

Capital Improvements Program Budget

Fiscal Year 2011-12



Tempe Mayor & City Council



Hugh Hallman
Mayor



Joel Navarro
Vice Mayor



Robin Arredondo-Savage
Council Member



Shana Ellis
Council Member



Mark Mitchell
Council Member



Onnie Shekerjian
Council Member



Corey Woods
Council Member



Capital Improvements Program Budget FY 2011-12



Charles W. Meyer
City Manager

Ken Jones
Finance and Technology Director

Cecilia Velasco-Robles
Budget Manager

Tom Mikesell
Lead Budget and Finance Analyst

Mark Day
Senior Budget and Finance Analyst

Adam Williams
Senior Budget and Finance Analyst

Natalie Winger
Accounting Supervisor

Anita Erspamer
Executive Assistant

About the Cover

Artist's Rendition: Tempe Town Lake Pedestrian Bridge

A new pedestrian bridge will be located atop the existing downstream dam at the west end of the Tempe Town Lake connecting the south and north shores near the western dam at the Tempe Center for the Arts. The bridge will connect existing bike and pedestrian multiuse paths on the north and south sides of the lake and provide a link to Tempe Center of the Arts, Scottsdale's Indian Bend Wash path system, as well as the Mill Avenue District.



Introduction	Page
CIP Message	1
Resolution of Adoption.....	6
Capital Budget Incremental Impact on FY 2011-12 Operating Budget.....	7
Capital Improvements Projects Map	8
 Schedules and Summaries	
2012-16 Capital Improvements Program Summary.....	9
2012-16 Capital Improvements Program Source of Funds.....	10
Remaining General Obligation Bond Authorizations & Long-Term Outstanding Debt.....	11
Ten Year Historical Trends	12
 Enterprise	13
Water	14
Wastewater.....	23
 Special Purpose	27
Transit.....	28
Rio Salado	31
 General Purpose	33
Police Protection	34
Fire Protection	37
Storm Drains	40
Park Improvements / Recreation	42
General Governmental.....	47
 Transportation	52
Transportation and R.O.W. Improvements	53
Traffic Signals / Street Lighting.....	59



June 30, 2011

To the Honorable Mayor and Members of the City Council:

Pursuant to the Tempe City Charter, the City Manager prepares and submits a Capital Improvements Program (CIP) annually to the City Council. The CIP is a five-year financial plan for the acquisition, construction, expansion, or rehabilitation of infrastructure and capital assets.

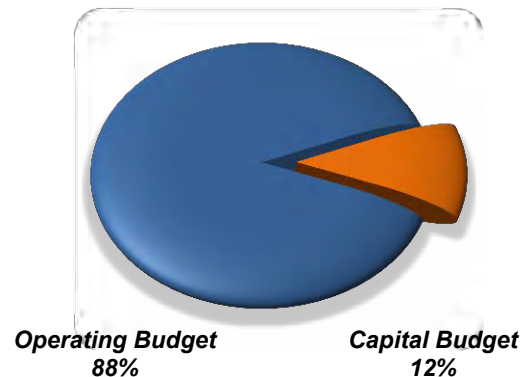
Although capital projects are scheduled throughout the five-year plan, only those projects during the first year of the plan are adopted as part of the City's annual budget. The first year of the CIP constitutes the Capital Budget. The remaining years within the CIP serve as a guide for future planning and are subject to annual review and modification in subsequent years.

ANNUAL BUDGET PROGRAM SUMMARY

As shown in the charts below, the City of Tempe's Financial Program for fiscal year (FY) 2011-12 totals \$413 million. Of this amount, approximately \$49 million is for projects included in the Capital Budget. Also presented is a comparison of the 2010-11 and 2011-12 Capital Budgets. While the total size of the Capital Budget increased only two percent from year to year, the most significant change is the resurgence of General Obligation (G.O.) bond funding for the General Purpose and Transportation programs. The Enterprise program continues to be funded by user charges for water and wastewater service. Each 2011-12 program is discussed further under the Capital Budget Overview and CIP Financing Sections of this message.

Comparison of FY 2010-11 and FY 2011-12 Capital Budgets		
Capital Program	FY 2010-11 Budget	FY 2011-12 Budget
Enterprise		
Water	\$31,046,338	\$19,161,000
Wastewater	12,600,000	10,999,000
Special Purpose		
Transit	446,000	2,789,099
Rio Salado	327,000	4,000,000
General Purpose		
Police	890,954	2,500,246
Fire	600,000	849,800
Storm Drains	0	278,000
Park Improvements	150,000	1,415,000
General Governmental	1,929,463	1,613,600
Transportation		
Transportation and R.O.W	275,000	4,765,888
Traffic Signals/Street Lighting	0	966,171
Total	\$48,264,755	\$49,337,804

FY 2011-12 Total Financial Program	
Operating Budget	\$363.3
Capital Budget	\$ 49.3
Total (\$ millions)	\$412.6



2011-12 CIP PROCESS

The 2011-12 CIP process began in October 2010 with a staff meeting held to review the Capital Budget timeline, capital project request forms, and availability of funds. The meeting consisted of City department heads, departmental capital project managers, and Financial Services staff. Because G.O. bond funding projects had been nearly eliminated from the prior year's (2010-11) CIP due to dismal secondary property tax revenue projections, the meeting carried a tone of uncertainty regarding the eligibility of requests for these projects in the coming year. Ultimately, the establishment of an ongoing process to assess the replacement and maintenance requirements of the City's capital assets and infrastructure was determined to be increasingly important despite future economic uncertainty; consequently, departments were asked to submit all essential capital project requests.



After all project submissions were received, a series of follow-up meetings were held over the ensuing months with department directors and other key department representatives to discuss changes to previously approved projects and to review new project requests. Over the same period of time Financial Services staff integrated the latest forecast estimates for property valuation into long range debt management models to project the City's capacity to enter into additional General Obligation debt to fund capital projects, and worked to identify all other potential project funding sources.

Since project requests far exceeded estimated funding resources, the pool of submitted projects was prioritized and ranked to identify the City's most critical capital requirements. Specifically, projects were graded based on the degree to which they contributed to the preservation of City assets, and the degree to which they addressed public health and safety concerns. As a result, the top priority projects identified by staff were those that would replace or renovate capital assets that have exceeded their useful lives or those that would extend the life of City owned assets and infrastructure through scheduled preventative maintenance. These were projects that staff felt would be irresponsible to not complete.

Not surprisingly, the majority of the projects identified as top priorities fell into the General Purpose and Transportation programs as these programs fund most of the City's basic streets, facilities, and capital asset replacement and maintenance efforts.

Because top project priorities were identified as described above rather than based on known funding availability, and because the City's capacity to issue G.O. debt was forecast to be critically diminished at the time, specific funding sources for top priority projects were not identified. Staff recognized that an approach of establishing CIP project priorities through an asset management and public health and safety prioritization process would entail broadened funding strategies and perhaps policy adjustments for City Council consideration.

During two City Council Issue Review Sessions (IRS) in February 2011, the City Council reviewed all submitted capital projects including complete descriptions of each project. City staff discussed the current condition of the City's infrastructure, and strategies implemented by staff members to prioritize necessary projects.

In March 2011, the City Manager and Financial Services staff members worked, at the City Council's direction, to identify a predictable revenue stream to pay existing tax-supported debt and take on new voter-approved debt to maintain the City's existing infrastructure. Staff was also directed to reduce the amount of property tax funds held in the Debt Service Fund, once a predictable revenue stream was identified. These efforts resulted in the development of a draft property tax stabilization policy.

In April 2011, the City Manager and Financial Services staff held two public forums to solicit input from Tempe residents regarding the City's current capacity to pay for infrastructure maintenance, the City's prioritization of projects to be included in the 2011-12 CIP, and the proposed new funding strategies including the new property tax stabilization policy under consideration. The City Manager and Financial Services staff returned to the City Council with a formalized tax stabilization policy for further discussion in May 2011, and adoption, along with the 2011-12 CIP, on June 2, 2011. The new property tax stabilization policy is discussed in more detail under the CIP Financing section below.

CAPITAL BUDGET OVERVIEW

The Capital Budget consists of the following program areas: Enterprise, General Purpose, Special Purpose, and Transportation projects. The Enterprise program totals \$30.2 million and includes Water and Wastewater projects, which as shown in the table below, account for 61% of the total Capital Budget in FY 2011-12. The General Purpose program includes Police, Fire, Parks and General Governmental projects and totals \$6.6 million.

FY 2011-12 CIP by Program		
	\$ Millions	% of Total
Enterprise	\$30.2	61%
General Purpose	6.6	13%
Special Purpose	6.8	14%
Transportation	5.7	12%
Total	\$49.3	

The Special Purpose program includes Transit and Rio Salado projects, and represents \$6.8 million, or 14%, of funded projects in FY 2011-12. The Transportation program includes street and sidewalk renovation and construction, traffic signals, and lighting projects. Transportation program funding totals \$5.7 million, representing 12% of the Capital Budget.

Individual project highlights from the 2011-12 Capital Budget are included on the following page.



CAPITAL BUDGET HIGHLIGHTS

Below are project highlights from the Capital Budget for FY 2011-12:

Enterprise Program

City Water system projects (\$19.2 million) including:

- Continued water / wastewater bond funding for required water quality improvements to meet current and future water quality regulations at the Johnny G. Martinez Water Treatment Plant (\$4.1 million)
- Continued water / wastewater bond funding for required water quality improvements to meet current and future water quality regulations at the South Tempe Water Treatment Plants (\$12.1 million)

City Wastewater system projects (\$11 million) including:

- Continued bond funding for 91st Avenue Wastewater Treatment Plant capacity expansion (\$7.5 million)

Special Purpose Program

Funding for the Transit program (\$2.8 million) including:

- New federal grant funding for design and construction improvements along Hardy Drive between Broadway road and University Drive (\$1.4 million)
- New federal grant funding for design and construction of a shared use path under Loop 202 at the 202 and Loop 101 traffic interchange (\$1 million)

Funding for the Rio Salado Program (\$4 million) including:

- New funding for the initial design and engineering phases of the planned construction of a new Tempe Town Lake Dam (\$4 million).

General Purpose Program

Funding for the City's Police and Fire Protection Programs (\$3.4 million) including:

- Continued bond funding for the Police / City Radio System Replacement (\$1.9 million)
- Continued bond funding for new Fire Department Fire Truck Replacement (\$600 thousand)

Park Improvements / Recreation Program (\$1.4 million) including:

- New bond funding to for replacement and repair of Athletic Field Light Poles (\$1 million)

General Governmental Program (\$1.6 million) including:

- Continued pay-as-you go funding for the Municipal Arts Program (\$300 thousand)
- New bond funding for the repair, replacement and maintenance of various City facilities (\$1.3 million)

Transportation Program

Funding for Transportation and Right-of-Way, and Traffic Signals and Street Lighting Improvements (\$5.7 million) including:

- Bond funding for intersection reconstruction, and for the resurfacing, reconstruction and repair of both major City and neighborhood streets (\$4.3 million)
- Bond funding for street light pole replacement, and various technological improvements to traffic signals (\$966 thousand)

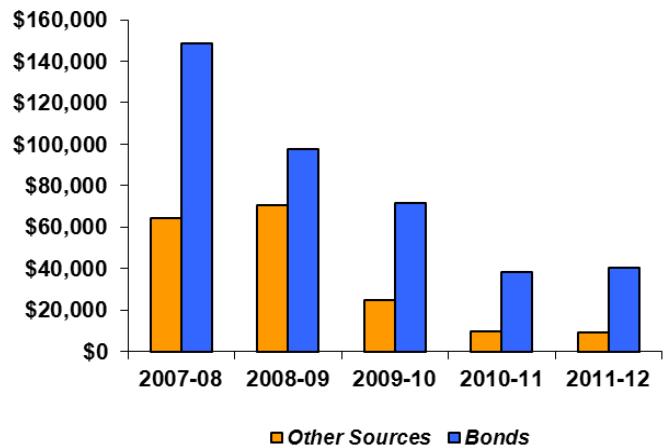


CAPITAL IMPROVEMENTS PROGRAM FINANCING

As shown in the charts below, Tempe's capital program has historically been funded through a combination of bonds and other sources, including pay-as-you-go financing, outside revenues, grants and capital project fund balances. The availability of these various revenue sources and the capacity to use them have historically served as the primary benchmark in determining how many projects could / would be included in the annual Capital Budget. In other words, projects would be included in the CIP to the extent funds were available.

FY 2011-12 Sources of Funds		
	\$ Millions	% of Total
Water / Wastewater Bonds	\$29.2	59%
General Obligation Bonds	11	22%
Outside Revenue	4.1	8%
Fund Balances	4.2	9%
Pay-as-You-Go Financing	.8	2%
Total	\$49.3	

CIP Funding Source Comparison - Last Five Years



Because FY 2008-09 included the final phase of large appropriations of City transit tax and federal grants as the main funding sources for the completion of the City's share of the metropolitan Light Rail system, CIP funding sources other than bonds saw a sharp decline between FY 2008-09 and 2009-10. Bond appropriations between the same two years decreased as a result of project progress and completion in the Enterprise Program which translated into declining funding requirements.

Between FY 2009-10 and 2010-11 the Capital Budget decreased in size by 50%; not due to reduced capital needs, but solely because of the steep decline in local property values resulting from the economic downturn. Between tax year 2009-10 and 2011-12 Tempe property values fell 31% and are projected to fall by another ten percent over the next two years.

Since the majority of property tax revenue the City collects is restricted to the payment of debt service on bonds, the City's ability to bond finance new projects under the General Governmental and Transportation Programs in FY 2010-11 was decimated. As a result, the City elected to severely limit planned bond-financed projects in the adopted 2010-11 CIP, and to formulate funding strategies in preparation for the 2011-12 CIP.

