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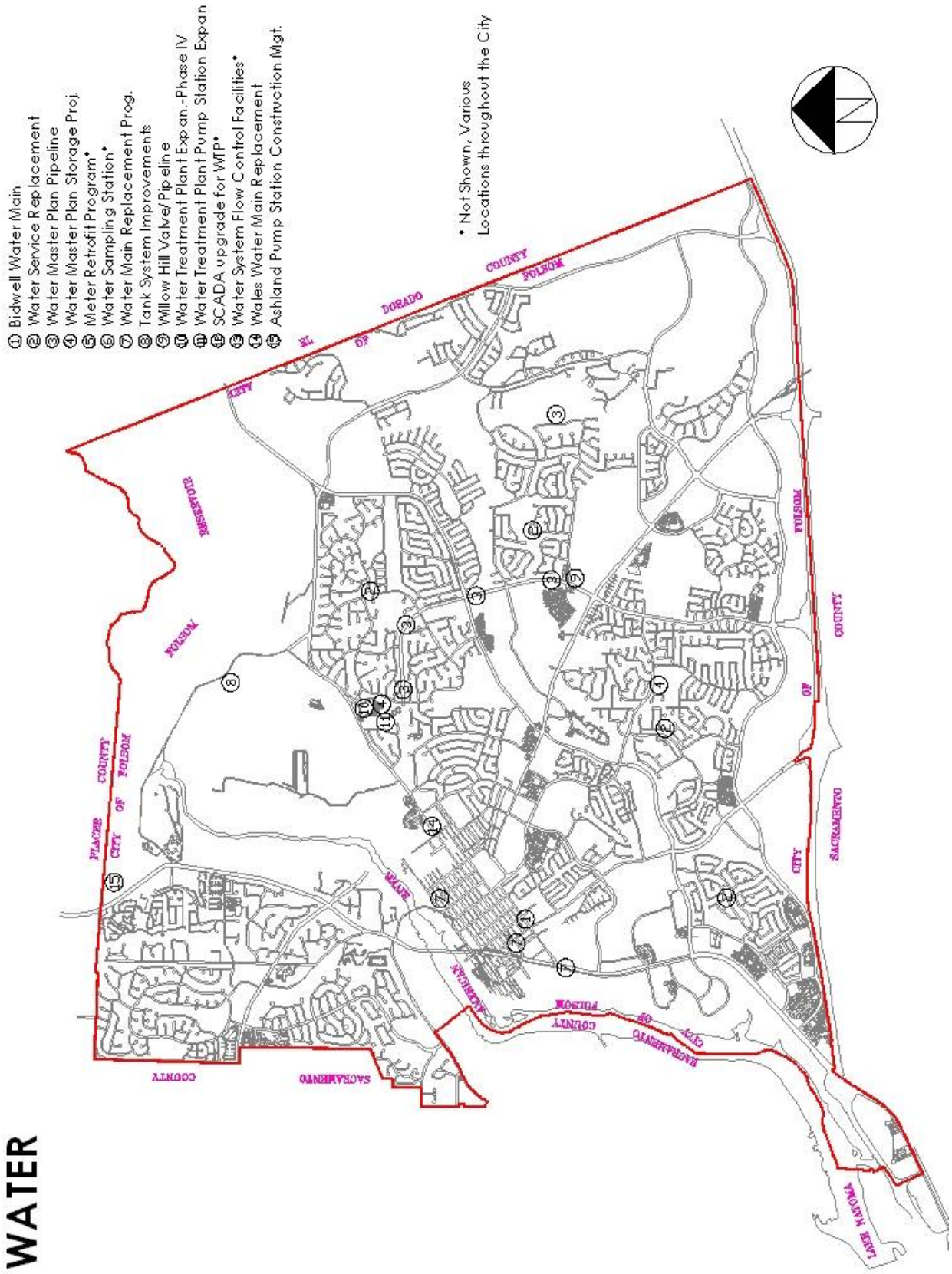
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* Not Shown, Various Locations throughout the City
WATER

