and install new signs in public spaces.									
Funding Sources									
Bureau Revenues	0	0	100,000	0	0	0	0	100,000	
Total Funding Sources	0	0	100,000	0	0	0	0	100,000	
Project Costs									
Design/ProjMgmt	0	0	11,000	0	0	0	0	11,000	
Const/Equip	0	0	83,000	0	0	0	0	83,000	
Total Project Costs	0	0	94,000	0	0	0	0	94,000	
Fund Level Costs	0	0	6,000	0	0	0	0	6,000	
Oper & Maint Costs	0	0	0	0	0	0	0	0	

Capital Improvement Plan — Legislative, Administrative & Support Svcs
Bureau of General Services

PROJECT DETAIL

	Revised	Adopted	Capital Plan				
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05

Vehicle Services

Kerby Garage - Replace Roof

Area: CC
Objective(s): Replacement

Project Description

The roof at the Kerby Garage is aging and has been leaking for several years. Repairs have been made as leaks have been discovered, however it is now time to replace the roof to stop leaks and prevent collateral damage to the sub roof and support structure. The roof has been assessed by a consultant and revealed several weak components including saturated roofing insulation. The mechanical equipment has been found to contain intrusive water leaks that effect air quality and therefore should be replaced as part of the re-roof project. The roof smoke hatches are no longer functioning and also require replacement. This project will replace the roof and related components on the Kerby Garage in FY 2000-01.

Funding Sources

Bureau Revenues	0	0	667,000	0	0	0	0	667,000
Total Funding Sources	0	0	667,000	0	0	0	0	667,000

Project Costs

Design/ProjMgmt	0	0	111,000	0	0	0	0	111,000
Const/Equip	0	0	556,000	0	0	0	0	556,000
Total Project Costs	0	0	667,000	0	0	0	0	667,000

Fund Level Costs

Fund Level Costs	0	0	0	0	0	0	0	0
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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Powell Garage - Replace Roof

Area: SE
Objective(a): Replacement

Project Description

This project will replace the roof on Powell Garage in FY 2002-03. The roof at the Power Garage is still serviceable but beginning to show signs of aging. It makes sense to continue to monitor the roof condition, repair as necessary, and schedule a roof replacement for FY 2002-03.

Funding Sources

Bureau Revenues	0	0	0	0	46,000	0	0	46,000
Total Funding Sources	0	0	0	0	46,000	0	0	46,000

Project Costs

Design/ProjMgmt	0	0	0	0	5,000	0	0	5,000
Const/Equip	0	0	0	0	38,000	0	0	38,000
Total Project Costs	0	0	0	0	43,000	0	0	43,000

Fund Level Costs

Fund Level Costs	0	0	0	0	3,000	0	0	3,000
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Oper & Maint Costs

Oper & Maint Costs	0	0	0	0	0	0	0	0
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	Revised		Adopted		Capital Plan			
	Prior Years	FY 1999-00	FY 2000-01	FY 2001-02	FY 2002-03	FY 2003-04	FY 2004-05	5-Year Total
Administration								
Records Management System (E-Files)								
Project Description								
The City Enterprise Records Management System (E-Files) is a two-year CIP project to create an integrated computer system for management of all City records in electronic and non-electronic form.								
Funding Sources								
General Fund Discretionary	0	0	205,000	95,000	0	0	0	300,000
Total Funding Sources	0	0	205,000	95,000	0	0	0	300,000
Project Costs								
Const/Equip	0	0	205,000	95,000	0	0	0	300,000
Total Project Costs	0	0	205,000	95,000	0	0	0	300,000
Fund Level Costs	0	0	0	0	0	0	0	0
Oper & Maint Costs	0	0	0	0	15,000	15,000	15,000	45,000

Area: N/A
Objective(s): Efficiency