

city of forest grove

**ADOPTED
CAPITAL**

IMPROVEMENTS

PROGRAM

2010 - 2015

CAPITAL IMPROVEMENTS PROGRAM

CITY OF FOREST GROVE

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May 2010

CITY OF FOREST GROVE

2010-2015 CAPITAL IMPROVEMENTS PROGRAM (CIP)

PURPOSE: To achieve two primary objectives:

Planning for public improvements and capital equipment. Coordination with the comprehensive plan will identify infrastructure and public facilities needed to meet the demands of the community. The City can plan for facility improvements and equipment needs on a long-term basis.

Identifying funding sources for public improvements and capital equipment. The CIP matches anticipated sources to high-priority projects. Therefore, the CIP helps highlight projects for which funding must be secured.

SCOPE: The Capital Improvements Program provides a five-year plan of public physical improvements and major equipment expenditures. The program is ongoing and revised annually as part of the budget process. Review and approval of the CIP is integrated with the annual budget process. The CIP is reviewed and approved every year by the Budget Committee and City Council. The planned expenditures for the coming fiscal year will be reviewed during the City's annual budget review process and may be subject to revision.

Capital improvements include maintenance, renovation, replacement, new construction or expansion of physical facilities requiring an expenditure of \$5,000 or more. This includes cost of land, engineering, architectural planning and contractual services.

The CIP also contains capital equipment expenditures of \$5,000 or more. This is equipment having a relatively long period of usefulness (i.e., over 3 years). Examples include fire engines and all city-owned vehicles.

PROGRAM DESCRIPTIONS: Projects within the Capital Improvements Program are broken into four categories. They include Utility and Transportation Projects; Public Safety Projects; Culture and Recreation Projects; and General Government Projects. These categories do not necessarily correspond to specific departments or funds in the City's annual budget. Each project in the CIP will be budgeted in the fund responsible for managing the project in the annual budget document.

Utility and Transportation Projects: The projects within this category are for constructing, maintaining and developing infrastructure relating to the City's utility and transportation functions. These functions include the provision and maintenance of streets, storm drainage, electrical

distribution, water services, and sewer services. Besides replacing existing infrastructure, projects within this program lay the foundation for future development of all types - residential, commercial and industrial. Some projects in this category play a supportive role to overall utility and transportation functions, such as equipment replacement, property acquisition and building rehabilitation.

Public Safety Projects: Projects within this category are for providing capital equipment and facilities for public safety services. These include law enforcement, crime prevention, fire prevention, fire suppression and emergency operations.

Culture and Recreation Projects: Projects within this category are for maintaining and developing cultural and recreational opportunities within the community through the Parks system, the Aquatic Center and the Library. Projects may include replacement of capital equipment and facilities to maintain existing service levels. This program would also include new equipment and facilities to expand and develop new opportunities to enrich the quality of life in the community.

General Government Projects: Projects within this category are for providing capital equipment and facilities to support the general operations of City government. This includes building construction, repair and maintenance outside of the areas listed above, as well as maintaining general parking facilities. Significant technological improvements are also included in this category, such as replacing software systems or advancing the architecture of the city computer network.

**UTILITY AND
TRANSPORTATION
PROJECTS**

UTILITY AND TRANSPORTATION PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
LP2	Substation Upgrades	15,000	52,000	0	755,000	0	822,000
LP4	Property Improvements & Office Building	340,000	0	0	0	0	340,000
LP8	L&P Vehicle Replacement Program	177,000	60,000	100,000	225,000	100,000	662,000
LP22	Distribution System Additions And Upgrades	145,000	25,000	25,000	25,000	25,000	245,000
	L&P TOTALS	677,000	137,000	125,000	1,005,000	125,000	2,069,000
EQ1	Equipment Replacement Program	315,000	380,500	464,000	121,500	162,000	1,443,000
	EQUIPMENT TOTALS	315,000	380,500	464,000	121,500	162,000	1,443,000
ST1	Gales Way (From "E" Street To 23rd Avenue)	0	0	0	0	456,720	456,720
ST3	23rd/24th Ave (Industrial Area)	0	0	0	0	1,324,660	1,324,660
ST5	19th Ave (Oak St. to Hwy 47)	0	330,000	0	0	0	330,000
ST10	David Hill Road	0	642,808	3,214,038	2,571,230	0	6,428,076
ST12	TV Hwy & Quince	0	0	0	0	4,900,000	4,900,000
ST15	19th Avenue Extension	0	0	0	0	7,100,000	7,100,000
ST17	Thatcher Road	0	0	0	3,626,136	0	3,626,136
ST19	Way Finding Signage	7,000	0	0	0	0	7,000
ST22	B Street North	0	0	0	0	6,068,623	6,068,623
ST30	Thatcher Park Tunnel	0	675,000	0	0	0	675,000
	STREET TOTALS	7,000	1,647,808	3,214,038	6,197,366	19,850,003	30,916,215
SW1	Replace / Rehabilitate Old Sewers	185,000	100,000	189,875	175,000	50,000	699,875
SW2	Sewer Oversizing Participation/SDC	50,000	50,000	50,000	50,000	50,000	250,000
SW3	CWS / City Phase III Sewer I&I Repair	94,004	94,004	94,004	94,004	94,004	470,022
SW4	Maple Street Capacity Expansion	0	0	0	0	600,000	600,000
SW7	Sunset Drive MSTIP/SDC	121,995	121,995	121,995	121,995	121,995	609,973
SW8	23rd/24th Avenue (Industrial Area)	0	0	0	0	278,960	278,960
SW9	Mountain View Sewer Line	0	0	0	0	600,000	600,000
SW10	A Street Capacity (A to 16th; 8" & 10" Lines)	0	590,000	0	0	0	590,000
SW11	Fir Road	0	0	0	0	420,000	420,000
	SEWER TOTALS	450,999	955,999	455,874	440,999	2,214,959	4,518,830
SWM2	Hawthorne Street Drainage	0	0	0	0	342,000	342,000
SWM6	23rd/24th Drainage Culvert	0	0	0	0	110,000	110,000
SWM7	Alyssum and Twinflower Drainage	0	0	0	0	135,000	135,000
SWM8	Bonnie and B Street Catch Basins	113,000	0	0	0	0	113,000
SWM9	Cedar Street Pump Station	0	0	0	360,000	0	360,000
SWM12	Beal Pond	0	26,000	0	0	0	26,000
SWM15	Basin 1 - Yew to 1st	0	0	128,000	0	0	128,000
SWM16	Basin 5 - 17th Ave & Hawthorne	0	0	134,000	0	0	134,000
	SWM TOTALS	113,000	26,000	262,000	360,000	587,000	1,348,000

UTILITY AND TRANSPORTATION PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
W1	Distribution Main Improvements	0	200,000	0	200,000	100,000	500,000
W2	Line Oversizing Participation	50,000	50,000	50,000	50,000	50,000	250,000
W3	FG WTP Improvements	10,000	10,000	10,000	10,000	10,000	50,000
W4	Watershed Road Improvements	20,000	20,000	20,000	20,000	20,000	100,000
W6	23rd/24th Ave (Industrial Area)	0	0	0	0	277,325	277,325
W8	Barney Buy-In	0	0	0	0	2,400,000	2,400,000
W9	JWC Fish Screen At Fern Hill Pump St	0	0	0	0	320,000	320,000
W10	JWC Treatment Pilot And Implementat	13,790	0	0	0	0	13,790
W11	JWC Water Rights Consult of Record	9,331	0	0	0	0	9,331
W14	JWC Raw Water Pipeline	10,000	100,000	100,000	100,000	100,000	410,000
W17	JWC On-Site Power Generation	63,318	333,333	0	0	0	396,651
W19	JWC Water Management/Conservation	2,000	0	0	0	0	2,000
W22	JWC Rapid Mix	0	0	0	0	48,648	48,648
W23	JWC Master Plan	0	0	0	0	28,138	28,138
W24	JWC Thickener	0	0	0	0	66,667	66,667
W25	JWC Clearwell	0	0	0	0	56,000	56,000
W26	JWC Short Term Corrective Measures	0	80,000	80,000	80,000	80,000	320,000
W27	JWC Fern Hill Chlorine Injection Sys	0	41,190	0	0	0	41,190
W28	JWC Electrical Assessment	13,997	0	0	0	0	13,997
W29	JWC Seismic Retro Fit of Current Plan	4,000	0	40,000	0	0	44,000
W30	JWC Filter Replacement	13,330	0	0	0	0	13,330
W32	JWC Quonset Hut Reconditioning	0	15,532	0	0	0	15,532
W33	JWC Water Treatment Plant Re-Use	9,331	0	0	0	0	9,331
W47	Gales Creek	0	0	0	0	2,000,000	2,000,000
W48	David Hill	240,000	0	0	0	0	240,000
W50	Emergency Intertie	0	0	0	0	250,000	250,000
W51	Hilltop Water Supply	0	0	0	0	1,500,000	1,500,000
W53	Emergency Water Dispenser	10,000	0	0	0	0	10,000
W54	Drining Fountains	15,000	0	0	0	0	15,000
W60	Finished Water Storage	0	103,000	288,400	0	0	391,400
W62	Water Rights Strategic Plan	0	30,000	0	0	0	30,000
W63	TVID Water Supply Feasibility Study	0	0	45,000	0	0	45,000
W64	Asset Management Program	0	0	103,000	0	0	103,000
	WATER TOTALS	484,097	983,055	736,400	460,000	7,306,778	9,970,330
	UTILITY AND TRANSPORTATION TOTALS	2,047,096	4,130,362	5,257,312	8,584,865	30,245,740	50,265,375
BOLD =	NEW PROJECTS						

LIGHT & POWER
DEPARTMENT**PROJECT DESCRIPTION:**

For FY 2010-11 the Light and Power Department will focus on maintenance which includes re-insulating the substations.

For FY 2011-12, the existing electro-mechanical relays at Forest Grove Substation will be replaced with modernized electronic feeder relays.

For FY 2013-14, Thatcher substation will be upgraded to accommodate a new substation transformer.

DISCUSSION OF PROJECT:

The insulators at the substations are made of porcelain and corrode and break with time. Regular maintenance prolongs their life, but after years of use the porcelain begins to chip which may lead to tracking and eventual failure. The insulators will be replaced in our ongoing efforts to maintain the reliability of the substations.

The electro-mechanical relays at Forest Grove substation are still reliable relays, but in order to modernize the substation and perhaps utilize newer relays for better monitoring capability, the relays will be upgraded to electronic relays with better display features.

The load at Thatcher substation has grown substantially over the last ten years due to high growth in residential load. The existing transformer at Thatcher sub is 50+ years old and will need to have a back-up in the event of failure. This can be accomplished by installing a second transformer bank and position at the Thatcher Substation. An equipment fund was established 4 years ago to build up a reserve for this purpose. With residential growth flat for the next few years, we anticipate the need for the transformer upgrade sometime in FY 2013-14.

LP2 SUBSTATION UPGRADES						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering	0	20,000	0	30,000	0	50,000
Site Preparation	0	0	0	25,000	0	25,000
Construction	0	0	0	100,000	0	100,000
Equipment/Furniture	15,000	32,000	0	600,000	0	647,000
Other						0
						0
TOTAL	15,000	52,000	0	755,000	0	822,000
FUNDING SOURCE						
Current User Rates	15,000	52,000	0	755,000	0	822,000
						0
						0
TOTAL FUNDING SOURCES	15,000	52,000	0	755,000	0	822,000

Light & Power

DEPARTMENT**PROJECT DESCRIPTION:**

Continue renovation of the Light and Power Department office utilizing the present building. Most renovation has already taken place to accommodate for equipment space needs and staff accommodations. The project also includes updating to fiber optics for better communication interface with City Hall.

DISCUSSION OF PROJECT:

The Light and Power Department office building was renovated in 2009 utilizing the existing footprint of the building. The auditorium is the last phase of the remodel. Currently the auditorium is used as a conference room and a training center. The two functions are divided by old bookcases that were left over from the previous remodel. A permanent separation will be constructed so that both areas can be used simultaneously while maintaining privacy.

As the last phase of implementing the facilities master plan for Light and Power, a garage structure will be built to house department vehicles and equipment. The property on C Street was purchased in 2009 for this purpose and after a civil engineering plan is drawn, an RFP will be sent out for construction of the garage. This will enable all of the Light and Power vehicles to have covered parking and heating where necessary.

The Light and Power Department is building the City's infrastructure for the fiber optic system. L&P line crews will be installing the fiber cable on the power poles providing service to Public Works, the Aquatics Center, the L&P building, the Water Treatment Plant and the 3 L&P substations. L&P will provide the underground vaults where the fiber splices/terminations will be placed. Light and Power is paying their portion of the costs for this system.

LP4 PROPERTY IMPROVEMENTS AND OFFICE BUILDING						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering	30,000					30,000
Site Preparation	30,000					30,000
Construction	250,000					250,000
Equipment/Furniture	30,000					30,000
Other						0
						0
TOTAL	340,000	0	0	0	0	340,000
<u>FUNDING SOURCE</u>						
Current User Rates	340,000					340,000
						0
						0
TOTAL FUNDING SOURCES	340,000	0	0	0	0	340,000

Light & Power

DEPARTMENT

PROJECT DESCRIPTION:

Light and Power maintains the fleet of vehicles associated with the operation of the electrical utility. Over the years, several of the department's vehicles will become candidates for replacement. The vehicles are replaced on a regular schedule, adjusted in accordance with mileage and maintenance history.

In the next 4 years, the following vehicles will be replaced:

FY 10-11	Utility Truck – 403 Trackhoe Under-Dawg Puller
FY 11-12	General Manager 4X4 – 448
FY 12-13	Single Bucket Truck – 443B
FY 13-14	Double Bucket Truck – 447

DISCUSSION OF PROJECT:

Light & Power incorporates vehicle replacement into a 5-year average of capital needs. These needs are considered when rates are reviewed. Because capital expenditures are considered during rate review, funding for replacement is acquired through electrical rates.

LP8 LIGHT AND POWER VEHICLE REPLACEMENT						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	177,000	60,000	100,000	225,000	100,000	662,000
Other						0
						0
TOTAL	177,000	60,000	100,000	225,000	100,000	662,000
<u>FUNDING SOURCE</u>						
Current User Rates	177,000	60,000	100,000	225,000	100,000	662,000
Reserves						0
Increased User Rates						0
TOTAL FUNDING SOURCES	177,000	60,000	100,000	225,000	100,000	662,000

Light & Power

DEPARTMENT**PROJECT DESCRIPTIONS:**

FY 2010-11 - The Light and Power Department will research the feasibility of installing Electric Charging Stations within the community as a progression towards support for electric vehicle use. Monitoring the charging stations as well as the three substations in the system will require L&P to replace the existing Supervisory Control and Data Acquisition (SCADA) system. This will be done in conjunction with the City's fiber optic network. Every 10 years, the Light and Power performs a protection coordination study to ensure fusing and relay protection of the system is properly sized to maximize reliability. A new Meter Test Bench will be acquired to replace an older, obsolete model that is used to test and calibrate electric meters. The Meter Dept. will also purchase a Fluke Analyzer which is capable of detecting harmonics at the meter for power quality purposes.

FY 2011-12 - UG Direct Bury Cable Replacement.