Project Cost Summary

Implementation Total All Projects, All Budgeted Costs
The table illustrates the Fiscal Year in which the funds will be spent

Prior Years	FY 2005 - 2006	FY 2006 - 2007	FY 2007 - 2008	FY 2008 - 2009	FY 2009 - 2010	FY 2010 - 2011	Total
39,367,352	12,038,000	1,998,000	2,162,000	2,162,000	2,120,000	1,180,000	60,870,352

Total All Projects, All Budgeted Costs
The table below illustrates the total project costs, indicating the total budget for all projects planned in the current year, or in the year the project commences.

Prior Years	FY 2005 - 2006	FY 2006 - 2007	FY 2007 - 2008	FY 2008 - 2009	FY 2009 - 2010	FY 2010 - 2011	Total
60,570,352	300,000	-	-	-	-	-	60,870,352

Project Operating Impact Summary

Total All Projects (Expenditures minus Revenues)

FY 2005 - 2006	FY 2006 - 2007	FY 2007 - 2008	FY 2008 - 2009	FY 2009 - 2010	FY 2010 - 2011
-	149,000	153,000	158,000	162,000	167,000

Project Name:	**Ashland Pump Station-Construction Management**
Project Number:	New
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Construction of pump station improvements for the Ashland Area, served through the San Juan Water District.
Justification:	This project is needed to meet future demands because of growth and to improve the existing operation of the pump station.
Relationship to other CIP:	None
Alternatives:	Leave pump station as is, but system demand won't be met.
Project Update / Progress Report:	Pre-design report has been completed and design is 90% completed.
Relationship to General Plan or other adopted plan:	Project identified in the City's water master plan updates and technical memoranda.

Ashland Pump Station-Construction Management

Financial Impact

Funding Source:

Sources	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds								
Revenue Bonds								
COP's								
Redevelopment Bonds								
Enterprise								
Loans/Grants								
Impact Fees 521		300,000						300,000
Pay-Go								
Other								
Total		300,000						300,000

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction								
Inspection		300,000						300,000
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total		300,000						300,000

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name:	**Pipeline Water Master Plan**
Project Number:	2307
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Design and construction of major water mains to meet demands based on the recommendation of the Water Master Plan Update and other hydraulic analysis.
Justification:	Computer analysis has indicated that in order to provide the desired level of service to meet maximum day demands plus fire flows and to meet peak hour demand conditions, the proposed facilities are required. Therefore, in order to ensure that existing infrastructure can continue to meet demands as growth continues, this project is needed.
Relationship to other CIP:	This project is related to the Water Treatment Plant (WTP) Expansion Phase IV and to the WTP Pump Station Expansion Projects in that both projects will provide the supply (treatment and pumping capacity) that is needed to meet the demands that these pipelines will serve.
Alternatives:	In order to meet water demands, pumps are increased, and additional mains are installed. Both projects are being proposed, as two CIP's to meet increased demands in accordance with the recommendations in the Water Master Plan Update and other hydraulic analysis.
Project Update / Progress Report:	This project has been on hold pending the completion of the Water Master Plan Update. Pipeline rehabilitation projects have begun and will continue to ensure adequate infrastructure for supply.
Relationship to General Plan or other adopted plan:	This project is the result of the recent work in the Water Master Plan Update. Details regarding location and size are now known, so that the design can be started.

Pipeline Water Master Plan

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	100,000	3,266,667	380,000	440,000	380,000	380,000	380,000	4,946,667
Loans/Grants									
Impact Fees	521	120,000	1,633,333		60,000				1,813,333
Pay-Go									
Other	431	474,820							474,820
Total		600,000	4,900,000	380,000	500,000	380,000	380,000	380,000	7,614,820

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design	694,820	350,000	40,000	50,000	40,000	40,000	40,000	1,254,820
Construction		4,200,000	300,000	400,000	300,000	300,000	300,000	5,800,000
Inspection		350,000	40,000	50,000	40,000	40,000	40,000	560,000
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	694,820	4,900,000	380,000	500,000	380,000	380,000	380,000	7,614,820

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name: **Meter Retrofit Program**

Project Number: 8039

Project Contact: Utilities ~ utilitiesdept@folsom.ca.us

Project Description: This project includes the installation of approximately 6000 residential water meters in the area south of the American River in the City of Folsom water service area. In order to meet USBR requirements, the area needs to be fully metered by 2013.