As mentioned in the CIP Process Section above, the City Council ultimately adopted a property tax stabilization policy in June 2010 that would effectively enable the City to continue to issue bonds to maintain its basic infrastructure under the General Purpose and Transportation project programs. Prior to the adoption of this policy annual secondary property tax collections were projected to decline from \$25 million in FY 2009-10 to \$14.5 million in 2011-12; declining further to \$11.2 million by FY 2014-15 before property value recovery would begin to have a positive impact on tax collections in 2015-16.

Not only did this scenario paint a picture wherein the City would soon not be able to pay for its currently outstanding G.O. debt, but the City would exhaust its debt service reserve within six years. Without a change to its property tax policies, the City would have had no capacity to issue new tax-supported debt for approximately another ten (10) years. From an asset preservation and public health and safety perspective, this scenario was not feasible for a responsible municipal government.

The new property tax stabilization policy established the secondary property taxes to be collected in FY 2011-12, based on property values from 2005-06 (prior to the housing "bubble" and subsequent collapse), adjusted for inflation based on the Western States Consumer Price Index. The policy also limits future increases in total City property tax collections to the same CPI inflationary index, not to exceed 3.3% annually, plus taxes collected from new property added to the tax rolls. The policy also prescribed a range for the City's debt service reserve of between 4% and 8% of the outstanding principal balance of all property tax supported debt at any time within a 20 year horizon.

This policy not only provides a predictable revenue source to pay existing debt and allows for the issuance of responsible amounts of new G.O. debt, but it redirects the annual development of the CIP toward the City's highest project priorities. The G.O. bond funded projects in the adopted 2011-12 CIP are aimed at maintaining the City's basic infrastructure under the General Purpose and Transportation programs; there are no new system expansions or quality of life enhancing projects included.

The City's capacity to issue bonds to finance ongoing and new projects under the Enterprise Program has not faltered because the funding source used to pay debt service on these bonds is revenue collected from user fees for water and wastewater services; not property tax revenue. The Water and Wastewater capital programs, in general, saw about a \$10 million decline from 2010-11 due to major projects nearing completion in the Water program, and a \$5 million dollar per year decline in budgeted payments in support of the 91st Avenue Wastewater Treatment Plant.



FY 2011-12 capital budget funding sources other than bonds total \$10 million which is consistent with the total amount appropriated in FY 2010-11. Federal grants received for transit and transportation related projects, and development fees associated with water / wastewater projects make up the bulk of the outside revenue budgeted. Due to tremendous economy-related operating budget problems faced over the last two years, pay-as-you-go financing continues to remain anemic.

The FY 2011-12 funding sources are identified in further detail in the Capital Improvements Program Source of Funds table in the Schedules and Summaries section, as well as in the individual project descriptions.

DEBT MANAGEMENT PLAN

In addition to the management of existing debt and associated reserves, the City also forecasts future debt within a framework of policy priorities and financial capacity. Current and anticipated capital improvement objectives, available operating revenue, tax base fluctuations, and reserve levels are all evaluated on an ongoing basis to estimate the extent to which the City may issue additional tax supported debt.

This active debt management ensures the City can efficiently analyze information such as declining revenues and assess the long-term implications for our debt portfolio in order to make proactive decisions about how much new debt capacity is available today.

Additionally, in support of the City's new property tax stabilization policy, debt management economic models will continue to be updated annually and employed to monitor how annual secondary property tax levy amounts will impact the City's Debt Service Reserve in future years.

Debt management is also a key financial practice contributing to the maintenance of the City's favorable bond ratings. Tempe's current G.O. bond ratings are shown below.

Fitch	AAA
Moody's	Aa1
Standard & Poor's	AAA

In closing, the completion of a budget requires the effort of many people. To the Mayor, City Council, City Manager, department directors and staff, and to the Budget Division whose efforts provided invaluable assistance to me in its preparation, I express my sincere appreciation.

Respectfully Submitted,

Ken Jones
Finance and Technology Director

RESOLUTION 2011.35

A RESOLUTION DETERMINING AND ADOPTING FINAL ESTIMATES OF PROPOSED EXPENDITURES OF THE CITY COUNCIL OF THE CITY OF TEMPE, MARICOPA COUNTY, ARIZONA ADOPTING A FIVE-YEAR CAPITAL IMPROVEMENTS PROGRAM FOR THE PERIOD JULY 1, 2011 THROUGH JUNE 30, 2016

WHEREAS, Section 5.06 of the Tempe City Charter requires the Manager to prepare and submit to the City Council a five-year Capital Improvements Program, and

WHEREAS, the Manager has prepared and submitted said five-year Capital Improvements Program to the City Council for its consideration and adoption, and

WHEREAS, the Council has duly considered the contents of said Capital Improvements Program and finds it to be in the best interest of the City of Tempe;

NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF TEMPE AS FOLLOWS:

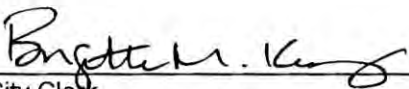
That the program summary entitled "2011-12 Capital Improvements Program Summary" on file in the office of the City Clerk (also attached hereto), is hereby approved and adopted as a planning guide to use in the scheduling and development of capital facilities for the ensuing five-year period.

PASSED AND ADOPTED BY THE CITY COUNCIL OF THE CITY OF TEMPE, ARIZONA THIS 2nd DAY OF JUNE, 2011.



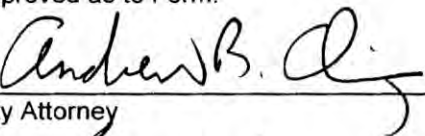
Mayor

Attest:



City Clerk

Approved as to Form:



City Attorney

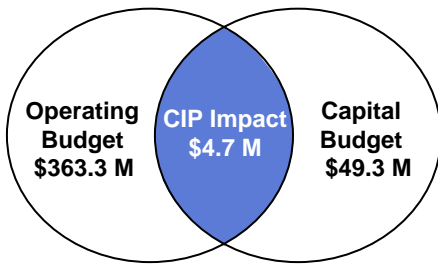


Finance and Technology Director

Capital Budget Incremental Impact on FY 2011-12 Operating Budget



Although the City of Tempe prepares a Capital Budget separate from the Operating Budget, the two budgets are linked. These links include operating and maintenance costs associated with new facilities, debt service payments for new debt financed projects, new capital outlay appropriations, and pay-as-you-go financing from operating revenues. As shown in the diagram and table below, these incremental impacts total \$4.7 million in FY 2011-12.



As part of the Capital Improvements Program, departments are asked to identify those capital projects that have an impact on the operating budget, and quantify the impact in terms of operation and maintenance.

Incremental Impact of Capital Budget on Operating Budget - All Funds	
	FY 2011-12
New Debt Service	
Enterprise	\$2,539,413
Transportation	\$146,078
General Purpose	485,330
New Operations and Maintenance	1,053,306
Water / Wastewater Fund	
Pay-As-You-Go Financing	429,600
Total	\$4,654,027

The table below lists the projects in the Enterprise and General Purpose Programs with identified operating impacts, and includes the projected fiscal impact on the FY 2011-12 operating budget in the Water and General Fund.

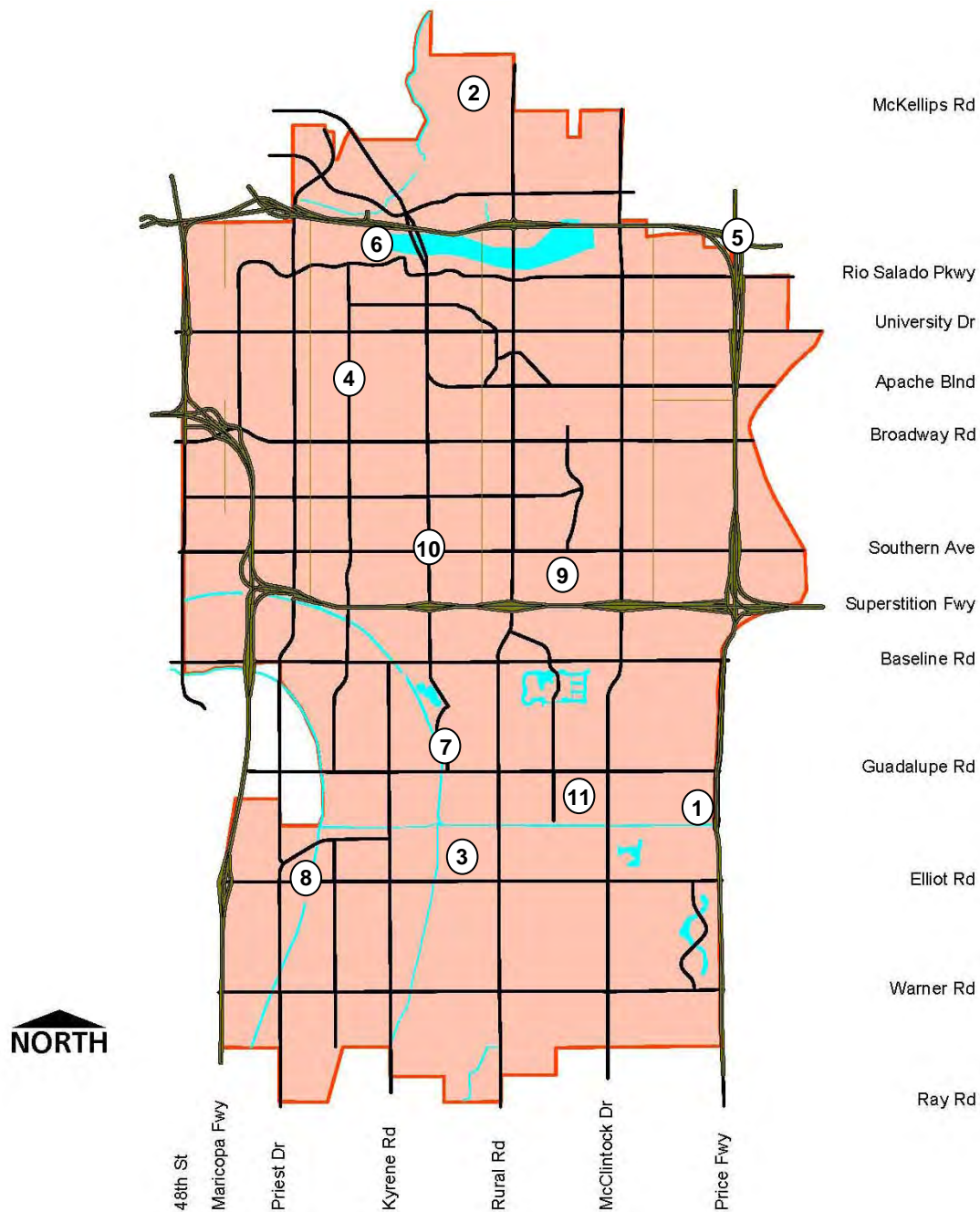
As the Johnny G. Martinez (JGMWTP) and South Tempe Water Treatment Plant (STWTP) expansion projects progress toward completion, new operating budget appropriations are added to cover increasing costs associated with plant improvements required to meet current and future water quality regulations.

FY 2011-12 Detailed Operating and Maintenance Impacts of Capital Improvements		
Program / Project	\$Amount	Fund
Enterprise		
JGMWTP Water Quality Upgrades	\$190,000	Water
Ken MacDonald Golf Course Recharge Project	21,300	Water
STWTP Improvements	745,000	Water
General Purpose		
City Regional Radio System Maintenance and Replacement	42,000	General
Fire Laptop Replacement	50,006	General
Technology Integrated Police Systems (TIPS)	5,000	General
Total Operating Impacts	\$1,053,306	

The increase in the STWTP operating budget primarily addresses increased chemical expenses. The JGMWTP increase is solely for increased electricity costs.

The bulk of new operating appropriations for the Ken MacDonald Golf Course Recharge project will cover land lease expenses paid to the Ken MacDonald Golf Course for a well located on the property.

Because the three public safety projects under the General Fund are all information technology related projects, new operating appropriations are provided to cover annual hardware and software maintenance costs associated with the projects.



