

CIP SUMMARY BY DIVISION

STORM WATER

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	81,155,202	32,715,000	31,050,000	29,750,000	28,300,000	28,300,000	231,270,202
Total Revenues	81,155,202	32,715,000	31,050,000	29,750,000	28,300,000	28,300,000	231,270,202
Expenditure Types							
Engineering - Architecture	9,267,691	2,050,000	2,160,000	1,770,000	1,780,000	1,780,000	18,807,691
Land Acquisition	10,256,086	2,525,000	2,530,000	1,040,000	1,050,000	1,050,000	18,451,086
Contract Construction	61,631,425	26,525,000	26,360,000	26,940,000	25,470,000	25,470,000	192,396,425
Capital Acquisition	0	1,615,000	0	0	0	0	1,615,000
Total Expenditures	81,155,202	32,715,000	31,050,000	29,750,000	28,300,000	28,300,000	231,270,202



CIP SUMMARY BY PROJECT

STORM WATER

Division Priority	Project Number	Project Name	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
1	ST03006	Drainage - ST	41,353,201	16,500,000	18,350,000	17,500,000	17,500,000	17,500,000	128,703,201
2	ST04041	Environmental Permitting - ST	1,263,487	200,000	200,000	200,000	200,000	200,000	2,263,487
3	ST04010	Curb and Gutter - ST	2,638,100	1,500,000	1,050,000	1,050,000	1,050,000	1,050,000	8,338,100
4	ST04038	Stormwater Pollution - ST	6,500,000	4,500,000	500,000	500,000	500,000	500,000	13,000,000
5	ST03008	Subdivision Drainage - ST	900,000	100,000	100,000	100,000	100,000	100,000	1,400,000
6	ST03083	Bridge Repair Storm Water	1,095,282	300,000	350,000	400,000	450,000	450,000	3,045,282
7	ST03059	Flood Control - ST	6,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	11,000,000
8	ST03098	Major Drainage Rehab/ Replace	10,495,650	7,000,000	9,500,000	9,000,000	7,500,000	7,500,000	50,995,650
9	ST03111	Airways over Nonconnah	5,447,800	0	0	0	0	0	5,447,800
10	ST01089	Bartlett Rd/Fletcher - ST	3,668,960	0	0	0	0	0	3,668,960
11	ST03021	Gayoso Bayou Culvert - ST	665,000	0	0	0	0	0	665,000
12	ST03084	Watkins Storm Water	1,000,000	0	0	0	0	0	1,000,000
13	ST03020	Timber Creek Drainage - ST	127,722	0	0	0	0	0	127,722
	ST05005	Capital Acquisition	0	1,615,000	0	0	0	0	1,615,000
Total			81,155,202	32,715,000	31,050,000	29,750,000	28,300,000	28,300,000	231,270,202



CIP DETAIL BY PROJECT

STORM WATER

Project Name Drainage - ST
 Project Number ST03006
 Division Priority 1

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	41,353,201	16,500,000	18,350,000	17,500,000	17,500,000	17,500,000	128,703,201
Total Revenues	41,353,201	16,500,000	18,350,000	17,500,000	17,500,000	17,500,000	128,703,201
Expenditure Types							
Engineering - Architecture	2,714,954	750,000	850,000	850,000	850,000	850,000	6,864,954
Land Acquisition	9,851,086	2,500,000	2,500,000	1,000,000	1,000,000	1,000,000	17,851,086
Contract Construction	28,787,161	13,250,000	15,000,000	15,650,000	15,650,000	15,650,000	103,987,161
Total Expenditures	41,353,201	16,500,000	18,350,000	17,500,000	17,500,000	17,500,000	128,703,201

Project Description / Justification:

This project provides funds for improvements to existing drainage systems throughout the City. All unappropriated allocations are tied to projects previously approved by the Council on an individual basis and are now under design.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Environmental Permitting - ST
Project Number ST04041
Division Priority 2

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	1,263,487	200,000	200,000	200,000	200,000	200,000	2,263,487
Total Revenues	1,263,487	200,000	200,000	200,000	200,000	200,000	2,263,487
Expenditure Types							
Engineering - Architecture	1,263,487	200,000	200,000	200,000	200,000	200,000	2,263,487
Total Expenditures	1,263,487	200,000	200,000	200,000	200,000	200,000	2,263,487