Justification: Water meter retrofits are a condition of the City's CVPIA water. Thus, the City could lose the 1,200 acre-feet of water supplied to the Ashland Area and the 7,000 acre-feet of "Fazio" water for the East Area. If water is not available, growth cannot occur.

Relationship to other CIP: This project is indirectly related to other projects that require CEQA approval. Meters are required in order to obtain CVPIA water; to meet our Water Forum Agreement requirements; and to meet agreed upon environmental mitigation measures. The City may face environmental challenges on other projects if the agreed upon measures are not completed.

Alternatives: There are no other alternatives. The installation of water meters was agreed to in the Water Forum Agreement, required for CVPIA water, and included as a mitigation measure in prior EIR's. Failure to install water meters would result in losses of existing water entitlements.

Project Update / Progress Report: Meters are being installed as of February 2004 and will continue until completed in 2013.

Relationship to General Plan or other adopted plan: Meter retrofits are a condition of the City's water entitlements in the East Area and Ashland Service Area. Failure to complete the water meter retrofits could threaten these water entitlements. In addition, environmental mitigation measures for previous water capital projects included water meter retrofits as a mitigation measure for the environmental permit process.

Meter Retrofit Program

Financial Impact

Funding Source:

Sources	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds								
Revenue Bonds								
COP's								
Redevelopment Bonds								
Enterprise								
Loans/Grants								
Impact Fees								
Pay-Go								
Other 522	685,000	650,000	600,000	600,000	600,000	600,000		3,735,000
Total	685,000	650,000	600,000	600,000	600,000	600,000		3,735,000

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	685,000	650,000	600,000	600,000	600,000	600,000		3,735,000
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	685,000	650,000	600,000	600,000	600,000	600,000		3,735,000

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name: **Miscellaneous Tank System Improvements**

Project Number: 7016

Project Contact: Utilities ~ utilitiesdept@folsom.ca.us

Project Description: This project involves the design and related site work (found necessary as a result of annual tank inspections) needed to maintain the City's existing water storage tanks. Work could include recoating of the tank's interior or exterior, adding cathodic protection, replacing deteriorated materials and fittings, and other such improvements to help prolong the life of these structures.

Justification: This project meets the City's CIP goal of ensuring that existing infrastructure is maintained. As the City's existing water system ages, interior and exterior coatings deteriorate and need to be replaced. Without continued maintenance on these existing facilities, they will deteriorate to the point where the entire structure will need to be replaced which is extremely costly.

Relationship to other CIP: This project is independent of other projects and will be required as long as the City is the water purveyor.

Alternatives: Each tank will be evaluated on a case-by-case basis. Depending on the extent of maintenance needed, alternatives will be considered at that time.

Project Update / Progress Report: During the last two years, interior coatings have been replaced at the Tower Reservoir and the South Reservoir. The remaining tanks will continue to be inspected and, if appropriate, recoated at a rate of about one tank every other year. Three new tanks have or will be added to the water system as the East Area develops and their coatings should be adequate for at least the next 15 to 20 years.

Relationship to General Plan or other adopted plan: The Water Master Plan recommends that storage tank inspections be conducted every two to three years, which has been the City's practice. Once deteriorated conditions are found, the Master Plan recommends that appropriate action be taken to correct the problem.