DISCUSSION OF PROJECTS:

As one of the City Council's objective in contributing to the reduction in carbon emissions, Light and Power will work towards equipping the community with electric vehicle charging stations and building the necessary infrastructure for them. The City will identify key spots where the stations will be located and work in conjunction with Pacific University and possibly other partners in developing a larger network.

The Light and Power Department monitors the load and functions of the Substations through a SCADA system which is obsolete with outdated communications format. With the City's new fiber optic system, the L&P SCADA system will be redesigned to accommodate for the new communications format, folding in monitoring of the substations and future electric vehicle charging stations all into one system.

The Light and Power Department needs to reassess the coordination of the distribution system protection and fusing. This study was performed 10 years ago and as the system has grown, we need to confirm the fuse sizing and coordination with the relay settings in the substation. A consultant with the software tools will perform this function.

All electric meters are tested and calibrated for accuracy before placement out on the electric system. The current meter test bench is very old and obsolete. Replacement parts are not available. The current test bench will not test to the same level of accuracy as the newer type of meters is capable of.

Power quality is analyzed at large commercial/industrial customer locations due to their need for very "clean" power. A fluke analyzer is a handheld device which can be attached to the 3-phase meter to analyze real time voltage and currents along with harmonics that disturb the quality of power delivered. That information allows the metermen/engineering to make adjustments to improve the quality. Light and Power currently uses a large recorder the size of a truck suitcase to record this information. The recorder is not mobile enough to take to multiple locations within a customer's facility. This handheld version provides that capability.

The Light and Power Dept. retrofitted approximately 1000 electric meters with remote read devices. The meter readers use a handheld device which picks up the readings from these meters. This was done to curb the need for an additional meter reader as our number of meters increased 30% over the last 5 years. This mobile collector unit is a drive by based unit mounted in the meter truck. It allows the meter reader to drive by and collect this data. This is especially useful during the winter time with hard to access meters. These mobile collectors will have the ability to disconnect a meter remotely which will be particularly useful for the dormitories at the University or multi-tenant apartments.

The City has considerable underground primary voltage cable that was installed over 25 years ago. Virtually all of this wire is direct buried and is of a type that has not exhibited a long life span. Therefore, a systematic replacement program has been underway to upgrade these circuits to a more reliable type of cable on a managed and reasonable basis.

LP22 DISTRIBUTION SYSTEM ADDITIONS AND UPGRADES						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering	20,000	0	0	0	0	20,000
Site Preparation						0
Construction	0	25,000	25,000	25,000	25,000	100,000
Equipment/Furniture	125,000					125,000
Other						0
						0
TOTAL	145,000	25,000	25,000	25,000	25,000	245,000
<u>FUNDING SOURCE</u>						
Current User Rates	145,000	25,000	25,000	25,000	25,000	245,000
						0
						0
TOTAL FUNDING SOURCES	145,000	25,000	25,000	25,000	25,000	245,000

Equipment
DEPARTMENT

PROJECT DESCRIPTION:

The Equipment Fund owns and maintains seventy-four (74) pieces of equipment. The vehicles are replaced on a regular schedule unless mileage is low and the vehicle has a good maintenance history. Over the next five years, the following are expected to be replaced:

FY 2010-11	FY 2012-13
Parks - One Toro Mower #16	Parks - One 1 Ton Dump Trk #478
Police - One PD Admin Vehicle #512	Police – One SUV Patrol #500 & # 501
Police - Three PD Patrol Vehicles #511, #514, #519	Public Works – One 1 Ton Dump #304
Public Works - One 4X4 Vehicle #311	Public Works – One 8 Yd Dump #313
Public Works - One Elgin Sweeper #319	Public Works – One Camel Cleaner #316
	City Hall – Two Admin Vehicles #480 & #482
FY 2011-12	
Parks – One JD Tractor #3	FY 2013-14
Police – Four Patrol Vehicles #s 504, 506B, 507B, 508	Police – One PD Patrol Vehicle #502
Police – One Detective Vehicle #503	Police – One PD Motor Bike #517
Police – One Admin Vehicle #513	Public Works – One 1 ton Utility Truck #302
Public Works – Patch King #328	Public Works – One Roller #329
Public Works – One Crane Truck #315	
Public Works – One 4x4 Pickup #305	FY 2014-15
Treatment Plant – One WTP Vehicle #485	Police – CSO Van #515
City Hall – Two Admin Vehicles #486B, #487B	Public Works – One Jet Cleaner #317

DISCUSSION OF PROJECT:

The Equipment Fund owns vehicles and equipment used by Public Works and all other city departments except Light & Power (L&P) and Fire. The Equipment shop maintains these vehicles and equipment and replaces them when length of time or mileage warrants replacement. Funding for vehicle maintenance, repair and replacement is derived from monthly lease amounts charged to the participating departments.

The Equipment shop also maintains and repairs the 60 vehicles owned by L&P and the Fire Department as necessary, and bills those departments directly.

In 2010-11, three patrol cars and one administration car will be replaced in the Police Department. The patrol cars are transitioning from the Ford Crown Vic to the Dodge Charger, since Ford announced they will no longer produce Crown Vics for police work. The administration vehicle is currently a 4X4 and will be replaced with a Ford Fusion that should get better mileage than the 4X4 and save on fuel. The Parks Department will replace a mower. In the Public Works arena, one 4X4 work truck will be replaced, and the street sweeper will be replaced.

EQ1 EQUIPMENT REPLACEMENT PROGRAM						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	315,000	380,500	464,000	121,500	162,000	1,443,000
Other						0
						0
TOTAL	315,000	380,500	464,000	121,500	162,000	1,443,000
<u>FUNDING SOURCE</u>						
						0
Equipment Fund Reserve	315,000	380,500	464,000	121,500	162,000	1,443,000
TOTAL FUNDING SOURCES	315,000	380,500	464,000	121,500	162,000	1,443,000

UTILITY AND TRANSPORTATION PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
LP2	Substation Upgrades	15,000	52,000	0	755,000	0	822,000
LP4	Property Improvements & Office Building	340,000	0	0	0	0	340,000
LP8	L&P Vehicle Replacement Program	177,000	60,000	100,000	225,000	100,000	662,000
LP22	Distribution System Additions And Upgrades	145,000	25,000	25,000	25,000	25,000	245,000
	L&P TOTALS	677,000	137,000	125,000	1,005,000	125,000	2,069,000
EQ1	Equipment Replacement Program	315,000	380,500	464,000	121,500	162,000	1,443,000
	EQUIPMENT TOTALS	315,000	380,500	464,000	121,500	162,000	1,443,000
ST1	Gales Way (From "E" Street To 23rd Avenue)	0	0	0	0	456,720	456,720
ST3	23rd/24th Ave (Industrial Area)	0	0	0	0	1,324,660	1,324,660
ST5	19th Ave (Oak St. to Hwy 47)	0	330,000	0	0	0	330,000
ST10	David Hill Road	0	642,808	3,214,038	2,571,230	0	6,428,076
ST12	TV Hwy & Quince	0	0	0	0	4,900,000	4,900,000
ST15	19th Avenue Extension	0	0	0	0	7,100,000	7,100,000
ST17	Thatcher Road	0	0	0	3,626,136	0	3,626,136
ST19	Way Finding Signage	7,000	0	0	0	0	7,000
ST22	B Street North	0	0	0	0	6,068,623	6,068,623
ST30	Thatcher Park Tunnel	0	675,000	0	0	0	675,000
	STREET TOTALS	7,000	1,647,808	3,214,038	6,197,366	19,850,003	30,916,215
SW1	Replace / Rehabilitate Old Sewers	185,000	100,000	189,875	175,000	50,000	699,875
SW2	Sewer Oversizing Participation/SDC	50,000	50,000	50,000	50,000	50,000	250,000
SW3	CWS / City Phase III Sewer I&I Repair	94,004	94,004	94,004	94,004	94,004	470,022
SW4	Maple Street Capacity Expansion	0	0	0	0	600,000	600,000
SW7	Sunset Drive MSTIP/SDC	121,995	121,995	121,995	121,995	121,995	609,973
SW8	23rd/24th Avenue (Industrial Area)	0	0	0	0	278,960	278,960
SW9	Mountain View Sewer Line	0	0	0	0	600,000	600,000
SW10	A Street Capacity (A to 16th; 8" & 10" to 16th)	0	590,000	0	0	0	590,000
SW11	Fir Road	0	0	0	0	420,000	420,000
	SEWER TOTALS	450,999	955,999	455,874	440,999	2,214,959	4,518,830
SWM2	Hawthorne Street Drainage	0	0	0	0	342,000	342,000
SWM6	23rd/24th Drainage Culvert	0	0	0	0	110,000	110,000
SWM7	Alyssum and Twinflower Drainage	0	0	0	0	135,000	135,000
SWM8	Bonnie and B Street Catch Basins	113,000	0	0	0	0	113,000
SWM9	Cedar Street Pump Station	0	0	0	360,000	0	360,000
SWM12	Beal Pond	0	26,000	0	0	0	26,000
SWM15	Basin 1 - Yew to 1st	0	0	128,000	0	0	128,000
SWM16	Basin 5 - 17th Ave & Hawthorne	0	0	134,000	0	0	134,000
	SWM TOTALS	113,000	26,000	262,000	360,000	587,000	1,348,000

ST1

GALES WAY
(From "E" Street to 23rd Avenue)

Street

DEPARTMENT

PROJECT DESCRIPTION:

Reconstruct and widen Asphaltic Concrete (AC) pavement with curbs, gutters, sidewalks, storm drain and landscaping.

DISCUSSION OF PROJECT:

This street is identified as a collector in the Transportation System Plan. This route provides direct access to the downtown area and carries significant traffic volumes. This project is postponed to seek matching funding.

ST1 GALES WAY (from "E" Street to 23rd Avenue)						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering				0	45,672	45,672
Site Preparation						0
Construction				0	411,048	411,048
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	456,720	456,720
<u>FUNDING SOURCE</u>						
						0
Street Fund	0	0	0	0	456,720	456,720
						0
TOTAL FUNDING SOURCES	0	0	0	0	456,720	456,720

ST3

23rd/24th AVENUE (INDUSTRIAL AREA)

Street

DEPARTMENT

PROJECT DESCRIPTION:

Construct new road to connect Hawthorne Street and Quince Street. Project will include Asphaltic Concrete (AC) pavement curbs, gutter, sidewalk, storm drain and landscaping to current construction standards.

DISCUSSION OF PROJECT:

This section of roadway is identified on the Transportation System Plan. This project is needed to carry east/west traffic in the north part of town to relieve congestion on Pacific Avenue and provide access to the industrial land identified in the Comprehensive Plan. This project has been postponed pending development of the area. Cost participation will come from adjacent development.

ST3 23rd/24th AVENUE (Industrial Area)						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering	0	0	0	0	229,110	229,110
Site Preparation						0
Construction	0	0	0	0	1,095,550	1,095,550
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	1,324,660	1,324,660
<u>FUNDING SOURCE</u>						
CDBG						0
TIF	0		0	0	806,696	806,696
Street	0	0	0	0		0
Sewer SDC					278,960	278,960
SWM SDC					110,000	110,000
Water SDC	0				129,004	129,004
						0
TOTAL FUNDING SOURCES	0	0	0	0	1,324,660	1,324,660

ST5

**19th AVENUE
(From Oak Street to Highway 47)**

Street

DEPARTMENT

PROJECT DESCRIPTION:

Construction of a new section of 19th Avenue to collector standards in conjunction with a potential development project.

DISCUSSION OF PROJECT:

If a proposed development project occurs, the City has the opportunity to finish 19th Avenue to Highway 47 which could give emergency vehicles another east-west route through the City. This project would allow right turn access only to and from southbound Highway 47. This project is contingent on development of the adjacent shopping center.

ST5 19th AVENUE (Oak St. to Hwy 47)						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	0	330,000				330,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	330,000	0	0	0	330,000
FUNDING SOURCE						
TIF	0	330,000	0			330,000
						0
TOTAL FUNDING SOURCES	0	330,000	0	0	0	330,000

ST10

DAVID HILL ROAD (Thatcher Road to Hwy 47)

Street

DEPARTMENT

PROJECT DESCRIPTION:

Three-lane Arterial connecting Thatcher Road with State Highway 47.

DISCUSSION OF PROJECT:

This road is identified in the City's Transportation System Plan and is a major east-west connection. It is planned to extend easterly from Thatcher Road to Highway 47 as a two-lane arterial facility with left-turn lanes at major intersections. Most of the facility will be built by adjacent development. A portion of the roadway is proposed to be funded by Traffic Impact Fees (TIF) because a significant section is along the Urban Growth Boundary, and as such development is limited to the south side of the road. Washington County has pledged County TIF dollars toward this project.

ST10 DAVID HILL ROAD (Thatcher Road to Hwy 47)

COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction		642,808	3,214,038	2,571,230		6,428,076
Equipment/Furniture						0
Other						0
						0
TOTAL	0	642,808	3,214,038	2,571,230	0	6,428,076
FUNDING SOURCE						
TIF			3,214,038	1,285,615		4,499,653
Private	0	642,808		1,285,615		1,928,423
TAL FUNDING SOURCES	0	642,808	3,214,038	2,571,230	0	6,428,076

ST12

TV HWY & QUINCE STREET

Street

DEPARTMENT

PROJECT DESCRIPTION:

This project consists of constructing intersection improvements to improve performance of the intersection.

DISCUSSION OF PROJECT:

Results from an Access Management Plan Alternatives analysis on Highway 47 shows growth in demand at Pacific Avenue and Highway 47 does not result in performance below ODOT operating standards, but significant delay does exist, as the volume to capacity ratio (0.93) approaches the minimum standard (0.99). Adding turning movement capacity or turn lane channelization would improve performance or more specifically correct southbound queuing issues. Adding a north/south crosswalk with signal modifications on the east side and improving turning radius on the NE corner have also been identified to optimize intersection performance.

ST12 TV HWY & QUINCE STREET						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering	0	0	0		0	0
Site Preparation						0
Construction					4,900,000	4,900,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	4,900,000	4,900,000
FUNDING SOURCE						
CDBG						0
TIF						0
SWM						0
Other/MSTIP	0				4,900,000	4,900,000
						0
TOTAL FUNDING SOURCES	0	0	0	0	4,900,000	4,900,000

ST15

19TH AVENUE W. EXTENSION

Street

DEPARTMENT

PROJECT DESCRIPTION:

Extend 19th Avenue west and connect to E Street and Pacific Avenue with round-about.

DISCUSSION OF PROJECT:

Development of the property located south of E St. & Pacific Ave. will require the extension of 19th Avenue. This project should move forward only as this property develops. The City will have partial participation according to the TIF statute.

ST15 19th AVENUE W. EXTENSION						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction					7,100,000	7,100,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	7,100,000	7,100,000
FUNDING SOURCE						
TIF	0		0		7,100,000	0
						0
TOTAL FUNDING SOURCES	0	0	0	0	7,100,000	0

ST17

THATCHER ROAD

Street

DEPARTMENT

PROJECT DESCRIPTION:

Re-align Thatcher Road at its intersection with Gales Creek Road to eliminate substandard angles and improve intersection spacing.

DISCUSSION OF PROJECT:

Thatcher Road intersects with Gales Creek Road at a bad angle which creates sight visibility problems. In addition, recent development in the west and northwest part of town has increased traffic at this intersection. This project is identified in the Transportation System Plan to study this area to determine if the intersection can be re-aligned to improve the visibility. In addition, signalization may be warranted.