Location	Project Description
1.	South Tempe Water Treatment Plant Improvements
2.	Johnny G. Martinez Water Treatment Plant Improvements
3.	Ken MacDonald Golf Course Recharge Project
4.	Hardy Drive Street Improvement
5.	Tempe Rio Salado Underpass – Under 202 at 101
6.	Town Lake Downstream Dam Replacement
7.	City Facilities Rehabilitation
8.	Asphalt Mill and Overlay
9.	Neighborhood Street Rehabilitation
10.	Intersection Reconstruction
11.	Residential Street Surface Treatments

2011-12 Capital Improvements Program Summary



Program	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
		2012-13	2013-14	2014-15	2015-16	
Enterprise Program						
Water	19,161,000	5,630,000	6,681,000	6,706,000	15,470,000	53,648,000
Wastewater	10,999,000	10,851,000	7,000,000	9,576,000	9,599,000	48,025,000
Total Enterprise	30,160,000	16,481,000	13,681,000	16,282,000	25,069,000	101,673,000
Special Purpose Program						
Transit	2,789,099	-	-	-	-	2,789,099
Rio Salado	4,000,000	1,379,780	424,000	43,605,600	-	49,409,380
Total Special Purpose	6,789,099	1,379,780	424,000	43,605,600	-	52,198,479
General Purpose Program						
Police Protection	2,500,246	1,175,848	5,589,362	1,522,777	1,582,764	12,370,996
Fire Protection	849,800	530,000	1,267,000	580,000	-	3,226,800
Storm Drains	278,000	300,000	350,000	350,000	350,000	1,628,000
Park Improvements	1,415,000	975,000	1,335,000	2,035,000	2,125,000	7,885,000
General Governmental	1,613,600	2,015,810	1,972,110	1,642,820	1,730,690	8,975,030
Total General Purpose	6,656,646	4,996,658	10,513,472	6,130,597	5,788,454	34,085,826
Transportation						
Transportation and R.O.W.	4,765,888	4,558,823	6,240,555	4,374,553	3,767,035	23,706,854
Traffic Signals / Street Lighting	966,171	1,375,000	1,152,619	605,000	605,000	4,703,790
Total Transportation	5,732,059	5,933,823	7,393,174	4,979,553	4,372,035	28,410,644
TOTAL PROGRAM	49,337,804	28,791,261	32,011,646	70,997,750	35,229,489	216,367,950

2011-12 Capital Improvements Program Source of Funds Summary



Program	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
		2012-13	2013-14	2014-15	2015-16	
Enterprise Supported						
Water / Wastewater Bonds	29,160,000	15,481,000	12,681,000	15,282,000	24,069,000	96,673,000
Development Fees	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	5,000,000
Total Enterprise Supported	30,160,000	16,481,000	13,681,000	16,282,000	25,069,000	101,673,000
Special Purpose						
Transit						
Federal Grants	2,422,456	-	-	-	-	2,422,456
Transit Tax Revenues	366,643	-	-	-	-	366,643
Total Transit	2,789,099	-	-	-	-	2,789,099
Rio Salado						
Rio Salado Fund Balance	4,000,000	-	-	-	-	4,000,000
Unauthorized G.O. Bonds	-	1,379,780	424,000	43,605,600	-	45,409,380
Total Rio Salado	4,000,000	1,379,780	424,000	43,605,600	-	49,409,380
Total Special Purpose	6,789,099	1,379,780	424,000	43,605,600	-	52,198,479
General Purpose						
General Obligation Bonds	4,419,634	2,980,848	7,126,312	2,965,000	2,475,000	19,966,794
Unauthorized G.O. Bonds	1,312,000	1,851,000	3,250,350	3,002,777	3,062,764	12,478,891
Water / Wastewater Fund	429,600	164,810	136,810	162,820	250,690	1,144,730
Racketeer Influenced and Corrupt Organizations Act (RICO) Funds	495,412	-	-	-	-	495,412
Total General Purpose	6,656,646	4,996,658	10,513,472	6,130,597	5,788,454	34,085,826
Transportation						
General Obligation Bonds	5,280,231	5,394,823	5,517,638	4,979,553	4,372,035	25,544,280
Federal Grants	242,528	539,000	1,875,536	-	-	2,657,064
Capital Projects Fund Balance	209,300	-	-	-	-	209,300
Total Transportation	5,732,059	5,933,823	7,393,174	4,979,553	4,372,035	28,410,644
TOTAL PROGRAM	49,337,804	28,791,261	32,011,646	70,997,750	35,229,489	216,367,950

Remaining General Obligation Bond Authorizations



2008 Voter Authorization	Original Authorization	Prior Issues	2011-12 Issue	Remaining Authorization
Water / Wastewater	113,300,000	52,025,302	-	61,274,698
Police Protection	10,900,000	8,745,000	2,004,834	150,166
Fire Protection	21,110,000	250,000	849,800	20,010,200
Community Services / Park Improvements / Library	51,800,000	15,025,000	1,415,000	35,360,000
Streets / Transportation / Storm Drains	44,200,000	1,080,000	5,430,231	37,689,769
TOTAL	241,310,000	77,125,302	9,699,865	154,484,833

Long-Term Outstanding Debt Summary

July 1	2008	2009	2010	2011
General Obligation Bonds				
Water / Wastewater	282,520,000	285,735,000	305,177,545	287,621,092
Police Protection	32,085,000	43,675,000	49,120,000	49,720,000
Fire Protection	8,695,000	11,010,000	10,785,000	11,155,000
Storm Drains	3,775,000	3,600,000	3,495,000	2,705,000
Park Improvements	27,575,000	32,960,000	36,688,500	34,515,000
Library/Museum	1,395,000	4,940,000	11,721,500	11,410,000
Streets/Transportation	51,550,000	60,080,000	60,855,000	57,175,000
Total G.O. Debt Outstanding	407,595,000	442,000,000	477,842,545	454,301,092
Tempe Sports Authority Corp. Bonds / COP				
Certificates of Participation (COP)	625,000	-	-	-
Total Tempe Sports Authority Corp. Bonds/COP	625,000	-	-	-
Excise Tax Bonds				
Water / Wastewater	-	16,720,000	16,175,000	46,930,000
Performing Arts	47,340,000	43,640,000	39,780,000	35,730,000
Transit	138,065,000	135,480,000	132,745,000	129,905,000
Rio Salado	32,320,000	30,760,000	29,130,000	27,435,000
General Governmental	23,400,000	29,680,000	28,815,000	35,700,000
Cemetery Enterprise	2,050,000	1,965,000	1,875,000	1,785,000
Total Long-Term Outstanding Debt	\$651,395,000	\$700,245,000	\$726,362,545	\$731,786,092



Fiscal Year	Budgeted Capital Improvements Program	Outstanding Principal FY End	Debt Service Requirements P & I	Net Secondary Assessed Value	%Change in Secondary Assessed Valuation	Property Tax Rate (\$)		
						Primary	Secondary	Total
2001-02	85,541,430	205,950,000	26,675,235	1,456,361,617	7.4	.53	.82	1.35
2002-03	95,318,794	252,480,000	23,996,164	1,556,492,294	6.9	.52	.83	1.35
2003-04	117,968,707	280,525,000	27,243,978	1,688,452,415	8.5	.55	.80	1.35
2004-05	177,118,222	362,225,000	27,696,707	1,768,877,385	4.8	.53	.82	1.35
2005-06	189,971,703	452,490,000	35,620,916	1,904,426,188	7.7	.52	.88	1.40
2006-07	196,728,491	581,595,000	44,105,855	2,006,703,332	5.4	.52	.88	1.40
2007-08	212,706,469	651,395,000	52,988,091	2,401,898,465	19.7	.51	.89	1.40
2008-09	168,033,325	700,245,000	59,795,499	2,656,948,194	10.6	.51	.89	1.40
2009-10	96,310,568	726,362,545	68,975,861	2,767,488,865	4.2	.49	.91	1.40
2010-11	48,264,755	731,786,092	69,753,500	2,512,995,468	(9.2)	.52	.88	1.40
2011-12	49,337,804	731,845,476	70,070,871	1,957,328,610	(22.1)	.66	1.13	1.79

The budgeted CIP reached a historical peak in FY 2007-08 primarily due to increased spending in the Transit Program to fund the City's portion of design and construction of the metropolitan area light rail transit system. The FY 2008-09 CIP included the City's final contribution to light rail funding as the project was completed in December 2008.

While the reduction in the FY 2009-10 CIP is largely due to the decreased spending in the Transit Program, bond appropriations between FYs 2008-09 and 2009-10 also decreased as a result of project progress in the Enterprise program which reduced funding requirements.

Severe local property value declines caused by the economic downturn are the principal reason the FY 2010-11 CIP was 50% less than the 2009-10 CIP. The City elected to severely limit planned G.O bond financed projects in the adopted 2010-11 CIP, and to formulate funding strategies in preparation for the 2011-12 CIP.

As mentioned in the CIP Message, the City Council adopted a property tax stabilization policy in June 2010 that would effectively enable the City to continue to issue G.O bonds to maintain its basic infrastructure under the General Purpose and Transportation project programs starting again in 2011-12.

The newly adopted property tax stabilization policy established the estimated amount of secondary property taxes collected in FY 2010-11 (\$22.1 million) as a base year to which future annual levies would be tied. Prior to the adoption of this policy, annual secondary property tax collections were projected to decline to \$14.5 million in 2011-12, and decline further to \$11.2 million in FY 2014-15 before property value recovery would begin to have a positive impact on tax collections in 2015-16.

Between FY / tax year 2009-10 and 2011-12 Tempe property values fell 31% and are expected to fall at least another ten percent over the next two years. As shown above, in order to collect the same amount of secondary property tax in 2011-12 as is estimated to be collected in 2010-11, with much lower total property values, required a property tax rate increase of 39 cents.



Enterprise Program

*Water and Wastewater projects total
\$30.2 million in FY 2011-12
and account for 61% of the total
2011-12 appropriated CIP budget*



The Enterprise component of the Capital Improvements Program consists of the Water and Wastewater programs. Combined, they constitute \$30.2 million of the \$49.3 million Capital Improvements Program for FY 2011-12. The City's Capital Budget for this area is driven largely by federal and state compliance requirements and associated plant capacity expansions. A total of \$29.2 million of Water / Wastewater Bonds will be sold to fund these projects in FY 2011-12. These bonds are repaid by user charges for service delivery in both programs. The remaining program funding will come from development fees.

Major Water Program projects in FY 2011-12 include continued upgrades at the Johnny G. Martinez and South Tempe Water Treatment Plants, the final construction phase of a new Environmental Laboratory Facility, and numerous waterline improvements. Two projects, the Ken MacDonald Golf Course Recharge project and continued funding for expansion at the 91st Avenue Wastewater Treatment Plant, account for 83% of the 2011-12 Wastewater program. The program also includes funding for ongoing sewer line replacement and repair.

2011-12 CIP Projects - Water Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Distribution System Fittings: 3299999	Water / Wastewater Bonds	230,000	230,000	230,000	230,000	230,000	1,150,000
Environmental Laboratory Facility: 3203499	Water / Wastewater Bonds	540,000	-	-	-	-	540,000
JGMWTP Capital Equipment Replacement: 3200089	Water / Wastewater Bonds	250,000	250,000	250,000	250,000	250,000	1,250,000
JGMWTP Water Quality Upgrades: 3201099	Water / Wastewater Bonds	4,055,000	2,325,000	-	-	-	6,380,000
New Production Wells: 3200019	Water / Wastewater Bonds	100,000	1,500,000	1,500,000	1,500,000	1,500,000	6,100,000
SCADA Master Plan and Implementation: 3204400	Water / Wastewater Bonds	250,000	250,000	-	-	-	500,000
Scottsdale Road Water Transmission Main (Curry Rd. to Rio Salado Parkway): NA	Water / Wastewater Bonds	-	-	-	-	6,253,000	6,253,000
Small Meter Replacement Program - 2" and under: 3209319	Water / Wastewater Bonds	175,000	175,000	175,000	200,000	200,000	925,000
STWTP Capital Equipment Replacement: 3200079	Water / Wastewater Bonds	250,000	250,000	250,000	250,000	250,000	1,250,000
South Tempe Water Treatment Plant Improvements: 3203219	Water / Wastewater Bonds	12,100,000	-	-	-	-	12,100,000
Undergrounding of Water Aqueduct at the JGMWTP: NA	Water / Wastewater Bonds	-	-	-	-	2,511,000	2,511,000
Water Line Replacement and Repair: 3299989	Development Fees	500,000	500,000	500,000	500,000	500,000	2,500,000
Waterline Replacements of High Frequency Break Areas: NA	Water / Wastewater Bonds	-	-	3,626,000	3,626,000	3,626,000	10,878,000
Well #9 Pump to Waste Line: 3204410	Water / Wastewater Bonds	561,000	-	-	-	-	561,000
Well Rehabilitation: 3203549	Water / Wastewater Bonds	150,000	150,000	150,000	150,000	150,000	750,000
Program Total		19,161,000	5,630,000	6,681,000	6,706,000	15,470,000	53,648,000

Distribution System Fittings



Project Description

This Project provides for the acquisition, assembly and installation of water works infrastructure including meters, valves, fire hydrants and water lines.

This project assures that all water distribution appurtenances are maintained and replaced in accordance with all State, Federal and Industry Standards. This will make certain our residents' health and wellbeing is protected and that we are realizing all possible revenue from our meters.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,150,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,150,000

Project Number: 3299999
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$230,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$230,000	\$230,000	\$230,000	\$230,000	\$230,000	\$1,150,000

Environmental Laboratory Facility



Project Description

This is the final year of funding for this project to complete the design and construction of a Leadership in Energy and Environmental Design (LEED) certified environmental laboratory facility necessary to continue to analyze the quality of drinking water and reclaimed water supplies as required under federal and state environmental laws, and to ensure the safest possible water supply. Rapidly emerging regulations governing drinking water and reclaimed water supplies have created a nearly 5-fold increase in the last 8 years in the number of analyses that Tempe must conduct to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Technological changes necessary to detect pollutants at much lower concentrations have also increased our laboratory footprint. Additionally, the Water Utilities Division has launched a process control analytical program that will allow use of analytical data to better ensure that the processes for water and wastewater treatment are effective and sustainable.

Without this project, Tempe will increasingly depend on costly contract laboratories to provide water quality analyses.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$525,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$540,000

Project Number: 3203499
Estimated Start Date: 07/01/09
Estimated Completion Date: 06/30/12

2011-12 Source of Funds

Water / Wastewater Bonds \$540,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$540,000	\$0	\$0	\$0	\$0	\$540,000

JGMWTP Capital Equipment Replacement



Project Description

This project provides for annual capital equipment replacement requirements at the Johnny G. Martinez Water Treatment Plant. Every year there are unexpected failures of pumps, valves, and other operating equipment due to fatigue, wear, structural failure and many other reasons. These failures cannot always be predicted even though the Water Utilities division is developing comprehensive preventive and predictive maintenance programs and procedures.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,250,000

2011-12 Source of Funds

Water / Wastewater Bonds \$250,000

Project Number: 3200089
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

JGMWTP Water Quality Upgrades



Project Description

This project includes planning, design, permitting and construction of facilities to improve water quality at the Jonny G. Martinez Water Treatment Plant (JGMWTP). Additional improvements are required to meet water quality regulations. This project includes installation of enhanced coagulation treatment facilities, groundwater treatment and blending system, modifications to finished water reservoir and miscellaneous other plant improvements.