Project Description / Justification:

This project provides funds for the expenses associated with the Tennessee Department of Environment and Conservation permitting and environmental mitigation requirements for various City capital improvement projects.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Curb and Gutter - ST
Project Number ST04010
Division Priority 3

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	2,638,100	1,500,000	1,050,000	1,050,000	1,050,000	1,050,000	8,338,100
Total Revenues	2,638,100	1,500,000	1,050,000	1,050,000	1,050,000	1,050,000	8,338,100
Expenditure Types							
Engineering - Architecture	308,100	50,000	50,000	50,000	50,000	50,000	558,100
Contract Construction	2,330,000	1,450,000	1,000,000	1,000,000	1,000,000	1,000,000	7,780,000
Total Expenditures	2,638,100	1,500,000	1,050,000	1,050,000	1,050,000	1,050,000	8,338,100

Project Description / Justification:

This project provides funds for the repair and replacement of curbs and gutters throughout the City.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Stormwater Pollution - ST
Project Number ST04038
Division Priority 4

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	6,500,000	4,500,000	500,000	500,000	500,000	500,000	13,000,000
Total Revenues	6,500,000	4,500,000	500,000	500,000	500,000	500,000	13,000,000
Expenditure Types							
Engineering - Architecture	1,500,000	100,000	100,000	100,000	100,000	100,000	2,000,000
Contract Construction	5,000,000	4,400,000	400,000	400,000	400,000	400,000	11,000,000
Total Expenditures	6,500,000	4,500,000	500,000	500,000	500,000	500,000	13,000,000

Project Description / Justification:

This project provides funds for the construction of stormwater pollution treatment units such as screens, retention ponds, and clarifiers on various storm drains as required by EPA.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Subdivision Drainage - ST
Project Number ST03008
Division Priority 5

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	900,000	100,000	100,000	100,000	100,000	100,000	1,400,000
Total Revenues	900,000	100,000	100,000	100,000	100,000	100,000	1,400,000
Expenditure Types							
Engineering - Architecture	139,000	10,000	10,000	10,000	10,000	10,000	189,000
Contract Construction	761,000	90,000	90,000	90,000	90,000	90,000	1,211,000
Total Expenditures	900,000	100,000	100,000	100,000	100,000	100,000	1,400,000

Project Description / Justification:

This project provides funds for drainage projects in new developments. The developer is responsible for the costs of the first 100 square feet of any cross-sectional area of a drainage ditch. Any cost beyond the 100 square feet are covered by the City through this project.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Bridge Repair Storm Water
Project Number ST03083
Division Priority 6

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	1,095,282	300,000	350,000	400,000	450,000	450,000	3,045,282
Total Revenues	1,095,282	300,000	350,000	400,000	450,000	450,000	3,045,282
Expenditure Types							
Engineering - Architecture	59,740	40,000	50,000	60,000	70,000	70,000	349,740
Land Acquisition	101,000	25,000	30,000	40,000	50,000	50,000	296,000
Contract Construction	934,542	235,000	270,000	300,000	330,000	330,000	2,399,542
Total Expenditures	1,095,282	300,000	350,000	400,000	450,000	450,000	3,045,282

Project Description / Justification:

This project provides funding for storm water related repairs and improvements to the City's 350 existing bridges. Two to three major projects and several smaller projects are expected each year. The types of projects anticipated include channel improvements to enhance storm water flow, rip rap placement and scour protection.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Flood Control - ST
Project Number ST03059
Division Priority 7

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	6,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	11,000,000
Total Revenues	6,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	11,000,000
Expenditure Types							
Engineering - Architecture	100,000	100,000	0	0	0	0	200,000
Contract Construction	5,900,000	900,000	1,000,000	1,000,000	1,000,000	1,000,000	10,800,000
Total Expenditures	6,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	11,000,000

Project Description / Justification:

This project provides funds for the rehabilitation of existing flood control pumping stations.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Major Drainage Rehab/Replace
Project Number ST03098
Division Priority 8