ST17 THATCHER ROAD						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering				362,614		362,614
Site Preparation						0
Construction				3,263,522		3,263,522
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	3,626,136	0	3,626,136
<u>FUNDING SOURCE</u>						
Street Fund						0
TIF				3,626,136	0	3,626,136
						0
TOTAL FUNDING SOURCES	0	0	0	3,626,136	0	3,626,136

ST19

WAY FINDING SIGNAGE

Street

DEPARTMENT

PROJECT DESCRIPTION:

Improve communication to traveling public through proper placement of directional and informational signs.

DISCUSSION OF PROJECT:

Following a study titled "A Look At Forest Grove Through the Eyes of a Visitor," completed and presented to City Council in February 2007, the Council established transportation and signage as high priorities. City staff has formed a Way Finding Committee to further develop plans to implement the findings and suggestions in the study.

ST19 WAY FINDING SIGNAGE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	7,000					7,000
Other						0
						0
TOTAL	7,000	0	0	0	0	7,000
<u>FUNDING SOURCE</u>						
						0
Street Fund	7,000					7,000
						0
TOTAL FUNDING SOURCES	7,000	0	0	0	0	7,000

ST22

"B" STREET NORTH

Street

DEPARTMENT

PROJECT DESCRIPTION:

Extend "B" Street north from Hartford Drive to David Hill Road.

DISCUSSION OF PROJECT:

This project would extend "B" Street from the current north end at the intersection with Hartford Drive to the future intersection with David Hill Road. This project is scheduled in future years and will be funded by both private development and TIF monies.

ST22 "B" STREET NORTH						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction					6,068,623	6,068,623
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	6,068,623	6,068,623
<u>FUNDING SOURCE</u>						
TIF					3,030,000	3,030,000
Street Fund						0
Private					3,038,623	3,038,623
TOTAL FUNDING SOURCES	0	0	0	0	6,068,623	6,068,623

ST30

THATCHER PARK TUNNEL

Street

DEPARTMENT

PROJECT DESCRIPTION:

Construct an underpass crossing just south of the intersection of David Hill Road and Thatcher.

DISCUSSION OF PROJECT:

The City is working to design and construct an underpass crossing to close a safety gap, to allow safer pedestrian access to Thatcher Park. The location of the Thatcher Road underpass is just south of the intersection of David Hill Road and Thatcher. This crossing is also part of the City outer loop pathway and will eventually be a major feeder to the Council Creek Regional Trail system.

ST30 THATCHER PARK TUNNEL						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering				0		0
Site Preparation						0
Construction		675,000		0		675,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	675,000	0	0	0	675,000
<u>FUNDING SOURCE</u>						
						0
Street Fund	0	675,000	0	0	0	675,000
						0
TOTAL FUNDING SOURCES	0	675,000	0	0	0	675,000

SW1

REPLACE / REHABILITATE OLD SEWERS

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Reconstruct existing sewer mains as needed due to pipe condition. This is an ongoing project designed to replace all old and deteriorated sewers. Projects are generally scheduled to coincide with proposed street reconstruction projects.

DISCUSSION OF PROJECT:

The Sewer Master Plan recommends annual replacement/rehabilitation of portions of the old collection piping until it is completely upgraded. The goal is to rehabilitate 1,500 linear feet of sewer each year. Projects are generally selected to coincide with paving projects so that we minimize cutting trenches through good roads.

Recent improvements in technology have allowed more thorough inspection of pipe sections, leading to a series maintenance projects in older areas of the city. Problems include pipe clogging, infiltration by ground water, or damage by roots or other organic matter. While these pipes overall are still functioning, there is a concern that maintenance costs will continue to increase and flow capacity will be compromised. Over the CIP period of 2009 to 2014, pipe sections along 18th Ave, 17th Ave, 20th Place, 24th Ave, 23rd Ave, Gales Way and Cedar have been selected for further review for possible replacement.

SW1 REPLACE / REHABILITATE OLD SEWERS						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	185,000	100,000	189,875	175,000	50,000	699,875
Equipment/Furniture						0
Other						0
						0
TOTAL	185,000	100,000	189,875	175,000	50,000	699,875
FUNDING SOURCE						
Sewer Fund	185,000	100,000	189,875	175,000	50,000	699,875
Sewer SDC						0
TOTAL FUNDING SOURCES	185,000	100,000	189,875	175,000	50,000	699,875

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Developments in certain areas of the City may trigger the need for excess pipe capacity for future growth, that is beyond what that specific developer needs. This project allows the City flexibility to cost participate in the oversizing of sewer pipes to adequately prepare for future growth.

DISCUSSION OF PROJECT:

Revenue is collected as system development charges on new sewer hook-ups. The money is used to provide funding flexibility to cost participate with developers to provide increased capacity in the sewer system.

SW2 SEWER OVERSIZING PARTICIPATION						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	50,000	50,000	50,000	50,000	50,000	250,000
Equipment/Furniture						0
Other						0
						0
TOTAL	50,000	50,000	50,000	50,000	50,000	250,000
<u>FUNDING SOURCE</u>						
Sewer SDC	50,000	50,000	50,000	50,000	50,000	250,000
						0
						0
TOTAL FUNDING SOURCES	50,000	50,000	50,000	50,000	50,000	250,000

Sewer

DEPARTMENT**PROJECT DESCRIPTION:**

This project was the rehabilitation of the public sanitary sewer line and the private sanitary sewer laterals in the area around Pacific Avenue and SW Cedar Street. To minimize inflow and infiltration of ground water into the existing sanitary sewer system, the public sanitary sewer lines and private service laterals were rehabilitated. The project area is generally bounded by 16th Avenue to the south and Pacific Avenue to the north, "A" Street to the west and Hawthorne Street to the east.

DISCUSSION OF PROJECT:

This project was a joint effort between the City of Forest Grove and the Clean Water Services (CWS). CWS designed the project and provided construction administration. The City's Public Works Department provided in-kind services such as pre-design pipe TV inspection. Project costs including engineering and inspection have been split between the City and CWS on a 50% basis. Only the City's portion of the project is shown in the CIP. CWS funded the entire cost of the project. The City has financed its portion with CWS over a ten-year period. The amounts shown on the facing page represents the payment schedule to CWS over the next five years.

SW3 CWS / CITY PHASE III SEWER I&I REPAIR						
<u>COSTS</u>	2010-11	2011-12	2012-13	2013-14	2014-15	5-YR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other: Debt	94,004	94,004	94,004	94,004	94,004	470,022
						0
TOTAL	94,004	94,004	94,004	94,004	94,004	470,022
<u>FUNDING SOURCE</u>						
						0
Sewer Fund	94,004	94,004	94,004	94,004	94,004	470,022
						0
TOTAL FUNDING SOURCES	94,004	94,004	94,004	94,004	94,004	470,022

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Increase sanitary sewer capacity by installing a pipe that would parallel the existing system from the intersection of Laurel Street and 22nd Avenue to the south side of Pacific Avenue then east to Maple Street then south to 19th Avenue:

1. Intersection of Laurel Street and 22nd Avenue to the south side of Pacific Avenue
1100 feet of pipeline
2. South side of Pacific Avenue east to Maple Street
300 feet of pipeline
3. Intersection of Pacific Avenue and Maple Street south to 19th Avenue
500 feet of pipeline

DISCUSSION OF PROJECT:

The CWS Sewer System Master Plan Update (dated April 1995) identifies existing capacity deficiencies in the Maple Street Trunk F-3.

The 2007 City of Forest Grove Master Plan recommends this project should be considered “contingent” and the City need not move forward with it until the need has been verified through flow monitoring.

SW4 MAPLE STREET CAPACITY EXPANSION						
<u>COSTS</u>	2010-11	2011-12	2012-13	2013-14	2014-15	5-YR TOTAL
Design/Engineering	0	0	0	0	0	0
Site Preparation						0
Construction	0	0	0	0	600,000	0
Equipment/Furniture						0
Other					0	0
						0
TOTAL	0	0	0	0	600,000	0
<u>FUNDING SOURCE</u>						
Sewer SDC	0	0	0	0	300,000	0
Sewer	0	0	0	0	300,000	0
TOTAL FUNDING SOURCES	0	0	0	0	600,000	0

SW7

SUNSET DRIVE MSTIP

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Install approximately 2400 LF of 10” sanitary sewer with the reconstruction of Sunset Drive.

DISCUSSION OF PROJECT:

The Forest Grove Sanitary Sewer Master Plan identified portions of Sunset Drive to be served with sanitary sewer from the Council Creek trunk line. These portions of sanitary sewer have been installed with the construction of Sunset Drive. CWS funded the entire cost of the project. The City has financed its portion with CWS over a ten year period. The amounts shown on the facing page represents the payment schedule to CWS over the next five years.

SW7 SUNSET DRIVE MSTIP						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other: Debt	121,995	121,995	121,995	121,995	121,995	609,973
						0
TOTAL	121,995	121,995	121,995	121,995	121,995	609,973
FUNDING SOURCE						
Sewer Fund						0
Sewer SDC	121,995	121,995	121,995	121,995	121,995	609,973
						0
TOTAL FUNDING SOURCES	121,995	121,995	121,995	121,995	121,995	609,973

SW8

23RD/24TH AVENUE INDUSTRIAL AREA

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Construct new road to connect Hawthorne Street and Quince Street. This project is to construct a new sewer line under that road. Project will include Asphaltic Concrete (AC) pavement, curbs, gutter, sidewalk, storm drain, sewer, water line, and landscaping to current construction standards.

DISCUSSION OF PROJECT:

This section of roadway is identified on the Transportation System Plan. This project is needed to carry east/west traffic in the north part of town to relieve congestion on Pacific Avenue and provide access to the industrial land identified in the Comprehensive Plan. This project has been postponed pending development of the area. Cost participation will come from adjacent development.

SW8 23RD/24TH AVENUE INDUSTRIAL AREA						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering	0				25,360	25,360
Site Preparation						0
Construction	0	0	0	0	253,600	253,600
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	278,960	278,960
<u>FUNDING SOURCE</u>						
Sewer Fund	0	0	0	0	278,960	278,960
Sewer SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	278,960	278,960

Sewer

DEPARTMENT**PROJECT DESCRIPTION:**

Replace the 12” line on Mountain View Lane south of the Southern Pacific Railroad (SPRR) and the 18” line north of SPRR.

DISCUSSION OF PROJECT:

The existing 12” line located to the west of Mountain View Lane and south of the SPRR trunk will require replacement. Additionally, this project should include improvements made to the north of the SPRR. The Mountain View Lane south of the railroad trunk will be increased in size from 12 to 18-inch diameter line covering approximately 1,300 lineal feet. Lines located north of the railroad trunk will be increased from 18” to 21” for approximately 1,000 lineal feet. The north and south segments 2030 design flow is approximately 2,100 gpm and 1,550 gpm respectively.

This CIP should be considered “contingent” and the City need not move forward with it until the need has been verified through flow monitoring.

SW9 MOUNTAIN VIEW LANE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering				0	120,000	120,000
Site Preparation						0
Construction				0	480,000	480,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	600,000	600,000
<u>FUNDING SOURCE</u>						
Sewer Fund				0	300,000	300,000
Sewer SDC				0	300,000	300,000
TOTAL FUNDING SOURCES	0	0	0	0	600,000	600,000

SW10

“A” STREET CAPACITY

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

The 8-inch and 10-inch diameter lines from the B Street pump station should be increased to 15-inches in diameter.

DISCUSSION OF PROJECT:

As development occurs, it is anticipated that additional sewer capacity may be needed along this route. The Sanitary Sewer Master Plan Update is confirming the size of capacity increase and the estimated schedule when it will occur. This project will not be required until the B Street pump station capacity is increased by CWS and development occurs in the area northwest of the Pump station, just north of Gales Creek.

SW10 A STREET CAPACITY						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction		590,000		0		590,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	590,000	0	0	0	590,000
<u>FUNDING SOURCE</u>						
Sewer Fund			0			0
Sewer SDC			0			0
TOTAL FUNDING SOURCES	0	0	0	0	0	0

SW11

FIR ROAD
From 19th to Hwy 47

Sewer

DEPARTMENT

PROJECT DESCRIPTION:

Replace 12" Line on Fir Road from Pacific Avenue to the Southern Pacific Railroad (SPRR).

DISCUSSION OF PROJECT:

The existing 12" diameter line ties into the SPRR trunk line. Fir Road upgrades will require the existing line to be upgraded to a 15" diameter line spanning approximately 2,000 lineal feet. The total improvements along Fir Road are estimated to cost \$420,000.

The 2007 City of Forest Grove Master Plan recommends this project should be considered "contingent" and the City need not move forward with it until the need has been verified through flow monitoring.

SW11 FIR ROAD (From 19th to Hwy 47)						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction				0	420,000	420,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	420,000	420,000
FUNDING SOURCE						
Sewer SDC				0	420,000	420,000
Sewer						0
TOTAL FUNDING SOURCES	0	0	0	0	420,000	420,000

UTILITY AND TRANSPORTATION PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
LP2	Substation Upgrades	15,000	52,000	0	755,000	0	822,000
LP4	Property Improvements & Office Building	340,000	0	0	0	0	340,000
LP8	L&P Vehicle Replacement Program	177,000	60,000	100,000	225,000	100,000	662,000
LP22	Distribution System Additions And Upgrades	145,000	25,000	25,000	25,000	25,000	245,000
	L&P TOTALS	677,000	137,000	125,000	1,005,000	125,000	2,069,000
EQ1	Equipment Replacement Program	315,000	380,500	464,000	121,500	162,000	1,443,000
	EQUIPMENT TOTALS	315,000	380,500	464,000	121,500	162,000	1,443,000
ST1	Gales Way (From "E" Street To 23rd Ave)	0	0	0	0	456,720	456,720
ST3	23rd/24th Ave (Industrial Area)	0	0	0	0	1,324,660	1,324,660
ST5	19th Ave (Oak St. to Hwy 47)	0	330,000	0	0	0	330,000
ST10	David Hill Road	0	642,808	3,214,038	2,571,230	0	6,428,076
ST12	TV Hwy & Quince	0	0	0	0	4,900,000	4,900,000
ST15	19th Avenue Extension	0	0	0	0	7,100,000	7,100,000
ST17	Thatcher Road	0	0	0	3,626,136	0	3,626,136
ST19	Way Finding Signage	7,000	0	0	0	0	7,000
ST22	B Street North	0	0	0	0	6,068,623	6,068,623
ST30	Thatcher Park Tunnel	0	675,000	0	0	0	675,000
	STREET TOTALS	7,000	1,647,808	3,214,038	6,197,366	19,850,003	30,916,215
SW1	Replace / Rehabilitate Old Sewers	185,000	100,000	189,875	175,000	50,000	699,875
SW2	Sewer Oversizing Participation/SDC	50,000	50,000	50,000	50,000	50,000	250,000
SW3	CWS / City Phase III Sewer I&I Repair	94,004	94,004	94,004	94,004	94,004	470,022
SW4	Maple Street Capacity Expansion	0	0	0	0	600,000	600,000
SW7	Sunset Drive MSTIP/SDC	121,995	121,995	121,995	121,995	121,995	609,973
SW8	23rd/24th Avenue (Industrial Area)	0	0	0	0	278,960	278,960
SW9	Mountain View Sewer Line	0	0	0	0	600,000	600,000
SW10	A Street Capacity (A to 16th; 8" & 10" t	0	590,000	0	0	0	590,000
SW11	Fir Road	0	0	0	0	420,000	420,000
	SEWER TOTALS	450,999	955,999	455,874	440,999	2,214,959	4,518,830
SWM2	Hawthorne Street Drainage	0	0	0	0	342,000	342,000
SWM6	23rd/24th Drainage Culvert	0	0	0	0	110,000	110,000
SWM7	Alyssum and Twinflower Drainage	0	0	0	0	135,000	135,000
SWM8	Bonnie and B Street Catch Basins	113,000	0	0	0	0	113,000
SWM9	Cedar Street Pump Station	0	0	0	360,000	0	360,000
SWM12	Beal Pond	0	26,000	0	0	0	26,000
SWM15	Basin 1 - Yew to 1st	0	0	128,000	0	0	128,000
SWM16	Basin 5 - 17th Ave & Hawthorne	0	0	134,000	0	0	134,000
	SWM TOTALS	113,000	26,000	262,000	360,000	587,000	1,348,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

This project is proposed in the Storm Drainage Master Plan project list, and will provide stream restoration on open channels. The project replaces a 36-inch railroad culvert with a 54-inch culvert, and replaces Hawthorne Road 48-inch culvert with a 54-inch culvert.