Estimated Project Costs

Legal / Administration	\$100,000
Land Acquisition	\$0
Permit Fees	\$875,000
Design and Engineering	\$200,000
Survey / Staking	\$20,000
Construction Management	\$50,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,135,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,380,000

2011-12 Source of Funds

Water / Wastewater Bonds \$4,055,000

Project Number: 3201099
Estimated Start Date: Ongoing
Estimated Completion Date: 03/31/13

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$4,055,000	\$2,325,000	\$0	\$0	\$0	\$6,380,000

New Production Wells



Project Description

This project will connect three Salt River Project (SRP) wells located along the Western Canal, and drill and outfit one new City of Tempe well. Connection of the three SRP wells will be complete in FY 2011-12. The new Tempe well will be permitted during FY 2012-13 and constructed during FYs 2013-14 and 2014-15. These additional wells provide groundwater as a backup supply during drought or plant shut down and for blending to improve water quality.

Estimated Project Costs

Legal / Administration	\$101,000
Land Acquisition	\$0
Permit Fees	\$351,000
Design and Engineering	\$1,193,000
Survey / Staking	\$101,000
Construction Management	\$698,000
Furnishings / Equipment	\$0
Construction / Improvement	\$9,955,000
Geotech / Material Testing	\$101,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,100,000

Project Number: 3200019
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$100,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$100,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$6,100,000

SCADA Master Plan and Implementation



Project Description

SCADA (Supervisory Control and Data Acquisition) systems allows remote monitoring and operation of critical equipment. This allows efficient operation of water and wastewater facilities. The use of SCADA helps alert staff to issues such as main breaks, pump breakdowns or other equipment failures, which can have adverse environmental impacts. Over the past 10 years, the current SCADA system has evolved, become increasingly complex and equipment has been added at each of the City of Tempe Water facilities. Data provided from the current system is used to forecast future design needs, and to meet both regulatory and record retention requirements. The primary objectives of the Master Plan will be to review the current SCADA systems' functionality, life cycle costs, and technical needs for the next ten year period and establish a business-based vision of SCADA performance and support. The final product will identify gaps in the existing SCADA system, make recommendations for standardization of equipment and technology (both hardware and software) and provide an estimate of future SCADA related costs for budgeting purposes.

Estimated Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$14,000
Design and Engineering	\$52,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$430,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$500,000

Project Number: 3204400
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$250,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$250,000	\$250,000	\$0	\$0	\$0	\$500,000

Scottsdale Rd. Water Transmission Main (Curry Rd. to Rio Salado Parkway)



Project Description

This project will install a redundant 30-inch water transmission main from Curry Road to Rio Salado Parkway on Scottsdale Road. This project will provide the additional hydraulic capacity needed to move water from the Johnny G. Martinez Water Treatment Plant (JGMWTP) to the downtown area and areas further to the south, as well as, improve pressures in the area north of the Salt River when moving water to the north from the South Tempe Water Treatment Plant during the annual JGMWTP shutdown. This project will also provide redundant capacity under the Salt River / Town Lake should there be a need to remove one of the existing river crossings from service for maintenance or should a pipeline failure occur.

Estimated Project Costs

Legal / Administration	\$50,000
Land Acquisition	\$0
Permit Fees	\$176,000
Design and Engineering	\$598,000
Survey / Staking	\$50,000
Construction Management	\$349,000
Furnishings / Equipment	\$0
Construction / Improvement	\$4,980,000
Geotech / Material Testing	\$50,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,253,000

Project Number: NA
Estimated Start Date: 07/01/15
Estimated Completion Date: 12/30/16

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$0	\$6,253,000	\$6,253,000

Small Meter Replacement Program - 2" and under



Project Description

This Project provides for the replacement of revenue generating water meters that are 15 years or older. This will help increase water conservation through accurate metering. By replacing these meters the City will realize increased revenue and accurate water accounting from meters that have reached the end of their useful life.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$925,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$925,000

Project Number: 3209319
Estimated Start Date: 07/01/08
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$175,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$175,000	\$175,000	\$175,000	\$200,000	\$200,000	\$925,000

South Tempe Water Treatment Plant Improvements



Project Description

This project includes planning, design, permitting and construction of additional treatment facilities and the repair / replacement of aging equipment at the South Tempe Water Treatment Plant.

Improvements are required to meet current and future water quality regulations. This project included a comprehensive study of treatment alternatives. Improvements include enhanced coagulation, new powdered activated carbon system, improved coagulant dosing, reservoir chlorine dosing system, additional sludge drying facilities, well water discharge structures, reservoir drains and replacement of the finished water pump station. Major operating budget impacts to this project include additional electrical and chemical use.

Estimated Project Costs

Legal / Administration	\$108,326
Land Acquisition	\$0
Permit Fees	\$216,652
Design and Engineering	\$0
Survey / Staking	\$108,326
Construction Management	\$758,281
Furnishings / Equipment	\$0
Construction / Improvement	\$10,832,587
Geotech / Material Testing	\$75,828
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$12,100,000

Project Number: 3203219
Estimated Start Date: Ongoing
Estimated Completion Date: 12/31/11

2011-12 Source of Funds

Water / Wastewater Bonds	\$12,100,000
--------------------------	--------------

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$12,100,000	\$0	\$0	\$0	\$0	\$12,100,000

STWTP Capital Equipment Replacement



Project Description

This project provides for annual capital equipment replacement requirements at the South Tempe Water Treatment Plant. Every year there are unexpected failures of pumps, valves, and other operating equipment due to fatigue, wear, structural failure and many other reasons. These failures cannot be predicted even though the Water Utilities Division is developing comprehensive and predictive maintenance programs and procedures.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,250,000

Project Number: 3200079
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds	\$250,000
--------------------------	-----------

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

Undergrounding of Water Aqueduct at the JGMWTP



Project Description

This project provides for the replacement of the water aqueduct or flume that supplies raw water to the Jonny G. Martinez Water Treatment Plant (JGMWTP) with an underground pipe. The vulnerability assessment of the Water Utilities Division indicated that this piece of infrastructure needed addressing. Recently extensive repairs to the leaking joints in the flume have been performed and the expected life of these repairs is 7-10 years. Project necessity will be assessed within this parameter.

Estimated Project Costs

Legal / Administration	\$20,000
Land Acquisition	\$0
Permit Fees	\$71,000
Design and Engineering	\$240,000
Survey / Staking	\$20,000
Construction Management	\$140,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,000,000
Geotech / Material Testing	\$20,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,511,000

Project Number: NA
Estimated Start Date: 07/15/15
Estimated Completion Date: 03/31/17

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$0	\$2,511,000	\$2,511,000

Water Line Replacement and Repair



Project Description

This project provides a recurring funding source to replace water lines that break during normal operation or that have reached the end of their useful life. The Water Utilities Division Integrated Master Plan identifies most of the specific waterlines that need to be replaced to meet increasing demands.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,500,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,500,000

Project Number: 3299989
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Development Fees \$500,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000

Waterline Replacements of High Frequency Break Areas



Project Description

This project will be the beginning of a program to replace pipelines that are on the Water Utilities Division high frequency water break list. These pipelines are primarily located north of the US-60 in the older sections of the City and are mostly Cast Iron Pipe (CIP). Based on historical waterline break history the following areas have been identified as areas that require replacement:

Stadem Drive - Miller Road to Curry Road; Farmer Avenue - 1st Street to Broadway Road; Neighborhood bordered by Southern Avenue, US-60, Mill Avenue and McAllister Road; 17th Street, 18th Street and 19th Street Hardy to Roosevelt; Dorsey Drive - University to 8th Street; Terrace Road - Broadway to Southern; Margo Drive - University Drive to 12th Place; Pebble Beach Drive and La Corta Drive from Laguna to McAllister; Geneva Drive - Priest Drive to Albert Avenue; Taylor / Papago / Van Ness west of Scottsdale Road; Lemon Street, Una Ave from Dorsey to Orange Street and Hall St. to Lemon Street.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$145,000
Land Acquisition	\$0
Permit Fees	\$510,000
Design and Engineering	\$1,735,000
Survey / Staking	\$145,000
Construction Management	\$1,010,000
Furnishings / Equipment	\$0
Construction / Improvement	\$14,440,000
Geotech / Material Testing	\$145,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$10,878,000

Project Number: NA
Estimated Start Date: 07/01/11
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$3,626,000	\$3,626,000	\$3,626,000	\$10,878,000

Well #9 Pump to Waste Line



Project Description

This project will install a pump to a waste line from Well #9 to a Salt River Project irrigation box located in McClintock Drive. Well #9 is one of the City's most important ground water assets, when the South Tempe Water Treatment Plant is down for annual maintenance, this well provides water for the residents in South Tempe, and maintains system pressure in the area. Before the Well is placed into service for public consumption, the water is sent to waste until it meets drinking water standards. Currently the water is sent to a private irrigation system that is maintained by residents surrounding the well. During times of irrigation, or other seasonal events, it creates a significant constraint on the ability to run the Well as operationally necessary.

2011-12 Source of Funds

Water / Wastewater Bonds \$561,000

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$16,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$35,000
Furnishings / Equipment	\$0
Construction / Improvement	\$500,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$561,000

Project Number: 3204410
Estimated Start Date: 07/01/11
Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$561,000	\$0	\$0	\$0	\$0	\$561,000

Well Rehabilitation



Project Description

This project involves rehabilitation and major structural repair of City supply wells. Two wells will be selected each year to be inspected by video camera, brushed and redeveloped. This will be on-going, with the goal of rehabilitating each well once every four years.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$735,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$750,000

Project Number: 3203549

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$150,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$750,000

2011-12 CIP Projects - Wastewater Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
91st Avenue WWTP: 3200129	Water / Wastewater Bonds	7,500,000	7,500,000	5,000,000	5,000,000	5,000,000	30,000,000
Ken McDonald Golf Course Recharge Project : 3209309	Water / Wastewater Bonds	1,649,000	1,351,000	-	-	-	3,000,000
Sewer Line Replacement and Repair: 3299969	Water / Wastewater Bonds	1,000,000	1,500,000	1,500,000	1,500,000	1,500,000	7,000,000
	Development Fees	500,000	500,000	500,000	500,000	500,000	2,500,000
	Project Total	1,500,000	2,000,000	2,000,000	2,000,000	2,000,000	9,500,000
Sewer Replacement/Upsize (5th Street from Price Road to Smith Road): NA	Water / Wastewater Bonds	-	-	-	2,576,000	-	2,576,000
Sewer Replacement / Upsize Smith Rd (Apache to University): 3209389	Water / Wastewater Bonds	-	-	-	-	2,599,000	2,599,000
Unlined Concrete Sewer Evaluation Study: 3204390	Water / Wastewater Bonds	350,000	-	-	-	-	350,000
Program Total		10,999,000	10,851,000	7,000,000	9,576,000	9,599,000	48,025,000

91st Avenue Wastewater Treatment Plant



Project Description

The 91st Avenue Wastewater Treatment Plant (WWTP) is a regional facility that is jointly owned by five valley cities and is operated by the City of Phoenix. The 91st Avenue WWTP provides wastewater treatment and transmission capacities sufficient to treat and convey the majority of Tempe's wastewater flows, including solids discharge from our Kyrene Water Reclamation Plant. This project represents Tempe's share of all capital activities at 91st Avenue WWTP including treatment capacity expansion projects, capital equipment replacement, modifications and additions to meet regulatory requirements, process enhancements and also capacity expansion of the jointly owned trunk sewer lines that convey wastewater flows to the plant.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$30,000,000
Total	\$30,000,000

Project Number: 3200129
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds \$7,500,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$7,500,000	\$7,500,000	\$5,000,000	\$5,000,000	\$5,000,000	\$30,000,000

Ken McDonald Golf Course Recharge Project



Project Description

This is a continuation of a project funded in fiscal year 2009/10. The project will provide the balance of funding to drill and outfit up to three aquifer storage and recovery wells at the Ken McDonald Golf Course.

The primary purpose of the Ken McDonald Golf Course (KMGC) Recharge Project is to fully utilize Tempe's renewable reclaimed water supplies and add to the City's Assured Water Supply Portfolio. The Project is permitted by the Arizona Department of Water Resources to store 3,400 acre-feet per year, and this volume of annual reclaimed water storage is included in Tempe's 100-year Assured Water Designation.

Estimated Project Costs

Legal / Administration	\$24,000
Land Acquisition	\$0
Permit Fees	\$84,000
Design and Engineering	\$290,000
Survey / Staking	\$0
Construction Management	\$168,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,410,000
Geotech / Material Testing	\$24,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$3,000,000

Project Number: 3209309
Estimated Start Date: Ongoing
Estimated Completion Date: 12/30/12

2011-12 Source of Funds

Water / Wastewater Bonds \$1,649,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,649,000	\$1,351,000	\$0	\$0	\$0	\$3,000,000

Sewer Line Replacement and Repair



Project Description

This project provides a recurring funding source to replace sewer lines that break during normal operation. The Water Utilities Division Integrated Master Plan (IMP) identified most of the specific sewer lines that need to be replaced to meet increasing wastewater flows.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$9,500,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$9,500,000

Project Number: 3299969
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

Water / Wastewater Bonds	\$1,000,000
Development Fees	\$500,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,500,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$9,500,000

Sewer Replacement / Upsize (5th Street from Price Road to Smith Road)



Project Description

This project will replace and upsize an estimated 2,650 feet of existing 15 inch sanitary sewer due to insufficient capacity. The new sewer will be 18 inches in diameter. The project will alleviate high flow conditions and facilitate Apache Blvd re-development.