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	10,495,650	7,000,000	9,500,000	9,000,000	7,500,000	7,500,000	50,995,650
Total Revenues	10,495,650	7,000,000	9,500,000	9,000,000	7,500,000	7,500,000	50,995,650
Expenditure Types							
Engineering - Architecture	2,295,650	800,000	900,000	500,000	500,000	500,000	5,495,650
Contract Construction	8,200,000	6,200,000	8,600,000	8,500,000	7,000,000	7,000,000	45,500,000
Total Expenditures	10,495,650	7,000,000	9,500,000	9,000,000	7,500,000	7,500,000	50,995,650

Project Description / Justification:

This project will provide funding for Major Drainage Rehabilitation that includes the improvement or replacement of major drainage infrastructure throughout the City of Memphis.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Airways over Nonconnah
Project Number ST03111
Division Priority 9

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	5,447,800	0	0	0	0	0	5,447,800
Total Revenues	5,447,800	0	0	0	0	0	5,447,800
Expenditure Types							
Engineering - Architecture	447,800	0	0	0	0	0	447,800
Contract Construction	5,000,000	0	0	0	0	0	5,000,000
Total Expenditures	5,447,800	0	0	0	0	0	5,447,800

Project Description / Justification:

Replace the existing Airways Bridge over Nonconnah Creek which the State has determined to have structural deficiencies due to stream channel degradation.

Operating Budget Impact:

None.



CIP DETAIL BY PROJECT

STORM WATER

Project Name Bartlett Rd/Fletcher - ST
Project Number ST01089
Division Priority 10

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	3,668,960	0	0	0	0	0	3,668,960
Total Revenues	3,668,960	0	0	0	0	0	3,668,960
Expenditure Types							
Engineering - Architecture	438,960	0	0	0	0	0	438,960
Land Acquisition	230,000	0	0	0	0	0	230,000
Contract Construction	3,000,000	0	0	0	0	0	3,000,000
Total Expenditures	3,668,960	0	0	0	0	0	3,668,960

Project Description / Justification:

This project provides funds for improvements to Bartlett Road that creates a three-lane roadway. This is due in large part to the recent widening of Raleigh LaGrange Road and the scheduled widening of Summer Avenue by TDOT, which is expected to create an increase in traffic on Bartlett Road. The bridge near Fletcher Creek is also in need of replacement. Adjustments to the channel are required to conform to Fletcher Creek Storm Water Project which will begin in FY 2010.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Gayoso Bayou Culvert - ST
Project Number ST03021
Division Priority 11

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	665,000	0	0	0	0	0	665,000
Total Revenues	665,000	0	0	0	0	0	665,000
Expenditure Types							
Land Acquisition	15,000	0	0	0	0	0	15,000
Contract Construction	650,000	0	0	0	0	0	650,000
Total Expenditures	665,000	0	0	0	0	0	665,000

Project Description / Justification:

Gayoso Bayou provides drainage for the majority of the downtown area. It was constructed over 100 years ago and the segment at Washington Ave where Wendy's is located is in need of replacement.

Operating Budget Impact:



CIP DETAIL BY PROJECT

STORM WATER

Project Name Watkins Storm Water
Project Number ST03084
Division Priority 12

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	1,000,000	0	0	0	0	0	1,000,000
Total Revenues	1,000,000	0	0	0	0	0	1,000,000
Expenditure Types							
Contract Construction	1,000,000	0	0	0	0	0	1,000,000
Total Expenditures	1,000,000	0	0	0	0	0	1,000,000

Project Description / Justification:

This project provides funds for the replacement of Watkins Bridge over Cypress Creek. The existing bridge has been rated "Scour Critical" by the State. The channel has degraded significantly over the years threatening the bridge piers and the embankments are failing. The replacement bridge will span the creek without piers in the channel which impede storm water flow.

Operating Budget Impact:

None



CIP DETAIL BY PROJECT

STORM WATER

Project Name Timber Creek Drainage - ST
Project Number ST03020
Division Priority 13

	Reprogram	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
Revenue Sources							
General Obligation Bonds	127,722	0	0	0	0	0	127,722
Total Revenues	127,722	0	0	0	0	0	127,722
Expenditure Types							
Land Acquisition	59,000	0	0	0	0	0	59,000
Contract Construction	68,722	0	0	0	0	0	68,722
Total Expenditures	127,722	0	0	0	0	0	127,722

Project Description / Justification:

This project will relieve the recurring flooding in the Country Squire Apartments at Walnut Grove and Germantown Parkway caused by the storm drain pipes under Walnut Grove that were sized prior to the urban development in the area. Environmental restoration remains to be completed.