DISCUSSION OF PROJECT:

These improvements are designed to increase the storm water conveyance capacity of the City's system. Projects follow recommendations in the Storm Drainage Master Plan and are designed to alleviate localized drainage problems due in part to the lack of hydraulic capacity.

SWM2 HAWTHORNE STREET DRAINAGE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction				0	342,000	342,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	342,000	342,000
<u>FUNDING SOURCE</u>						
SWM SDC				0	171,000	171,000
SWM				0	171,000	171,000
						0
TOTAL FUNDING SOURCES	0	0	0	0	342,000	342,000

Surface Water Management

DEPARTMENT**PROJECT DESCRIPTION:**

Construct a new road to connect Hawthorne Street and Quince Street. The project will include Asphaltic Concrete (AC) pavement, curbs, gutter, sidewalk, storm drain, sewer, water line, and landscaping to current construction standards.

DISCUSSION OF PROJECT:

This section of roadway is identified on the Transportation System Plan. This project is needed to carry east/west traffic in the north part of town to relieve congestion on Pacific Avenue and provide access to the industrial land identified in the Comprehensive Plan. This project has been postponed pending development of the area. Cost participation will come from adjacent development.

SWM6 23rd/24th DRAINAGE CULVERT						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering					10,000	10,000
Site Preparation						0
Construction					100,000	100,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	110,000	110,000
<u>FUNDING SOURCE</u>						
SWM SDC					110,000	110,000
SWM						0
						0
TOTAL FUNDING SOURCES	0	0	0	0	110,000	110,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

This project is proposed in the Storm Drainage Master Plan project list. It replaces a 12-inch and 18-inch pipeline along Alyssum from Twinflower east approximately 550 feet.

DISCUSSION OF PROJECT:

These improvements are designed to increase the storm water conveyance capacity of the City's system. Projects follow recommendations in the Storm Drainage Master Plan and are designed to alleviate localized drainage problems due in part to the lack of hydraulic capacity.

SWM7 ALYSSUM AND TWINFLOWER DRAINAGE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction					135,000	135,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	135,000	135,000
<u>FUNDING SOURCE</u>						
SWM SDC					135,000	135,000
SWM						0
						0
TOTAL FUNDING SOURCES	0	0	0	0	135,000	135,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

Install additional catch basins at corner of intersection of Bonnie Lane and “B” Street.

DISCUSSION OF PROJECT:

Currently the intersection of Bonnie Lane and “B” Street is served by a single catch basin located in the center of the intersection. The intersection often becomes overloaded with storm water runoff or blinded by debris, and becomes a hazard to safe traffic passage. The project will add four new catch basins to intercept the storm flow, take it off the street surface and convey it underground. In addition, paving will be constructed to raise the center of the intersection approximately ½ foot to give it a crown for proper drainage.

SWM8 BONNIE AND "B" STREET CATCH BASINS

<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	113,000					113,000
Equipment/Furniture						0
Other						0
						0
TOTAL	113,000	0	0	0	0	113,000
FUNDING SOURCE						
SWM SDC		0				0
SWM	113,000					113,000
TOTAL FUNDING SOURCES	113,000	0	0	0	0	113,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

This project is proposed in the Storm Drainage Master Plan project list. The current Cedar Street Pump Station will be removed and replaced with a gravity line to Douglas Street.

DISCUSSION OF PROJECT:

These improvements are designed to increase the storm water conveyance capacity of the City's system. Projects follow recommendations in the Storm Drainage Master Plan and are designed to alleviate localized drainage problems due in part to the lack of hydraulic capacity.

SWM9 CEDAR STREET PUMP STATION

<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	0	0	0	360,000	0	360,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	360,000	0	360,000
<u>FUNDING SOURCE</u>						
SWM SDC	0	0	0	180,000	0	180,000
SWM	0	0	0	180,000	0	180,000
TOTAL FUNDING SOURCES	0	0	0	360,000	0	360,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

Install a continuous stage recording device at the pond to record the frequency of specific high water levels.

DISCUSSION OF PROJECT:

Beal Pond is located near Beal Road and Highway 47. This pond influences and plays a key role in the City's storm drainage system. A well functioning storm drainage system can prevent flooding. The Master Plan suggests that water levels in Beal Pond be studied and measured through several seasons to determine whether storm drainage flow can be improved. This project installs equipment to do that measuring.

SWM12 BEAL POND STUDY						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction		26,000				26,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	26,000	0	0	0	26,000
<u>FUNDING SOURCE</u>						
SWM SDC						0
SWM		26,000				26,000
TOTAL FUNDING SOURCES	0	26,000	0	0	0	26,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

Additional storm piping.

DISCUSSION OF PROJECT:

This project includes a piping system along Baseline Road between Yew Street and Forest Grove east City limit boundary. This project is needed to minimize maintenance and traffic safety concerns. This project is identified in the Storm Water Master plan.

SWM15 BASIN 1 - YEW STREET TO 1st AVENUE						
<u>COSTS</u>	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction			128,000			128,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	128,000	0	0	128,000
<u>FUNDING SOURCE</u>						
SWM SDC						0
SWM			128,000			128,000
TOTAL FUNDING SOURCES	0	0	128,000	0	0	128,000

Surface Water Management

DEPARTMENT

PROJECT DESCRIPTION:

Additional storm piping with catch basins along 17th Avenue from Hawthorne east to Kingwood.

DISCUSSION OF PROJECT:

This project will construct a new storm pipe in an existing neighborhood. It is needed to pickup the slow draining intersection at 17th and Hawthorne. This project is identified in the Storm Water Master Plan.

SWM16 17th AVENUE and HAWTHORNE STREET						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	0	0	134,000	0	0	134,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	134,000	0	0	134,000
<u>FUNDING SOURCE</u>						
SWM SDC						0
SWM	0	0	134,000	0	0	134,000
TOTAL FUNDING SOURCES	0	0	134,000	0	0	134,000

W1

DISTRIBUTION MAIN IMPROVEMENTS

Water
DEPARTMENT

PROJECT DESCRIPTION:

This project is a set aside for general waterline improvements that are anticipated to be identified in the updated Water Master Plan, due for completion in early summer of 2010. These projects would improve flow and pressure at specific points in the system as identified by the hydraulic model.

DISCUSSION OF PROJECT:

These improvements are designed to increase flows to certain areas of the City for better fire protection or to replace old deteriorated pipe. Funding is from the Water Fund, to be completed by City crews.

W1 DISTRIBUTION MAIN IMPROVEMENTS						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction		200,000		200,000	100,000	500,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	200,000	0	200,000	100,000	500,000
<u>FUNDING SOURCE</u>						
Water Fund		200,000		200,000	100,000	500,000
Water SDC						0
TOTAL FUNDING SOURCES	0	200,000	0	200,000	100,000	500,000

W2

LINE OVERSIZING PARTICIPATION

Water

DEPARTMENT

PROJECT DESCRIPTION:

Developments in certain areas of the City may trigger the need for excess pipe capacity for future growth, that is beyond what that specific developer needs. This project allows the City flexibility to cost participate in the oversizing of water pipes to adequately prepare for future growth.

DISCUSSION OF PROJECT:

Revenue is collected as system development charges on new sewer hook-ups. The money is used to provide funding flexibility to cost participate with developers to provide increased capacity in the water system.

W2 LINE OVERSIZING PARTICIPATION						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	50,000	50,000	50,000	50,000	50,000	250,000
Equipment/Furniture						0
Other						0
						0
TOTAL	50,000	50,000	50,000	50,000	50,000	250,000
<u>FUNDING SOURCE</u>						
Water Fund	0	0	0	0	0	0
Water SDC	50,000	50,000	50,000	50,000	50,000	250,000
TOTAL FUNDING SOURCES	50,000	50,000	50,000	50,000	50,000	250,000

Water**DEPARTMENT****PROJECT DESCRIPTION:**

This project includes improvements to the water treatment plant as outlined in the Water Master Plan.

DISCUSSION OF PROJECT:

These improvements are needed to rehabilitate the current treatment plant to extend the service life through the next 30 years. Following is a list of projects that has been identified in the 2010 Forest Grove Water Master Plan update (see Master Plan for more information):

- Finished water, transfer pump station, and solids transfer vaults safety improvements - environmental sensor “sniffer,” air ventilation system, associated controls.
- Demo and remove old out-of-service surge tank from filter gallery area.
- Filter Backwash Supply Pump spare parts.
- Replace 12” check valve on suction side of BW pump.
- Replace valves in Filter Gallery (~10 valves) – Staff has been gradually replacing all the valves in the filter gallery with ~10 remaining and intends to include 2-3 each year in the annual budget for the plant.
- Filter media and underdrain inspection - determine if filter media and/or underdrain system (clay Leopold blocks) need replacement.
- Pretreatment Improvements (long-term) – Plate settlers, mechanical sludge collection, and effluent launder replacement. The 2001 Integrated Plan recommended replacement of the sediment basin effluent launders/weirs and installation of a mechanical sludge collection system to improve operations and pretreatment performance. The hydraulics of the sediment basin does not support good settling and therefore impact filter loading/performance. A pretreatment upgrade that would include a retrofit of the basin with plate settlers (or other high rate sedimentation), new effluent launders and mechanical sludge collection would significantly improve pretreatment performance and filtration performance and would reduce the number of days that plant would need to be out of service for sludge removal and during storm events. Pre-treatment improvements should be coordinated to ensure any improvements are compatible and also to consider any future system changes that would change plant flows or raw water quality.
- Mechanical sludge/residuals collection system in sediment basins.
- Plate settlers and launder replacement.

W3 F.G. WATER TREATMENT PLANT MAJOR MAINTENANCE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	10,000	10,000	10,000	10,000	10,000	50,000
Other						0
						0
TOTAL	10,000	10,000	10,000	10,000	10,000	50,000
<u>FUNDING SOURCE</u>						
Water	10,000	10,000	10,000	10,000	10,000	50,000
Water SDC	0	0	0	0	0	0
TOTAL FUNDING SOURCES	10,000	10,000	10,000	10,000	10,000	50,000

W4

WATERSHED MAJOR MAINTENANCE

Water

DEPARTMENT

PROJECT DESCRIPTION:

Improve drainage and roadways within the Watershed.

DISCUSSION OF PROJECT:

The Watershed Road Survey has identified hazards and problems along roads located in the watershed. Projects will install drainage crossings and re-surface existing roads for better surface water run-off. Projects will be improved to Department of Forestry Standards.

W4 WATERSHED MAJOR MAINTENANCE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	20,000	20,000	20,000	20,000	20,000	100,000
Equipment/Furniture						0
Other						0
						0
TOTAL	20,000	20,000	20,000	20,000	20,000	100,000
<u>FUNDING SOURCE</u>						
Water	20,000	20,000	20,000	20,000	20,000	100,000
Water SDC	0	0	0	0	0	0
TOTAL FUNDING SOURCES	20,000	20,000	20,000	20,000	20,000	100,000

W6

23RD/24TH AVENUE (INDUSTRIAL AREA)

Water

DEPARTMENT

PROJECT DESCRIPTION:

Construct new water line underneath a new road that will connect Hawthorne Street and Quince Street. Project will include Asphaltic Concrete (AC) pavement, curbs, gutter, sidewalk, storm drain, sewer, water line, and landscaping to current construction standards.

DISCUSSION OF PROJECT:

This section of roadway is identified on the Transportation System Plan. When the new road goes in, the new water line should be constructed at that time. This project is needed to carry east/west traffic in the north part of town to relieve congestion on Pacific Avenue and provide access to the industrial land identified in the Comprehensive Plan. This project has been postponed pending development of the area. Cost participation will come from adjacent development.

W6 23RD/24TH AVENUE (INDUSTRIAL AREA)						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction					277,325	277,325
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	277,325	277,325
<u>FUNDING SOURCE</u>						
Water Fund	0	0	0	0	0	0
Water SDC					277,325	277,325
TOTAL FUNDING SOURCES	0	0	0	0	277,325	277,325

W8

BARNEY BUY-IN

Water

DEPARTMENT

PROJECT DESCRIPTION:

Purchase additional 800-acre feet storage capacity in Barney Reservoir.

DISCUSSION OF PROJECT:

The 1994 Joint Ownership Agreement – Barney Project provides an expansion in ownership to Forest Grove. This option will be exercised at the time Forest Grove’s water demand shows additional water supply is necessary to meet the City’s need.

W8 BARNEY BUY-IN						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other					2,400,000	2,400,000
						0
TOTAL	0	0	0	0	2,400,000	2,400,000
<u>FUNDING SOURCE</u>						
Water Fund	0	0	0	0	2,400,000	2,400,000
Water SDC	0	0	0	0		0
Water Revenue Bond	0	0	0	0		0
TOTAL FUNDING SOURCES	0	0	0	0	2,400,000	2,400,000

W9

JWC FISH SCREEN AT FERN HILL PUMP STATION

Water

DEPARTMENT

PROJECT DESCRIPTION:

Replace existing fish screen on the intakes at the Joint Water Commission Plant on Fern Hill Road.

DISCUSSION OF PROJECT:

This federally required project requires a federal match, which has not yet been budgeted. This project has been folded into the Tualatin Basin Water Supply Project – which is the raising of Scoggins Dam. Forest Grove is required to participate at our percent ownership.

W9 JWC FISH SCREEN AT FERN HILL PUMP STATION						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	0	0	0	0	320,000	320,000
						0
TOTAL	0	0	0	0	320,000	320,000
<u>FUNDING SOURCE</u>						
Water Fund	0	0	0	0	320,000	320,000
Water SDC	0	0	0	0		0
TOTAL FUNDING SOURCES	0	0	0	0	320,000	320,000

Water**DEPARTMENT****PROJECT DESCRIPTION:**

Initially, this project will study the ozone treatment technology and its applicability and feasibility for both the existing Joint Water Commission (JWC) plant and the expansion plant. If the decision is made to go forward with Ozone treatment, this project will add ozone treatment to the current plant, on a timeline congruent with the expansion plant.