Miscellaneous Tank System Improvements

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	726,314	440,000	100,000	440,000	440,000	440,000	100,000	2,686,315
Loans/Grants									
Impact Fees									
Pay-Go									
Other	536	43,271							43,271
Total		769,586	440,000	100,000	440,000	440,000	440,000	100,000	2,729,586

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design			60,000					60,000
Construction	729,586	400,000		400,000	400,000	400,000	100,000	2,429,586
Inspection								
Project Management			30,000					30,000
Materials Testing								
Construction Staking								
Other								
Contingencies	40,000	40,000	10,000	40,000	40,000	40,000		210,000
Total	769,586	440,000	100,000	440,000	440,000	440,000	100,000	2,729,586

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name:	**SCADA Upgrade for Water Treatment Plant**
Project Number:	2328
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Upgrade hardware/software/architecture at the Water Treatment Plant (WTP).
Justification:	SCADA upgrades will ensure the City will stay abreast with anticipated regulatory changes that will affect how the City operates its water system. As monitoring and control strategies change to meet those regulations, communications and hardware must be added/upgraded to help meet the challenge of providing high quality drinking water.
Relationship to other CIP:	The Water Sampling Stations Project has a similar goal: meet the challenge of current and changing regulations through better monitoring.
Alternatives:	Not upgrading SCADA was considered and rejected. Folsom has a very complex water system. Without proper monitoring and control strategies in place that complex system will suffer failures. Upgrading SCADA as changes occur in monitoring and control technologies, and regulations provides an additional tool for management of the water system.
Project Update / Progress Report:	None
Relationship to General Plan or other adopted plan:	None

SCADA Upgrade for Water Treatment Plant

Financial Impact

Funding Source:

Sources	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds								
Revenue Bonds								
COP's								
Redevelopment Bonds								
Enterprise 520	200,638	70,000	190,000	70,000	70,000	70,000	70,000	740,638
Loans/Grants								
Impact Fees								
Pay-Go								
Other								
Total	200,638	70,000	190,000	70,000	70,000	70,000	70,000	740,638

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	200,638	70,000	190,000	70,000	70,000	70,000	70,000	740,638
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	200,638	70,000	190,000	70,000	70,000	70,000	70,000	740,638

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name:	**Storage Water Master Plan**
Project Number:	2332
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	This project includes the design and construction of storage tank improvements within existing zones as recommended in the Water Master Plan Update and the WTP Pump Station Preliminary Design Report. This project involves analyzing potential improvements at the various potential reservoir locations in order to keep more water in the reservoir in the summer months and to fluctuate the water level in the winter months to keep it fresh
Justification:	This project is needed to help meet water quality needs and contributes to maintaining existing infrastructure.
Relationship to other CIP:	This project is indirectly related to the Water Treatment Plant Expansion Phase IV, the Water Treatment Plant Pump Station Expansion, and the Water Master Plan Pipeline all of which involve improvements to the City's ability to provide an increased water supply to the system.
Alternatives:	The specific alternative as to how to correct the water quality issue has not been determined. However, the problem is a result of the tanks location and elevation in the system, which limits to the number of alternative projects.
Project Update / Progress Report:	No work has been started on this project.
Relationship to General Plan or other adopted plan:	This project was recommended in the Water Master Plan Update and the WTP Pump Station Preliminary Design Report

Storage Water Master Plan

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	110,000	150,000						260,000
Loans/Grants									
Impact Fees	521	45,000							45,000
Pay-Go									
Other									
Total		155,000	150,000						305,000

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design	45,000							45,000
Construction	110,000	150,000						260,000
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	155,000	150,000						305,000

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name: **Water Main Replacement Program**

Project Number: 9004

Project Contact: Utilities ~ utilitiesdept@folsom.ca.us

Project Description: This project involves the design and construction of new water mains, valves, and other control devices to replace aging and under-sized facilities within the existing water distribution system. It could also include miscellaneous improvements to the existing water facilities (i.e. telemetry upgrades, pump station modifications, etc.) found necessary to provide continued water service.