Estimated Project Costs

Legal / Administration	\$19,000
Land Acquisition	\$0
Permit Fees	\$68,000
Design and Engineering	\$231,000
Survey / Staking	\$19,000
Construction Management	\$135,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,925,000
Geotech / Material Testing	\$19,000
Utility Relocation Fees	\$160,000
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,576,000

Project Number: NA
Estimated Start Date: 07/01/14
Estimated Completion Date: 09/30/15

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$2,576,000	\$0	\$2,576,000

Sewer Replacement / Upsize Smith Road (Apache to University)



Project Description

This project will replace and upsize an estimated 2,670 feet of existing 12 to 15 inch sanitary sewer due to insufficient capacity. The new sewer will be 18 inches in diameter. The project will alleviate high flow conditions and facilitate Apache Blvd re-development.

Estimated Project Costs

Legal / Administration	\$21,000
Land Acquisition	\$0
Permit Fees	\$73,000
Design and Engineering	\$248,000
Survey / Staking	\$21,000
Construction Management	\$145,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,070,000
Geotech / Material Testing	\$21,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,599,000

Project Number: 3209389
Estimated Start Date: 07/01/15
Estimated Completion Date: 09/30/16

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$0	\$2,599,000	\$2,599,000

Unlined Concrete Sewer Evaluation Study



Project Description

This project will evaluate approximately 2-miles of existing 27 and 36-inch unlined concrete sewer originally installed in the early 1970's. It is located on Scottsdale Road from Gilbert Drive to Rio Salado Parkway, on Rio Salado Parkway from Scottsdale Road to Perry Lane, and on Perry Lane from Rio Salado Parkway to 5th Street. The evaluation will determine the condition of the unlined concrete sewer and make recommendations for rehabilitation of the sewer as needed.

The purpose of this study is to determine the scope, schedule and cost of rehabilitating this unlined sewer. Unlined sewers are vulnerable to hydrogen sulfide (H2S) that is common in sanitary sewers which typically causes the crown (top) of the pipe to slowly erode and if not rehabilitated can eventually fail.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$340,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$350,000

Project Number: 3204390
Estimated Start Date: 07/01/11
Estimated Completion Date: 03/30/12

2011-12 Source of Funds

Water / Wastewater Bonds \$350,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$350,000	\$0	\$0	\$0	\$0	\$350,000



*Transit and Rio Salado projects total
\$6.8 million in FY 2011-12
and account for 14% of the total
2011-12 appropriated CIP budget*



The Special Purpose component of the Capital Improvements Program includes the Transit and Rio Salado capital programs. Combined, they account for \$6.8 million of the \$48.3 million Capital Budget for FY 2011-12.

Federal grants are primary funding source for the Transit Program in FY 2011-12. Federal Congestion Mitigation and Air Quality grants will be used to construct pedestrian and bicycle improvements along a 1 mile section of Hardy Road, and to construct a pedestrian and bicycle path underneath the intersection of the Loop 202 and 101 Freeways.

The 2011-12 Rio Salado capital program consists of a single, important project: \$4 million in Rio Salado fund balance is appropriated for the initial design and engineering phase of the multi-year project to replace the Tempe Town lake downstream dam (pictured above).

2011-12 CIP Projects - Transit Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
CCTV Monitoring Stations - LRT Signal Intersections: 6004360	Federal Grant - CMAQ	285,456	-	-	-	-	285,456
	Transit Tax	139,643	-	-	-	-	139,643
	Project Total	425,099	-	-	-	-	425,099
Hardy Drive Street Improvement: 6004370	Federal Grant - CMAQ	1,194,000	-	-	-	-	1,194,000
	Transit Tax	166,000	-	-	-	-	166,000
	Project Total	1,360,000	-	-	-	-	1,360,000
Tempe Rio Salado Underpass under 202 at 101: 6004310	Federal Grant - CMAQ	943,000	-	-	-	-	943,000
	Transit Tax	61,000	-	-	-	-	61,000
	Project Total	1,004,000	-	-	-	-	1,004,000
Program Total		2,789,099	-	-	-	-	2,789,099

CCTV Monitoring Stations - LRT Signal Intersections



Project Description

This project will purchase 25 Closed Circuit Television (CCTV) cameras to install at Light Rail traffic signals. At the end of this project each of the light rail traffic signals (total 30) will be equipped with a CCTV camera. The video monitoring stations will provide direct and immediate access to local traffic conditions. Accident and incident management will be enhanced by this additional monitoring capability while simultaneously allowing the transportation management staff the ability to monitor private and public transportation vehicles throughout the Tempe segment of this regionally significant transportation facility, maximizing multi-modal coordination and safety operations. Data gathered locally from this CCTV network can be shared between agencies and across jurisdictions including MAG, Valley Metro Rail as well as the cities of Phoenix and Mesa. This project promotes multi-jurisdictional congestion relief goals by providing a platform to better coordinate LRT traffic signals as well as to respond to accidents / incidents in a more cooperative and efficient process.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$425,099
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$425,099

Project Number: 6004360
Estimated Start Date: 07/01/11
Estimated Completion Date: 06/30/12

2011-12 Source of Funds

Federal Grants - CMAQ	\$285,456
Transit Tax	\$139,643

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$425,099	\$0	\$0	\$0	\$0	\$425,099

Hardy Drive Street Improvement



Project Description

The Hardy Road Pedestrian and Bicycle Improvement Project is approximately 1 mile in length between Broadway Road and University Drive. The project consists of pedestrian and bicycle facility improvements along a collector street fronted primarily by single family residential units. The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU, Downtown Tempe, Rio Salado and the high industrial and office employment area south of the project. Area residents are advocating retaining the neighborhood character of the street to reflect the residential uses on this stretch of which differs significantly south of the proposed project area. The project will consist of design and construction aimed at providing pedestrian, bicycle and transit improvements on Hardy Drive. Project elements will include geometric changes to the street including striping for bike lanes, widening of sidewalks, reduction of existing travel lane widths, construction of planted medians, protection from intrusion of commercial truck traffic, improved pedestrian safety, reduction of speed limits, construction of mid-block crossings and providing transit, bicycle and pedestrian amenities.

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$34,000
Design and Engineering	\$114,000
Survey / Staking	\$10,000
Construction Management	\$67,000
Furnishings / Equipment	\$0
Construction / Improvement	\$950,000
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$165,000
Total	\$1,360,000

Project Number: 6004370
Estimated Start Date: 07/01/11
Estimated Completion Date: 12/31/12

2011-12 Source of Funds

Federal Grants - CMAQ	\$1,194,000
Transit Tax	\$166,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,360,000	\$0	\$0	\$0	\$0	\$1,360,000

Tempe Rio Salado Underpass under Loop 202 at Loop 101



Project Description

The project will construct approximately 1,200 feet of a shared use path underneath Loop 202 at the 202 and Loop 101 Traffic Interchange connecting Tempe and Mesa along the south bank of the Salt River. The project involves a 12-foot wide concrete path with lighting and safety railings underneath the freeway and would link to existing and planned pathway in Tempe and Mesa.

The project provides a non-motorized link along a regionally significant riparian corridor between two major commercial retail centers, Tempe Marketplace and Mesa Riverview. Additionally, the project will eliminate the main obstruction connecting Tempe to Mesa and will link to the Scottsdale Indian Bend Wash, Rio Salado, Downtown Tempe, Arizona State University, and Metro Light Rail. Finally the project is located in a Tempe Enterprise Zone which supports Tempe City Council's efforts to revitalize areas that serve low income neighborhoods.

2011-12 Source of Funds

Federal Grants - CMAQ	\$943,000
Transit Tax	\$61,000

Estimated Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$96,000
Survey / Staking	\$8,000
Construction Management	\$56,000
Furnishings / Equipment	\$0
Construction / Improvement	\$800,000
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,004,000

Project Number: 6004310
Estimated Start Date: 07/01/11
Estimated Completion Date: 12/31/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,004,000	\$0	\$0	\$0	\$0	\$1,004,000

2011-12 CIP Projects - Rio Salado Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Town Lake Downstream Dam Replacement: 6503069	Rio Salado Fund Balance	4,000,000	-	-	-	-	4,000,000
	Unauthorized G.O. Bonds	-	1,379,780	424,000	43,605,600	-	45,409,380
	Project Total	4,000,000	1,379,780	424,000	43,605,600	-	49,409,380
Program Total		4,000,000	1,379,780	424,000	43,605,600	-	49,409,380

Town Lake Downstream Dam Replacement



Project Description

This project will replace the existing Tempe Town Lake Dam. Newly proposed (pending City Council approval) hybrid technology will allow the use of the existing piers and foundation to replace approximately 840 lineal feet of dam, but may require changes to the mechanical systems. Construction drawings should begin no later than 2011 to allow enough time for permits and approvals of the new dam.

Estimated Project Costs

Legal / Administration	\$720,000
Land Acquisition	\$0
Permit Fees	\$1,317,380
Design and Engineering	\$4,000,000
Survey / Staking	\$300,000
Construction Management	\$2,000,000
Furnishings / Equipment	\$0
Construction / Improvement	\$40,000,000
Geotech / Material Testing	\$720,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$352,000
Total	\$49,409,380

Project Number: 6503069
Estimated Start Date: 07/01/11
Estimated Completion Date: 12/31/15

2011-12 Source of Funds

Rio Salado Fund Balance \$4,000,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$4,000,000	\$1,379,780	\$424,000	\$43,605,600	\$0	\$49,409,380



*General Purpose projects total
\$6.7 million in FY 2011-12
and account for 14% of the 2011-12
appropriated CIP budget*



The General Purpose component of the Capital Improvements Program includes Police Protection, Fire Protection, Storm Drains, Park Improvements, and General Governmental programs. Combined, they constitute \$6.7 million of the \$49.3 million Capital Improvements Budget for FY 2011-12.

A total of \$5.7 million in General Obligation bonds will be sold to fund projects across the five program areas. The balance will come from the Water / Wastewater fund, and from Racketeer Influenced and Corrupt Organizations Act (RICO) funds.

Major projects in FY 2011-12 include continued improvements to the City's Regional Radio System, New Fire Apparatus (trucks), repair and replacement of aging lighting poles at the City's athletic facilities, and numerous ongoing facilities and capital asset repair and replacement projects.

2011-12 CIP Projects - Police Protection Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
City Regional Radio System Maintenance and Replacement: 5501989	General Obligation Bonds	1,914,834	1,125,848	1,526,824	-	-	4,567,506
	Unauthorized G.O. Bonds	-	-	-	1,472,777	1,532,764	3,005,541
	Project Total	1,914,834	1,125,848	1,526,824	1,472,777	1,532,764	7,573,046
Intercept Project: 5504330	Racketeer Influenced and Corrupt Organizations Act (RICO) Funds	495,412	-	-	-	-	495,412
PD Mobile Communication & Laptops: 5509189	General Obligation Bonds	-	-	2,647,488	-	-	2,647,488
	Unauthorized G.O. Bonds	-	-	1,265,050	-	-	1,265,050
	Project Total	-	-	3,912,538	-	-	3,912,538
Technology Integrated Police Systems (TIPS): 556680	General Obligation Bonds	90,000	50,000	-	-	-	140,000
	Unauthorized G.O. Bonds	-	-	150,000	50,000	50,000	250,000
	Project Total	90,000	50,000	150,000	50,000	50,000	390,000
Program Total		2,500,246	1,175,848	5,589,362	1,522,777	1,582,764	12,370,996

City Regional Radio System Maintenance and Replacement



Project Description

This ongoing project provides for the replacement of outdated radio equipment for the Police Department and other City radio users, allowing Tempe to participate in the establishment of long-term public safety interoperability in the Phoenix metro area. The Police / City Radio System is an 800Mhz digital trunk system that allows day-to-day, real time communication over a single radio system in partnership with thirteen other agencies.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$7,573,046
Other Project Costs	\$0
Total	\$7,573,046

Project Number: 5501989
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$1,914,834

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,914,834	\$1,125,848	\$1,526,824	\$1,472,777	\$1,532,764	\$7,573,046

Intercept Project



Project Description

This project will update technology to allow the Tempe Police Department to access investigative techniques that effectively help in controlling, reducing, and preventing criminal activities. Technical solutions are available that will improve the use of currently owned equipment and provide automated collection, management, analysis and dissemination of data. With improved data investigators are able to enhance their ability to investigate crimes and formulate action plans to further reduce criminal activity and its associated drug-related crimes and violence.

