



**Capital Improvements Program Budget
July 1, 2013 - June 30, 2014
TEMPE, ARIZONA**





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Capital Improvements Program Overview

Pursuant to the Tempe City Charter, the City Manager prepares and submits a Capital Improvements Program (CIP) annually to the Council. The CIP is a five-year financial plan for the acquisition, construction, expansion, or rehabilitation of infrastructure and capital assets. Capital projects typically have one or more of the following characteristics: (1) expenditures which take place over two or more years, requiring continuing appropriations beyond a single fiscal year; (2) funding with debt because of significant costs to be shared by current and future beneficiaries; (3) creation or revitalization of a fixed asset with a minimum useful life of five years; (4) systematic asset acquisition over an extended period of time; and (5) scheduled replacement or maintenance of specific elements of physical assets. The following are some examples of items that are included within the definition of capital expenditures:

- Construction of new facilities
- Remodeling, expansion, and maintenance of existing facilities
- Purchase, improvement, or development of land
- Operating equipment and machinery for existing and new facilities
- Planning and engineering costs related to specific capital improvements
- Street resurfacing, renovation, or reconstruction
- Emergency vehicles
- Information Technology infrastructure

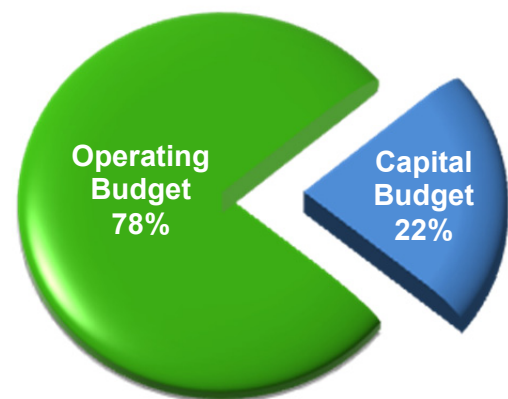
Although capital projects are scheduled throughout the five-year plan, only those projects during the first year of the plan are adopted as part of the City's annual budget. The first year of the CIP constitutes the capital budget. The remaining years within the CIP serve as a guide for future planning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

As shown in the charts below, the City of Tempe's total financial program for fiscal year (FY) 2013-14 totals \$547 million, and of this amount, approximately \$119.5 million is for projects included in the capital budget. The capital budget consists of the following program areas: Enterprise, Special Purpose, General Purpose, and Transportation projects.

The Enterprise program totals \$37.6 million and includes water and wastewater projects accounting for 31.4% of the total capital budget in FY 2013-14. The Special Purpose program includes Transit projects, and totals \$15.5 million, or 13%, of funded projects in FY 2013-14. The General Purpose program includes Police, Fire, Storm Drains, Parks and General Governmental projects and totals \$51.2 million or 43% of the capital budget. The Transportation program includes lighting and traffic signal projects, and street and sidewalk renovation and construction projects. Transportation program funding totals \$15.2 million.

Comparison of FY 2012-13 and FY 2013-14 Capital Budgets		
Capital Program	FY 2012-13 Budget	FY 2013-14 Budget
Enterprise		
Water	\$43,446,718	\$27,447,487
Wastewater	19,573,037	10,118,974
Special Purpose		
Transit	20,365,587	15,521,005
General Purpose		
Police	7,845,283	2,745,512
Fire	1,687,521	2,556,829
Storm Drains	1,091,059	896,062
Park Improvements	10,006,161	29,774,582
General Governmental	11,644,294	15,257,687
Transportation		
Transportation and R.O.W	7,433,340	12,256,356
Traffic Signals / Street Lighting	1,719,526	2,952,915
Total	\$124,812,526	\$119,527,409

FY 2013-14 Total Financial Program	
Operating Budget	\$427.8
Capital Budget	\$119.5
Total (\$ millions)	\$547.3



2013-14 CIP Process

Early November 2012 City department heads, capital project managers, and Financial Services staff launched the 2013-14 CIP process with a meeting to review the capital budget calendar and estimated availability of funds. Financial Services staff provided guidance regarding the information CIP project managers should provide to substantiate requests for FY 2013-14 project funding. This included detailed assistance with how to complete the most recent project request form. Continued emphasis was placed on the importance of providing accurate project completion timelines, and validating ongoing project costs with detailed schedules for the replacement and maintenance of City assets.

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 estimated the City's capacity to enter into additional General Obligation (G.O) debt to fund capital projects over the upcoming five year period of the CIP, and worked to identify all other potential project funding sources.

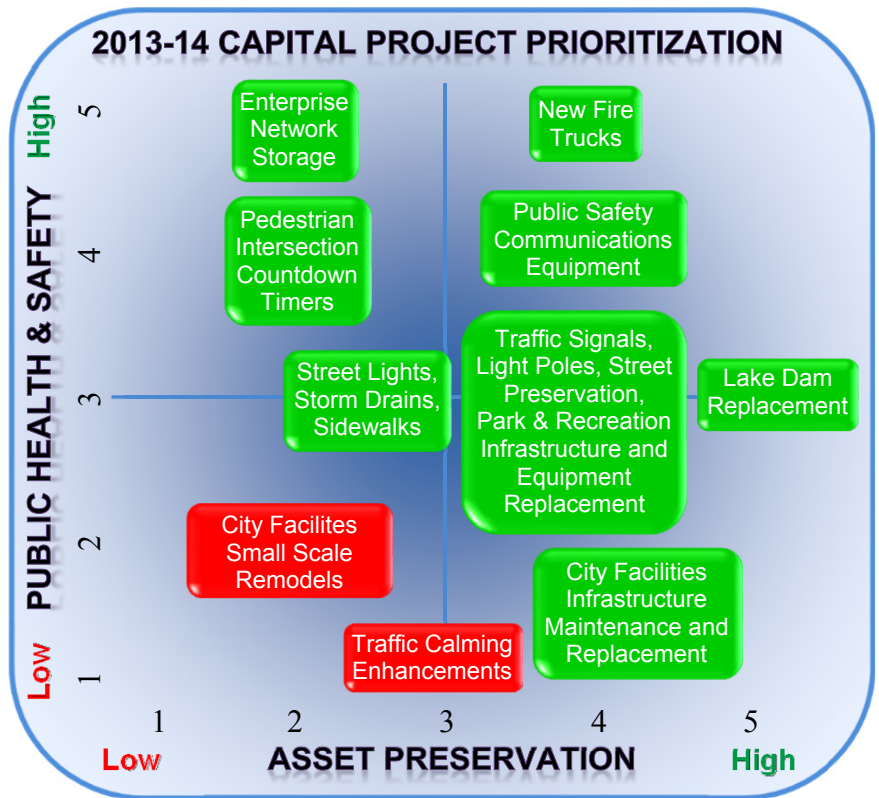
Unlike capital project programs like transit and water and wastewater which have dedicated funding sources; several general purpose project program areas are eligible for G.O bond funding as approved by Tempe voters.

Since total costs associated with projects submitted with G.O. bonds as the proposed funding source far exceeded the amount of G.O. bonds the City can afford to issue over the next five years, those projects were prioritized and ranked according to established criteria to identify the 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 (depicted in the diagram to the right).

As a result, the top priority G.O. funded projects recommended by staff were those necessary to maintain or replace existing assets, and projects that would enable the City to operating at existing service levels.

It is important to note transit and water / wastewater projects were also evaluated for necessity based on adherence to the City's asset management practices, and the degree to which they addressed public health and safety concerns; however they were not subjected to a rigorous prioritization process because total project costs fell within the funding levels available to the respective program areas. This is somewhat by design since funding availability for these areas is measured by transit and water / wastewater fund managers who work closely with the project managers.

Finally, during three City Council Issue Review Sessions held between February and April 2013, staff presented, for Council's consideration, all capital projects originally submitted by departments, as well as staff's recommended prioritization of G.O. bond funded projects. Also during these sessions, Financial Services discussed the financial and legal funding variables used to determine the total potential monetary size of the next five year CIP (discussed further below under Capital Program Financing). Consequently, on June 13th a balanced final five year capital program was presented for Council adoption.

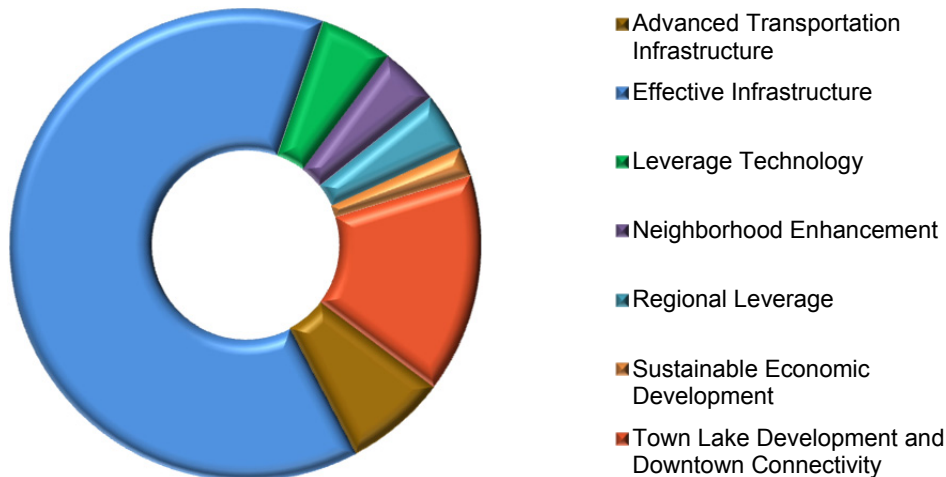


The diagram above illustrates how the general purpose G.O. bond funded projects requested in the FY 2013-14 CIP process were scored and prioritized based on the degree to which they contribute to the preservation of City assets, and the degree to which they address public health and safety concerns. Projects in green categories are included in the 2013-14 adopted five year CIP; projects in red categories were considered relatively lower priorities and fell just outside of the G.O. bond funding range.

Capital Budget Strategic Priorities

At their annual summit, the City Council identified the eleven strategic priorities listed below to guide The City of Tempe's operations over the next three to five years. The diagram below displays how the capital projects included in the adopted FY 2013-14 capital budget are aligned with the City Council's strategic priorities.

- ❖ Advanced Transportation Infrastructure
- ❖ Education as a Priority
- ❖ Effective Infrastructure
- ❖ Implementation Alignment
- ❖ Leverage Technology
- ❖ Long Term Financial Stability
- ❖ Neighborhood Enhancement
- ❖ Operational Sustainability and Accountability
- ❖ Regional Leverage
- ❖ Sustainable Economic Development
- ❖ Town Lake Development and Downtown Connectivity



Not surprisingly, 63% of the funded 2013-14 capital projects are aligned with the Effective Infrastructure strategic priority. This category captures projects spanning all capital project program areas and exemplifies the City's focus on maintaining its existing core infrastructure through ongoing asset maintenance and replacement projects.

The Regional Leverage strategic priority is represented by projects in which Tempe is a partner agency, or shares in ownership with other Phoenix metropolitan area political subdivisions. Tempe is a regional partner in projects under the Police Protection and Water / Wastewater capital project programs.

Several Transit projects such as the Broadway Road streetscape project, and the Rio Salado Multiuse Path projects support the Advanced Transportation Infrastructure strategic priority by adding grant funded multi-modal pedestrian and bicycle accessibility improvements to these areas. Projects to install pedestrian intersection countdown timers and traffic flow monitoring under the Traffic Signals and Street Lighting program also contribute to the advanced transportation infrastructure.

The Town Lake dam project exemplifies the City's continued capital investment in support of the Town Lake Development and Downtown Connectivity strategic priority.

The City's commitment to leveraging technology is evidenced throughout 2013-14 capital programs in projects such as the Permits Plus Upgrade project, the Library Software Upgrade and RFID Conversion, and the Police Department's upgrade and replacement of its computer aided dispatch, records management, and field report writing systems.

The CIP also contributes directly to the Sustainable Economic Development strategic priority. Several projects in the Water / Wastewater capital program will increase the City's wastewater flow capacity by replacing aging pipelines in targeted locations in order to accommodate future development. The General Governmental capital program also contains projects which will maintain the City's character and enhance its ability to attract new economic development, as well as projects which contribute directly to the quality and image of City neighborhoods.