Justification: This project meets the City's CIP goal of ensuring that the existing infrastructure is maintained and replaced. As the City's existing water system ages, steel and cast iron water mains deteriorate and need to be replaced. In other areas, providing adequate pressure and fire flow is at a minimum. These existing facilities will eventually need to be replaced to provide an appropriate level of service.

Relationship to other CIP: This project is independent of other projects and will be required as long as the City is the water purveyor.

Alternatives: For small size water mains, the least costly alternative is usually to replace the main with a new main. Other alternatives considered are "slip lining" with polyethylene pipe or using "insituform" lining, but these alternatives are usually more costly when service replacements are involved.

Project Update / Progress Report: This is an annual project, where several main replacements will be designed and implemented each year mainly in the older part of the City. A December 2002 report by Boyle Engineering Corporation has evaluated the Zone 1 water system and proposes a specific plan to replace and upgrade the water mains in this system. The order of main replacement may be modified over future years depending on reported mains leaks, problems, and the effect on water customers.

Relationship to General Plan or other adopted plan: This project is intended to follow the recommendation contained in the Boyle report entitled Zone 1 Water System Study & Improvements, dated December 2002. The project also follows the recommendations contained in the Water Master Plan Update regarding "Phase I Small Pipeline Improvement Projects" and water distribution operation condition assessment program.

Water Main Replacement Program

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	689,802	925,000	405,000	200,000	200,000	330,000	330,000	3,472,324
Loans/Grants									
Impact Fees	521	134,525							134,525
Pay-Go									
Other									
Total		824,327	925,000	405,000	200,000	200,000	330,000	330,000	3,214,327

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design	50,000	50,000	40,000	20,000	20,000	30,000	30,000	240,000
Construction	725,627	825,000	316,000	155,000	155,000	270,000	270,000	2,716,627
Inspection	1,000	1,500	1,500	1,000	1,000	30,000	30,000	66,000
Project Management	4,000	4,500	4,500	2,000	2,000			17,000
Materials Testing	5,000	6,000	6,000	5,000	4,000			26,000
Construction Staking								
Other								
Contingencies	38,700	38,000	37,000	17,000	18,000			148,700
Total	824,327	925,000	405,000	200,000	200,000	330,000	330,000	3,214,327

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name: **Water Sampling Stations**

Project Number: 2418

Project Contact: Utilities ~ utilitiesdept@folsom.ca.us

Project Description: Install 40-50 sampling stations for coliform bacteria monitoring in the water distribution system. These sites will be selected based on water system characteristics and will be randomly located throughout the system.

Justification: State regulation requires all water systems to monitor for the presence of coliform bacteria in drinking water. These sampling stations will provide a more sanitary environment than outside faucets at businesses and residences, which are now used for collecting samples. Current sampling strategies increase the risk of returning false-positives for coliform.

Relationship to other CIP: Once these sites are installed, they can be utilized for collecting samples other than coliform monitoring. The sites can be used to monitor for other water quality parameters to meet increasing water quality regulation for water systems. The SCADA upgrade project for the Water Treatment Plant is intended not only to upgrade technologies but also to enhance and increase monitoring of the water system.

Alternatives: Maintain current sampling strategy. Maintaining sanitary conditions at sites the City does not control is becoming increasingly difficult under the current strategy. Control of site and sanitary conditions caused us to reject this alternative.

Project Update / Progress Report: Water sampling stations have been designed and installation is underway and will be part of the overall water distribution system installation.