Gangs, and criminals committing property crimes, drug sales, robberies, sexual assaults, document crimes, and homicides all rely on communication to carry-out and / or cover-up their criminal activity. An effective tool in fighting criminal organizations and solving complex crimes is communication and association analysis. The ability to trace a particular communication to its source will provide investigative leads, suspects and likely locations for solving crimes, capturing criminals, and effectively prosecuting cases.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$495,412
Other Project Costs	\$0
Total	\$495,412

Project Number: 5504330
Estimated Start Date: 07/01/11
Estimated Completion Date: 06/30/12

2011-12 Source of Funds

RICO Funds \$495,412

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$495,412	\$0	\$0	\$0	\$0	\$495,412

PD Mobile Communication and Laptops



Project Description

This project replaces the Police Department ruggedized laptops and mounts that support laptops in vehicles used in day to day operations. Replacement will ensure laptop functionality and limit failure in the field which can result in delayed response to citizen calls for service, and increase departmental and City liability due to officer reliance on laptops to communicate with dispatch, other officers and supervisors, write and submit their reports; and access necessary information sources to perform their daily job functions.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$3,912,538
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$3,912,538

Project Number: 5509189
Estimated Start Date: 07/01/13
Estimated Completion Date: 06/30/14

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$3,912,538	\$0	\$0	\$3,912,538

Technology Integrated Police Systems (TIPS)



Project Description

The Technology Integrated Police Systems (TIPS) project provides the necessary resources to incorporate new technology in the Police Department, as well as resources to upgrade and interface existing automated systems. Planned projects include the continued development of the wireless infrastructure to accommodate additional small factor wireless devices, two factor authentication for wireless devices to meet future DPS-FBI security mandates, new hardware for increased data exchange and storage needs such as an upgrade to the PDWeb Server (COP), and an upgrade to our Digital Darkroom (photo evidence) system. Additional new technology and upgrades include the addition of a Scene Diagram Laser machine for Traffic Investigations, new hardware associated with the relocation of SIB to the Police HQ building, new hardware and software to support the establishment of the Criminal and Intelligence Center at the Police HQ station, replacement of printers and other specialty hardware, and upgrades to software.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$390,000
Other Project Costs	\$0
Total	\$390,000

Project Number: 556680
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$90,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$90,000	\$50,000	\$150,000	\$50,000	\$50,000	\$390,000

2011-12 CIP Projects - Fire Protection Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Fire Apparatus Replacement: 5603619	General Obligation Bonds	590,000	500,000	500,000	500,000	-	2,090,000
Fire Laptop Replacement: 5603629	General Obligation Bonds	159,800	30,000	30,000	30,000	-	249,800
Fire Station #2: 5603609	General Obligation Bonds	100,000	-	-	-	-	100,000
Replace Burn Room at Fire Training Center: NA	General Obligation Bonds	-	-	737,000	50,000	-	787,000
Program Total		849,800	530,000	1,267,000	580,000	-	3,226,800

Fire Apparatus Replacement



Project Description

This project addresses public and firefighter safety through scheduled replacement of fire apparatus (trucks). Fire apparatus are evaluated for replacement after 10 years or when mileage exceeds 120,000. The Department now has five apparatus that are 11 to 13 years old and six apparatus that exceed 145,000 miles each. Older apparatus require increased repair and maintenance, which presents delays in response times. This delay in response time is a serious concern, as firefighters are the first responders to citizens with emergency medical problems, fires and various other service calls.

The Fire Department is currently leasing (for one year) and evaluating a new "Concept Pumper" for a period of one year. While the Department is still in the evaluation process, early results indicate there are several aspects of the Concept Pumper that will be incorporated into the future purchase of new apparatus. This pumper has reduced initial and ongoing operating costs, should have decreased fuel consumption, and a reduced carbon footprint. Consequently, the future cost to purchase a new engine pumper is anticipated to be reduced by 18% percent.

2011-12 Source of Funds

General Obligation Bonds \$590,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$590,000	\$500,000	\$500,000	\$500,000	\$0	\$2,090,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$2,090,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,090,000

Project Number: 5603619

Estimated Start Date: 07/01/11

Estimated Completion Date: 12/30/16

Fire Laptop Replacement



Project Description

This project will provide for the replacement of ruggedized laptop computers used by Fire personnel in the field for electronic patient care (ePCR), and development of a wireless fire apparatus infrastructure to accommodate small devices (cell phones), laptops and heart monitors. This will enhance the wireless transfer of critical patient information from both the laptop units and heart monitors while en-route to the hospital.

The unique advantage of using mobile computers is it allows the Fire paramedic to stay focused on providing patient care rather than filling out paperwork. The Fire Department is using 18 ruggedized laptops and plans to expand this to 22 laptops. These ruggedized laptops are used daily on over 13,000 annual EMS calls.

Recurring operating budget costs of \$50,000 associated with this project include monthly costs for the wireless phone cards and software maintenance for new software.

2011-12 Source of Funds

General Obligation Bonds \$159,800

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$159,800	\$30,000	\$30,000	\$30,000	\$0	\$249,800

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$249,800
Other Project Costs	\$0

Total \$249,800

Project Number: 5603629

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/15

Fire Station #2



Project Description

Fire Station 2 has multiple identified functional and structural deficiencies which compromise the station's safe and reliable operation. Funding for this project will be utilized for required repair and renovations to Fire Station 2 including: roof renovation, repair and renovation of wall and floor finishes, upgrades to the exhaust ventilation system, repair and replacement of equipment and furnishings, and HVAC maintenance.

Within the next fiscal year the Fire Department plans to procure a space needs study to assess the station's overall operational requirements and capital condition.

2011-12 Source of Funds

General Obligation Bonds \$100,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$100,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$100,000

Project Number: 5603609

Estimated Start Date: 07/01/11

Estimated Completion Date: 06/30/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$100,000	\$0	\$0	\$0	\$0	\$100,000

Replace Burn Room at Fire Training Center



Project Description

This project will renovate and modernize the existing fire training burn room and training tower at the Fire Training Center, which was built in 1993. Modern burn room facilities are conducive to firefighters' learning by preparing them for real life situations they will encounter. Given the critical nature of this training for firefighter safety, it is essential that the burn room be kept in a functioning state.

The extensive use of this facility and the significant benefits derived from firefighters' training, which directly impacts the delivery of service to the community, has exceeded expectations.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$72,000
Survey / Staking	\$6,000
Construction Management	\$42,000
Furnishings / Equipment	\$0
Construction / Improvement	\$600,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$55,000

Total \$787,000

Project Number: NA

Estimated Start Date: 07/01/13

Estimated Completion Date: 06/30/15

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$737,000	\$50,000	\$0	\$787,000

2011-12 CIP Projects - Storm Drains Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Storm Drain Improvements: 5899971	General Obligation Bonds	150,000	300,000	350,000	350,000	350,000	1,500,000
Storm Water Monitoring Upgrades: 5804340	Water / Wastewater Fund	128,000	-	-	-	-	128,000
Program Total		278,000	300,000	350,000	350,000	350,000	1,628,000

Storm Drain Improvements



Project Description

The City of Tempe maintains over 80 major storm drain retention basins with over 103 miles of storm drain pipes and over 1,600 catch basins, storm drain manholes and other structures. This project provides for the construction of minor storm drain extensions and improvements. The purpose is to relieve localized problems for replacement and / or upgrades associated with street storm drain systems as well as various storm water retention facilities. The locations become determined during and after major water events.

Estimated Project Costs

Legal / Administration	\$31,694
Land Acquisition	\$0
Permit Fees	\$11,885
Design and Engineering	\$79,235
Survey / Staking	\$66,027
Construction Management	\$0
Furnishings / Equipment	\$1,187,804
Construction / Improvement	\$95,079
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,500,000

Project Number: 5899971
Estimated Start Date: 07/01/11
Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$150,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$150,000	\$300,000	\$350,000	\$350,000	\$350,000	\$1,500,000

Storm Water Monitoring Upgrades



Project Description

This project will install a new storm water sampling location and upgrades to four existing sampling locations pursuant to public noticed City of Tempe Arizona Pollutant Discharge Elimination System (AZPDES) Storm water Permit. The new site (TD-01) requires installation of a concrete slab, sampling cabinet, electrical service, rain gauge, communication equipment, and conduit for rain gauge wiring, electrical, and sampling equipment. The new site will also require sampling equipment and flow metering equipment. All other sites, (SR-08, SR-04, TD-03, and KP-01) will require upgrades to sampling equipment and flow metering equipment.

Estimated Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$2,000
Design and Engineering	\$8,000
Survey / Staking	\$1,000
Construction Management	\$5,000
Furnishings / Equipment	\$40,000
Construction / Improvement	\$70,000
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$128,000

Project Number: 5804340
Estimated Start Date: 07/01/11
Estimated Completion Date: 01/01/12

2011-12 Source of Funds

Water / Wastewater Fund \$128,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$128,000	\$0	\$0	\$0	\$0	\$128,000

2011-12 CIP Projects - Park Improvements / Recreation Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Athletic Field Lighting Replacement: 6303089	General Obligation Bonds	1,015,000	515,000	515,000	515,000	515,000	3,075,000
Cox Splash Playground Renovation: NA	General Obligation Bonds	-	-	120,000	1,010,000	-	1,130,000
Escalante Pool Equipment Replacement: NA	General Obligation Bonds	-	-	-	-	300,000	300,000
Kiwanis Park Batting Range: NA	General Obligation Bonds	-	-	190,000	-	-	190,000
KRC Complex Infrastructure & Equipment Replacements: NA	General Obligation Bonds	-	-	-	-	750,000	750,000
Park Infrastructure / Equipment Replacement: 6399829	General Obligation Bonds	400,000	400,000	450,000	450,000	500,000	2,200,000
Sports Facility Relamping: 636938	General Obligation Bonds	-	60,000	60,000	60,000	60,000	240,000
Program Total		1,415,000	975,000	1,335,000	2,035,000	2,125,000	7,885,000

Athletic Field Lighting Replacement



Project Description

The purpose of this project is to repair deteriorated sports light poles and aging electrical service sections at City athletic facilities, and to upgrade the lighting levels at all baseball, softball and multi-purpose athletic fields so they are in compliance with Illuminating Engineering Society (I.E.S.) recommendations.

The sports light poles at many City athletic facilities are 30+ years old and in turf which receives regular sprinkler irrigation causing the poles to deteriorate with time and exposure. In the last four years fourteen (14) sports light poles have failed/fallen or had to be taken down.

2011-12 Source of Funds

General Obligation Bonds \$1,015,000

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$55,000
Design and Engineering	\$260,000
Survey / Staking	\$45,000
Construction Management	\$150,000
Furnishings / Equipment	\$90,000
Construction / Improvement	\$1,750,000
Geotech / Material Testing	\$45,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$675,000
Total	\$3,075,000

Project Number: 6303089

Estimated Start Date: 07/01/08

Estimated Completion Date: 06/30/17

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,015,000	\$515,000	\$515,000	\$515,000	\$515,000	\$3,075,000

Cox Splash Playground Renovation



Project Description

This project provides funding for the renovation of the Valley's 1st splash playground, The Tempe Cox Splash Playground in Tempe Beach Park. Funding will replace worn features, equipment, correct design problems and update this extremely popular facility.

The Cox Splash Playground opened in 2002 and was engineered to entertain and accommodate 20-25,000 participants per year. Eight years later participation numbers are at 60 - 70,000 visitors a year, which has resulted in extensive wear and tear on the physical structures.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$20,000
Design and Engineering	\$120,000
Survey / Staking	\$20,000
Construction Management	\$65,000
Furnishings / Equipment	\$300,000
Construction / Improvement	\$500,000
Geotech / Material Testing	\$20,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$80,000
Total	\$1,130,000

Project Number: NA

Estimated Start Date: 07/01/13

Estimated Completion Date: 03/30/15

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$120,000	\$1,010,000	\$0	\$1,130,000

Escalante Pool Equipment Replacement



Project Description

The project includes replacement of the Escalante pool filters, circulation system, and electrical infrastructure, and adds more shade.

The filters, electrical and circulation systems are original construction which was back in the 70's. These large ticket items are 35+ years of age. The addition of shade will enhance the use of the pool and protect swimmers from UV rays.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$3,000
Design and Engineering	\$10,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$210,000
Construction / Improvement	\$75,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$300,000

Project Number: NA
Estimated Start Date: 08/15/15
Estimated Completion Date: 04/30/16

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$0	\$300,000	\$300,000

Kiwanis Park Batting Range



Project Description

This project involves the replacement and upgrading of the aging equipment in this 20 year old facility. Items addressed by this project will include the pitching machines and electronics, the netting, the public address system, and the video security system.

Replacing this outdated equipment with current industry standards will allow for less down time of machines, reduced maintenance costs, increased citizen participation, and provide high quality services and facilities in a fun, friendly and safe environment.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$160,000
Construction / Improvement	\$20,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$10,000
Total	\$190,000

Project Number: NA
Estimated Start Date: 07/01/13
Estimated Completion Date: 10/01/13

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$190,000	\$0	\$0	\$190,000

KRC Complex Infrastructure & Equipment Replacements



Project Description

This project provides funding for the replacement of infrastructure and equipment throughout the Kiwanis Recreation Center Complex. Much of the infrastructure and equipment within the KRC Complex has reached or exceeded its life cycle. The fitness equipment will need to be replaced in 4 - 5 years, the tennis courts will need to be UV sealed; the tennis classroom flooring needs replacement; and the tennis restroom building (30+ years old) needs to be renovated or replaced. The electrical service sections, panels and other electrical components throughout the complex will require replacement. Funding will also upgrade and / or replace flooring in the concessions area, the fitness center, and the center lobby. New concrete picnic benches and landscaping upgrades will also be provided.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$3,000
Design and Engineering	\$20,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$450,000
Construction / Improvement	\$250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$25,000
Total	\$750,000

Project Number: NA
Estimated Start Date: 07/01/15
Estimated Completion Date: 06/30/17

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$0	\$0	\$750,000	\$750,000

Park Infrastructure / Equipment Replacement



Project Description

This ongoing project provides for the replacement of playground equipment, picnic equipment, fencing, signage, concrete, sand, rubber playground surfacing, electrical / lighting, etc. in the various neighborhood parks. This project helps ensure the appearance, appeal, and safety of City parks is maintained.