This project was authorized in the FY08/09. The ozone pilot study is a multiyear project and will not be finished by June 30, 2010. Staff estimated 50% of the project cost consumed FY 09/10 and therefore 50% of the project has been budgeted for FY 2010/11.

DISCUSSION OF PROJECT:

The JWC Master Plan study recommends including ozone treatment in the first phase of the treatment plant expansion. If the expansion plant proceeds with ozone treatment, it will also be added to the current plant, so that all plant water produced at that time would be treated with ozone.

Ozone has several benefits: effective treatment of taste and odor, enhanced coagulation for filtration, and treatment of iron and manganese if that should occur in the source water, and oxidation of other contaminants that occur in open river systems. Further, if the Scoggins Dam raise goes forward, it will present new and unknown raw water quality challenges to the JWC treatment plant, which will more effectively be handled by ozone as compared to any present system at the plant today. The 2005 CH2MHILL Facility Plan also recommended ozone addition in future upgrades to the plant to handle "unknown" water quality parameters associated with the Scoggins Dam Raise.

The first part of this project will be to conduct pilot testing in order to provide a more accurate estimate of the ozone dose required for taste and odor and provide additional design information for a full-scale ozone facility. Pilot testing will also determine the impact of ozone on disinfection by-products (Trihalomethane-THMs, haloacetic acids-HAAs, and bromate). The estimated cost for the ozone pilot test is on both raw water sources of the Tualatin River and the Raw Water Pipeline. The ultimate cost will vary depending on the actual scope and duration of the pilot testing.

W10 JWC OZONE TREATMENT PILOT STUDY						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	13,790					13,790
						0
TOTAL	13,790	0	0	0	0	13,790
<u>FUNDING SOURCE</u>						
Water Fund	13,790					13,790
Water SDC						0
TOTAL FUNDING SOURCES	13,790	0	0	0	0	13,790

**Water
DEPARTMENT**

PROJECT DESCRIPTION:

Continuation of Joint Water Commission (JWC) project for water rights consultant of record.

DISCUSSION OF PROJECT:

This project provides continuation of funding for technical assistance relating to the JWC water rights permits. There are several tasks identified under this project for the next fiscal year including work on the JWC permit extension, permit amendment to move JWC permit point of diversion to the Spring Hill Pump, development of the claim of beneficial use for the Scoggins secondary permit for the JWC associated storage contracts, coordination between contract holders for the certification of Bureau of Reclamation's (BOR) secondary permit, and application for a new JWC supplemental water right at the Spring Hill Pump. The JWC water right permit (Permit S-50879 for 75 cfs) needs to be extended to maintain the water right permit for future development. Although the permit initially required construction and complete application of the water to beneficial use by October 1, 1992, the Oregon Water Resources Division (OWRD) has extended this deadline on two occasions. The current deadline for completion is October 1, 2000. The JWC filed an extension application with the OWRD on June 29, 2001 requesting additional time to complete development under the permit. The application is still pending at this time. No changes to this permit, such as a permit amendment to move the point of diversion downstream, can be approved until the pending extension is approved. The current permit application pending at the state is outdated and will be updated with current demands and for coordination with the Tualatin Basin Water Supply Project (TBWSP). After the permit extension is approved JWC will need to submit a permit amendment for a point of diversion change to the Spring Hill Pump as required by the Oregon Division of Fish and Wildlife's (ODFW) fish persistence conditions. This project also includes work to certificate the JWC member agencies contracts as part of the BOR's secondary storage permit (right to release). Finally, the JWC will need to apply for a supplemental water right to the JWC permit due to availability issues associated with that permit as previously presented.

W11 JWC WATER RIGHTS CONSULTANT OF RECORD						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	9,331					9,331
						0
TOTAL	9,331	0	0	0	0	9,331
<u>FUNDING SOURCE</u>						
Water Fund	9,331					9,331
Water SDC						0
TOTAL FUNDING SOURCES	9,331	0	0	0	0	9,331

W14

JWC RAW WATER PIPELINE

Water

DEPARTMENT

PROJECT DESCRIPTION:

Water pipe connecting Hagg Lake with the Joint Water Commission (JWC) water treatment plant.

DISCUSSION OF PROJECT:

During the summer months, stored water is released from Scoggins dam into Scoggins Creek which flows into the Tualatin River and is then pumped out at the treatment plant. The travel from Scoggins dam to the plant, approximately nine hours, causes problems with water loss and water quality, and occasionally causes flooding of properties along the channel. To remedy these problems, a 96-inch diameter pipe 38,000 feet in length is planned to carry water directly from the reservoir to the treatment plant. This same pipeline will also be designed to convey water from the Tualatin River back up to fill Scoggins dam during the winter, for the Tualatin Basin Water Supply Project (TBWSP) partners.

W14 JWC RAW WATER PIPELINE						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	10,000	100,000	100,000	100,000	100,000	410,000
Equipment/Furniture						0
Other						0
						0
TOTAL	10,000	100,000	100,000	100,000	100,000	410,000
<u>FUNDING SOURCE</u>						
Water Fund	10,000	50,000	50,000	50,000	50,000	210,000
Water SDC	0	50,000	50,000	50,000	50,000	200,000
TOTAL FUNDING SOURCES	10,000	100,000	100,000	100,000	100,000	410,000

Water**DEPARTMENT****PROJECT DESCRIPTION:**

This project is for the design of an on-site power generation system to run the existing plant up to 50% of the plant rated peak capacity of 75 million gallons per day (MGD).

DISCUSSION OF PROJECT:

This project would include all design, field investigation, and permitting efforts needed to bid the project construction in FY 2010/11. The Joint Water Commission (JWC) was successfully awarded a \$225,000 matching grant from USAI. Additional grant funding may be available for the construction portion of the project. By having the design completed it is anticipated our success in acquiring funding assistance for construction will be greatly increased.

Uninterruptable or redundant power supply has been identified as a priority by the Carollo Seismic Report and also the Black & Veatch Master Plan. On-site power generation was also listed as a need in the Water Treatment Plant Facility plan that was developed by CH2MHill and adopted by the JWC in April 2005. The JWC is the largest conventional water treatment plant in Oregon, provides water to over 400,000 customers, and drives the economic engine of greater Washington County. The JWC treatment plant is also on the fringe of the Portland General Electric (PGE) power transmission grid and as a result, this critical facility is in one of the most vulnerable locations in the PGE transmission network.

W17 JWC ON-SITE POWER GENERATION						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering	63,318					63,318
Site Preparation						0
Construction		333,333				333,333
Equipment/Furniture						0
Other						0
						0
TOTAL	63,318	333,333	0	0	0	396,651
<u>FUNDING SOURCE</u>						
Water Fund	63,318	333,333				396,651
Water SDC						0
TOTAL FUNDING SOURCES	63,318	333,333	0	0	0	396,651

Water
DEPARTMENT

PROJECT DESCRIPTION:

Update JWC Water Management and Conservation Plan.

DISCUSSION OF PROJECT:

Allows continuation of the existing Water Management Conservation Plan (WMCP) project in new fiscal year. WMCP's are required by the state for undeveloped water right permit extension approvals. The JWC water right permit (S-50879) for 75 CFS currently has a pending permit extension application at the state. The JWC WMCP has been submitted to the state for review during the current fiscal year (August 2009), however, the Water Resources Department has indicated that they have several questions and will require revisions to the plan prior to approval. Comments and requests for additional information are due to the JWC from the state in December 2009. Additional technical assistance from professional services will be required to address comments back to the state and to complete revisions to the plan. Most of the work to finalize the WMCP should be completed in the current fiscal year. Depending on the depth and extent of the state's comments and required revisions, additional technical assistance to finalize the approval of the WMCP has been budgeted as a contingency for the following fiscal year.

W19 WATER MANAGEMENT CONSERVATION PLAN						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	2,000					2,000
						0
TOTAL	2,000	0	0	0	0	2,000
<u>FUNDING SOURCE</u>						
Water Fund	2,000					2,000
Water SDC						0
TOTAL FUNDING SOURCES	2,000	0	0	0	0	2,000

Water
DEPARTMENT

PROJECT DESCRIPTION:

Make improvements to the existing JWC Water Treatment Plant (WTP) Rapid Mix System.

DISCUSSION OF PROJECT:

Rapid mix is used in initial treatment to mix chemicals. Rapid mix improvements are required at the existing plant to bring the existing JWC WTP maximum capacity to 75 MGD. This capacity improvement is expected to be addressed in the phase 1 JWC Water Treatment Plant expansion project.

The current facility only has one (1) rapid mix. Therefore the existing plant has no redundant rapid mix capabilities. Current plants of similar size either being built new, or in existence today have two rapid mix components. The proposed new dual rapid mix, as part of the expansion, will be sized to handle 185 MGD worth of flow and will provide redundancy to the existing plant. Therefore allocation to both the existing and ultimate treatment plant ownerships is warranted.

W22 JWC RAPID MIX UPGRADE EXISTING PLANT						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other				0	48,648	48,648
						0
TOTAL	0	0	0	0	48,648	48,648
FUNDING SOURCE						
Water Fund				0	48,648	48,648
Water SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	48,648	48,648

Water

DEPARTMENT

PROJECT DESCRIPTION:

Update to the JWC Master Plan

DISCUSSION OF PROJECT:

The Oregon Department of Human Services Drinking Water Program requires the JWC to maintain a current master plan for its water system. A JWC Master Plan update is recommended every five years through the planning period of this project. A regular master plan update will provide flexibility to adjust the timing and magnitude of projects based on changing water demands and other conditions.

W23 JWC MASTER PLAN UPDATE

<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other					28,138	28,138
						0
TOTAL	0	0	0	0	28,138	28,138
<u>FUNDING SOURCE</u>						
Water Fund					28,138	28,138
Water SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	28,138	28,138

W24

JWC THICKENER UPGRADE EXISTING PLANT

Water

DEPARTMENT

PROJECT DESCRIPTION:

Make improvements to the existing Joint Water Commission (JWC) water treatment plant solids thickener system.

DISCUSSION OF PROJECT:

Gravity thickener is a Water Treatment Plant (WTP) solids process and used to reduce the volume of liquid in the solids. Gravity thickener improvements are required at the existing plant to bring the existing JWC WTP maximum capacity to 75 MGD. This capacity improvement is expected to be addressed in the phase 1 JWC water treatment plant expansion project.

The first phase of the expansion will include costs for the gravity thickener & a reclamation system and additional costs for mechanical dewatering facilities. According to the CH2MHill 2005 Facility Plan, the existing plant only has 57 MGD worth of gravity thickener capacity and therefore temporary bypass measures were installed as part of the Near Term Improvements project. Currently each of the two existing thickeners has an estimated 28.5 MGD worth of capacity. A third gravity thickener & reclamation component needs to be added with approximately 18 MGD required to bring the current plant up to the 75 MGD level and the remaining 10.5 MGD to be utilized for the expansion. Therefore, a portion of the cost, approximately 63.16%, will be allocated to the existing plant and 36.84% will be allocated to the expansion. The mechanical dewatering facility is needed for the expansion only and is not allocated to the existing plant.

W24 JWC THICKENER UPGRADE EXISTING PLANT						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other				0	66,667	66,667
						0
TOTAL	0	0	0	0	66,667	66,667
<u>FUNDING SOURCE</u>						
Water Fund				0	66,667	66,667
Water SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	66,667	66,667

W25

JWC CLEARWELL UPGRADE EXISTING PLANT

Water

DEPARTMENT

PROJECT DESCRIPTION:

Make improvements to the existing JWC water treatment plant clearwell system.

DISCUSSION OF PROJECT:

A reservoir for storing filtered water of sufficient quantity to prevent the need to vary the filtration rate with variations in demand. The clearwell is also used to provide chlorine contact time for disinfection. Clearwell improvements are required at the existing plant to bring the existing JWC WTP maximum capacity to 75 MGD. This capacity improvement is expected to be addressed in the phase 1 JWC water treatment plant expansion project.

A total of 10 million gallons will be built in the phase 1 expansion, but 2.63 million gallons will be allocated for the use of the existing plant. 8.6 MG is recommended for clearwell capacity at the existing plant.

W25 JWC CLEARWELL UPGRADE EXISTING PLANT						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other				0	56,000	56,000
						0
TOTAL	0	0	0	0	56,000	56,000
FUNDING SOURCE						
Water Fund				0	56,000	56,000
Water SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	56,000	56,000

Water

DEPARTMENT**PROJECT DESCRIPTION:**

This is a category of projects that fall under the regularly occurring, planned capital expenditures.

DISCUSSION OF PROJECT:

The JWC water treatment plant and intake pump station incorporate many pieces of major mechanical equipment: pump, valves, mixers, compressors, and other items. Over time, these have been replaced and rebuilt on an ongoing basis, either as part of a pre-planned replacement, or when they fail. JWC normally budgets every year to allow replacement of failed equipment on an emergency basis, and to allow pre-planned replacements for equipment that is known to need replacement. The following improvements have been recommended:

- Replace the thickener sludge collection drives and sludge pumps, and install a larger sludge drain line.
- Continue replacement of the existing valves in Finished Water Pump Station #1.
- Assess the finished water pump station #1 pumps with respect to performance (flow, power use, and vibration) and replace or rebuild on a schedule based on the assessment.
- Replace the hydraulic and pneumatic valve actuators for Filters 1-8 with electric actuators, for reliability and commonality of spare parts and systems. The timeframe for replacement can coincide with the Phase 1 Water Treatment Plant Expansion.
- JWC Transmission line Inspections.
- Sludge removal every three years.

W26 JWC SHORT TERM CORRECTIVE MEASURES						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	0	80,000	80,000	80,000	80,000	320,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	80,000	80,000	80,000	80,000	320,000
FUNDING SOURCE						
Water Fund	0	80,000	80,000	80,000	80,000	320,000
Water SDC	0					0
TOTAL FUNDING SOURCES	0	80,000	80,000	80,000	80,000	320,000

Water**DEPARTMENT****PROJECT DESCRIPTION:**

Construct a chlorine injection system.

DISCUSSION OF PROJECT:

Twice yearly the JWC is impacted by raw water quality changes which directly impact the residual chlorine demand in transmission lines. The south transmission line is specifically affected due to the added storage (and water aging) associated with the Fern Hill Reservoirs. The temporary solution to date has been the adjustment of the chlorine target leaving the plant. Unfortunately this adjustment (elevation of target) causes higher than desired chlorine residual to be received in Forest Grove which is the closest JWC customer. Forest Grove therefore proposed the installation of a chlorine injection system in the South Transmission Line (on Fern Hill) to allow the JWC to provide lower chlorine residuals at the plant and then inject chlorine where it is specifically needed.

W27 JWC FERN HILL CHLORINE INJECTION SYSTEM						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction		41,190				41,190
Equipment/Furniture						0
Other						0
						0
TOTAL	0	41,190	0	0	0	41,190
<u>FUNDING SOURCE</u>						
Water Fund	0	41,190				41,190
Water SDC	0					0
TOTAL FUNDING SOURCES	0	41,190	0	0	0	41,190

W28 JWC ELECTRICAL ASSESSMENT

Water

DEPARTMENT

PROJECT DESCRIPTION:

This project will review and assess the JWC WTP's original (1974) main electrical systems for reliability, safety, and maintenance / repair.