Relationship to General Plan or other adopted plan: None

Water Sampling Stations

Financial Impact

Funding Source:

Sources	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds								
Revenue Bonds								
COP's								
Redevelopment Bonds								
Enterprise 520	34,222	15,000	15,000	15,000	15,000			94,222
Loans/Grants								
Impact Fees								
Pay-Go								
Other								
Total	34,222	15,000	15,000	15,000	15,000			94,222

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	34,222	15,000	15,000	15,000	15,000			94,222
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	34,222	15,000	15,000	15,000	15,000			94,222

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name:	**Water Service Replacement**
Project Number:	2226
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Installation of cathodic protection or replacement of copper water services is required to offset the corrosive soil conditions found during development in certain areas of the city.
Justification:	Replace failed copper water services, while providing uninterrupted service to City residents.
Relationship to other CIP:	None
Alternatives:	None
Project Update / Progress Report:	Annual corrosion protection installation and service replacement completed by operation staff.
Relationship to General Plan or other adopted plan:	None

Water Service Replacement

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	442,506	250,000	250,000	250,000	250,000	250,000		1,942,506
Loans/Grants									
Impact Fees									
Pay-Go									
Other	431	187,947							187,947
Total		630,453	250,000	250,000	250,000	250,000	250,000		2,130,453

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	630,453	250,000	250,000	250,000	250,000	250,000	250,000	2,130,453
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	630,453	250,000	250,000	250,000	250,000	250,000	250,000	2,130,453

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name:	**Water System Flow Control Facilities**
Project Number:	2509
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Over the next 5 years (3 sites per year), modify existing flow control facilities to increase control, reliability, and service life. Modifications will reduce employee's exposure to hazardous conditions and environments.
Justification:	Maintain infrastructure, regulatory compliance, and water availability.
Relationship to other CIP:	None
Alternatives:	Differ maintenance, which can lead to a reduced service life of facility or replacing the facility upon failure or replacing the facilities more frequently. Another alternative is to increase the labor force, training and safety equipment to meet confined space regulations.
Project Update / Progress Report:	Document the completion each PRV site modification.
Relationship to General Plan or other adopted plan:	None

Water System Flow Control Facilities

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	140,000	198,000	58,000	87,000	50,000	50,000	50,000	633,000
Loans/Grants									
Impact Fees									
Pay-Go									
Other	431	175,967							175,967
Total		315,967	198,000	58,000	87,000	50,000	50,000	50,000	808,967

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	315,967	198,000	58,000	87,000	50,000	50,000	50,000	808,967
Inspection								
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	315,967	198,000	58,000	87,000	50,000	50,000	50,000	808,967

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-

Project Name: **Water Treatment Plant Expansion - Phase IV**

Project Number: 2331

Project Contact: Utilities ~ utilitiesdept@folsom.ca.us

Project Description: This project includes the design and construction for expansion of the Water Treatment Plant (WTP) resulting in a treatment capacity of 50 mgd. The project includes the replacement of the existing Automatic Backwash (ABW) and temporary gravity filters with 6 new filters, a chlorine contact basin, 2 Actiflo pre-treatment basins, additional site drainage work, landscaping, SCADA, and additions to the existing sodium hypochlorite system.

Justification: The Department of Health Services (DHS) has indicated that the two existing ABW filters and three temporary gravity filters need to be replaced. Additional treatment capacity is also needed to meet growing maximum day demands. Thus, this project will ensure that existing infrastructure is maintained or replaced, and will provide increased capacity to meet projected growth needs.

Relationship to other CIP: This project is not dependent on any other project. However, it does provide the capacity that will be used in the WTP Pump Station Expansion and Water Master Plan Pipelines Projects. Even without further growth, this project would be needed since the filters need to be replaced per DHS.

Alternatives: Other types of treatment options were evaluated in a three-day workshop. However, they all included replacement of the existing ABW filters and increasing the treatment capacity to 50 mgd - the estimated demand at build-out per the Water Master Plan Update.

Project Update / Progress Report: Construction of Phase I of the expansion is approximately 25% complete Design for Phase II of the expansion is 90% complete and on hold pending bonding.

Relationship to General Plan or other adopted plan: This project is the result of the recent work in the Water Master Plan Update. An evaluation of each unit process at the WTP was made to determine the schedule, capital costs and phasing for expansion of the plant. An engineering consultant was then retained to continue this review and develop the final process leading to full replacement of the ABW and gravity filters and developing 50 mgd of capacity to meet the demands at built-out.