Fiscal Years 2013-14 through 2017-18 Capital Improvements Program Summary

Program	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2014-15	2015-16	2016-17	2017-18	
Enterprise Program								
Water	22,690,987	4,756,500	27,447,487	14,613,000	10,618,758	8,652,205	7,147,205	68,478,655
Wastewater	4,853,974	5,265,000	10,118,974	3,695,578	7,314,515	10,264,951	6,495,529	37,889,547
Total Enterprise	27,544,961	10,021,500	37,566,461	18,308,578	17,933,273	18,917,156	13,642,734	106,368,202
Special Purpose Program								
Transit	11,322,141	4,198,864	15,521,005	14,086,376	5,349,390	3,408,348	1,709,568	40,074,687
Total Special Purpose	11,322,141	4,198,864	15,521,005	14,086,376	5,349,390	3,408,348	1,709,568	40,074,687
General Purpose Program								
Police Protection	1,883,801	861,711	2,745,512	-	-	3,912,538	-	6,658,050
Fire Protection	1,484,429	1,072,400	2,556,829	1,858,000	582,800	1,100,000	550,000	6,647,629
Storm Drains	896,062	-	896,062	250,000	250,000	250,000	250,000	1,896,062
Park Improvements	5,513,452	24,261,130	29,774,582	29,571,351	2,407,500	2,517,500	2,597,500	66,868,433
General Governmental	5,782,926	9,474,761	15,257,687	5,171,527	4,873,148	5,710,805	3,190,113	34,203,279
Total General Purpose	15,560,670	35,670,002	51,230,672	36,850,878	8,113,448	13,490,843	6,587,613	116,273,453
Transportation								
Transportation and R.O.W.	2,666,852	9,589,504	12,256,356	4,425,277	4,825,177	5,265,067	4,759,295	31,531,172
Traffic Signals/Street Lighting	871,800	2,081,115	2,952,915	1,010,884	1,884,066	1,763,081	1,661,028	9,271,974
Total Transportation	3,538,652	11,670,619	15,209,271	5,436,161	6,709,243	7,028,148	6,420,323	40,803,146
TOTAL PROGRAM	57,966,425	61,560,985	119,527,409	74,681,993	38,105,354	42,844,495	28,360,238	303,519,489



Fiscal Years 2013-14 through 2017-18 Capital Improvements Program Source of Funds Summary

Program	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
				2014-15	2015-16	2016-17	2017-18	
Enterprise Supported								
Water / Wastewater Bonds	27,132,030	9,222,500	36,354,530	18,308,578	17,933,273	18,917,156	13,612,734	105,126,271
Capital Projects Fund Balance	412,931	799,000	1,211,931	-	-	-	30,000	1,241,931
Total Enterprise Supported	27,544,961	10,021,500	37,566,461	18,308,578	17,933,273	18,917,156	13,642,734	106,368,202
Special Purpose								
Transit								
Transit Tax	2,892,803	3,729,780	6,622,583	3,305,706	2,083,994	2,029,327	1,709,568	15,751,178
Federal Grants	8,429,338	469,084	8,898,422	10,780,670	3,265,396	1,379,021	-	24,323,509
Total Special Purpose	11,322,141	4,198,864	15,521,005	14,086,376	5,349,390	3,408,348	1,709,568	40,074,687
General Purpose								
General Obligation Bonds	7,833,418	24,964,706	32,798,124	29,707,377	7,687,299	13,045,297	6,407,810	89,645,907
Capital Projects Fund Balance	7,291,029	921,711	8,212,740	-	-	-	-	8,212,740
Municipal Arts Fund	293,223	500,562	793,785	-	-	-	-	793,785
Solid Waste Fund	87,500	367,915	455,415	97,799	99,957	141,544	55,126	849,840
Transit Tax	-	30,000	30,000	-	-	-	-	30,000
Water / Wastewater Fund	17,500	214,280	231,780	236,201	278,692	256,503	77,177	1,080,352
Golf Fund Enterprise Revenue	-	674,000	674,000	2,762,000	-	-	-	3,436,000
Capital Improvements Reserve	38,000	19,698	57,698	-	-	-	-	57,698
Cash	-	6,000,000	6,000,000	4,000,000	-	-	-	10,000,000
Property Assessments	-	579,630	579,630	-	-	-	-	579,630
CenturyLink	-	150,000	150,000	-	-	-	-	150,000
Diablo Stadium Revenue	-	47,500	47,500	47,500	47,500	47,500	47,500	237,500
Orchid House Proceeds	-	1,200,000	1,200,000	-	-	-	-	1,200,000
Total General Purpose	15,560,670	35,670,002	51,230,672	36,850,878	8,113,448	13,490,843	6,587,613	116,273,453
Transportation								
General Obligation Bonds	2,607,564	3,554,961	6,162,525	5,029,244	5,465,854	5,744,523	5,232,933	27,635,079
Capital Projects Fund Balance	386,011	491,561	877,572	-	-	-	-	877,572
Developer Assistance	-	180,000	180,000	-	-	-	-	180,000
Highway User Revenue Fund	-	1,427,000	1,427,000	300,000	300,000	300,000	300,000	2,627,000
State LTAF Revenue	-	1,153,000	1,153,000	-	-	-	-	1,153,000
Federal Grants	545,077	4,864,097	5,409,174	106,917	943,389	983,625	887,390	8,330,495
Total Transportation	3,538,652	11,670,619	15,209,271	5,436,161	6,709,243	7,028,148	6,420,323	40,803,146
TOTAL PROGRAM	57,966,425	61,560,985	119,527,409	74,681,993	38,105,354	42,844,495	28,360,238	303,519,489

CIP Impact on the Operating Budget

Although the City of Tempe prepares the capital budget separate from the operating budget, the two budgets are linked. These links include ongoing operating, maintenance and repair costs associated with new or renovated facilities and infrastructure. CIP projects also often necessitate the addition of new personnel / positions required to staff or maintain new buildings or outdoor recreational areas. On the other hand, CIP projects may produce new revenue streams in the form of fees paid for the use of new or expanded facilities, or new operating revenue generated from infrastructure enhancements that promote new economic development and activity within the City.

The new FY 2013-14 operating costs and revenues shown below are incorporated in the City's adopted operating budget. In addition to current year operating budget impacts, future operating costs, savings, and new revenue associated with current and planned projects are identified in the capital budget process to aid in long-range planning. Since the City Council only formally adopts operating and capital budgets on an annual basis, the 'out-year' impacts represent a forecast based on the current scope of the project and inflation assumptions. As such, they will be subject to revision in future years. The table below shows the estimated new ongoing operating budget impacts associated with projects included in the adopted five year CIP.

New Operating and Maintenance Impacts: FYs 2013-14 to FY 2017-18						
Capital Projects by Fund	Cost Category	FY 2013-14	FY 2014-15	FY 2015-16	FY 2016-17	FY 2017-18
General Fund Projects						
City Regional Radio System Maintenance and Replacement	Software Maintenance	\$ 25,200	\$ 109,200	\$ 25,200	\$ 109,200	\$ 25,200
CAD / RMS / FRWS	Software Maintenance		224,015	224,015	224,015	224,015
Laptop Replacement	Vehicle Data Cards	15,000	15,000	15,000	15,000	15,000
Permits Plus Upgrade	Software Maintenance	75,838	75,838	75,838	75,838	75,838
General Fund Subtotal		116,038	424,053	340,053	424,053	340,053
Transit Fund Projects						
Alameda Drive & I-10 Bicycle / Pedestrian Bridge	Landscape Maintenance				7,103	7,316
Broadway Road Streetscape Project	Landscape Maintenance			6,896	7,103	7,316
Creamery Branch Rail Path	Landscape Maintenance					7,535
El Paso Natural Gasline Easement Multi-use Path Phase III	Landscape Maintenance			6,896	7,103	7,316
Hardy Drive Streetscape Project	Landscape Maintenance		8,500	8,755	9,018	9,288
Rio Salado Southbank Path Tempe - Phoenix	Landscape Maintenance	6,500	6,695	6,896	7,103	7,316
Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange	Landscape Maintenance		6,695	6,895	7,102	7,315
Tempe Transit Center	Lease Revenue	(15,875)	(83,820)	(87,630)	(91,440)	(95,250)
Transit Passenger Facilities Installation and Upgrade Project	Bus Stop Maintenance	3,900	3,900	4,017	4,138	4,262
University Drive Bike / Ped Improvements (Union Pacific Railroad to Priest)	Landscape Maintenance		6,896	7,103	7,316	7,535
Transit Fund Subtotal		(5,475)	(51,134)	(40,172)	(35,456)	(30,051)
Water / Wastewater Fund Projects						
Water Utilities Security Improvements	Lights Maintenance		\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000
City of Tempe Total		\$ 110,563	\$ 377,919	\$ 304,881	\$ 393,597	\$ 315,002

Notably, as a result of the Transit Center project, build-out of the ground floor retail space of the Tempe Transportation Center is estimated to generate new revenue as a result of leasing transit-oriented retail space to new tenants. Shown above, this new revenue is projected to more than offset the annual operating and maintenance expenditure increases in the Transit Fund.

CIP – Significant Nonrecurring Projects

These are permanent projects that are unusual and typically “one time” in nature and involve the construction of new facilities or City infrastructure, extensive renovation or addition to existing facilities, or that appreciably contribute to the City’s General Plan particularly with regard to sustainable land use, economic development and regional connectivity.

Town Lake Dam Replacement

Project Number:	6504227	Program:	General Purpose
Start Date:	07/05/2012	Sub Program:	Park Improvements / Recreation
Estimated Completion Date:	12/31/2015	Managing Department:	Public Works / Engineering



Project Description and Benefit

Based on the contractual agreement between the City and Bridgestone, the temporary rubber bladders must be replaced by the City by the end of December, 2015. The City has initiated a project to select, design and construct the "best - value" solution for replacement of the Tempe Town Lake downstream dam and that has been determined to be the steel hinged crest gate. Current project cost estimate is for the Downstream Dam only. Design and Engineering costs in year 2013- 2014 will apply to long lead item procurement.

Tempe Town Lake is a major element of the City’s identity, and residents enjoy the many activities and events that take place around the lake throughout the year. Replacement of the lake’s dam(s) represents a major investment in the sustainability of this important attraction and ensures the lake will remain a pleasant and safe leisure opportunity destination for residents into the future.

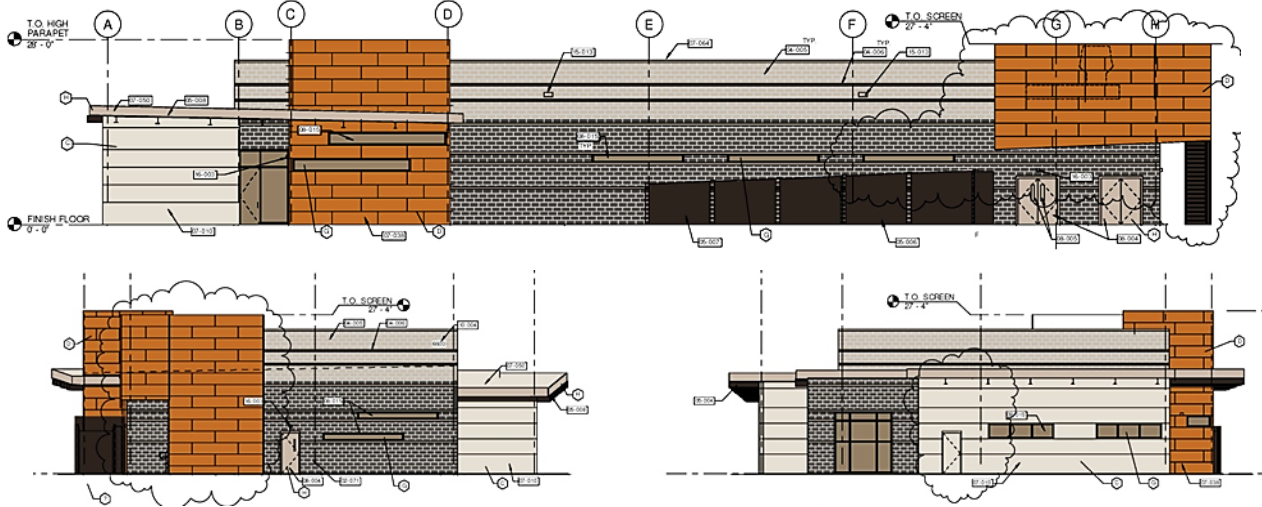
Funding Source(s)	2013-14	2014-15	2015-16	2016-17	2017-18	Total 5-Year
Capital Projects Fund Balance	3,621,330	-	-	-	-	3,621,330
Cash	-	4,000,000	-	-	-	4,000,000
General Obligation Bonds	13,550,000	19,611,851	-	-	-	33,161,851
Project Total	17,171,330	23,611,851	-	-	-	40,783,181

New Operating and Maintenance Budget Impact

The annual operating budget for maintenance of the existing Town Lake Dam will be utilized to maintain the new dam once complete. City engineering staff are currently working to estimate the actual costs required to fully maintain and monitor the new dam. Should the annual operating costs exceed the current budget for the existing dam, a determination will be made about whether or not it will be fiscally necessary to reduce the operating budget in other operating areas or departments in order to accommodate the increase, or whether the increase can be added to the City’s total operating budget.

Environmental Laboratory Facility

Project Number: 3203499 **Program:** Enterprise
Start Date: 07/01/2012 **Sub Program:** Water
Estimated Completion Date: 12/31/2013 **Managing Department:** Public Works / Water Utilities



Project Description and Benefit

This project involves the design and construction of an environmental laboratory facility necessary to continue to analyze the quality of its drinking water and wastewater as required under federal and state environmental laws, and to ensure the safest possible water supply. Design plans and specifications are completed and building permits for the project have been obtained.

The purpose is to allow Tempe to conduct quality analyses of its drinking water and wastewater supplies to ensure compliance with federal and state regulations, and to ensure that Tempe residents receive a safe and sustainable water supply. Rapidly emerging regulations governing drinking water and wastewater have created a nearly 5-fold increase in the last decade in the number of analyses that Tempe must conduct to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Without this project, Tempe will increasingly depend on costly contract laboratories to provide water quality analyses, and will be unable to utilize such data to optimize treatment processes and practices due to long turn-around times associated with contract labs.