DISCUSSION OF PROJECT:

Due to the extremely long lead time needed to replace failed components, Staff recommends assessing the components for condition and expected useful life remaining. Staff will come back in FY 11/12 for any replacement items unless replacement is deemed to be an emergency. This project will review and assess the JWC WTP's original (1974) main electrical systems located in and near the original high head pump station. Physically inspect, review for electrical code issues, review existing documentation and testing reports. Review and assess transformers, switch gear, motor control centers, motor starters, and other key components. This study will not address the newer equipment installed in the 1990's.

W28 JWC ELECTRICAL ASSESSMENT						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	13,997					13,997
						0
TOTAL	13,997	0	0	0	0	13,997
<u>FUNDING SOURCE</u>						
Water Fund	13,997					13,997
Water SDC						0
TOTAL FUNDING SOURCES	13,997	0	0	0	0	13,997

W29

JWC SEISMIC MITIGATION EXSITING PLANT

Water

DEPARTMENT

PROJECT DESCRIPTION:

This project will make improvements at the existing plant to minimize damage and protect the safety of staff following a medium earthquake event.

DISCUSSION OF PROJECT:

In September 2007, the JWC engaged a consultant to perform a seismic evaluation of the JWC water treatment plant. The purpose of the evaluation was to asses the reliability of the water treatment plant and associated facilities following potential seismic events and developed recommended improvements to mitigate identified vulnerabilities. Projects were developed at the existing plant to protect plant staff safety and minimize operational damage following a small earthquake event. FY 10/11 will focus on life safety projects. See JWC master plan for a detailed list of overall project improvements.

W29 SEISMIC MITIGATION EXISTING PLANT						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	4,000		40,000			44,000
Equipment/Furniture						0
Contingency						0
						0
TOTAL	4,000	0	40,000	0	0	44,000
<u>FUNDING SOURCE</u>						
Water Fund	4,000		40,000		0	44,000
Water SDC						0
						0
TOTAL FUNDING SOURCES	4,000	0	40,000	0	0	44,000

W30 JWC FILTER REPLACEMENT PROJECT

Water

DEPARTMENT

PROJECT DESCRIPTION:

This project is to repair/replace a failing filter. Currently the filter is boiling during backwash which indicates a potential blown under drain system.

DISCUSSION OF PROJECT:

This project is to repair/replace failing Filter #9. Currently the filter is boiling during backwash which indicates a potential blown under drain system. During clearwell cleaning on December 15, 2009, divers report a cubic yard of filter material deposited at the entrance header to the clearwell. This mound of media was not evident during clearwell inspection of 2008. Staff highly suspects Filter #9 is the source. Filter #9 is currently out of service and under repair as an emergency in the FY 09/10 budget. This project will remove the filter media from filter #9, inspect the under drain system, repair system if needed, and replace filter media. The \$13,330 shown in FY 10/11 is for carry over if project is not fully completed in FY 09/10.

W30 JWC FILTER REPLACEMENT						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	13,330					13,330
Equipment/Furniture						0
Other						0
						0
TOTAL	13,330	0	0	0	0	13,330
<u>FUNDING SOURCE</u>						
Water Fund	13,330					13,330
Water SDC						0
TOTAL FUNDING SOURCES	13,330	0	0	0	0	13,330

Water**DEPARTMENT****PROJECT DESCRIPTION:**

Partial reconditioning of an existing Quonset hut for equipment and material storage needs.

DISCUSSION OF PROJECT:

The Quonset hut will serve as off-site storage of low priority/low use items including, but not limited to: spare inventory of large diameter JWC transmission main pipe and butt straps; emergency water supply trailer; emergency water supply appurtenance; 17 foot boat; spare parts for sludge collection system basin D thru G; other misc spare parts we desire to have on hand for emergency repairs but don't need regularly; future storage for PAC feeder; storage for super sacks of PAC; and Tuff boom for the intake which needs to be removed from the intake each winter.

The project would return the Quonset hut to a serviceable condition. The project would remove existing insulation, install new spray foam insulation, install new electrical service and lighting, replace the existing door and install security. Project would provide 9,000 S.F. of covered storage space.

W32 JWC QUONSET HUT RECONDITIONING						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction		15,532				15,532
Equipment/Furniture						0
Other						0
						0
TOTAL	0	15,532	0	0	0	15,532
FUNDING SOURCE						
Water Fund		15,532				15,532
Water SDC						0
TOTAL FUNDING SOURCES	0	15,532	0	0	0	15,532

W33 JWC WATER TREATMENT PLANT RE-USE

Water _____
DEPARTMENT

PROJECT DESCRIPTION:

This project will include testing to assess the feasibility of land application of solids generated by the JWC Water Treatment Plant.

DISCUSSION OF PROJECT:

As recommended in JWC's 2008 Solids Disposal Study (Solids Disposal Study TM-2, MWH, May 2008), the proposed study will include crop cultivation and testing to evaluate the feasibility of using JWC WTP solids as a potting soil or admixture and assess the potential for aluminum toxicity to plants. Ultimate disposal of JWC WTP solids via land application and/or use as a soil supplement may result in operational cost savings by reducing costs for landfill disposal of WTP solids. As recommended in JWC's 2008 study, it is anticipated this work would be performed by Oregon State University. Anticipated schedule is for scoping and contracting in summer 2010.

W33 JWC WATER TREATMENT PLANT RE-USE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other	9,331					9,331
						0
TOTAL	9,331	0	0	0	0	9,331
<u>FUNDING SOURCE</u>						
Water Fund	9,331					9,331
Water SDC						0
TOTAL FUNDING SOURCES	9,331	0	0	0	0	9,331

Water

DEPARTMENT

PROJECT DESCRIPTION:

Preliminary engineering study, permitting and building of infrastructure.

DISCUSSION OF PROJECT:

The City of Forest Grove proactively seeks all means to most efficiently and most economically meet long-term water demand needs. This preliminary engineering analysis will provide the City of Forest Grove with critical information necessary to best guide critical next-step decisions. The work program proposed will take a preliminary look at Environmental/Regulatory Review, Preliminary Project Definition, Preliminary Hydraulic Analysis, and Preliminary Project Cost Estimates. This project will construct necessary infrastructure in the future to take advantage of this water source.

W47 GALES CREEK INTAKE AND PUMPING STATION						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction				0	2,000,000	0
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	2,000,000	0
<u>FUNDING SOURCE</u>						
Water Fund	0	0	0	0	1,000,000	0
Water SDC	0	0	0	0	1,000,000	0
TOTAL FUNDING SOURCES	0	0	0	0	2,000,000	0

W48

DAVID HILL ROAD WATERLINE

Water

DEPARTMENT

PROJECT DESCRIPTION:

Construct 8" ductile iron water main.

DISCUSSION OF PROJECT:

As a part of the David Hill Road extension project, an extension of the City's water distribution piping system will also occur. It is anticipated that adjacent development will participate in the cost of this project.

W48 DAVID HILL ROAD WATERLINE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction	240,000					240,000
Equipment/Furniture						0
Other						0
						0
TOTAL	240,000	0	0	0	0	240,000
<u>FUNDING SOURCE</u>						
Water Fund						0
Water SDC	240,000					240,000
TOTAL FUNDING SOURCES	240,000	0	0	0	0	240,000

W50

EMERGENCY INTERTIE

Water

DEPARTMENT

PROJECT DESCRIPTION:

Build a water valve station at Heather Street.

DISCUSSION OF PROJECT:

A connection to the JWC north transmission line near Heather Street has been recommended in the Forest Grove Water Master Plan. This project requires designing and constructing a valve station to meter the flow of water into the Forest Grove system. This valve would only be opened in the event of an emergency.

W50 EMERGENCY INTERTIE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction					250,000	250,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	250,000	250,000
<u>FUNDING SOURCE</u>						
Water Fund					250,000	250,000
Water SDC						0
TOTAL FUNDING SOURCES	0	0	0	0	250,000	250,000

W51

HILLTOP WATER SUPPLY

Water

DEPARTMENT

PROJECT DESCRIPTION:

Build 400,000 gallon treated water storage tank and pumping station

DISCUSSION OF PROJECT:

The small, high-elevation land area above the 440 feet elevation, near David Hill, will require a special additional facility for water service. Once the update to the Water Master Plan is complete, this project may be combined with other projects in the same vicinity.

W51 HILLTOP WATER SUPPLY						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering				0	150,000	150,000
Site Preparation						0
Construction				0	1,350,000	1,350,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	0	0	1,500,000	1,500,000
<u>FUNDING SOURCE</u>						
Water Fund						0
Water SDC					1,500,000	1,500,000
TOTAL FUNDING SOURCES	0	0	0	0	1,500,000	1,500,000

W53

EMERGENCY WATER DISPENSER

Water

DEPARTMENT

PROJECT DESCRIPTION:

Purchase one emergency water dispensing Blivet and trailer.

DISCUSSION OF PROJECT:

During an emergency or a large scale water line break, it is anticipated that a section of town could be without water. In this scenario, cities are purchasing Water Blivets that will be used to dispense water in the interim until the distribution system is repaired. This unit is trailer mounted and will be taken to a location near the emergency area. It is connected to the water distribution system through a fire hydrant. Residential customers drive through and fill small water containers with potable water.

W53 EMERGENCY WATER DISPENSER						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	10,000					10,000
Other						0
						0
TOTAL	10,000	0	0	0	0	10,000
<u>FUNDING SOURCE</u>						
Water Fund	10,000					10,000
Water SDC						0
TOTAL FUNDING SOURCES	10,000	0	0	0	0	10,000

W54

DRINKING FOUNTAINS

Water
DEPARTMENT

PROJECT DESCRIPTION:

This project will install drinking fountains or better faucets to encourage the use of the City's water supply for drinking, instead of utilizing bottled water.

DISCUSSION OF PROJECT:

Many buildings throughout the City have insufficient facilities or plumbing to encourage the use of the City's water supply for drinking water. Hence, many departments have water coolers, utilizing plastic water jugs for drinking water. This project will encourage the discontinuance of using the plastic water jugs and instead encourage the use of the City's water supply for drinking water purposes.

W 54 DRINKING FOUNTAINS						
COSTS	2010-11	2011-12	2012-2013	2013-2014	2014-2015	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	15,000					15,000
Contingency						0
						0
TOTAL	15,000	0	0	0	0	15,000
<u>FUNDING SOURCE</u>						
Water Fund	15,000					15,000
Water SDC						0
						0
TOTAL FUNDING SOURCES	15,000	0	0	0	0	15,000

W60

FINISHED WATER STORAGE

Water

DEPARTMENT

PROJECT DESCRIPTION:

Twin 0.18 million gallon reservoirs (total of 0.36 MG) and purchase of property to meet storage requirements in the upper pressure zone by 2030.

DISCUSSION OF PROJECT:

The upper pressure zone needs approximately 0.18 million gallons by 2018, growing to 0.36 million gallons by 2030, due to growth based on forecasted water demands. Twin reservoirs of 0.18 MG each will be built to meet the 2030 storage needs over the next 20 years. Property sufficient for the two reservoirs that provide the proper elevation will be identified and purchased in the next several years, with construction of one of the reservoirs following property acquisition. Currently, this is envisioned to happen within the CIP planning period.

W60 FINISHED WATER STORAGE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction			288,400			288,400
Equipment/Furniture						0
Other		103,000				103,000
						0
TOTAL	0	103,000	288,400	0	0	391,400
<u>FUNDING SOURCE</u>						
Water Fund						0
Water SDC		103,000	288,400			391,400
TOTAL FUNDING SOURCES	0	103,000	288,400	0	0	391,400

Water**DEPARTMENT****PROJECT DESCRIPTION:**

Develop a Water Rights Strategic Plan to utilize the City's Clear Creek and Gales Creek water rights and secure long-term water supply reliability.

DISCUSSION OF PROJECT:

The City of Forest Grove has a certificated water right from Gales Creek and water rights permit for Roaring Creek/Clear Creek. The City's use of this water is limited by water availability in these basins during the summer months. A Water Rights Strategic Plan will evaluate the options the City has to optimize use of these water rights including using them directly or leasing the water rights to interested parties. The Strategic Plan will analyze the seasonal/monthly water availability from the Clear Creek and Gales Creek basins, especially in the summer months when the Forest Grove Water Treatment Plant is water supply-limited. The Water Rights Strategic Plan is critical to allow the City to develop a long-term water supply plan related to Joint Water Commission supply, Tualatin Basin Water Supply Project, and other supply options including Tualatin Valley Irrigation District.

W 62 WATER RIGHTS STRATEGIC PLAN

<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other		30,000				30,000
						0
TOTAL	0	30,000	0	0	0	30,000
<u>FUNDING SOURCE</u>						
Water		15,000				15,000
Water SDC		15,000				15,000
TOTAL FUNDING SOURCES	0	30,000	0	0	0	30,000

Water

DEPARTMENT

PROJECT DESCRIPTION:

Study to evaluate the feasibility of using Tualatin Valley Irrigation District transmission lines to “wheel” (deliver) raw water from the Tualatin River to Forest Grove’s Water Treatment Plant.

DISCUSSION OF PROJECT:

Tualatin Valley Irrigation District (TVID) has transmission line delivering irrigation water from the Tualatin River to its customers surrounding the City of Forest Grove. Based on preliminary discussions with TVID, the north transmission line (N4A) may have excess capacity (approximately 2 million gallons per day) that can be used to deliver water to the City’s water treatment plant for immediate treatment or storage in a reservoir. The City’s own stored water rights from Scoggins Reservoir and Barney Reservoir could be used as the source of supply. The feasibility study would evaluate the engineering feasibility, concept plan, and costs, as well as evaluating administrative and legal issues with wheeling water through TVID’s transmission lines.

W63 TVID WATER SUPPLY FEASIBILITY STUDY						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other			45,000			45,000
						0
TOTAL	0	0	45,000	0	0	45,000
FUNDING SOURCE						
Water Fund			22,500			22,500
Water SDC			22,500			22,500
TOTAL FUNDING SOURCES	0	0	45,000	0	0	45,000

W64 ASSET MANAGEMENT PROGRAM

Water
DEPARTMENT

PROJECT DESCRIPTION:

Asset Management Program is a tool for condition assessment of assets, in order to forecast and schedule appropriate rehabilitation and reconstruction activities in order to assist in producing an annual capital budget program. The Asset Management Program keeps track of current levels of service, life cycle trends and deterioration models. This helps to plan and develop an integrated detailed short term capital budget and projected long range capital budget in order to protect the City's infrastructure investments.

DISCUSSION OF PROJECT:

An Asset Management Program has been recommended out of the Water Master Plan update. The program can help to optimize management of the physical assets of a system to maximize value. Managing assets across facilities can improve utilization and performance, reduce capital costs, reduce asset-related operating costs, extend asset life and subsequently improve return on assets.