Water Treatment Plant Expansion - Phase IV

Financial Impact

Funding Source:

Sources		Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	14,741,706	500,000						15,241,706
Loans/Grants									
Impact Fees	521	5,091,706	500,000						5,591,706
Pay-Go									
Other		11,707,919							11,707,919
Total		31,541,331	1,000,000						32,541,331

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	28,241,331							28,241,331
Inspection	3,300,000	1,000,000						4,300,000
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	31,541,331	1,000,000						32,541,331

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	149,000	153,000	158,000	162,000	167,000

Project Name:	**Water Treatment Plant Pump Station Expansion**
Project Number:	2343
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Construction of pump station improvements for Zones 2 and 3 at the Water Treatment Plant (WTP).
Justification:	In order to meet future demands because of growth and to improve the existing operation of the pump station.
Relationship to other CIP:	This project is tied to the WTP drinking water improvement project as this pump station distributes the treated water to the system.
Alternatives:	Leave the pump station as is, but system demand won't be met.
Project Update / Progress Report:	Pre-design report to be completed first in order to better identify design project and funding requirements. Design phase is currently underway.
Relationship to General Plan or other adopted plan:	Project identified in the City's water master plan updates and technical memoranda.

Water Treatment Plant Pump Station Expansion

Financial Impact

Funding Source:

Sources		Prior Years	FY 2004-2005	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	Total
General Obligation Bonds									
Revenue Bonds									
COP's									
Redevelopment Bonds									
Enterprise	520	1,000,000	1,250,000						2,250,000
Loans/Grants									
Impact Fees	521	1,062,795	1,250,000						2,312,795
Pay-Go	431	100,000							100,000
Other	438	513,213							513,213
Total		2,676,008	2,500,000						5,176,008

Project Cost Estimate:

Elements	Prior Years	FY 2004-2005	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	2,476,008	2,500,000						4,976,008
Inspection	200,000							200,000
Project Management								
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	2,676,008	2,500,000						5,176,008

Operating Impact

Net Operating Effect:

	FY2004-2005	FY2005-2006	FY2006-2007	FY2007-2008	FY 2008-2009	FY 2009-2010
Net Operating Effect	-	-	-	-	-	-

Project Name:	**Willow Hill Raw Waterline Relocation**
Project Number:	2417
Project Contact:	Utilities ~ utilitiesdept@folsom.ca.us
Project Description:	Installation of a second valve on the outlet of the dam on Willow Hill Reservoir and relocation or replacement of the Willow Hill raw waterline in specific problem areas.
Justification:	The Department of Safety of Dams has required the City to install a second valve on the outlet pipe of the Willow Hill Reservoir. The existing raw water line is presently on private property and realignment would alleviate existing problems within private property.
Relationship to other CIP:	None
Alternatives:	Leave the pipeline as is, but maintenance of line and citizen issues warrant relocation.
Project Update / Progress Report:	None
Relationship to General Plan or other adopted plan:	None

Willow Hill Raw Waterline Relocation

Financial Impact

Funding Source:

Sources	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
General Obligation Bonds								
Revenue Bonds								
COP's								
Redevelopment Bonds								
Enterprise 520	840,000	640,000						1,480,000
Loans/Grants								
Impact Fees								
Pay-Go								
Other								
Total	840,000	640,000						1,480,000

Project Cost Estimate:

Elements	Prior Years	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011	Total
Land/ROW								
Environmental								
Plan Check								
Design								
Construction	80,000	70,000						150,000
Inspection	680,000	500,000						1,180,000
Project Management	80,000	70,000						150,000
Materials Testing								
Construction Staking								
Other								
Contingencies								
Total	840,000	640,000						1,480,000

Operating Impact

Net Operating Effect:

	FY 2005-2006	FY 2006-2007	FY 2007-2008	FY 2008-2009	FY 2009-2010	FY 2010-2011
Net Operating Effect	-	-	-	-	-	-