The Environmental Laboratory project will help ensure the City's water quality is tested and treated in compliance with current and future environmental regulation under the U.S. Safe Drinking Water Act. According to the City's 2012 Community Attitude Survey, the City's ability to supply reliable, high quality domestic water to its residents resulted in an 84% resident satisfaction rating which is 4% above the national average of 80%.

Funding Source(s)	2013-14	2014-15	2015-16	2016-17	2017-18	Total 5-Year
Water / Wastewater Bonds	6,936,639	-	-	-	-	6,936,639

New Operating and Maintenance Budget Impact

Water utilities staff predict the current annual operating budget for water testing can be reduced once the new laboratory facility is complete. While the exact reduction amount is unknown at this time, water utilities staff estimate new technology and equipment at the new facility will allow the department to save between \$100,000 and \$200,000 annually because more water testing will be performed "in house" rather than by expensive outside laboratories.

Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange

Project Number: 6004319 **Program:** Special Purpose
Start Date: 07/01/2011 **Sub Program:** Transit
Estimated Completion Date: 12/30/2013 **Managing Department:** Public Works / Transit



Project Description and Benefit

The project will construct approximately 1,200 feet of a shared use path underneath Loop 202 at the 202/101 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 pathways in Tempe and Mesa. The project is funded through a federal transportation grant in partnership with the Arizona Department of Transportation.

The project provides a non-motorized link along a regionally significant riparian corridor between 2 major 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.

Funding Source(s)	2013-14	2014-15	2015-16	2016-17	2017-18	Total 5-Year
Transit Tax	125,390	-	-	-	-	125,390
Federal Grant - CMAQ	2,074,438	-	-	-	-	2,074,438
Project Total	2,199,828	-	-	-	-	2,199,828

New Operating and Maintenance Budget Impact

	2013-14	2014-15	2015-16	2016-17	2017-18
Landscaping Maintenance \$	\$ -	\$ 6,695	\$ 6,895	\$ 7,102	\$ 7,315

Transit Staff estimate this project will require future expansion to the scope and cost of the City's existing multiuse path landscaping maintenance contract in the annual amounts shown above.

Broadway Road Streetscape Project

Project Number: 6003059 **Program:** Special Purpose
Start Date: 10/01/2008 **Sub Program:** Transit
Estimated Completion Date: 12/01/2013 **Managing Department:** Public Works / Transit



Project Description and Benefit

The Broadway Road Pedestrian and Bicycle Improvement Project is approximately 1 mile between Mill Ave and Rural Road. The project consists of pedestrian and bicycle facility improvements along an arterial street fronted by single family residential units. Work to be performed include striping for bike lanes, the widening of sidewalks, construction of planted medians, protection from noise, pedestrian safety, reduction of speed limit, provisions for mid-block crossings and providing transit and pedestrian amenities.

The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU and downtown Tempe. Area residents are advocating to change the character of the street to reflect the residential uses on this stretch of Broadway Road, which differs significantly with the rest of corridor. The design of the Broadway Road project was a product of extensive community dialogues. The proposed project is identified in the Tempe Comprehensive Transportation Plan as one of the proposed corridors for improvement.

Funding Source(s)	2013-14	2014-15	2015-16	2016-17	2017-18	Total 5-Year
Transit Tax	575,000	772,000	-	-	-	1,347,000
Federal Grant - CMAQ	-	3,857,670	-	-	-	3,857,670
Project Total	575,000	4,629,670	-	-	-	5,204,670

New Operating and Maintenance Budget Impact

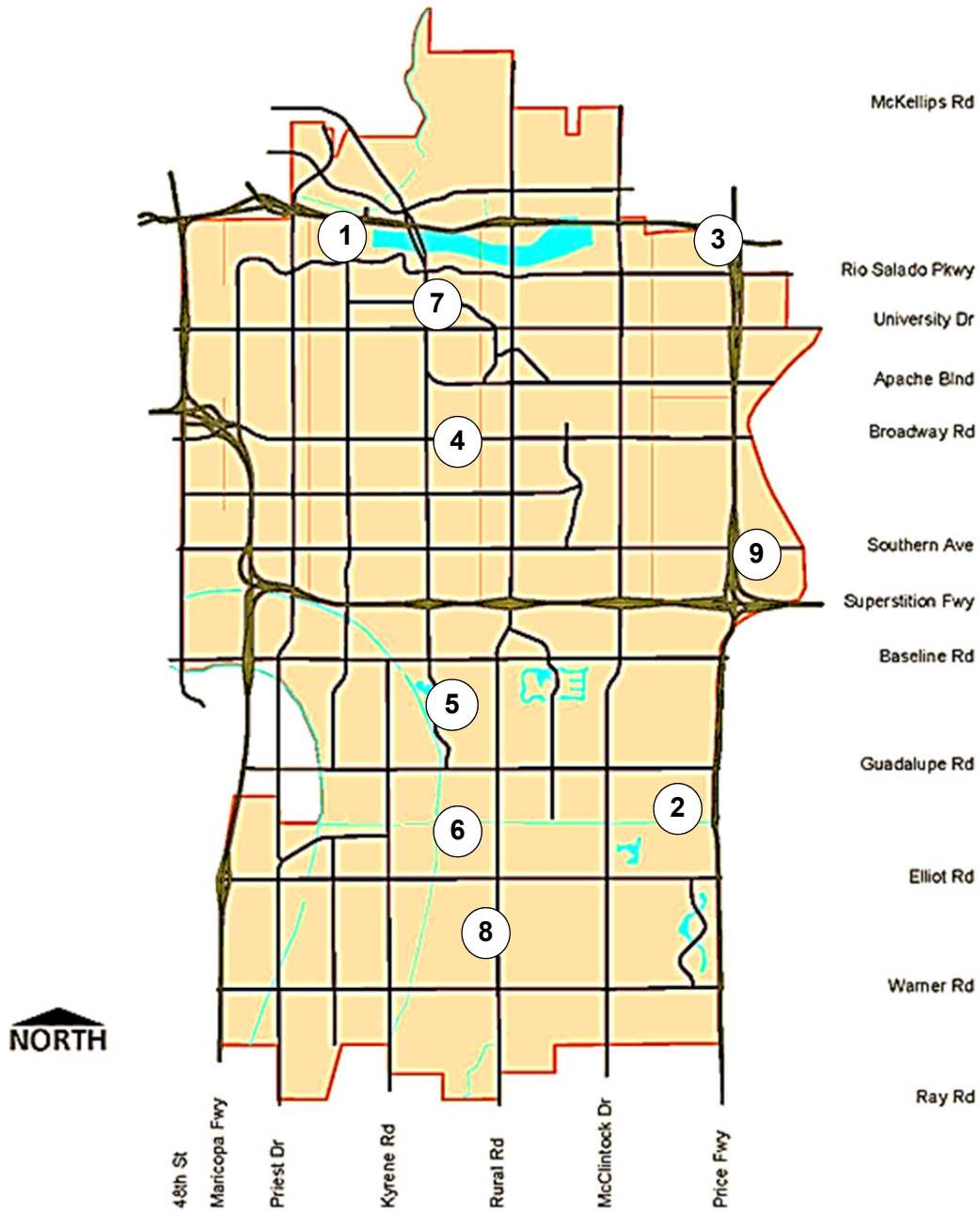
	2013-14	2014-15	2015-16	2016-17	2017-18
Landscape Maintenance \$	\$ -	\$ -	\$ 6,896	\$ 7,103	\$ 7,316

Transit Staff estimate this project will require future expansion to the scope and cost of the City's existing multiuse path landscape maintenance contract in the annual amounts shown above.

CIP – Significant Recurring Capital Expenditures

The majority of the CIP provides for ongoing or recurring projects that maintain and repair City facilities, water infrastructure, streets, and parks, and projects that gradually replace various capital assets. All 148 projects included in the adopted five year CIP are described under their respective program area in the Fiscal Years 2013-14 through 2017-18 Capital Improvements Program Project Listing and Descriptions section.

Capital Improvements Project Map



Location	Project Description
1.	Town Lake Downstream Dam Replacement
2.	Environmental Laboratory Facility
3.	Tempe Rio Salado Underpass – Under 202 at 101
4.	Broadway Road Streetscape Project
5.	Kiwanis Park Playground Replacement & Renovations
6.	Ken McDonald Golf Course Recharge Project
7.	City Hall Complex Heating and Cooling Repair
8.	Arterial, Collector & Residential Street Asset Preservation
9.	Street Light Upgrade / New Installation



Capital Improvements Program Financing

As shown in the chart below, Tempe's 2013-14 capital program is funded through a combination of bonds and other sources, including pay-as-you-go financing, outside revenues, grants and capital project fund balances.

For fiscal year 2013-14, the City plans to issue \$39 million in new general obligation (G.O.) bonds for projects in the General Purpose and Transportation programs. Over the five-year Capital Improvements Program, the City plans to issue \$117 million in bonds for these purposes. Debt service on these bonds will be repaid by revenues from the City's secondary property taxes.

FY 2013-14 Source of Funds		
Funding Source	\$ Millions	% of Total
Water / Wastewater Bonds	\$36.3	30%
General Obligation Bonds	39.0	33%
Outside Revenue	16.5	14%
Capital Project Fund Balances	10.3	9%
Pay-as-you-go	17.4	15%
Total	\$119.5	100%

It is important to note the total projected issuance amount of approximately \$117 million of G.O. bonds over the next five years reflects the City's estimated new debt capacity over this period as identified by staff within the parameters of the City's statutory debt limits, the City's property tax levy stabilization policy, and the City's debt management plan.

The City also plans to issue approximately \$36.3 million of new enterprise bonds in 2013-14 to finance the project costs in this program. Over the five year CIP, The City plans to issue approximately \$105 million in bonds in the Enterprise program. User fee revenue will support the debt service costs on these bonds.

FY 2013-14 capital budget funding sources other than bonds total \$44 million. \$14 million in federal grants received for projects in the Transit and Transportation programs make up the bulk of outside revenue budgeted for expenditure in 2013-14. Pay-as-you go funding is concentrated in the Transit and General Purpose programs in the form of \$6.6 million in budget year Transit Tax collections, and \$6 million of potential cash expenditures respectively.

The budgeted use of capital project fund balances to finance projects in 2013-14 largely represents the use of prior year cash balances or bond proceeds assigned to projects in the General Purpose program which were approved in 2012-13 and re-appropriated for completion in 2013-14.

The FY 2013-14 capital budget funding sources for each project are described in further detail in the Fiscal Years 2013-14 through 2017-18 Capital Improvements Program Project Listing and Descriptions section.

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.

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

This active debt management ensures the City can readily assess long-term implications for its 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 fluctuations in annual secondary property tax levy amounts will necessitate the use of the City's debt service reserve and financing methods other than bonds 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 above. These high ratings translate directly into lower interest rates on the City's debt.



Long-Term Debt and Bond Authorization Summary

Remaining General Obligation Bond Authorizations July 1, 2013

	Original Authorization	Prior Issuances	Remaining Authorization
2008 Voter Authorization			
Water / Wastewater	113,300,000	52,025,302	61,274,698
Public Safety	32,010,000	15,505,000	16,505,000
Park Improvements / Community Services	51,800,000	19,475,000	32,325,000
Streets / Transportation / Storm Drains	44,200,000	8,505,000	35,695,000
Subtotal	241,310,000	95,510,302	145,799,698
2012 Voter Authorization			
Public Safety	6,400,000	-	6,400,000
Park Improvements / Community Services	10,500,000	-	10,500,000
Municipal Infrastructure Preservation	12,900,000	2,275,000	10,625,000
Subtotal	29,800,000	2,275,000	27,525,000
TOTAL	\$271,110,000	\$ 97,785,302	\$173,324,698

Outstanding Long-Term Debt Summary

	July 1	2010	2011	2012	2013
General Obligation Bonds					
Water / Wastewater		305,177,545	287,621,092	270,715,646	253,760,903
Public Safety		59,905,000	60,875,000	59,625,000	60,260,000
Park Improvements		36,688,500	34,515,000	34,170,000	34,105,000
Library / Museum		11,721,500	11,410,000	10,940,000	10,465,000
Streets / Transportation / Storm Drains		64,350,000	59,880,000	57,465,000	57,130,000
Municipal Infrastructure Preservation		-	-	-	2,275,000
Total G.O. Debt Outstanding		477,842,545	454,301,092	432,915,646	417,995,903
Excise Tax Bonds					
Water / Wastewater		16,175,000	46,954,000	53,744,000	79,034,000
General Governmental		28,815,000	35,676,000	34,347,900	33,352,900
Performing Arts		39,780,000	36,295,000	31,820,000	27,280,000
Transit		132,745,000	129,905,000	126,955,000	68,345,000
Rio Salado		29,130,000	27,435,000	25,400,000	23,545,000
Cemetery Enterprise		1,875,000	1,785,000	1,658,100	1,558,100
Total Excise Tax Debt Outstanding		248,520,000	278,050,000	273,925,000	233,115,000
Special Assessment Bonds ⁽¹⁾		33,025,000	29,875,000	27,815,000	25,675,000
Section 108 Guaranteed Loan ⁽²⁾		6,181,000	5,883,000	5,572,000	5,247,000
Total Outstanding Long-Term Debt		\$765,568,545	\$768,109,092	\$740,227,646	\$682,032,903

(1) As trustee for improvement districts within the City, the City is responsible for collection of assessments levied against the owners of property within the improvement districts and for disbursement of these amounts for retirement of the respective bonds issued to finance the improvements. Improvement bonds are collateralized by properties within the districts. In the event of default by the property owner, the City is contingently liable on special assessment bonds to the extent proceeds from assessments are insufficient to retire outstanding bonds.