W64 ASSET MANAGEMENT PROGRAM						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture						0
Other			103,000			103,000
						0
TOTAL	0	0	103,000	0	0	103,000
<u>FUNDING SOURCE</u>						
Water Fund			103,000			103,000
Water SDC						0
TOTAL FUNDING SOURCES	0	0	103,000	0	0	103,000

**PUBLIC SAFETY
PROJECTS**

PUBLIC SAFETY PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
FF3	Replacement Of Turnouts/Safety Equipment	18,000	19,000	19,000	19,000	19,000	94,000
FF4	Replacement Of Fire Hose, Nozzles, Etc.	12,500	12,500	12,500	12,500	12,500	62,500
FF8	Fire Apparatus Replacement Program	0	50,000	50,000	50,000	50,000	200,000
FF23	Defibrillators	15,300	0	0	0	0	15,300
FF25	Portable Radios	0	10,000	15,000	15,000	15,000	55,000
FF26	Thermal Imager	24,000	0	0	0	0	24,000
FF28	Firefighter Dormitory Remodel	25,000	0	0	0	0	25,000
FF30	Community Emergency Notification Sign	20,000	0	0	0	0	20,000
FF31	Transport Gurney	8,000	0	0	0	0	8,000
FF32	Technical Rescue Trailer	8,000	0	0	0	0	8,000
	FIRE TOTALS	130,800	91,500	96,500	96,500	96,500	511,800
PD11	Replacement Of Mobile And Portable Radios	10,800	10,800	10,800	10,800	10,800	54,000
PD12	Replacement Of MDC's	19,000	18,000	18,000	18,000	18,000	91,000
PD25	Purchase Handheld Citation Writers, Printers And	0	0	57,250	0	0	57,250
PD29	Firearms and Weapons Replacement	7,078	4,300	4,300	4,300	4,300	24,278
	POLICE TOTALS	36,878	33,100	90,350	33,100	33,100	226,528
	PUBLIC SAFETY TOTALS	167,678	124,600	186,850	129,600	129,600	738,328
Bold = NEW PROJECTS							

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Replace turnout on an annual basis and other accessories as needed to insure maintenance of required safety equipment.

DISCUSSION OF PROJECT:

The Fire Department has approximately sixty-five (65) sets of turnouts in the department with an average cost of \$1,700 each. Life of a set of turnouts is approximately five (5) years. The department also has suspenders, gloves and flashlights that are replaced on an as-needed basis resulting in an annual expenditure of approximately \$10,000 to \$15,000. Turnouts are required safety equipment and must be maintained in good condition at all times. Other than the cost of replacing the turnouts, there is no fiscal impact associated with this project.

FF3 REPLACEMENT OF TURNOUTS/SAFETY EQUIPMENT						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	18,000	19,000	19,000	19,000	19,000	94,000
Other						0
						0
TOTAL	18,000	19,000	19,000	19,000	19,000	94,000
FUNDING SOURCE						
General Fund	9,000	9,500	9,500	9,500	9,500	47,000
Fire District	9,000	9,500	9,500	9,500	9,500	47,000
						0
TOTAL FUNDING SOURCES	18,000	19,000	19,000	19,000	19,000	94,000

FF4

REPLACEMENT OF FIRE HOSE, NOZZLES, ETC.

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Replacement of fire hose on an annual basis to insure maintenance of required equipment.

DISCUSSION OF PROJECT:

Replacement of fire hose is a continuous program that results in replacing fire hose when it is approximately seven (7) years of age. Cost of the hose ranges from \$194 per 100 feet for 1-3/4" hose to \$450 per 100 feet for 4" hose with a total of approximately 26,000 feet of hose in service and a total dollar amount of \$81,340 worth of hose. Also included in this is the replacement of nozzles.

FF4 REPLACEMENT OF FIRE HOSE, NOZZLES, ETC.						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	12,500	12,500	12,500	12,500	12,500	62,500
Other						0
						0
TOTAL	12,500	12,500	12,500	12,500	12,500	62,500
<u>FUNDING SOURCE</u>						
FERF	6,250	6,250	6,250	6,250	6,250	31,250
Fire District	6,250	6,250	6,250	6,250	6,250	31,250
						0
TOTAL FUNDING SOURCES	12,500	12,500	12,500	12,500	12,500	62,500

Fire

DEPARTMENT**PROJECT DESCRIPTION:**

The Fire Department's 14 pieces of apparatus are replaced on a scheduled basis. Capital costs are split on a 50/50 basis between the City and Rural District. Pickups are replaced every 7 to 10 years, pumpers are replaced every 17 years, and tankers and ladder trucks are replaced every 20 years.

DISCUSSION OF PROJECT:

The City and the District both maintain a reserve to replace fire apparatus. With the reserve, money to fund replacement of vehicles is built up over the life of the vehicle. This practice maintains annual expenditures for apparatus and allows both the City and District to avoid periods of high and low spending. This funding method is the same method that the City uses to maintain its equipment fund. While there is no measurable fiscal impact associated with this project, technological changes in the vehicles improve vehicle efficiency and improve firefighter productivity.

Slated for purchase in 2010-11:

- None

FF8 FIRE APPARATUS REPLACEMENT PROGRAM						
COSTS	2010-11	2011-12	2012-13	2013-14	2013-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	0	50,000	50,000	50,000	50,000	200,000
Other						0
						0
TOTAL	0	50,000	50,000	50,000	50,000	200,000
FUNDING SOURCE						
Fire Equipment Repl Fund	0	25,000	25,000	25,000	25,000	100,000
Fire District	0	25,000	25,000	25,000	25,000	100,000
						0
TOTAL FUNDING SOURCES	0	50,000	50,000	50,000	50,000	200,000

FF23

AUTOMATIC EXTERNAL DEFIBRILLATORS

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Automatic external defibrillators for all first-out fire department apparatus.

DISCUSSION OF PROJECT:

Automatic external defibrillators are used to deliver electrical shocks to the heart to stimulate cardiac activity. These are used in situations where someone has suffered a heart attack, electrical shock, or other disease or accident process that interrupts the cardiac electrical system. Multiple units in the department have advanced life support capability without an AED available. AED's are a critical life safety item that should be available on all first-out apparatus. Purchase of these AED's (with interpretative screens) will allow for this therapy to be delivered, and allow EMT-Intermediates and Paramedics to administer cardiac medications based on rhythm interpretation.

FF23 DEFIBRILLATORS						
COSTS	2010-11	2011-12	2012-2013	2013-2014	2014-2015	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	15,300					15,300
Other						0
						0
TOTAL	15,300	0	0	0	0	15,300
FUNDING SOURCE						
Fire Equipment Repl Fund	7,650					7,650
Fire District	7,650					7,650
						0
TOTAL FUNDING SOURCES	15,300	0	0	0	0	15,300

FF25

PORTABLE RADIOS

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Replace portable radios used in the day to day fire/rescue/EMS operations.

DISCUSSION OF PROJECT:

Portable radios have be replaced due to general wear and tear from daily use and due to upgrades at Washington County Consolidated Communications Center. The new radios are capable of a larger channel template. A grant was received to purchase new portable radios from the State Homeland Security Program, but on-going replacement will need to be maintained, and is the purpose of this project in the future.

FF25 Portable Radios						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	0	10,000	15,000	15,000	15,000	55,000
Other						0
						0
TOTAL	0	10,000	15,000	15,000	15,000	55,000
FUNDING SOURCE						
Fire Equipment Replacement	0	5,000	7,500	7,500	7,500	27,500
Fire District	0	5,000	7,500	7,500	7,500	27,500
Grant						0
TOTAL FUNDING SOURCES	0	10,000	15,000	15,000	15,000	55,000

FF26

THERMAL IMAGER

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Purchase a thermal imager for fire engine.

DISCUSSION OF PROJECT:

Not all of the fire engines have a thermal imager. Thermal imagers are used in a variety of ways for fire suppression and search & rescue. The use of a thermal imager insures we have found all of the burning in a wall or ceiling without causing more property damage than necessary.

Thermal imagers are also critical to firefighter safety, to allow them to see through heavy smoke conditions, and to rescue situations, allowing them quickly locate victims in fires, water rescues and vehicle accidents with ejected patients.

FF26 THERMAL IMAGER						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	24,000					24,000
Other						0
						0
TOTAL	24,000	0	0	0	0	24,000
<u>FUNDING SOURCE</u>						
FERF	12,000	0				12,000
Fire District	12,000	0		0	0	12,000
						0
TOTAL FUNDING SOURCES	24,000	0	0	0	0	24,000

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Remodel of the living quarters in the fire station to accommodate more intern firefighters.

DISCUSSION OF PROJECT:

To increase firefighter staffing and safety, the Fire Department is expanding the dormitory space to accommodate more intern volunteer firefighters. The building was designed to accommodate this eventual expansion. Expanding the living space would allow the department to expand the number of firefighters that are in the station, improving response time and increasing staffing on emergency scenes for a minimal one-time investment.

FF28 FIREFIGHTER DORMITORY REMODEL						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction	25,000					25,000
Equipment/Furniture						0
Contingency						0
						0
TOTAL	25,000	0	0	0	0	25,000
<u>FUNDING SOURCE</u>						
Fire Equipment Replacement Fund (FERF)	12,500					12,500
Fire District	12,500					12,500
						0
TOTAL FUNDING SOURCES	25,000	0	0	0	0	25,000

FF30

COMMUNITY EMERGENCY NOTIFICATION SIGN

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Purchase of an electronic community notification sign for emergency events, disasters and public education.

DISCUSSION OF PROJECT:

This sign will be used to notify residents of pending emergency events such as wind storms, snow storms, ice storms etc. with emergency procedures, shelter information, etc. Powered by the station generator it can provide information for preparedness and recovery events after a local or region-wide disaster. It can also be used for public education and awareness to lessen the impact of such events.

FF30 COMMUNITY EMERGENCY NOTIFICATION SIGN						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	20,000					20,000
Contingency						0
						0
TOTAL	20,000	0	0	0	0	20,000
FUNDING SOURCE						
FERF	10,000					10,000
Fire District	10,000					10,000
Grant funding						0
TOTAL FUNDING SOURCES	20,000	0	0	0	0	20,000

Fire

DEPARTMENT**PROJECT DESCRIPTION:**

Patient transport gurney.

DISCUSSION OF PROJECT:

The fire department rescue is currently set-up to transport patients when it is critical to patient care for immediate transport, during disaster situations, and during situations where ambulance availability is compromised (traffic, weather delays, system depletion, etc.). The current gurney is aged, unsafe for patients and firefighters, and so technologically out-dated that cannot be maintained. The current gurney is a surplus gurney from Beaverton Fire Department, which was absorbed by TV&R in the late 1980's/early 1990's. The Fire Chief, as the senior paramedic in the department, has not seen a gurney like this since 1989. It also cannot be used in emergency transfers with the local private ambulance company, as none of their paramedics know how to use it (another safety issue). The replacement gurney would be identical to that used by the local ambulance companies to facilitate interoperability.

FF 31 TRANSPORT GURNEY						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	8,000					8,000
Contingency						0
						0
TOTAL	8,000	0	0	0		8,000
FUNDING SOURCE						
General Fund						0
Fire District	4,000					4,000
FERF	4,000					4,000
TOTAL FUNDING SOURCES	8,000	0	0	0		8,000

FF 32

TECHNICAL RESCUE TRAILER

Fire

DEPARTMENT

PROJECT DESCRIPTION:

Technical rescue trailer for transport of structural collapse, confined space and other technical rescue equipment.

DISCUSSION OF PROJECT:

This trailer will be used for the transport of collapsed structure equipment such as shoring, confined space equipment, and other technical rescue equipment. Equipment this would carry includes lumber, pre-assembled shoring, saws and other technical rescue equipment.

FF 32 TECHNICAL RESCUE TRAILER						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	8,000					8,000
Contingency						0
						0
TOTAL	8,000	0	0	0	0	8,000
FUNDING SOURCE						
FERF	4,000					4,000
Fire District	4,000					4,000
Grant funding						0
TOTAL FUNDING SOURCES	8,000	0	0	0	0	8,000

PD11 REPLACEMENT OF MOBILE AND PORTABLE RADIOS

Police

DEPARTMENT

PROJECT DESCRIPTION:

On-going replacement of radios to ensure properly functioning equipment capable of maintaining interagency and interoperability communications. FY 2010-11 replacement to address technological improvements and loss due to equipment usage.

DISCUSSION OF PROJECT:

The Department has a responsibility in maintaining Forest Grove's part in the integrity of the county-wide system.

PD11 REPLACEMENT OF MOBILE AND PORTABLE RADIOS						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	10,800	10,800	10,800	10,800	10,800	54,000
Other						0
						0
TOTAL	10,800	10,800	10,800	10,800	10,800	54,000
FUNDING SOURCE						
Grants						0
CIP Excise Tax Fund	10,800	10,800	10,800	10,800	10,800	54,000
						0
TOTAL FUNDING SOURCES	10,800	10,800	10,800	10,800	10,800	54,000

PD12 REPLACEMENT OF MOBILE DATA COMPUTERS (MDC's)

Police

DEPARTMENT

PROJECT DESCRIPTION:

On-going replacement of MDC's, aligning the purchase of new units for new vehicles.

DISCUSSION OF PROJECT:

The Department has a responsibility to maintain Forest Grove's part in the integrity of the countywide system. It is up to the individual departments in the County to keep current with technology. This technology ensures interoperability between regional law enforcement agencies and the countywide dispatch center. The Department must be prepared to expend the funds necessary to maintain the technology used in the rest of the County agencies. This expenditure projects for the projected life of the in-vehicle mobile data computers. The proposed configuration will support advanced emerging technologies with the mobile data computers such as GPS, mapping, and access to informational databases.

PD12 REPLACEMENT OF MDC'S						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	19,000	18,000	18,000	18,000	18,000	91,000
Other						0
						0
TOTAL	19,000	18,000	18,000	18,000	18,000	91,000
FUNDING SOURCE						
CIP Excise Tax Fund	19,000	18,000	18,000	18,000	18,000	91,000
Homeland Security Grant						0
						0
TOTAL FUNDING SOURCES	19,000	18,000	18,000	18,000	18,000	91,000

PD25 HANDHELD CITATION WRITERS, PRINTERS AND SOFTWARE

Police

DEPARTMENT

PROJECT DESCRIPTION:

Purchase handheld citation writers, printers and software for use by Traffic Officers, and upgrade Municipal Court software to accept new technology.

DISCUSSION OF PROJECT:

Traffic citations are completed by hand and are manually entered into the department's records management system by Records Clerks. They were then hand delivered to Municipal Court and again manually processed. Various officers' handwriting is routinely difficult to discern and this creates errors during data entry. Leveraging technology in this manner improves the efficiency of officers, and records and court personnel. Paper citations are prone to loss or destruction.

The ticket writers would automate citation completion in the field via use of mobile handheld computers which read barcodes on driver's licenses, automatically filling driver's information into the system. The officer would complete remaining fields and print off a copy of the citation for the violator. The information in the handheld computer would subsequently be downloaded into the department's records management system and the Municipal Court system, virtually eliminating paper documents which can be lost, and/or destroyed. With this system, downloading multiple citations can be done in seconds, with zero errors versus several minutes per citation that it takes a Records Clerk to manually enter the citations now.

PD25 - HANDHELD CITATION WRITERS, PRINTERS AND SOFTWARE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	0	0	57,250	0	0	57,250
Other						0
						0
TOTAL	0	0	57,250	0	0	57,250
<u>FUNDING SOURCE</u>						
General Fund Operating						0
CIP Excise Tax Fund	0	0	57,250	0	0	57,250
TOTAL FUNDING SOURCES	0	0	57,250	0	0	57,250

Police

DEPARTMENT**PROJECT DESCRIPTION:**

The department intends to periodically replace firearms/weapons on a periodic basis to ensure no loss of operational capability and ensure firearms/weapons are available as needed to sworn personnel.