Operating Budget Impact:



CURRENT VS. PROPOSED CIP COMPARISON (G.O. BONDS)

STORM WATER

Division Priority	Project Number	Project Name	Years	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	Total
1	ST03006	Drainage - ST	FY 2010	16,500,000	18,350,000	17,500,000	17,500,000	0	69,850,000
			FY 2011	16,500,000	18,350,000	17,500,000	17,500,000	17,500,000	87,350,000
			G.O. Bonds Change	0	0	0	0	17,500,000	17,500,000
2	ST04041	Environmental Permitting - ST	FY 2010	200,000	200,000	200,000	200,000	0	800,000
			FY 2011	200,000	200,000	200,000	200,000	200,000	1,000,000
			G.O. Bonds Change	0	0	0	0	200,000	200,000
3	ST04010	Curb and Gutter - ST	FY 2010	1,050,000	1,050,000	1,050,000	1,050,000	0	4,200,000
			FY 2011	1,500,000	1,050,000	1,050,000	1,050,000	1,050,000	5,700,000
			G.O. Bonds Change	450,000	0	0	0	1,050,000	1,500,000
4	ST04038	Stormwater Pollution - ST	FY 2010	4,500,000	500,000	500,000	500,000	0	6,000,000
			FY 2011	4,500,000	500,000	500,000	500,000	500,000	6,500,000
			G.O. Bonds Change	0	0	0	0	500,000	500,000
5	ST03008	Subdivision Drainage - ST	FY 2010	100,000	100,000	150,000	150,000	0	500,000
			FY 2011	100,000	100,000	100,000	100,000	100,000	500,000
			G.O. Bonds Change	0	0	(50,000)	(50,000)	100,000	0
6	ST03083	Bridge Repair Storm Water	FY 2010	300,000	350,000	400,000	450,000	0	1,500,000
			FY 2011	300,000	350,000	400,000	450,000	450,000	1,950,000
			G.O. Bonds Change	0	0	0	0	450,000	450,000
7	ST03059	Flood Control - ST	FY 2010	1,000,000	1,000,000	1,000,000	1,000,000	0	4,000,000
			FY 2011	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
			G.O. Bonds Change	0	0	0	0	1,000,000	1,000,000
8	ST03098	Major Drainage Rehab/ Replace	FY 2010	7,000,000	9,500,000	9,000,000	7,500,000	0	33,000,000
			FY 2011	7,000,000	9,500,000	9,000,000	7,500,000	7,500,000	40,500,000
			G.O. Bonds Change	0	0	0	0	7,500,000	7,500,000
	ST05005	Capital Acquisition	FY 2010	1,615,000	0	0	0	0	1,615,000
			FY 2011	1,615,000	0	0	0	0	1,615,000
			G.O. Bonds Change	0	0	0	0	0	0
Total G.O. Bonds Change				450,000	0	(50,000)	(50,000)	28,300,000	28,650,000



CAPITAL ACQUISITION

STORM WATER

<u>Item Description</u>	<u>Quantity</u>	<u>Unit Cost</u>	<u>Total Cost</u>	<u>Vehicles</u>	<u>Equipment</u>	<u>Furniture</u>	<u>Total Capital Acquisition</u>
24 Ton Trailer	3	40,000	120,000		120,000		120,000
Barricade Truck	1	70,000	70,000	70,000			70,000
Equipment Trailer	1	40,000	40,000		40,000		40,000
Facility Alarm System	1	25,000	25,000		25,000		25,000
Heavy Equipment Attachments	3	30,000	90,000		90,000		90,000
Hybrid SUV	1	25,000	25,000	25,000			25,000
Lowboy Trailer	1	100,000	100,000	100,000			100,000
Single Axle Dump Truck	1	70,000	70,000		70,000		70,000
Tandem Axle Dump Truck	1	130,000	130,000		130,000		130,000
Track Excavator	1	275,000	275,000		275,000		275,000
Tractor	1	125,000	125,000		125,000		125,000
Utility Service Truck	2	70,000	140,000	140,000			140,000
Vactor/Sewer Cleaner Truck	1	330,000	330,000	330,000			330,000
Vibratory Roller/Compactor	1	75,000	75,000		75,000		75,000
Total Division				665,000	950,000	0	1,615,000