(2) In July 2004, the City entered into a Section 108 guaranteed loan agreement with the U.S. Department of Housing and Urban Development (HUD) for funding of \$7,000,000 for on-site environmental remediation of the University / Hayden Butte Redevelopment Area 5 (Rio Salado Marketplace Redevelopment). The City has pledged its Community Development Block Grants as security for HUD's guaranteed loan. The City was awarded a \$1,000,000 HUD Brownfield Economic Development Initiative grant to be used to pay interest on the HUD Section 108 loan until such time the development generates sufficient tax revenue to cover the debt service of the development.



Fiscal Year 2013-14 Debt Service Appropriations by Capital Program

Program	Principal	Interest	Fiscal Agent Fees	Total
Water / Wastewater	20,616,594	14,130,946	357,500	35,105,040
General Governmental	9,337,105	5,930,516	305,000	15,572,621
Transportation	4,835,000	1,934,962	-	6,769,962
Transit Program	1,700,000	2,955,713	7,500	4,663,213
Performing Arts	4,750,000	1,168,250	7,500	5,925,750
Rio Salado	1,865,000	1,064,200	-	2,929,200
Special Assessments	1,745,000	1,214,850	-	2,959,850
Section 108 Loan	340,000	289,708	-	629,708
Total	\$ 45,188,699	\$ 28,689,144	\$ 677,500	\$ 74,555,343

Legal Bonded Debt Limits

Under Article 9, Section 8 of the Arizona State Constitution, cities may issue general obligation bonds for purposes of water, wastewater, artificial light, open space preserves, parks, playgrounds and recreational facilities, public safety, law enforcement, fire and emergency services facilities and streets and transportation facilities up to an amount not exceeding 20% of secondary assessed property value within the City.

Cities may also issue general obligation bonds for any purposes up to an amount not exceeding 6% of the secondary assessed value. All bonds issued pursuant to Article 9, Section 8 are subject to authorization by a majority vote at a city bond election.

As a result of year over year declines in property values which began during the great recession (displayed on the following page), the City first exceeded its 20% debt limit when final annual property valuations were provided from Maricopa County during fiscal year 2011-12. This limit was exceeded because property valuations fell far enough that the City's amount of already outstanding general obligation debt instantaneously grew to be more than 20% of secondary assessed property value within the City.

Between fiscal year 2011-12 and 2013-14 taxable secondary assessed property values within the City fell approximately 46%. As is shown below, this decline in value continues to cause the City's outstanding debt issued under the 20% limit to exceed 20% of the City's secondary assessed property value.

The City currently estimates the combination of paying down the outstanding principal balance of debt issued against the 20% limit, and rising property values through a recovering economy, will produce a positive debt to value ratio by fiscal year 2015-16 or 2016-17. Until such time, the City may / will not incur additional debt against the 20% debt limit. While the City may continue to issue debt within the 6% debt limit; doing so must be done with extreme vigilance depending on actual year to year property valuation activity and economic projections.

FY 2013-14 General Obligation Bonded Debt Limits July 1, 2013

FY 2013-14	6%	20%
Projected G.O. Debt Limit ⁽¹⁾	\$90,797,956	\$302,659,854
Outstanding G.O. Bonded Debt-Previously Issued	(27,395,000)	(390,600,903)
Debt Margin Available	\$63,402,956	(\$87,941,049)

⁽¹⁾ The FY 2013-14 Bond Limit is based on an estimated secondary assessed value of \$1,513,299,272 compared to the FY 2012-13 secondary assessed value of \$1,697,237,040.

Capital Budget, Debt Service and Property Tax Rate Ten Year Historical Trends

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
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	765,568,545	68,975,861	2,767,488,865	4.2	.49	.91	1.40
2010-11	48,264,755	768,109,092	69,753,500	2,512,995,468	(9.2)	.52	.88	1.40
2011-12	49,337,804	740,227,646	66,378,628	1,957,328,610	(22.1)	.66	1.13	1.79
2012-13	124,812,526	682,032,903	120,964,519	1,697,237,040	(13.3)	.79	1.36	2.14
2013-14	119,527,409	712,468,733	74,555,343	1,513,299,272	(10.8)	.91	1.57	2.48

The CIP budget 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.

As the great recession began to produce rapidly declining property values, the City's capacity to issue general obligation (G.O.) debt became significantly compromised not only because outstanding debt as a percentage of property valuations threatened to cause the City to exceed its legal debt limits, but also because secondary property tax levies were cut in half while maintaining a stable property tax rate. Since the secondary property tax may only legally be used to repay G.O. debt, this circumstance made it very risky to take on new debt service commitments, and potentially jeopardized the City's ability to repay its outstanding G.O. debt service; without draining the City's debt service reserve, or increasing the property tax rate.

As shown above, this resulted in a dramatically scaled back CIP in fiscal years 2010-11 and 2011-12. In those years, the water / wastewater capital programs accounted for the bulk of the CIP since debt issued to fund those programs is repaid strictly from water and sewer system user fee revenue.

In response to the declining property values, the City adopted a property tax stabilization policy (provided below) in FY 2010-11 which established parameters for the amount of property taxes which may be collected each year. The policy allows the City to collect a predictable amount of property tax while property values fluctuate, by essentially allowing the property tax rate to "float": shown above starting in fiscal year 2011-12. This policy helped to effectively put the City back on track toward reliable and stable capital expenditure planning.

Outstanding Principal includes all forms of City debt, including general obligation, excise tax revenue, and enterprise revenue supported debt. The large increase in total budgeted debt service in FY 2012-13 provided for the retirement of \$54 million of outstanding Transit Tax debt with the receipt of federal reimbursements associated with the City's portion of the metropolitan area light rail transit system.

Capital Budget, Debt and Property Tax Levy Policy Statements

Capital Budget Policy

- Estimated costs, potential revenue and funding sources shall be identified prior to any project being submitted for Council approval. A department which anticipates a capital project exceeding its adopted budget shall submit a plan to Council addressing the issue for its prior approval.
- A five-year capital improvements program, as required by City Charter, will be developed and updated annually including anticipated funding sources. In addition, a prior year capital project status report shall be presented to the Council for information purposes when the capital improvement budget is considered.



- The annual operating budget will provide for the adequate maintenance and the orderly replacement of the capital plant and equipment from current revenue where possible.
- Capital improvement operating budget impacts will be coordinated with the development of the Operating Budget. Future operating, maintenance, and replacement costs will be forecast as part of the City's annual long-range financial capacity study.
- The City may provide for internal, pay-as-you go financing for its capital improvement program. Funding may come from fund balance reserves or any other acceptable means of funding.

Debt Policy

- Debt will only be used to finance long term capital improvements and not be used to finance recurring operating expenses.
- In accordance with state law, the total value of General Obligation bonds issued for the purposes of water, wastewater, artificial light, open space preserves, parks, playgrounds, and recreational facilities, public safety, law enforcement, fire and emergency services facilities, and streets and transportation facilities cannot exceed 20% of assessed valuation. The total value of General Obligation bonds issued for all other purposes other than those listed above cannot exceed 6% of assessed valuation.
- Debt term should match the useful life of the capital project funded.
- Debt service schedules will be based upon level annual principal and interest payments.
- Overlapping debt issuances shall be included in the City's financial reports.
- Authorized debt shall be limited as follows unless authorization is obtained from the City council to exceed these limits
 - General obligation bonds shall follow the guidelines established in the Debt Management Plan
 - Excise tax bonds shall maintain annual revenue coverage of at least 3 times maximum annual debt service
 - Improvement District bonds shall not exceed 5% of the City's secondary assessed valuation
 - Short-term borrowing or lease / purchase contracts must be budgeted within the Operating Budget
- Benchmark ratios of per capita debt, debt service to operating revenue, and outstanding debt as a percent of full cash value will be updated regularly and incorporated into the Debt Management Plan.

Property Tax Levy Policy

- 1) The total annual secondary tax levy shall only be used to make debt service payments on bonds issued to fund capital projects approved by the City Council in the CIP and shall not exceed an amount calculated as follows:
 - a. For existing property, which is defined as property subject to property tax in the prior year, establish a maximum total property tax levy equal to the previous year's total primary and secondary tax levy, adjusted by the Western States Consumer Price Index (CPI) for the last completed calendar year, not to exceed a 3.3% increase in any year.
 - b. The primary levy on existing property shall be established first, within the limits provided in paragraph 1)a, and within limits provided in state statute. After establishing the primary levy on existing property, the secondary levy on existing property shall be established at a level that, when combined with the primary levy on existing property, does not increase the total levy on existing property by more than CPI, and in no case by more than 3.3% of the total city property tax levy in the prior year.
 - c. For newly-taxable property, collect a levy by applying, to the net assessed values of new properties, the same primary and secondary tax rates used to establish the levies on existing taxable property in paragraph 1)b.
- 2) Secondary property tax levies shall be deposited into the Debt Service Fund, from which general purpose bonded debt payments are made. The Debt Service Fund shall be maintained in accordance with generally accepted accounting principles and shall have a fund balance between 4% and 8% of outstanding general purpose debt at the end of each fiscal year.
- 3) Projections of revenues and debt service payments shall be used to create an annual long-range forecast, of at least 20 years, for the Debt Service Fund. Projected debt service payments associated with the approved CIP shall not cause the projected Debt Service Fund balance to drop below 4% in any year of the forecast, applying levy projections that comply with this policy for each year of the forecast.

Fiscal Years 2013-14 through 2017-18 Capital Improvements Program Project Listing and Descriptions



Tempe Town Lake Pedestrian Bridge looking toward Tempe Center for the Arts
CIP Project Completed Fiscal Year 2011-12

Enterprise Program

WATER AND WASTEWATER PROJECTS
TOTAL \$37.6 MILLION IN FY 2013-14
AND ACCOUNT FOR 31% OF THE TOTAL FY
2013-14 APPROPRIATED CIP BUDGET



The Enterprise component of the Capital Improvements Program consists of the Water and Wastewater programs. Combined, they constitute \$37.6 million of the \$120 million Capital Improvements Program for FY 2013-14. The City's Capital Budget for this area is driven primarily by planned infrastructure maintenance and replacement projects that support the City's long term water and wastewater distribution, collection, and treatment capabilities. The primary funding source for these projects in FY 2013-14 is water and wastewater revenue supported bonds. These bonds are repaid by user charges for service delivery in both programs.



Water Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
ARC Flash Hazard Analysis: 3201202	Capital Projects Fund Balance	26,700	79,000	105,700	-	-	-	30,000	135,700
Automated Water Metering Systems: 3205869	Capital Projects Fund Balance	-	120,000	120,000	-	-	-	-	120,000
Carl Hayden Campus Sustainability Project Fund: 3203259	Capital Projects Fund Balance	87,174	-	87,174	-	-	-	-	87,174
Chlorine Generation Cells Replacement at Water Treatment Plants: 3205879	Capital Projects Fund Balance	-	50,000	50,000	-	-	-	-	50,000
	Water / Wastewater Bonds	-	-	-	1,355,000	1,355,000	-	-	2,710,000
	Project Total	-	50,000	50,000	1,355,000	1,355,000	-	-	2,760,000
Environmental Laboratory Facility: 3203499	Water / Wastewater Bonds	6,936,639	-	6,936,639	-	-	-	-	6,936,639
Filter Rehabilitation at Water Treatment Plants: 3205889	Capital Projects Fund Balance	-	150,000	150,000	-	-	-	-	150,000
	Water / Wastewater Bonds	-	-	-	480,000	320,000	-	-	800,000
	Project Total	-	150,000	150,000	480,000	320,000	-	-	950,000
Flood Irrigation Infrastructure Improvement Fund: 3205899	Water / Wastewater Bonds	-	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
JGMWTP Water Quality Upgrades: 3201099	Water / Wastewater Bonds	1,471,440	-	1,471,440	-	-	-	-	1,471,440
Ken McDonald Golf Course Recharge Project: 3209309	Water / Wastewater Bonds	1,000,000	-	1,000,000	1,600,000	-	-	-	2,600,000
New Production Wells: 3200019	Water / Wastewater Bonds	2,226,763	-	2,226,763	1,850,000	-	2,000,000	-	6,076,763
Perimeter Metering of ASU Main Campus: 3203519	Capital Projects Fund Balance	-	200,000	200,000	-	-	-	-	200,000
	Water / Wastewater Bonds	1,520,073	-	1,520,073	-	-	-	-	1,520,073
	Project Total	1,520,073	200,000	1,720,073	-	-	-	-	1,720,073
SCADA Master Plan & Implementation: 3204409	Water / Wastewater Bonds	296,576	959,000	1,255,576	467,000	-	-	465,000	2,187,576
Small Meter Replacement Program- 2" and under: 3209319	Water / Wastewater Bonds	341,468	175,000	516,468	200,000	200,000	200,000	200,000	1,316,468