DISCUSSION OF PROJECT:

The Department's current inventory of Remington 870 shotguns have been in service for well over 30 years. The department has been successful in repairing and maintaining these weapons, but is experiencing a diminishing return related to the serviceability of the weapons.

The Department has an inventory of AR-15 rifles. At least two of these rifles were purchased in 2002 and over time have deteriorated due to their nature as high velocity, high pressure weapons and their use as training weapons. The department intends to replace two of these weapons yearly, taking older weapons out of operational service and transferring them to exclusively training service. This will ensure 100% operational availability and readiness of this weapons platform while also allowing us to meet our annual training requirements.

The Department has a current inventory of Tasers, including two different models. The department intends to replace older models with newer models and initiate a systematic replacement program to ensure sufficient Tasers are available for operational requirements.

Due to operational and training wear and recalls, the department also intends to replace our primary handgun issued to sworn personnel. The details of the weapons platform are still subject to internal department discussions, but the replacement program would be in concert with a turn-in program to obtain credit, thereby reducing the expenditure for replacement.

The timelines for the replacement program are: 8 Years for Handguns; 5 Years for AR-15 Rifles, 10 Years for Shotguns, and Tasers as needed or manufacturer recommendation. This program will increase the presence of less-lethal options with patrol staff, increase our weapons compatibility, reduce our repair and maintenance costs, and potentially reduce risk exposure for high-risk, low-probability policing events.

PD 29 FIREARMS/WEAPONS REPLACEMENT

COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	7,078	4,300	4,300	4,300	4,300	24,278
Contingency						0
						0
TOTAL	7,078	4,300	4,300	4,300	4,300	24,278
<u>FUNDING SOURCE</u>						
General Fund						0
CIP Excise Tax Fund	7,078	4,300	4,300	4,300	4,300	24,278
						0
TOTAL FUNDING SOURCES	7,078	4,300	4,300	4,300	4,300	24,278

**CULTURE
AND RECREATION
PROJECTS**

CULTURE AND RECREATION PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
L11	Security System for Library Materials	0	0	45,000	0	0	45,000
L15	Furnishings for Renovated Space	100,000	0	0	0	0	100,000
	LIBRARY TOTALS	100,000	0	45,000	0	0	145,000
AQ3	Chemical Recording Device	5,000	0	0	0	0	5,000
PR9	Rogers Park Renovation	0	0	375,000	0	0	375,000
PR13	Trails/Greenways/Linear Parks	205,000	0	0	548,500	0	753,500
PR20	Joseph Gale Park Improvements	0	0	28,000	293,000	0	321,000
PR25	Bard Park Improvements	0	85,000	0	0	0	85,000
PR27	Trail Blower	6,000	0	0	0	0	6,000
PR28	Parks Master Plan	85,000	0	0	0	0	85,000
	AQUATICS & PARKS TOTALS	301,000	85,000	403,000	841,500	0	1,630,500
	CULTURE AND RECREATION TOTALS	401,000	85,000	448,000	841,500	0	1,775,500
Bold =	NEW PROJECTS						

L11

SECURITY SYSTEM FOR LIBRARY MATERIALS

Library

DEPARTMENT

PROJECT DESCRIPTION:

This project will provide for the purchase of a security system to be used with library materials.

DISCUSSION OF PROJECT:

The approximate cost for purchase of security system equipment will be \$20,000 with an additional \$25,000 needed for supplies to convert the library collection to the new system. The use of such a system would prevent the loss of library materials due to theft. This system could be coordinated with RFID technology for future circulation related uses.

L11 SECURITY SYSTEM FOR LIBRARY MATERIALS						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture		0	45,000			45,000
Other						0
						0
TOTAL	0	0	45,000	0	0	45,000
<u>FUNDING SOURCE</u>						
General Fund Reserves		0	45,000			45,000
						0
						0
TOTAL FUNDING SOURCES	0	0	45,000	0	0	45,000

L15

FURNISHINGS FOR RENOVATED LIBRARY SPACE

Library

DEPARTMENT

PROJECT DESCRIPTION:

This project will provide for the purchase of a furniture, shelving, and artwork to furnish the renovated space in the library.

DISCUSSION OF PROJECT:

The approximate cost for purchase of furnishings to complete the renovation project is \$200,000, over the fiscal years of 2009-10 and 2010-11.

L15 FURNISHINGS FOR RENOVATED LIBRARY SPACE						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	100,000					100,000
Other						0
						0
TOTAL	100,000	0	0	0	0	100,000
FUNDING SOURCE						
General Fund Reserves						0
Library Foundation Campaign	100,000					100,000
						0
TOTAL FUNDING SOURCES	100,000	0	0	0	0	100,000

AQ 3

CHEMICAL SYSTEM REPORTING EQUIPMENT

Aquatics

Department

PROJECT DESCRIPTION:

Automated chemical control system to meet new State Dept. of Health requirements for testing chemical levels.

DISCUSSION OF PROJECT:

This project will upgrade the chemical control system at the Aquatic Center. New State Dept. of Health allow automated systems to be fitted with recording devices, so manual tests are required only once per day. Currently manual tests are required every four hours for all three pools.

AQ 3 Automated Chemical Recording Devises						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	5,000					5,000
Contingency						0
						0
TOTAL	5,000	0	0	0	0	5,000
<u>FUNDING SOURCE</u>						
CIP Excise Tax Fund	5,000					5,000
						0
						0
TOTAL FUNDING SOURCES	5,000	0	0	0	0	5,000

PR9

ROGERS PARK RENOVATION

Parks & Recreation

DEPARTMENT

PROJECT DESCRIPTION:

Make improvements to park based on master plan.

DISCUSSION OF PROJECT:

Project includes restroom construction and possible construction of an additional picnic shelter. Also includes expansion of play equipment, the relocation of sand play area and additional benches for park users. This project is identified in the Parks and Recreation Master Plan.

PR9 ROGERS PARK RENOVATION						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering			25,000			25,000
Site Preparation						0
Construction			180,000			180,000
Equipment/Furniture			140,000			140,000
Contingency			30,000			30,000
						0
TOTAL	0	0	375,000	0	0	375,000
FUNDING SOURCE						
Grant funding			187,500			187,500
Park SDC's			187,500			187,500
TOTAL FUNDING SOURCES	0	0	375,000	0	0	375,000

PR13

TRAILS/GREENWAYS/LINEAR PARKS

Park & Recreation

DEPARTMENT

PROJECT DESCRIPTION:

Development of trails/greenways/linear parks that connect these areas to each other and various parks and recreational facilities in the community.

DISCUSSION OF PROJECT:

During the development of the Parks Master Plan in 2002 it became clear that connecting our community with trails and greenways is a high priority to the citizens. These projects provide ten opportunities to circle our community and add trail connections to parklands. Cost will be shared by in-kind donations and SDC funds. The projects listed in the 5 year CIP include the "B" street trail project that will completed during the 2010-11 fiscal year.

PR13 TRAILS/GREENWAYS/LINEAR PARKS						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering				90,000		90,000
Site Preparation						0
Construction	200,000			450,000		650,000
In-Kind Construction Services						0
Equipment/Furniture						0
Land Acquisition						0
Contingency	5,000			8,500		13,500
TOTAL	205,000	0	0	548,500	0	753,500
FUNDING SOURCE						
SDC	85,000			274,250		359,250
Grants	85,000			274,250		359,250
Solid Waste Contribution	5,000					5,000
Street (MSTIP 3b)	30,000					30,000
TOTAL FUNDING SOURCES	205,000	0	0	548,500	0	753,500

Parks & Recreation

DEPARTMENT

PROJECT DESCRIPTION:

This project will improve the park facilities to comply with ADA standards.

DISCUSSION OF PROJECT:

Joseph Gale Park continues to be a heavily used facility. The majority of the park's facilities (restrooms, ballfields, and other equipment) were constructed in the 1960's. This project will replace restrooms, construct walking paths, and upgrade all facilities to ADA standards. Additional benches, picnic tables, drinking fountains, and equipment will be included.

PR20 JOSEPH GALE PARK IMPROVEMENTS						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering			28,000			28,000
Site Preparation						0
Construction				265,000		265,000
Equipment/Furniture						0
Contingency				28,000		28,000
						0
TOTAL	0	0	28,000	293,000	0	321,000
<u>FUNDING SOURCE</u>						
CDBG Grant				293,000		293,000
SDC Funds			28,000			28,000
TOTAL FUNDING SOURCES	0	0	28,000	293,000	0	321,000

PR25

BARD PARK IMPROVEMENTS

Parks & Recreation

DEPARTMENT

PROJECT DESCRIPTION:

Continue improvements to Bard Park.

DISCUSSION OF PROJECT:

Bard Park received a major renovation in FY 2005-06. This project continues this renovation with construction of restrooms and new playground equipment. This well-used facility has playground equipment that was installed in the early 1990's. This equipment was not replaced in the 05-06 renovation.

PR25 BARD PARK IMPROVEMENTS						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture		85,000				85,000
Contingency						0
						0
TOTAL	0	85,000	0		0	85,000
FUNDING SOURCE						
Grants						0
SDC Funds		85,000				85,000
TOTAL FUNDING SOURCES	0	85,000			0	85,000

PR 27

TOW BEHIND BLOWER

Parks & Recreation
Department

PROJECT DESCRIPTION:

Purchase tow behind blower for trail maintenance and leaf pick up.

DISCUSSION OF PROJECT:

This equipment purchase will assure effective use of staff time in two areas. First, is the ongoing maintenance of the trails system being developed. This will be used for debris removal instead of hand blowers. Task has been added as we continue to develop trails in wooded areas that have hazards landing on the trail surface during both the fall and winter months.

PR 30 Tow Behind Blower (Trails System)						
COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering						0
Site Preparation						0
Construction						0
Equipment/Furniture	6,000					6,000
Contingency						0
						0
TOTAL	6,000	0	0	0	0	6,000
FUNDING SOURCE						
CIP Excise Tax Fund	6,000					6,000
Parks SDC						0
Grant funding						0
TOTAL FUNDING SOURCES	6,000	0	0	0	0	6,000

PR28 PARKS, RECREATION AND OPEN SPACE MASTER PLAN UPDATE

Parks & Recreation

DEPARTMENT

PROJECT DESCRIPTION:

Provide an update to the Parks, Recreation and Open Space Master Plan.

DISCUSSION OF PROJECT:

This project will update the Master Plan that was adopted by City Council in 2002. The project will include update and revision of the Parks SDC methodology and fees. Also, included will be the study of a Community Recreation Center that is a part of the Community Vision Statement.

PR 28 PARKS RECREATION AND OPEN SPACE MASTER PLAN UPDATE						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering	85,000					85,000
Site Preparation						0
Construction						0
Equipment/Furniture						0
Contingency						0
						0
TOTAL	85,000	0	0	0	0	85,000
<u>FUNDING SOURCE</u>						
						0
Parks SDC's	85,000					85,000
						0
TOTAL FUNDING SOURCES	85,000	0	0	0	0	85,000

**GENERAL
GOVERNMENT
PROJECTS**

GENERAL GOVERNMENT PROJECTS

CAPITAL OUTLAY SUMMARY SCHEDULE

CIP#	PROJECT	2010-11	2011-12	2012-13	2013-14	2014-15	TOTAL
AS29	Storage Building (Replace Old L&P Bldg)	0	0	160,000	0	0	160,000
AS33	Downtown Parking Improvements	0	0	70,000	0	0	70,000
AS35	Downtown Campus Improvement Project	0	0	0	0	25,000,000	25,000,000
	ADMINISTRATIVE SERVICES TOTALS	0	0	230,000	0	25,000,000	25,230,000
	GENERAL GOVERNMENT TOTALS	0	0	230,000	0	25,000,000	25,230,000
Bold = NEW PROJECTS							

AS29

STORAGE BUILDING (REPLACE OLD L&P BUILDING)

Administrative Services

DEPARTMENT

PROJECT DESCRIPTION:

The project will replace the deteriorating building on B Street across from the Transfer Station that was formerly the Light & Power Department Building.

DISCUSSION OF PROJECT:

The old Light & Power building is currently used for storage. It is an old building and is deteriorating. Our insurance company has asked us what our plan for the building as they believe the building should be torn down and replaced if the City needs the space provided by the building. The insurance company commented the building has fallen into disrepair and will eventually become hazardous. The building is currently used by several departments to store various items. Since the City lacks indoor storage space, the preliminary plan is to construct (erect) a new storage building that can be separated into sections so departments that need to keep their items secure can have a separate area. The replacement building might not be located at that site depending on space availability at other sites.

AS29 STORAGE BUILDING (REPLACE OLD L&P BUILDING)						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation						0
Construction			160,000			160,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	160,000	0		160,000
<u>FUNDING SOURCE</u>						
CIP Excise Tax Fund			80,000			80,000
Capital Projects Fund			50,000			50,000
Light & Power Fund			30,000			30,000
TOTAL FUNDING SOURCES	0	0	160,000	0		160,000

Administrative Services

DEPARTMENT

PROJECT DESCRIPTION:

The project will repair and improve the City-owned downtown parking lots.

DISCUSSION OF PROJECT:

The City-owned parking lots on 19th Street east of Main Street (including the alley from the bank parking lots) and central parking lot behind the downtown business are in need of repair. This project would repair those lots and help improve the appearance of the downtown area. No specific design has been done so the cost of the project is an estimate. For the 19th Street parking lot, it is anticipated that grinding down of some of the parking lot and an overlay with asphalt will be required.

AS33 DOWNTOWN PARKING						
<u>COSTS</u>	<u>2010-11</u>	<u>2011-12</u>	<u>2012-13</u>	<u>2013-14</u>	<u>2014-15</u>	<u>5-YEAR TOTAL</u>
Design/Engineering						0
Site Preparation			10,000			10,000
Construction			60,000			60,000
Equipment/Furniture						0
Other						0
						0
TOTAL	0	0	70,000	0	0	70,000
<u>FUNDING SOURCE</u>						
Capital Projects Fund						0
General Fund			70,000			70,000
						0
TOTAL FUNDING SOURCES	0	0	70,000	0	0	70,000

Administrative Services

DEPARTMENT

PROJECT DESCRIPTION:

The project will construct a new City Civic Center housing City functions, including Police, Administrative Services, Engineering, and Community Development.

DISCUSSION OF PROJECT:

The City has completed a Master Facility Plan Update for the downtown campus (City Hall, Engineering, Police, Fire, and Library), Light & Power, and Public Works. This Master Plan Facility Update considered many options, including a separate Police Station, a remodeled City Hall, co-locating Engineering and Community Development in the current Police Station, as well as constructing one, three story building housing all these functions together. One building holding all the functions would be the most efficient in terms of ongoing operating costs and future repair and maintenance. The project estimate is for this three story building.

AS 35 DOWNTOWN CAMPUS IMPROVEMENT PROJECT

COSTS	2010-11	2011-12	2012-13	2013-14	2014-15	5-YEAR TOTAL
Design/Engineering					3,750,000	3,750,000
Construction					18,750,000	18,750,000
Equipment/Furniture					2,500,000	2,500,000
Contingency						0
						0
TOTAL	0	0	0	0	25,000,000	25,000,000
FUNDING SOURCE						
General Obligation Bond					25,000,000	25,000,000
						0
						0
TOTAL FUNDING SOURCES	0	0	0	0	25,000,000	25,000,000