2011-12 Source of Funds

General Obligation Bonds \$400,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,200,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,200,000

Project Number: 6399829
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$400,000	\$400,000	\$450,000	\$450,000	\$500,000	\$2,200,000

Sports Facility Relamping



Project Description

This project includes an established plan for a regular cycle of relamping and cleaning of light fixtures at all softball / baseball fields, soccer fields, tennis / racquetball courts, and park basketball / volleyball courts. Without this project the light levels at these sports facilities will decline, and expose the City to unnecessary risk.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$240,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$240,000

Project Number: 636938
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$60,000	\$60,000	\$60,000	\$60,000	\$240,000

2011-12 CIP Projects - General Governmental Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
City Court							
Court Improvement Project: NA	Unauthorized G.O. Bonds	-	171,000	55,300	-	-	226,300
Community Services							
Municipal Arts Program: 6699799	Water / Wastewater Fund	301,600	164,810	136,810	162,820	250,690	1,016,730
Finance and Technology							
Enterprise Network File Storage and Archival: 6709239	Unauthorized G.O. Bonds	70,000	270,000	370,000	70,000	70,000	850,000
Public Works							
City Facilities Rehabilitation: 6799779	Unauthorized G.O. Bonds	572,000	510,000	510,000	510,000	510,000	2,612,000
Downtown Infrastructure Improvements: 6704320	Unauthorized G.O. Bonds	25,000	100,000	100,000	100,000	100,000	425,000
HVAC Replacements: 676873	Unauthorized G.O. Bonds	100,000	400,000	400,000	400,000	400,000	1,700,000
Roof Maintenance Program: 6702519	Unauthorized G.O. Bonds	545,000	400,000	400,000	400,000	400,000	2,145,000
Program Total		1,613,600	2,015,810	1,972,110	1,642,820	1,730,690	8,975,030

Court Improvement Project



Project Description

This project encompasses several smaller projects that will benefit the public, City and Court. These smaller projects include: replacing the carpet in the staff areas on the first and second floors; expanding the security station located in the PD / Court lobby; replacing current staff chairs with ergonomic task chairs; replacing the attorney / witness chairs in each of the five courtrooms, as well as the judge's chairs in two of the courtrooms; replacing the existing chairs in the second floor conference room; replacing the existing cloth-covered benches in the first and second floor lobbies with metal 'airport style' bench seating that will be easier to maintain, and clean, thus lessening the potential for contagions; replacing the existing file shelving in the criminal division file room, which is at risk for potential collapse that could result in staff injury; place lighted emergency exit signage at exits in public areas, including courtrooms and the jury assembly room, to bring the exits into code compliance; constructing a door in the existing glass wall of the first floor break room that will connect with the outdoor patio area outside the PD/ Court area.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$1,500
Design and Engineering	\$1,500
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$173,300
Construction / Improvement	\$55,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$226,300

Project Number: NA
Estimated Start Date: 07/01/11
Estimated Completion Date: 07/30/11

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$171,000	\$55,300	\$0	\$0	\$226,300

Municipal Arts Program



Project Description

This project provides funding for various Municipal Arts projects as determined by the Municipal Arts Commission and the City Council.

The Municipal Arts Program serves to advise the Mayor and City Council on all art and cultural development, encourages arts organizations and artists in their continuing search for artistic excellence in Tempe, and encourages and supports the contribution of cultural diversity to the richness of the community's artistic life.

2011-12 Source of Funds

Water / Wastewater Fund \$301,600

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$1,062,775
Total	\$1,016,730

Project Number: 6699799
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$301,600	\$164,810	\$136,810	\$162,820	\$250,690	\$1,016,730

Enterprise Network File Storage and Archival



Project Description

The Information Technology division's existing Storage Area Networking (SAN) infrastructure is at its physical limitation for space. This project will implement recent technology developments in mid-tier storage for virtualization that provide a solution to extend the life of the existing infrastructure at a much reduced cost. Project components include the following:

- Replacing existing SAN hard drives to increase space and extend the life of the existing SAN
- Upgraded hardware for the data fiber switches
- Implementation of a mid-tier SAN for non-mission critical storage and archival
- Distribute virtual storage to the Library and Water Utilities division to move resources next to the business users
- Upgrade Water Utilities division computer room environmental to support enterprise class computing

2011-12 Source of Funds

Unauthorized G.O. Bonds \$70,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$850,000
Total	\$850,000

Project Number: 6709239
Estimated Start Date: 07/01/08
Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$70,000	\$270,000	\$370,000	\$70,000	\$70,000	\$850,000

City Facilities Rehabilitation



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. This project is used to fund a preventive maintenance, repair and rehabilitation program to extend the useful life of our facilities. Building systems covered by this project include fire alarm systems, floor covering, painting, building automation systems, ice machine replacements and general building repairs as needed. In addition, this project covers emergency repairs such as flooding. Some of the anticipated projects for 2011-12 include floor coverings at the following locations: Fire Station #3, Kiwanis Recreation Center, Fire Station #5, and Kiwanis Sports Facility. This project also includes \$57,000 for standpipe replacement at the Priest Yard to abate periodic sewer odors in the dayroom and assembly hall area.

2011-12 Source of Funds

Unauthorized G.O. Bonds \$572,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,612,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,612,000

Project Number: 6799779
Estimated Start Date: 07/01/11
Estimated Completion Date: 06/30/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$572,000	\$510,000	\$510,000	\$510,000	\$510,000	\$2,612,000

Downtown Infrastructure Improvements



Project Description

This project maintains and repairs infrastructure in downtown Tempe. This may include improvements and refurbishing of brick sidewalks, street furniture, electrical lighting receptacles, and small enhancements identified in the Project for Public Spaces (PPS) analysis. Specific improvements in excess of \$50,000 would be presented to Mayor and Council for approval, prior to implementation.

The project purpose is to help ensure pedestrian safety in the downtown area. The combination of the day-to-day use of the pedestrian right-of-way as well as all of the special events held on Mill Avenue, necessitate the need to replace and repair the improvements. Those improvements have been in place approximately 25 years. In addition, this project will help maintain Mill Avenue as one of the 10 Great Streets of 2008 as recognized by the American Planning Association through their Great Places in America program.

2011-12 Source of Funds

Unauthorized G.O. Bonds \$25,000

Estimated Project Costs

Legal / Administration	\$3,616
Land Acquisition	\$0
Permit Fees	\$9,135
Design and Engineering	\$43,395
Survey / Staking	\$3,616
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$361,622
Geotech / Material Testing	\$3,616
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$425,000

Project Number: 6704320

Estimated Start Date: 07/01/11

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$25,000	\$100,000	\$100,000	\$100,000	\$100,000	\$425,000

HVAC Replacements



Project Description

Tempe maintains nearly 400 air conditioning, heat pump and split system units with an expected useful life of 12 years. This project is intended to annually replace 8% of the units, or approximately 30-33 units per year. HVAC systems account for approximately 30% of the City's electric bill. By replacing older and inefficient units with more efficient units, the City saves on electricity expenditures, reduces time and labor for repair needs, and reduces the City's carbon footprint. In 2011-12, the following locations have a total of 27 units that need to be replaced: Kiwanis Recreation Center, Rolling Hills Golf Course, Traffic Maintenance, McClintock Sports Facility, Ken McDonald Golf Course, Household Products Facility and the Library.

2011-12 Source of Funds

Unauthorized G.O. Bonds \$100,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,700,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,700,000

Project Number: 676873

Estimated Start Date: 07/01/11

Estimated Completion Date: 06/30/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$100,000	\$400,000	\$400,000	\$400,000	\$400,000	\$1,700,000

Roof Maintenance Program



Project Description

Tempe maintains 96 buildings with roofing systems that have an expected useful life of 15-20 years. This project is intended to annually patch and / or replace 4-6% of our roofs, approximately 4 per year based on need and condition. As City facilities age, it becomes more important than ever to maintain building roofs to reduce damage to the under roof envelope. A comprehensive list of facilities has been identified with roofing systems beyond their expected life cycle. In 2011-12, the following roof replacement projects are recommended: Library, South PD (half already done), Escalante Community Center, Rolling Hills Golf Course, Ken McDonald Golf Course, Fire Station # 2, and the Kiwanis Recreation Center.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,145,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,145,000

Project Number: 6702519
Estimated Start Date: 07/01/11
Estimated Completion Date: 06/30/12

2011-12 Source of Funds

Unauthorized G.O. Bonds \$545,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$545,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,145,000



Transportation projects total \$5.7 million in FY 2011-12 and account for 12% of the 2011-12 appropriated CIP budget



The Transportation element of the Capital Improvements Program includes all new and ongoing improvements put into service under the City's Transportation and Right-of-Way, and Traffic Signal and Street Lighting programs. Combined the two programs represent \$5.7 million of the \$49.3 million Capital Improvements Budget for FY 2011-12.

The primary funding source for the two programs in 2011-12 will be \$5.3 in General Obligation bonds. The Transportation and Right-of-Way program will utilize the bulk of those bonds with \$4.6 million sold for the program. The Transportation and Right-of-Way program is also partially funded with \$200,000 from capital projects fund balance, and the Traffic Signal and Street Lighting program is scheduled to receive approximately \$240,000 in federal grants.

In FY 2011-12 the Transportation and Right-of-Way program is scheduled to complete a variety of arterial and residential street maintenance, resurfacing, and reconstruction projects. The Traffic Signal and Street Lighting program is primarily focused on technological maintenance and repair projects for the City's lighting system, as well as on street light pole replacement.

2011-12 CIP Projects - Transportation and R.O.W. Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Arterial Asphalt Mill and Overlay: 5499741	General Obligation Bonds	1,754,664	1,775,300	1,431,885	1,503,479	1,438,710	7,904,038
Bridge Maintenance: 5499891	General Obligation Bonds	300,000	300,000	300,000	300,000	300,000	1,500,000
Holdeman Alley Improvement Project: NA	Federal Grants - CMAQ	-	-	531,098	-	-	531,098
	General Obligation Bonds	-	-	32,102	-	-	32,102
	Project Total	-	-	563,200	-	-	563,200
Intersection Reconstruction: 5499731	General Obligation Bonds	762,156	425,250	464,776	-	-	1,652,182
Minor Concrete Improvements: 5404380	Capital Projects Fund Balance	209,300	-	-	-	-	209,300
	General Obligation Bonds	-	209,300	209,300	209,300	209,300	837,200
	Project Total	209,300	209,300	209,300	209,300	209,300	1,046,500
Neighborhood Street Rehabilitation - Cape / Smooth Seal: 5499941	General Obligation Bonds	626,400	626,400	626,400	626,400	626,400	3,132,000
North Tempe Alley Improvement Project: NA	Federal Grants - CMAQ	-	-	961,105	-	-	961,105
	General Obligation Bonds	-	-	58,095	-	-	58,095
	Project Total	-	-	1,019,200	-	-	1,019,200
Residential Street Surface Treatments: 5499951	General Obligation Bonds	551,725	554,448	556,794	559,474	524,500	2,746,941
Street Reconstruction and Improvements: 5499711	General Obligation Bonds	561,643	668,125	1,069,000	1,175,900	668,125	4,142,793
Program Total		4,765,888	4,558,823	6,240,555	4,374,553	3,767,035	23,706,854

Arterial Asphalt Mill and Overlay



Project Description

This project provides for the resurfacing and localized reconstruction of the arterial street system in the City. The amount and type of traffic is approaching or has exceeded the design limit of some arterial streets. This project replaces the top layer of older, brittle pavement and sections of moderately distressed asphalt with new pavement. The type of asphaltic concrete for this pavement uses recycled tires reducing the amount sent to the landfill each year. This project will allow for the annual improvement of approximately 11% of the arterial streets which equates to the completion of 10 of the City's 88 miles of streets per year. The arterials to be improved for the fiscal year 2011-2012 will be Rural from Alameda to Salt River Bridge and Elliot from Interstate 10 to Kyrene. For the fiscal year of 2012-2013 the arterials will be University from Mill to the Hohokam Expressway.

Resurfacing and rehabilitating arterial streets increases the strength and the durability of the roadway, while maintenance costs for the next 10 years will decrease. This project is an important component of the City's strategic plan to maintain / preserve streets in good condition.

2011-12 Source of Funds

General Obligation Bonds \$1,754,664

Estimated Project Costs

Legal / Administration	\$75,436
Land Acquisition	\$0
Permit Fees	\$143,328
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$7,543,578
Geotech / Material Testing	\$141,697
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$7,904,038

Project Number: 5499741

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$1,754,664	\$1,775,300	\$1,431,885	\$1,503,479	\$1,438,710	\$7,904,038

Bridge Maintenance



Project Description

Federal law mandates the inspection of all bridges in the country every two (2) years. The Arizona Department of Transportation (ADOT) has been inspecting Tempe's bridges for many years and submitted a report to the City for required repairs and maintenance. Repairs are prioritized based upon the sufficiency rating produced by ADOT which varies from each inspection year. The next scheduled inspection will be conducted in the fall of 2011.

The scope of work for this project includes replacement of damaged bridge joints, joint seals and diaphragms, cleaning debris out of the joints to allow them to function properly, posting of vertical clearance signs, repair of damaged structural members and guard, replacement of missing bolts and nuts from railings, correction of settlement and subsidence at abutments and miscellaneous other items. This is done to assure that the bridges are safe and in good repair.

2011-12 Source of Funds

General Obligation Bonds \$300,000

Estimated Project Costs

Legal / Administration	\$11,700
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$187,200
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,110,000
Geotech / Material Testing	\$191,100
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,500,000

Project Number: 5499891

Estimated Start Date: 07/01/11

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000

Holdeman Alley Improvement Project



Project Description

The city of Tempe has an ongoing alley reconstruction / stabilization program which includes removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys. This project would stabilize approximately 4.25 of the City's 165 miles of alleys in the area from University to Broadway, Priest to Hardy. The primary environmental benefit derived from the project is a reduction in dust emissions due to activity in the alley.