Water Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
South Tempe Water Treatment Plant Improvements: 3203219	Water / Wastewater Bonds	331,232	-	331,232	-	-	-	-	331,232
STWTP Main Power Building: 3205909	Water / Wastewater Bonds	-	172,500	172,500	765,500	-	-	-	938,000
STWTP Site Improvements: 3205919	Water / Wastewater Bonds	-	351,000	351,000	552,000	-	-	-	903,000
Town Lake Bypass Pumps: 3204789	Capital Projects Fund Balance	299,057	-	299,057	-	-	-	-	299,057
Water Aqueduct Repair and Security at the JGMWTP: 3204959	Water / Wastewater Bonds	310,000	600,000	910,000	-	-	-	-	910,000
Water Distribution System Metering Stations: 3201559	Water / Wastewater Bonds	275,000	-	275,000	-	-	-	-	275,000
Water Utilities Security Improvements: 3201029	Water / Wastewater Bonds	1,300,000	-	1,300,000	1,089,500	-	-	-	2,389,500
Waterline Repair and Replacement: 3299989	Water / Wastewater Bonds	538,000	1,450,000	1,988,000	1,500,000	1,500,000	1,500,000	1,500,000	7,988,000
Waterline Replacements of Aging Infrastructure: 3204969	Water / Wastewater Bonds	3,606,000	-	3,606,000	3,626,000	3,626,000	3,626,000	3,626,000	18,110,000
Waterline Upgrade/Replacement Rural (University - Apache): 3203539	Capital Projects Fund Balance	-	200,000	200,000	-	-	-	-	200,000
	Water / Wastewater Bonds	1,370,472	-	1,370,472	-	-	-	-	1,370,472
	Project Total	1,370,472	200,000	1,570,472	-	-	-	-	1,570,472
Well Automation and Control: NA	Water / Wastewater Bonds	-	-	-	628,000	-	-	-	628,000
Well No. 9 Pump to SRP Irrigation Line: 3204419	Water / Wastewater Bonds	504,393	-	504,393	-	-	-	-	504,393
Well Rehabilitation: 3203549	Water / Wastewater Bonds	250,000	-	250,000	250,000	250,000	250,000	250,000	1,250,000
WMAT Quantification Settlement Agreement CAP Water Lease: NA	Water / Wastewater Bonds	-	-	-	-	3,117,758	826,205	826,205	4,770,168
Water Program Total		22,690,987	4,756,500	27,447,487	14,613,000	10,618,758	8,652,205	7,147,205	68,478,655

ARC Flash Hazard Analysis



Project Description

This project provides engineering services for OSHA required evaluations and labeling of electrical equipment located at water facilities. The JGMWTP 5-year arc flash study update was recently completed. Study updates for STWTP and some field sites are currently underway. Upcoming work will complete updates to well sites, pump stations and other water utility field sites. Year 17/18 funding is to update the arc flash study for all the water facilities.

To facilitate the safety of our employees while following OSHA safe work practices it is necessary to have engineering services to provide proper labeling on electrical equipment. These services provide calculations on potential energy discharges and approach boundaries for clear communication to our employees.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$135,700
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 \$135,700

Project Number: 3201202
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2013-14 Source of Funds

Capital Projects Fund Balance \$105,700

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$105,700	\$0	\$0	\$0	\$30,000	\$135,700

Automated Water Metering Systems



Project Description

Customer Services plans to test 3 automated meter reading systems from the responses to the recent Request for Information (RFI) #13-035. This testing will guide Customer Services in compiling and gathering data that will ultimately be utilized to issue a Request for Proposal (RFP) to begin a City-wide, gradually phased in automation of the collection of water meter reads. This test will include approximately 200 water meters which will be monitored for an approximate 6-month time period to analyze for read accuracy, user friendliness, installation ease, and overall quality and use. The selected vendors will provide the equipment and software to the City for no or minimal cost for this initial pilot program.

The purpose of this pilot program is to find the most suitable Automated Meter reading/Automated Metering Infrastructure solution for Tempe that will cost effectively maximize the read success rate and billing accuracy, optimize water-use efficiency, improve communication and responsiveness to the rate payers/customers, and improve employee safety. After the conclusion of this pilot program, staff will be able to develop a comprehensive plan for the phased-in implementation of automated meter reading that will be reflected in a future CIP funding request.

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	\$120,000

Total \$120,000

Project Number: 3205869
Estimated Start Date: 07/01/2013
Estimated Completion Date: 07/01/2014

2013-14 Source of Funds

Capital Projects Fund Balance \$120,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$120,000	\$0	\$0	\$0	\$0	\$120,000

Carl Hayden Campus Sustainability Project Fund



Project Description

The purpose of this project is to mitigate water utilities construction impacts to Papago Park and to provide associated environmental enhancements.

This project provides riparian and desert plant restoration and other improvements to the Carl Hayden Campus for Sustainability, which includes the Green Line riparian habitat and Papago Park areas, the Tempe Xeriscape Demonstration Garden at Tempe Women's Club Park, the Eisendrath House, the Justice Sandra Day O'Connor House Center for Civic Discourse, the AHS Museum portion of the Green Line area, and Hallman Park.

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	\$0
Construction / Improvement	\$69,174
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$87,174

Project Number: 3203259

Estimated Start Date: Ongoing

Estimated Completion Date: 06/30/2015

2013-14 Source of Funds

Capital Projects Fund Balance \$87,174

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$87,174	\$0	\$0	\$0	\$0	\$87,174

Chlorine Generation Cells Replacement at Water Treatment Plants



Project Description

The current Sodium Hypochlorite (NaOCl) generation systems will be at the end of their manufacture service life in 2015. NaOCl is required to disinfect the drinking water to meet the Safe Drinking Water Act standards. This project will evaluate equipment alternatives, and purchase and install generating cells.

Estimated Project Costs

Legal / Administration	\$24,000
Land Acquisition	\$0
Permit Fees	\$30,000
Design and Engineering	\$90,000
Survey / Staking	\$24,000
Construction Management	\$168,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,400,000
Geotech / Material Testing	\$24,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,760,000

Project Number: 3205879

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

2013-14 Source of Funds

Capital Projects Fund Balance \$50,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$50,000	\$1,355,000	\$1,355,000	\$0	\$0	\$2,760,000

Environmental Laboratory Facility



Project Description

This project involves the design and construction of an environmental laboratory facility necessary to continue to analyze the quality of its drinking water and wastewater as required under federal and state environmental laws, and to ensure the safest possible water supply. Design plans and specifications are completed and building permits for the project have been obtained.

The purpose is to allow Tempe to conduct quality analyses of its drinking water and wastewater supplies to ensure compliance with federal and state regulations, and to ensure that Tempe residents receive a safe and sustainable water supply. Rapidly emerging regulations governing drinking water and wastewater have created a nearly 5-fold increase in the last decade in the number of analyses that Tempe must conduct to ensure compliance with Clean Water Act and Safe Drinking Water Act requirements. Without this project, Tempe will increasingly depend on costly contract laboratories to provide water quality analyses, and will be unable to utilize such data to optimize treatment processes and practices due to long turn-around times associated with contract labs.

2013-14 Source of Funds

Water / Wastewater Bonds	\$6,936,639
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$320,000
Design and Engineering	\$250,000
Survey / Staking	\$0
Construction Management	\$300,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,400,000
Geotech / Material Testing	\$25,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$95,000
Other Project Costs	\$546,639
Total	\$6,936,639

Project Number: 3203499
Estimated Start Date: Ongoing
Estimated Completion Date: 12/31/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$6,936,639	\$0	\$0	\$0	\$0	\$6,936,639

Filter Rehabilitation at Water Treatment Plants



Project Description

This project includes the replacement of filter media at both water treatment plants is required. This project will also include inspections and evaluations of the filter structures, underdrain system and piping. An engineering evaluation of the filters will be conducted and opportunities to optimize performance will be considered and implemented as appropriate.

2013-14 Source of Funds

Capital Projects Fund Balance	\$150,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$18,000
Design and Engineering	\$89,000
Survey / Staking	\$10,000
Construction Management	\$55,000
Furnishings / Equipment	\$0
Construction / Improvement	\$750,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$23,000
Total	\$950,000

Project Number: 3205889
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2016

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$150,000	\$480,000	\$320,000	\$0	\$0	\$950,000

Flood Irrigation Infrastructure Improvement Fund



Project Description

The City operates approximately 37 miles of irrigation pipelines to serve its irrigation customers. This project continues a program to replace old pipelines. This is an on-going CIP used to repair irrigation lines and replace lines as funding becomes available. These pipelines are primarily located north of the US-60 in the older sections of the City and are non-reinforced concrete pipe. Over time as the high frequency break pipelines have been replaced, this project will be used to continue to replace aging irrigation lines that have reached the end of their useful life. Annual funding of \$250,000 will line or replace approximately 800-1,000 feet of irrigation pipeline.

Based on CCTV inspection previously performed, the following areas have been identified as high-priority areas that require replacement or relining:

- Ash Ave - 9th st to 13th st.
- 15th St - McAllister to Mill Ave.
- Wilson St. - University to 10th st.
- 14th St - McAllister to Mill Ave.

2013-14 Source of Funds

Water / Wastewater Bonds \$250,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$35,000
Design and Engineering	\$120,000
Survey / Staking	\$10,000
Construction Management	\$70,000
Furnishings / Equipment	\$0
Construction / Improvement	\$995,000
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,250,000

Project Number: 3205899

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

JGMWTP Water Quality Upgrades



Project Description

Planning, design, permitting and construction of facilities to upgrade existing infrastructure and to improve water quality. Project progress to date has included construction of a 12 million gallon reservoir, finished water pump station, electrical control building, standby power generator building, ultraviolet disinfection system, solids handling facilities, driveway and perimeter security improvements, booster pump station, Greenline irrigation pipeline, enhanced coagulation treatment systems and offsite drainage improvements. The final stages of this project include completion of modifications to the north reservoir, installation of aeration equipment, network hardware and control system upgrades, and landscaping & revegetation of past construction staging areas. Improvements to the JGMWTP are necessary to continue meet current and future water quality regulations and to replace aging equipment nearing the end of its serviceable lifespan.

2013-14 Source of Funds

Water / Wastewater Bonds \$1,471,440

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,471,440	\$0	\$0	\$0	\$0	\$1,471,440

Estimated Project Costs

Legal / Administration	\$16,000
Land Acquisition	\$0
Permit Fees	\$58,000
Design and Engineering	\$198,000
Survey / Staking	\$16,000
Construction Management	\$115,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,050,000
Geotech / Material Testing	\$16,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$2,440

Total \$1,471,440

Project Number: 3201099

Estimated Start Date: Ongoing

Estimated Completion Date: 09/30/2013

Ken McDonald Golf Course Recharge Project



Project Description

This project provides 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 by increasing the City's Long-Term Underground Storage Credit balance. The Project is permitted by the Arizona Department of Water Resources (ADWR) 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. Tempe has filed for amendments to the ADWR Underground Storage Facility and Water Storage Permits to provide for storage of Central Arizona Project Colorado River surface water or Roosevelt Dam New Conservation Space Salt River surface water supplies at this groundwater recharge site for long-term credits and future recovery. This project will be used to assist the Golf fund in changing portions of the Golf Course to less water intensive xeriscaping in areas that are directly disturbed by the Project.

2013-14 Source of Funds

Water / Wastewater Bonds	\$1,000,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,000,000	\$1,600,000	\$0	\$0	\$0	\$2,600,000

Estimated Project Costs

Legal / Administration	\$25,000
Land Acquisition	\$0
Permit Fees	\$128,000
Design and Engineering	\$300,000
Survey / Staking	\$25,000
Construction Management	\$129,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,840,000
Geotech / Material Testing	\$39,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$114,000
Total	\$2,600,000

Project Number: 3209309
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Production Wells



Project Description

This project will add new groundwater production and recovery well capacity to the Tempe municipal system for back-up water production, supplemental drought supply, water quality blending and emergency preparedness. Funding from this project will connect three Salt River Project wells located along the Western Canal through an existing pipeline to the South Tempe Water Treatment Plant, and provide for the drilling and equipping of one new City of Tempe municipal production well. The SRP wells will be connected during FY '12-'13 and '13-'14. All work to be done on the SRP wells, including design and engineering, will be performed by SRP and billed to the City. The new Tempe municipal well will be permitted during FY '13-'14 and constructed during FY '14-'15 and '15-'16.

Additional groundwater and recovery well capacity for the Tempe municipal system is necessary to provide greater overall water production capacity and system redundancy to surface water treatment. Additional production well capacity provides back-up water production capacity for water treatment plants, supplemental supply during times of drought, water quality blending, and greater system redundancy and emergency preparedness. The goal is to increase groundwater production capacity to average daily water demand in the Tempe Water Service Area by FY '17-'18.

2013-14 Source of Funds

Water / Wastewater Bonds	\$2,226,763
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$2,226,763	\$1,850,000	\$0	\$2,000,000	\$0	\$6,076,763

Estimated Project Costs

Legal / Administration	\$47,000
Land Acquisition	\$300,000
Permit Fees	\$163,000
Design and Engineering	\$552,000
Survey / Staking	\$47,000
Construction Management	\$322,000
Furnishings / Equipment	\$0
Construction / Improvement	\$4,598,763
Geotech / Material Testing	\$47,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,076,763

Project Number: 3200019
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2018

Perimeter Metering of ASU Main Campus



Project Description

This project will install perimeter metering for the ASU main campus bounded by University Dr., Rural Rd., Apache Blvd., and Mill Ave. Meter vaults, meters and piping reconfiguration as required. The project is currently under design and construction is anticipated to start in the Spring of 2013. This project has been combined with the Waterline Upgrade/Replacement Rural (University - Apache) Project because of the coordination required during design and construction.

The ASU main campus has numerous water mains throughout that are not accessible nor maintainable due to lack of easements and placement (in ASU utility tunnels and other locations not reachable by equipment necessary for maintenance/repair). Perimeter metering will enable the metering of all water used on the main campus.

2013-14 Source of Funds

Capital Projects Fund Balance	\$200,000
Water / Wastewater Bonds	\$1,520,073

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,720,073	\$0	\$0	\$0	\$0	\$1,720,073

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$13,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,699,073
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,720,073

Project Number: 3203519

Estimated Start Date: Ongoing

Estimated Completion Date: 12/12/2013

SCADA Master Plan & Implementation



Project Description

The Supervisory Control and Data Acquisition (SCADA) master plan project to date has involved the inventory and evaluation of existing system equipment and software and the development of SCADA design standards and recommendations for upgrades. The next phases (years 13/14 & 14/15) of the project will involve implementation of the recommended upgrades including: standardization of the JGMWTP communication network, updating and standardizing computer hardware and software at JGMWTP and all field sites, updating the control center software to a global system. The year 17/18 funding will be to evaluate and replace obsolete equipment, and update software.

SCADA systems allow remote monitoring and operation of critical water treatment, pumping, distribution and sewage collection equipment. The use of SCADA alerts staff to issues such as main breaks, pump breakdowns or other equipment status in real time impacting overall operational efficiency. Data provided from the SCADA system is used to forecast future design needs as well as to meet both regulatory and record retention requirements. The primary objectives of the Master Plan will be to review the current SCADA systems' functionality, develop a roadmap for increasing uniformity throughout the system and identify long-term operating costs.

2013-14 Source of Funds

Water / Wastewater Bonds	\$1,255,576
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,255,576	\$467,000	\$0	\$0	\$465,000	\$2,187,576

Estimated Project Costs

Legal / Administration	\$15,000
Land Acquisition	\$0
Permit Fees	\$53,000
Design and Engineering	\$398,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,650,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$50,000
Other Project Costs	\$21,576

Total \$2,187,576

Project Number: 3204409

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Small Meter Replacement Program- 2" and under



Project Description

This project provides for the replacement of revenue generating water meters that have been in service for 15 years or longer. This will help increase water conservation through accurate metering.

By installing new meters the city will realize increased revenue and accurate water accounting due to these older meters having past their useful life for accuracy. There are over 40,000 water meters within the system and the goal is to replace approximately 4,000 meters each year.

2013-14 Source of Funds

Water / Wastewater Bonds \$516,468

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	\$1,316,468
Total	\$1,316,468

Project Number: 3209319
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$516,468	\$200,000	\$200,000	\$200,000	\$200,000	\$1,316,468

South Tempe Water Treatment Plant Improvements



Project Description

Project progress to date includes installation of carbon dioxide and sodium hydroxide systems, powdered activated carbon system, chlorine dosing systems, additional sludge drying facilities, well water discharge structures, reservoir drains and replacement of the finished water pump station. Remaining work involves a number of relatively small improvements to the facility including: modifications to the solids dewatering drain and pump station, installation of a booster pumping system for the powder activated carbon dosing system, installation of fire protection equipment in the old lime storage area, new air compressor and control valves for the chlorine dosing system. Improvements are required to replace aging equipment and to meet current and future water quality regulations.

2013-14 Source of Funds

Water / Wastewater Bonds \$331,232

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$75,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$200,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$56,232
Total	\$331,232

Project Number: 3203219
Estimated Start Date: In progress
Estimated Completion Date: 09/30/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$331,232	\$0	\$0	\$0	\$0	\$331,232

STWTP Main Power Building



Project Description

This project will evaluate site power requirements and equipment alternatives, and replace the existing main power switch, gear equipment, and enclosure.

The existing breakers are Square D Solenarc Air Circuit Breakers. These Breakers are motor charged / spring operated Air Circuit Breakers. The endurance rating of these breakers is 1000 operations over a design lifetime of thirty years. Today's technology is to use vacuum technology requiring relatively little if any maintenance and an endurance rating of 10,000 operations.

2013-14 Source of Funds

Water / Wastewater Bonds \$172,500

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$172,500	\$765,500	\$0	\$0	\$0	\$938,000

Estimated Project Costs

Legal / Administration	\$7,500
Land Acquisition	\$0
Permit Fees	\$22,000
Design and Engineering	\$90,000
Survey / Staking	\$7,500
Construction Management	\$53,000
Furnishings / Equipment	\$0
Construction / Improvement	\$750,000
Geotech / Material Testing	\$8,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$938,000

Project Number: 3205909

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

STWTP Site Improvements



Project Description

The project consists of on-site sewage collection and pumping system evaluation and modifications, Admin Building HVAC modifications, Disinfection building roof reconstruction, and Filter gallery improvements for compliance meters.

The sewage project is to correct high level alarms in the wet well. The HVAC modifications are to tie multiple expansion projects together and improve ventilation in the basement of the administration building. The disinfection roof project needs to correctly relocate a roof drain away from electrical gear. The filter gallery improvements will assist in compliance requirements outlined by the Arizona Department of Health Services.

2013-14 Source of Funds

Water / Wastewater Bonds \$351,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$351,000	\$552,000	\$0	\$0	\$0	\$903,000

Estimated Project Costs

Legal / Administration	\$4,000
Land Acquisition	\$0
Permit Fees	\$12,500
Design and Engineering	\$110,500
Survey / Staking	\$3,000
Construction Management	\$29,000
Furnishings / Equipment	\$0
Construction / Improvement	\$660,000
Geotech / Material Testing	\$4,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$50,000
Other Project Costs	\$30,000
Total	\$903,000

Project Number: 3205919

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

Town Lake Bypass Pumps



Project Description

This project will be used for the rental of bypass pumps to ensure water quality at Town Lake until a permanent solution can be designed and funded.

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	\$299,057

Total \$299,057

Project Number: 3204789

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2013-14 Source of Funds

Capital Projects Fund Balance \$299,057

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$299,057	\$0	\$0	\$0	\$0	\$299,057

Water Aqueduct Repair and Security at the JGMWTP



Project Description

This project is to repair and secure the water aqueduct at the JGMWTP. Progress to date includes completion of structural evaluation of the flume support columns and engineering recommendations for leak repair. Some structural repairs have been started.

The repairs to the aqueduct are required to stop the existing channels from leaking and to fix some structural defects found in recent years.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$16,000
Design and Engineering	\$141,000
Survey / Staking	\$5,000
Construction Management	\$33,000
Furnishings / Equipment	\$0
Construction / Improvement	\$600,000
Geotech / Material Testing	\$20,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$90,000

Total \$910,000

Project Number: 3204959

Estimated Start Date: Ongoing

Estimated Completion Date: 12/31/2013

2013-14 Source of Funds

Water / Wastewater Bonds \$910,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$910,000	\$0	\$0	\$0	\$0	\$910,000

Water Distribution System Metering Stations



Project Description

This project includes the design and construction of five flow and water quality monitoring stations dispersed throughout the water distribution system. Construction of 4 metering stations is complete, and completion of the last station is planned next year.

It is difficult to monitor water flow and quality once water leaves the water treatment plants. The addition of these stations will provide continuous, real-time data that can be used in conjunction with existing computer models to more accurately measure the movement of water and monitor changes in water quality through the system.

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$26,000
Survey / Staking	\$2,000
Construction Management	\$15,000
Furnishings / Equipment	\$0
Construction / Improvement	\$220,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$275,000

Project Number: 3201559

Estimated Start Date: Ongoing

Estimated Completion Date: 12/12/2013

2013-14 Source of Funds

Water / Wastewater Bonds \$275,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$275,000	\$0	\$0	\$0	\$0	\$275,000

Water Utilities Security Improvements



Project Description

This project is a continuation of the security improvements which were recommended / addressed by the vulnerability assessment per the Dept. of Homeland Security. The three plant locations, Kyrene Reclamation, JGM Water Treatment Plant and the South Water Treatment Plant were the major focus of the security enhancements to date. Fiscal year 12/13 will finally complete the fencing and lighting issues at all the plant sites. The remainder of the sites include, wells, booster stations, metering stations and above ground water storage tanks. Well 7 was designed and will be under construction fiscal 12/13 for fence improvements, Well 1 and 10 will be designed in fiscal 12/13 with construction in fiscal 13/14 for fence improvements. The above ground water storage tanks will be designed in 13/14 and construction in 14/15 for fence improvements.

This project is a continuation of security improvements which were recommended / identified by threat vulnerability assessors as per the Department of Homeland Security requirements for critical infrastructures. The completion of this project will enhance our effective time in delaying, deterring and detecting unauthorized persons entering our secured facility.

Estimated Project Costs

Legal / Administration	\$19,000
Land Acquisition	\$0
Permit Fees	\$68,000
Design and Engineering	\$228,000
Survey / Staking	\$19,000
Construction Management	\$134,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,902,500
Geotech / Material Testing	\$19,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,389,500

Project Number: 3201029

Estimated Start Date: 07/12/2012

Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

Water / Wastewater Bonds \$1,300,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,300,000	\$1,089,500	\$0	\$0	\$0	\$2,389,500

Waterline Repair and Replacement



Project Description

This project provides a recurring funding source to replace waterlines that break during normal operation or have reached the end of their useful life. Based on historical spending on emergency waterline breaks and expenditures for distribution system fittings we anticipate that the annual cost will be approximately \$1.5M per year. The City has approximately 840 miles of waterlines that are various ages and materials. Water main breaks occur in the older sections of the City, primarily north of the US-60, and are usually cast iron pipe (CIP) or asbestos cement pipe (ACP). There are approximately 225 miles of CIP and approximately 310 miles of ACP in our system that over time will need to be replaced. The WUD Integrated Master Plan identifies most of the specific waterlines that need to be replaced to meet increasing demands.

Estimated Project Costs

Legal / Administration	\$64,000
Land Acquisition	\$0
Permit Fees	\$225,000
Design and Engineering	\$761,000
Survey / Staking	\$64,000
Construction Management	\$447,000
Furnishings / Equipment	\$0
Construction / Improvement	\$6,363,000
Geotech / Material Testing	\$64,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$7,988,000

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

2013-14 Source of Funds

Water / Wastewater Bonds \$1,988,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,988,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$7,988,000

Waterline Replacements of Aging Infrastructure



Project Description

This project will be the beginning of a program to replace pipelines that are on our 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). These pipelines frequently break and cause damage to the roadways and in some instances cause damage to private property. Additionally when these lines break residences and business can be out of water for a period of time, can cause traffic disruption and unsafe conditions for the traveling public. Over time as the high frequency break pipelines have been replaced this project will be continued to replace additional aging water lines that have reached the end of their useful life. Based on historical waterline break history a number of areas have been identified as areas that require replacement. Projects currently in design include:

- Stadem Drive - Miller Road to Curry Road (Design Plans & Specifications Complete)
- Weber Drive - Scottsdale Road to Stadem Drive (Design Plans & Specifications Complete)
- Farmer Avenue - 1st Street to Broadway Road (Survey & Design Underway)
- Dorsey Drive - University to 8th St.

Estimated Project Costs

Legal / Administration	\$145,000
Land Acquisition	\$0
Permit Fees	\$510,000
Design and Engineering	\$1,435,000
Survey / Staking	\$145,000
Construction Management	\$1,010,000
Furnishings / Equipment	\$0
Construction / Improvement	\$14,720,000
Geotech / Material Testing	\$145,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$18,110,000

Project Number: 3204969
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

2013-14 Source of Funds

Water / Wastewater Bonds \$3,606,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$3,606,000	\$3,626,000	\$3,626,000	\$3,626,000	\$3,626,000	\$18,110,000

Waterline Upgrade/Replacement Rural (University - Apache)



Project Description

This water line will replace/upgrade the existing 14 inch cast iron pipe between University and Apache. Approximately 2,600 feet of 16 inch ductile iron pipe will be tied to the 30 inch transmission main at University and Apache. New fire hydrants, gate valves, onsite fire suppression system connections, services/meters, and connections to the distribution system will be included. This project has been combined with the Perimeter Metering of the ASU Main Campus Project because of the coordination required during design and construction.

The existing pipe was installed in 1964/68 and is nearing the end of its design life. In addition the non-standard diameter makes new connections and repairs more expensive and of longer duration. This also provides for increased service demands by ASU.

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$13,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,549,472
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,570,472

Project Number: 3203539

Estimated Start Date: Ongoing

Estimated Completion Date: 12/12/2013

2013-14 Source of Funds

Capital Projects Fund Balance	\$200,000
Water / Wastewater Bonds	\$1,370,472

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,570,472	\$0	\$0	\$0	\$0	\$1,570,472

Well Automation and Control



Project Description

The City currently owns and operates 10 wells. Each well is connected to the SCADA Control System which currently gives the operational status of each well site. Currently a well is started and stopped by Field Site personnel at each location.

This project will include modifications to several City Well sites that will automate the startup and stoppage of strategic wells. This well automation will add additional automated valves, electrical, instrumentation and controls to certain well sites. Automating these processes will give added operational flexibility and control.