The Holdeman Neighborhood area was identified in the City's Congestion Mitigation Air Quality (CMAQ) funding request through the Maricopa Association of Governments (MAG) in the Paving Unpaved Road Projects category for its regional proximity to Phoenix and to County air quality monitoring stations in South Scottsdale and near the intersection of College Ave. and Apache Blvd. Additionally, traffic counts in the northern segment of the area yielded higher than average number of trips per day for alley use.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$9,000
Design and Engineering	\$54,000
Survey / Staking	\$5,000
Construction Management	\$32,000
Furnishings / Equipment	\$0
Construction / Improvement	\$450,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$3,200
Total	\$563,200

Project Number: NA
Estimated Start Date: 08/01/13
Estimated Completion Date: 11/01/13

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$563,200	\$0	\$0	\$563,200

Intersection Reconstruction



Project Description

This project provides for the reconstruction, resurfacing, and rehabilitation of intersections throughout the city that have been determined to be unsafe for both pedestrian and vehicular traffic. The hot temperatures and the dynamic forces applied by the accelerating and decelerating traffic cause the asphalt intersection to rut and shove. This project will explore additional pavement alternatives such as Portland cement concrete and other additives that will improve the structural integrity of the intersections. Funding for this project will allow for the reconstruction of 1 of the City's 41 major arterial intersections per year. The intersections to be completed in the fiscal year of 2011-12 will be Mill and Southern, and in 2012-13 Mill and Baseline. The intersection to be completed in the fiscal year of 2013-14 will be McClintock and Southern.

2011-12 Source of Funds

General Obligation Bonds \$762,156

Estimated Project Costs

Legal / Administration	\$14,786
Land Acquisition	\$0
Permit Fees	\$28,094
Design and Engineering	\$93,736
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,478,600
Geotech / Material Testing	\$36,966
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,652,182

Project Number: 5499731
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$762,156	\$425,250	\$464,776	\$0	\$0	\$1,652,182

Minor Concrete Improvements



Project Description

This project will provide for the emergency replacement of broken curbs, gutters, and sidewalks throughout the city. Other uses include the new construction of curbs, gutters, sidewalks and ADA accessible ramps to improve the continuity of the infrastructure and to improve accessibility and mobility for pedestrians in various areas. This project is also used in emergency call out situations, e.g. water main breaks, as needed. Funds for the project will allow for approximately 18,000 square yards of minor concrete repair per year.

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$19,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,000,000
Geotech / Material Testing	\$17,500
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,046,500

Project Number: 5404380

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2011-12 Source of Funds

Capital Projects Fund Balance \$209,300

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$209,300	\$209,300	\$209,300	\$209,300	\$209,300	\$1,046,500

Neighborhood Street Rehabilitation - Cape / Smooth Seal



Project Description

The City's preventive maintenance efforts over the years have preserved our streets and kept them in very good condition. Cape and Smooth Seals are economically feasible alternatives used in extending the life of asphalt pavements. On average, this program allows for the rehabilitation of approximately 2% of our residential streets per year which is approximately 6 of the 308 miles of the city's residential streets. The first neighborhood to be resurfaced using the fiscal year 2011-12 and 2012-13 requested funds will be bounded by US 60 and Southern and Rural and McClintock. For the fiscal year of 2013-14 the neighborhood bounded by Southern and US 60 and Mill to Rural will be resurfaced. The type of asphaltic concrete for this pavement uses recycled tires reducing the amount sent to the landfill each year.

Estimated Project Costs

Legal / Administration	\$30,000
Land Acquisition	\$0
Permit Fees	\$57,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$3,000,000
Geotech / Material Testing	\$45,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$3,132,000

Project Number: 5499941

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$626,400

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$626,400	\$626,400	\$626,400	\$626,400	\$626,400	\$3,132,000

North Tempe Alley Improvement Project



Project Description

The city of Tempe has an ongoing alley reconstruction / stabilization program which includes removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys. This project would stabilize approximately 6% of the city's alleys which equates to the completion of approximately 10.5 of the 165 miles of alleys in the City. The improvement will include the areas from Miller Rd. to Crosscut Canal, and Curry Rd. to Continental Dr. The primary environmental benefit derived from the project is a reduction in dust emissions due to activity in the alley.

The North Tempe Neighborhood area was identified in the City's Congestion Mitigation Air Quality (CMAQ) funding request through the Maricopa Association of Governments (MAG) in the Paving Unpaved Road Projects category for its regional proximity to Phoenix and Scottsdale, and due to the fact that it is very close - approximately 2 miles - to the County's PM-10 air quality monitoring station in South Scottsdale.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$15,000
Design and Engineering	\$96,000
Survey / Staking	\$8,000
Construction Management	\$56,000
Furnishings / Equipment	\$0
Construction / Improvement	\$800,000
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$25
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$28,175
Total	\$1,019,200

Project Number: NA
Estimated Start Date: 08/01/13
Estimated Completion Date: 11/30/13

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$1,019,200	\$0	\$0	\$1,019,200

Residential Street Surface Treatments



Project Description

This project will provide the ongoing preventative maintenance of local / residential streets throughout the City in accordance with the City's pavement management program. Examples of the various types of treatments include; slurry seal, cape seal, smooth seal, seal coat and crack seal. Allocating funds and effort now will prevent future reconstruction costs that can be 10 times higher than routine maintenance costs. The project will allow for the annual surface treatment of approximately 13% of the city's streets which equates to the completion of approximately 40 of the 308 miles of streets per year. The streets to be maintained in the fiscal year of 2011-12 are bounded by All American Way to McClintock and Baseline to Guadalupe, Guadalupe to the Western Canal, Rural to Price, and Guadalupe to Elliot and Kyrene to Rural.

2011-12 Source of Funds

General Obligation Bonds \$551,725

Estimated Project Costs

Legal / Administration	\$25,000
Land Acquisition	\$0
Permit Fees	\$47,500
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,500,000
Geotech / Material Testing	\$174,441
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,746,941

Project Number: 5499951
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$551,725	\$554,448	\$556,794	\$559,474	\$524,500	\$2,746,941

Street Reconstruction and Improvements



Project Description

This project provides for the reconstruction, resurfacing, and rehabilitation of streets or street segments that have exceeded their design life or need significant repair. Streets and/or public rights of way in this category include streets that were acquired through annexation processes throughout the years, streets/rights of way that have never been constructed to city standards, and street segments that have failed or need repair or construction beyond preventive maintenance. Improvements are necessary in areas to ensure accessibility and safety for residents and businesses adjacent to these areas, pedestrians, bicyclists, and vehicular traffic. The project will allow for the annual improvement of approximately 0.5% of the streets which equates to the completion of 2 of the City's 472 miles of streets per year. Remaining funds from 2010-11 will be combined with 2011-12 funds to reconstruct Hardy Drive between Southern Avenue and Broadway Rd, and Priest between Grove Parkway and Carmen. The work will include pulverizing and recycling the existing asphalt and base course in place, and repaving.

2011-12 Source of Funds

General Obligation Bonds	\$561,643
--------------------------	-----------

Estimated Project Costs

Legal / Administration	\$38,754
Land Acquisition	\$0
Permit Fees	\$73,632
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$3,875,391
Geotech / Material Testing	\$155,016
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$4,142,793

Project Number: 5499711

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$561,643	\$668,125	\$1,069,000	\$1,175,900	\$668,125	\$4,142,793

2011-12 CIP Projects - Traffic Signals and Street Lighting Program



Project Name & Number	Funding Source	2011-12 Capital Budget	Additional Projected Needs				Total 5-Year Program
			2012-13	2013-14	2014-15	2015-16	
Communication Conduit: 696950	Federal Grants - CMAQ	242,528	-	-	-	-	242,528
	General Obligation Bonds	118,643	-	-	-	-	118,643
	Project Total	361,171	-	-	-	-	361,171
Elliot, Guadalupe and Warner ITS Improvements: NA	Federal Grants - CMAQ	-	-	383,333	-	-	383,333
	General Obligation Bonds	-	-	164,286	-	-	164,286
	Project Total	-	-	547,619	-	-	547,619
New Signals / Safety Upgrades: 6999879	General Obligation Bonds	180,000	180,000	180,000	180,000	180,000	900,000
Pedestrian ITS Devices: 6904350	General Obligation Bonds	25,000	25,000	25,000	25,000	25,000	125,000
Street Light Pole Structural Replacement: 6999849	General Obligation Bonds	300,000	300,000	300,000	300,000	300,000	1,500,000
Traffic Control Cabinets and Hardware Replacement: NA	Federal Grants - CMAQ	-	539,000	-	-	-	539,000
	General Obligation Bonds	-	231,000	-	-	-	231,000
	Project Total	-	770,000	-	-	-	770,000
Traffic Signal L.E.D. Replacement: 696696	General Obligation Bonds	100,000	100,000	100,000	100,000	100,000	500,000
Program Total		966,171	1,375,000	1,152,619	605,000	605,000	4,703,790

Communication Conduit



Project Description

Tempe currently uses leased phone lines to facilitate traffic signal operations. This project will install fiber optic communications media to each signalized intersection along University Dr. from Mill to McClintock utilizing existing fiber conduits resulting in 9 more signals being on city-owned infrastructure and reducing the leased phone line costs. The fiber run will tie into the ADOT Freeway Management System Fiber optic infrastructure as the backbone to bring data back to the Transportation Management Center at the Transportation Center. After completion of this project, one-quarter of the signal system (58 signals) will be on fiber.

The project will also increase bandwidth to allow for installation of real-time video detection (data gathering) and CCTV monitoring. Traffic efficiency improvements and/or traffic management strategies can be coordinated with real-time data sharing to better manage accidents and/or incidents on the street or freeway network. The city will be able to monitor traffic conditions and adjust traffic signal timing through centralized command and control strategies designed to help Tempe and ADOT relieve or minimize congestion.

2011-12 Source of Funds

Federal Grants - CMAQ	\$242,528
General Obligation Bonds	\$118,643

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$361,171
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$361,171

Project Number: 696950

Estimated Start Date: 07/01/11

Estimated Completion Date: 06/30/12

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$361,171	\$0	\$0	\$0	\$0	\$361,171

Elliot, Guadalupe and Warner ITS Improvements



Project Description

This project will use an existing conduit along Elliot for fiber optic communication to the signals. Wireless radios will be used to provide communication to signals along Guadalupe and Warner. Upon completion of this project, 30 more signals will be eliminated from leased phone line service bringing the total signal count on city-owned communication infrastructure to 118 (50%). Thirteen CCTVs will be placed at the major intersections for traffic monitoring, bringing the city's total to over 50 intersection cameras. As a result, the city will be able to monitor traffic conditions and adjust signal timing through centralized command & control strategies designed to help Tempe relieve or minimize congestion and to improve traffic flow along the corridors of Elliot Rd, Guadalupe Rd, and Warner Rd.

2011-12 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$547,619
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$547,619

Project Number: NA

Estimated Start Date: 07/01/13

Estimated Completion Date: 06/30/14

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$0	\$547,619	\$0	\$0	\$547,619

New Signals / Safety Upgrades



Project Description

This project provides for the installation of new traffic signals based on traffic engineering studies. It will also allow for replacement of existing outdated signals and address all safety updates to meet state and federal regulations. A modular intersection will cost an average of \$180,000 depending on the size of intersection, which takes into account two modular poles at each corner. This will allow the city to upgrade approximately one of the city's 220 intersections per year and/or add one new traffic signal based on traffic engineering warrants.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$900,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$900,000

Project Number: 6999879

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$180,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$900,000

Pedestrian ITS Devices



Project Description

The purpose of this project is to convert existing and/or install new accessible pedestrian devices at traffic signal controlled intersections. This project is a step toward complying with the American with Disabilities Act (ADA) and provides an essential public service for Tempe citizens. Examples of these devices include, but are not limited to, pedestrian push buttons, pedestrian countdown signal heads, audible pedestrian technologies and machine vision detections.

The project will install an average of 5 audible, vibro-tactile devices and convert existing pedestrian devices to countdown pedestrians at 10 intersections totaling 80 countdown devices. These conversions improve pedestrian safety and allow for continued conversion of 1/3 of our existing signals in the downtown.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$125,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$125,000

Project Number: 6904350

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$25,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000

Street Light Pole Structural Replacement



Project Description

The project will fund the replacement of existing rusted streetlight poles that are direct buried and provide funding to replace all direct buried street light poles to meet our current street light pole foundation standards. There are approximately 3,955 direct buried street light poles left in City inventory and of that approximately 1,705 that need to be replaced at a rate of 100-150 per year (based on their corrosion factor).

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,500,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,500,000

Project Number: 6999849
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$300,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000

Traffic Control Cabinets and Hardware Replacement



Project Description

Current traffic signal control cabinets were installed in 1995 through 1998 and will be approaching the typical product life cycle in the year 2013. As part of a continuing transportation management program, this project will procure equipment needed to upgrade and rehabilitate 70 (one-third) of the city's traffic signal control cabinets. As a practical matter, the inventory is aging and must eventually be replaced to minimize maintenance calls and to foster a high quality preventative maintenance program.

This project will reduce maintenance costs in the long term and improve the reliability and safety of the traffic signal control operation, thus minimizing City liability. The new traffic signal cabinets will provide the city's signal technicians with enhanced diagnostic tools to troubleshoot intersection malfunctions. These enhanced capabilities will facilitate increased intersection reliability and ultimately provide for safer traffic control operations.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$770,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$770,000

Project Number: NA
Estimated Start Date: 07/01/12
Estimated Completion Date: 06/30/13

2011-12 Source of Funds

NA

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$0	\$770,000	\$0	\$0	\$0	\$770,000

Traffic Signal L.E.D. Replacement



Project Description

The LED (Light Emitting Diodes) program has provided significant energy savings and has reduced maintenance costs since retrofitting all of the incandescent lamps in the City's traffic signals. The LEDs have reduced transportation maintenance costs by \$120,000 a year in off-hour call out costs, replacement bulbs and energy savings. LED modules have a life span of seven years and were first installed in 2002. This ongoing project will allow us to change out 2700 green LED lamps to newer LED's, which would result in an average conversion rate of approximately 44 intersections per year.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$500,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$500,000

Project Number: 696696
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2011-12 Source of Funds

General Obligation Bonds \$100,000

New Appropriations by Fiscal Year

2011-12	2012-13	2013-14	2014-15	2015-16	Total 5 Year
\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000