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$18,000
Design and Engineering	\$60,000
Survey / Staking	\$5,000
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 \$628,000

Project Number: NA

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$628,000	\$0	\$0	\$0	\$628,000

Well No. 9 Pump to SRP Irrigation Line



Project Description

This project will construct a pump to waste line from the well to a Salt River Project irrigation box located in McClintock Drive. The installation of this line will eliminate the operational need to rely on the residents private irrigation system to pump to waste when Well #9 is needed for water production. Project progress to date completion of detailed design of the pipeline and discharge structure.

Well #9 is one of the City's most important ground water assets. When the STWTP 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, this creates a significant constraint on the ability to run the well as operationally necessary.

2013-14 Source of Funds

Water / Wastewater Bonds	\$504,393
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$5,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$475,000
Geotech / Material Testing	\$4,393
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$20,000
Total	\$504,393

Project Number: 3204419
Estimated Start Date: Ongoing
Estimated Completion Date: 09/30/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$504,393	\$0	\$0	\$0	\$0	\$504,393

Well Rehabilitation



Project Description

This ongoing project is for the rehabilitation and major structural repair of Tempe municipal groundwater production wells. One to two wells will be selected each year to be inspected by video camera and/or downhole well logging equipment, brushed and redeveloped, or reconstructed, as necessary. This is an ongoing project, with the goal of rehabilitating each well once every four years. Well #6 is undergoing downhole modification and reconstruction (liner sleeve) this year under this program. This project anticipates that well rehabilitation could cost as much as \$250,000 per year to keep our wells in proper operating condition.

The project purpose is to maintain the reliability and full production capacity of Tempe's municipal groundwater production wells for drinking water use. Some of Tempe's older municipal wells are now 50+ years old (COT Wells #1, 4, 6, 7, 9) and a regular rehabilitation and structural repair schedule will keep these wells productive for another 10 - 20 years.

2013-14 Source of Funds

Water / Wastewater Bonds	\$250,000
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Estimated Project Costs

Legal / Administration	\$8,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,234,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,250,000

Project Number: 3203549
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

WMAT Quantification Settlement Agreement CAP Water Lease



Project Description

The Tempe City Council approved a Central Arizona Project Water Lease Agreement with the White Mountain Apache Tribe in 2009. The Lease Agreement provides Tempe with the opportunity to further diversify and add to our water resources portfolio for the future through the lease of CAP water under a long-term contract.

The enforceability date of the agreement is contingent upon further funding approval by the Arizona State Legislature and the Arizona Superior Court for Maricopa County in Gila River General Stream Adjudication, but is anticipated to be mid-2015. The terms of the water lease agreement provide that a payment of 1/2 the total amount of the 100-year lease is due 30 days after the enforceability date, with four annual payments of 1/8 the total amount to follow until paid in full. Total lease cost is estimated at \$6,235,515. Initial payment of approximately \$3,117,758 is due on or about 7/01/15 (FY 15/16), with the second installment of approximately \$826,205 due on or about 7/01/16 (FY 16/17).

2013-14 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	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$4,770,168
Total	\$4,770,168

Project Number: NA
Estimated Start Date: 07/01/2015
Estimated Completion Date: 07/01/2020

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$3,117,758	\$826,205	\$826,205	\$4,770,168



Wastewater Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Collection System and Pump Station Replacement and Repair: 3299969	Water / Wastewater Bonds	910,256	5,000,000	5,910,256	1,000,000	1,000,000	1,000,000	1,000,000	9,910,256
Collection System Odor Control & Sewage Metering Station Improvements: 3206069	Water / Wastewater Bonds	724,501	-	724,501	-	-	-	-	724,501
Sewer Metering Station Improvements: 3202559	Water / Wastewater Bonds	1,107,612	-	1,107,612	-	-	-	-	1,107,612
Sewer Replacement / Upsize Smith Rd (Apache to University): NA	Water / Wastewater Bonds	-	-	-	-	-	2,590,500	-	2,590,500
Sewer Replacement/Upsize (5th Street from Price Road to Smith Road): NA	Water / Wastewater Bonds	-	-	-	-	2,576,000	-	-	2,576,000
Sewer Replacement/Upsize Scottsdale Road, Curry to Gilbert M.S.: 3209399	Water / Wastewater Bonds	1,130,363	265,000	1,395,363	-	-	-	-	1,395,363
SROG - 91st Avenue: 3200129	Water / Wastewater Bonds	981,242	-	981,242	2,695,578	3,738,515	6,674,451	5,495,529	19,585,315
Wastewater Program Total		4,853,974	5,265,000	10,118,974	3,695,578	7,314,515	10,264,951	6,495,529	37,889,547

Collection System and Pump Station Replacement and Repair



Project Description

The WUD Integrated Master Plan (IMP) identified most of the specific sewer lines that need to be replaced to meet increasing wastewater flows. This project will also be used to make improvements at our Knox, Alameda and Camelot lift stations. It is anticipated that we will need to spend up to \$1M in 12/13 and 13/14 at these stations to replace and repair equipment that has reached the end of their useful life. Other specific projects anticipated in this CIP are as follows:

- Maple Ash Neighborhood Sewer Replacement
- Farmer Avenue Sewer Replacement 1st St to University
- Manhole Rehabilitation project

This project provides a recurring funding source to replace sewer lines that break during normal operation or have reached the end of their useful life. Also, this project will be used to construct or reconstruct wastewater infrastructure as needed at our pump stations, odor control facilities and metering stations. The WUD operates and maintains 4 wastewater pump stations, 2 odor control bio filters, 4 wastewater metering stations and over 500 miles of sanitary sewers. Years 14/15-17/18 funding is to provide recurring funding for anticipated infrastructure repairs at unknown locations throughout the system.

2013-14 Source of Funds

Water / Wastewater Bonds \$5,910,256

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$5,910,256	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$9,910,256

Estimated Project Costs

Legal / Administration	\$79,000
Land Acquisition	\$0
Permit Fees	\$279,000
Design and Engineering	\$949,000
Survey / Staking	\$79,000
Construction Management	\$554,000
Furnishings / Equipment	\$0
Construction / Improvement	\$7,891,256
Geotech / Material Testing	\$79,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$9,910,256

Project Number: 3299969

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Collection System Odor Control & Sewage Metering Station Improvements



Project Description

This project will include installing a new ventilation blower and exhaust louver system in the Gilbert Drive Metering Station, covering the flow measurement flume in order to both control the dissipation of sewer gasses into the working area and to prevent ventilation airflow from being forced into the sewer, constructing a new station entrance and stairway to improve access for maintenance and sample collection. Project progress to date includes completion of engineering plans and specifications for the improvements.

This project will control sanitary sewer nuisance odors along Scottsdale Road north of Tempe Town Lake and will improve safety of the work environment within the Gilbert Drive Metering Station.

2013-14 Source of Funds

Water / Wastewater Bonds \$724,501

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$724,501	\$0	\$0	\$0	\$0	\$724,501

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$18,000
Design and Engineering	\$30,000
Survey / Staking	\$5,000
Construction Management	\$35,000
Furnishings / Equipment	\$0
Construction / Improvement	\$626,501
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$724,501

Project Number: 3206069

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Sewer Metering Station Improvements



Project Description

This project will include installing new ventilation blower and exhaust louver systems, and covering the flow measurement flumes in order to limit dissipation of sewer gasses into the working area and to prevent ventilation airflow from being forced into the sewer at the four meter stations, TP-01 (Priest MS), TP-03 (SAI MS), TP-04 (48th St MS) and TP-05 (NW MS). Project progress to date includes completion of detailed design plans and specifications for TP-03.

This project will control sanitary sewer nuisance odors in the vicinities of Priest Road and Rio Salado Parkway, 48th Street and Southern Avenue, 48th Street and Rio Salado Parkway and Priest Drive north of the Salt River related to existing flow metering stations in these locations. The project will also improve safety of the work environment within the metering stations. Constructing new station entrances and stairways will improve access for maintenance and sample collection providing safe entry for employees of SROG partner cities.

2013-14 Source of Funds

Water / Wastewater Bonds \$1,107,612

Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$22,000
Design and Engineering	\$76,000
Survey / Staking	\$6,000
Construction Management	\$44,000
Furnishings / Equipment	\$0
Construction / Improvement	\$947,612
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,107,612

Project Number: 3202559
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,107,612	\$0	\$0	\$0	\$0	\$1,107,612

Sewer Replacement / Upsize Smith Rd (Apache to University)



Project Description

This project will replace approximately 2,670 feet of existing 12 to 15 inch sanitary sewer with new 18 inch sewer due to insufficient capacity when Apache Blvd. redevelopment occurs.

2013-14 Source of Funds

NA

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	\$144,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,062,500
Geotech / Material Testing	\$21,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,590,500

Project Number: NA
Estimated Start Date: 07/01/2016
Estimated Completion Date: 07/01/2017

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$0	\$2,590,500	\$0	\$2,590,500

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



Project Description

This project will replace approximately 2,650 feet of existing 15 inch sanitary sewer with new 18 inch sewer due to insufficient capacity when Apache Blvd. redevelopment occurs.

Estimated Project Costs

Legal / Administration	\$21,000
Land Acquisition	\$0
Permit Fees	\$73,000
Design and Engineering	\$246,000
Survey / Staking	\$21,000
Construction Management	\$144,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,050,000
Geotech / Material Testing	\$21,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,576,000

Project Number: NA
Estimated Start Date: 07/01/2015
Estimated Completion Date: 07/01/2016

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$2,576,000	\$0	\$0	\$2,576,000

Sewer Replacement/Upsize Scottsdale Road, Curry to Gilbert M.S.



Project Description

Replace 1,500 feet of existing 12 inch sanitary sewer with new 15 inch diameter pipe. New sewer will facilitate additional discharges from JGMWTP and new condominium development (Scottsdale/Weber/Curry). Project progress to date includes completion of engineering design calculations, geotechnical investigations, evaluation of construction alternatives and completion design plans and specifications.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$10,000
Construction Management	\$95,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,200,000
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$80,363
Total	\$1,395,363

Project Number: 3209399
Estimated Start Date: Ongoing
Estimated Completion Date: 09/30/2013

2013-14 Source of Funds

Water / Wastewater Bonds \$1,395,363

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,395,363	\$0	\$0	\$0	\$0	\$1,395,363

SROG - 91st Avenue



Project Description

This project represents Tempe's share of all capital project activities at the 91st Avenue WWTP including interceptor capacity, power lines, process control, optimization, digester gas, capital equipment and replacements, modifications and additions to meet regulatory requirements, and process enhancements. This plant is jointly owned by the Cities of Tempe, Phoenix, Mesa, Scottsdale, and Glendale and is operated by the City of Phoenix.

The investment in SROG allows the water utility to continue to keep Kyrene off-line while treating all the City's wastewater at the 91st Avenue WWTP and reducing cost. With the City's reduction in total wastewater flow, treatment at 91st Avenue remains 4-5 times less expensive than treating at the Kyrene Reclamation Facility.

2013-14 Source of Funds

Water / Wastewater Bonds \$981,242

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	\$19,585,315
Total	\$19,585,315

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

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$981,242	\$2,695,578	\$3,738,515	\$6,674,451	\$5,495,529	\$19,585,315

Special Purpose Program



TRANSIT PROJECTS TOTAL \$15.5 MILLION
IN FY 2013-14 AND ACCOUNT FOR 13%
OF THE TOTAL FY 2013-14
APPROPRIATED CIP BUDGET



The Special Purpose component of the Capital Improvements Program accounts for all projects included under a program area with a legally dedicated funding source. Currently, the Transit Program, which is funded by a dedicated one half cent City sales tax (the Transit Tax), is the City's only special revenue program area with capital projects in FY 2013-14.

For FY 2013-14 the Transit Tax is planned to provide \$6.6 million to fund transit capital projects. For the majority of these projects, the Transit Tax serves as the source of funds providing a required funding match to federal grants which are the primary project funding source. Federal grant contributions in FY 2013-14 amount to nearly \$9 million.

Transit projects in FY 2013-14 are focused on the completion of major multi use path projects, the final stages of construction for the Hardy and University Drive streetscape projects, and transit capital asset maintenance and repair projects.



Transit Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Alameda Drive & I-10 Bicycle / Pedestrian Bridge: NA	Transit Tax	-	-	-	100,000	68,400	-	-	168,400
	Federal Grant - CMAQ	-	-	-	-	1,200,000	-	-	1,200,000
	Project Total	-	-	-	100,000	1,268,400	-	-	1,368,400
Broadway Road Streetcape Project: 6003059	Transit Tax	175,000	400,000	575,000	772,000	-	-	-	1,347,000
	Federal Grant - CMAQ	-	-	-	3,857,670	-	-	-	3,857,670
	Project Total	175,000	400,000	575,000	4,629,670	-	-	-	5,204,670
Bus Stop Capital Maintenance: 6005239	Transit Tax	586,861	602,724	1,189,585	620,806	638,867	657,453	400,000	3,506,711
CCTV Monitoring Stations - LRT Intersections: 6004369	Transit Tax	14,250	-	14,250	-	-	-	-	14,250
	Federal Grant - CMAQ	235,750	-	235,750	-	-	-	-	235,750
	Project Total	250,000	-	250,000	-	-	-	-	250,000
City of Tempe Bus Pullout Project: 6006764	Transit Tax	660,018	-	660,018	300,000	309,000	318,270	327,818	1,915,106
City of Tempe Bus Purchases - Fleet: 6006752	Transit Tax	125,000	-	125,000	-	-	-	-	125,000
	Federal 5307 Grant	500,000	-	500,000	-	-	-	-	500,000
	Project Total	625,000	-	625,000	-	-	-	-	625,000
City of Tempe Transit Passenger Facilities Installation and Upgrade Project: 6003579	Transit Tax	250,000	-	250,000	187,500	200,000	225,000	231,750	1,094,250
CNG Expansion - East Valley Bus Operations & Maintenance Facility: 6005809	Transit Tax	-	500,000	500,000	-	-	-	-	500,000
Creamery Branch Rail Path (along 8th Street): NA	Transit Tax	-	-	-	200,000	-	78,604	-	278,604
	Federal Grant - CMAQ	-	-	-	-	-	1,379,021	-	1,379,021
	Project Total	-	-	-	200,000	-	1,457,625	-	1,657,625
El Paso Natural Gasline Easement Multi-use Path Phase III: 6006069	Transit Tax	-	103,000	103,000	75,400	-	-	-	178,400
	Federal Grant - CMAQ	-	-	-	1,323,000	-	-	-	1,323,000
	Project Total	-	103,000	103,000	1,398,400	-	-	-	1,501,400
Federal Grants / General Contingency: 6005259	Federal Grants	2,700,000	-	2,700,000	-	-	-	-	2,700,000



Transit Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Hardy Drive Streetcape Project: 6004379	Transit Tax	-	82,689	82,689	-	-	-	-	82,689
	Federal Grant - CMAQ	1,142,591	-	1,142,591	-	-	-	-	1,142,591
	Project Total	1,142,591	82,689	1,225,280	-	-	-	-	1,225,280
Highline Canal Path (Baseline - Knox Road): 6006079	CMAQ & Other Agency Funds	-	200,000	200,000	5,600,000	-	-	-	5,800,000
Pathway Capital Maintenance: 6005249	Transit Tax	242,175	350,000	592,175	250,000	250,000	250,000	250,000	1,592,175
Rio Salado Southbank Path Tempe - Phoenix: 6004139	Transit Tax	-	700,000	700,000	-	-	-	-	700,000
	Federal Grant - CMAQ	692,777	269,084	961,861	-	-	-	-	961,861
	Project Total	692,777	969,084	1,661,861	-	-	-	-	1,661,861
Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange: 6004319	Transit Tax	125,390	-	125,390	-	-	-	-	125,390
	Federal Grant - CMAQ	2,074,438	-	2,074,438	-	-	-	-	2,074,438
	Project Total	2,199,828	-	2,199,828	-	-	-	-	2,199,828
Rio Salado Southbank Path Underpass at Priest Drive: NA	Transit Tax	-	-	-	200,000	66,427	-	-	266,427
	Federal Grant - CMAQ	-	-	-	-	1,165,396	-	-	1,165,396
	Project Total	-	-	-	200,000	1,231,823	-	-	1,431,823
Tempe / Phoenix Bike Share: NA	Transit Tax	-	-	-	100,000	51,300	-	-	151,300
	Federal Grant - CMAQ	-	-	-	-	900,000	-	-	900,000
	Project Total	-	-	-	100,000	951,300	-	-	1,051,300
Tempe Transit Center: 6006762	Transit Tax	714,109	-	714,109	-	-	-	-	714,109
Transit Facility Asset Maintenance (East Valley Bus Ops / Maint Facility): 6006089	Transit Tax	-	700,000	700,000	250,000	250,000	250,000	250,000	1,700,000
Transit Facility Asset Maintenance (Transportation Center): 6006099	Transit Tax	-	200,000	200,000	250,000	250,000	250,000	250,000	1,200,000
University Drive Bike/Ped Improvements (Union Pacific Railroad to Priest): 6004509	Transit Tax	-	91,367	91,367	-	-	-	-	91,367
	Federal Grant - CMAQ	1,083,782	-	1,083,782	-	-	-	-	1,083,782
	Project Total	1,083,782	91,367	1,175,149	-	-	-	-	1,175,149
Transit Program Total		11,322,141	4,198,864	15,521,005	14,086,376	5,349,390	3,408,348	1,709,568	40,074,687

Alameda Drive & I-10 Bicycle / Pedestrian Bridge



Project Description

This project is a bicycle and pedestrian bridge along the Alameda Drive alignment at the I-10 freeway. The project includes lighting, safety features and public art. The project would be an elevated crossing of the I-10 connection to a Tempe's Fountainhead Business Park (east side) to Tempe Diablo Stadium (west side). The project would link several Tempe neighborhoods and bikeways, particularly the bike route along Alameda Drive to major employment centers, the stadium and a city of Phoenix bike route on Roeser Road. The project is identified in MAG, ADOT, and local transportation plans. The project would be constructed with the I-10 Improvements Project. Currently there is \$1,200,000 in federal funding for the project and staff is working with ADOT to include the project with the I-10 Improvements Project.

The project would remove a gap in the Tempe and Phoenix bikeway system. Currently Alameda Drive (Roeser St. in Phoenix) is a more than 20 mile bike route that has linkages to downtown Phoenix and Tempe, but is cut in half at the I-10 crossing. This project would facilitate a freeway crossing like the College Avenue and Country Club Way bike/ped bridges over the US60. The project is supported by MAG, Phoenix and Tempe and is identified in several plans.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$100,000	\$1,268,400	\$0	\$0	\$1,368,400

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$100,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,268,400
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,368,400

Project Number: NA
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2015

Broadway Road Streetcape Project



Project Description

The Broadway Road Pedestrian and Bicycle Improvement Project is approximately 1 mile between Mill Ave and Rural Road. The project consists of pedestrian and bicycle facility improvements along an arterial street fronted by single family residential units. Work to be performed include striping for bike lanes, the widening of sidewalks, construction of planted medians, protection from noise, pedestrian safety, reduction of speed limit, provisions for mid-block crossings and providing transit and pedestrian amenities.

The proposed project area has a high volume of pedestrian and bicycle travel due to its proximity to ASU and downtown Tempe. Area residents are advocating to change the character of the street to reflect the residential uses on this stretch of Broadway Road, which differs significantly with the rest of corridor. The design of the Broadway Road project was a product of extensive community dialogues. The proposed project is identified in the Tempe Comprehensive Transportation Plan as one of the proposed corridors for improvement.

2013-14 Source of Funds

Transit Tax \$575,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$575,000	\$4,629,670	\$0	\$0	\$0	\$5,204,670

Estimated Project Costs

Legal / Administration	\$26,000
Land Acquisition	\$50,000
Permit Fees	\$166,000
Design and Engineering	\$575,000
Survey / Staking	\$76,000
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$4,311,670
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,204,670

Project Number: 6003059
Estimated Start Date: 10/01/2008
Estimated Completion Date: 12/01/2013

Bus Stop Capital Maintenance



Project Description

This project will repair, rehabilitate and or replace bus stop infrastructure that has or will surpass its useful life during the project year or due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use). A 2011 comprehensive condition assessment rated Tempe's bus stop infrastructure on a scale that included Good (repair/replace 5+ years), Fair (repair/replace in 3-5 years), Poor (repair/replace within 1-2 years), Critical (repair/replace within 0-1 year). Based on this criteria and a thorough inspection of all facilities, the following assets were deemed as poor or critical and should be rehabilitated if possible or replaced if necessary in FY 2013-14: 35 Shelters (\$527,400), 61 benches (\$32,357), 71 bike racks (\$7,479), 58 trash receptacles (\$30,899), and 43 bus stop signs (\$4,588). Assets rated as fair (repair/replace in 3-5 years) are spread evenly across the years FY 2014-15 thru FY 2017-18.

The purpose of the project is to maintain the city's bus stop infrastructure in a state of good repair, safe for use, and instrumental in promoting transit use. The bus stop represents the "lobby" to the transit system and must provide a safe, secure, and comfortable waiting area with adequate sun and weather protection for transit passengers.

2013-14 Source of Funds

Transit Tax	\$1,189,585
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,189,585	\$620,806	\$638,867	\$657,453	\$400,000	\$3,506,711

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$2,476,451
Construction / Improvement	\$1,030,260
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$3,506,711

Project Number: 6005239
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

CCTV Monitoring Stations - LRT Intersections



Project Description

This project will purchase 23 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. Two-thirds of this project will be funded through a CMAQ grant as part of the MAG TIP. This project is currently in the final design/advertising process, however, due to the unknown completion date for this project, we are requesting that a portion of the funds be carried over to FY 2013-14.

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.

2013-14 Source of Funds

Transit Tax	\$14,250
Federal Grant - CMAQ	\$235,750

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$250,000	\$0	\$0	\$0	\$0	\$250,000

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	\$250,000
Total	\$250,000

Project Number: 6004369
Estimated Start Date: 07/01/2012
Estimated Completion Date: 08/30/2013

City of Tempe Bus Pullout Project



Project Description

The project will install 4 to 5 new bus pullouts during FY 2013-14 with passenger amenities at various bus stops in the city. The project will also refurbish deteriorating existing bus pullouts. The locations for the next series of pull-outs is based on the project list established in the current Comprehensive Transportation Plan, but which is in the process of being re-prioritized for inclusion in the new Transportation Master Plan and based on changes in bus service levels, ridership, traffic volumes, and intersection safety considerations across the city. The projects will install 2 bus pull-outs per year in subsequent years and provide funding for repair of existing pull-outs.

Bus pull-outs provide safer layover areas, improve passenger safety and comfort by increasing distance from traffic flow, improve traffic flow along major streets, and improve intersection safety by reducing traffic back-ups behind buses.

2013-14 Source of Funds

Transit Tax \$660,018

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$660,018	\$300,000	\$309,000	\$318,270	\$327,818	\$1,915,106

Estimated Project Costs

Legal / Administration	\$14,508
Land Acquisition	\$0
Permit Fees	\$33,659
Design and Engineering	\$146,937
Survey / Staking	\$11,606
Construction Management	\$81,245
Furnishings / Equipment	\$0
Construction / Improvement	\$1,615,545
Geotech / Material Testing	\$11,606
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,915,106

Project Number: 6006764

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

City of Tempe Bus Purchases - Fleet



Project Description

This project provides federal funding for a prototype hybrid bus to determine appropriate specifications and feasibility of a long-term replacement vehicle to the Orbit fleet of 24 foot cutaway buses.

The purpose is to identify a more cost efficient vehicle that also provides greater passenger capacity, extended useful life, low or zero emissions, and which is suitable for operation in neighborhoods.

2013-14 Source of Funds

Transit Tax \$125,000
Federal 5307 Grant \$500,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$625,000	\$0	\$0	\$0	\$0	\$625,000

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	\$625,000
Total	\$625,000

Project Number: 6006752

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

City of Tempe Transit Passenger Facilities Installation and Upgrade Project



Project Description

The project will install bus shelters and related passenger amenities (seating, bike racks, trash cans, transit schedule information) at 15 bus stops across the city in FY 2013-14 with 10 installations in each of the subsequent 4 fiscal years. Locations identified as suitable for installation of a bus stop shelter and associated amenities include stops that meet the following criteria: location is served by at least one bus route with productivity at or above 2.0 boardings per mile; and immediate physical environment offers no weather/sun protection or seating.

The bus stop represents the "lobby" to the transit system and must provide a safe, secure, and comfortable waiting area with adequate sun and weather protection for transit passengers. Adding additional bus shelters remains a top priority for Tempe and valley transit passengers as reported in public opinion research as the valley's high sun and heat are significant barriers to more Tempe residents choosing transit as an viable alternative to auto-use.

2013-14 Source of Funds

Transit Tax \$250,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$250,000	\$187,500	\$200,000	\$225,000	\$231,750	\$1,094,250

Estimated Project Costs

Legal / Administration	\$8,754
Land Acquisition	\$0
Permit Fees	\$30,639
Design and Engineering	\$105,048
Survey / Staking	\$8,754
Construction Management	\$61,278
Furnishings / Equipment	\$0
Construction / Improvement	\$877,902
Geotech / Material Testing	\$875
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$1,000
Other Project Costs	\$0
Total	\$1,094,250

Project Number: 6003579
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

CNG Expansion - East Valley Bus Operations & Maintenance Facility



Project Description

This project will expand the East Valley Bus Operations and Maintenance Facility's Compressed Natural Gas (CNG) fuel dispensing capacity from 2 to 4 dispensers.

The project is needed to accommodate the larger bus fleet size associated with the unification of Tempe and RPTA bus operations. Because this project is the result of a regional cooperative effort with substantial regional financial benefits, the city expects financial participation by the region in such a way that the final cost to Tempe is consistent with the city's proportional share of regional bus services operating from the facility.

2013-14 Source of Funds

Transit Tax \$500,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$500,000	\$0	\$0	\$0	\$0	\$500,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$100,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$400,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$500,000

Project Number: 6006059
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Creamery Branch Rail Path (along 8th Street)



Project Description

This project is the construction of a pathway along the Creamery Branch Rail Spur. The project is 1 mile pathway along the non-operational rail track next to 8th Street (between Rural and McClintock) adjacent to ASU and near downtown Tempe and attached to two historic Tempe neighborhoods (Borden Homes & University Heights). The project area includes a light rail station, and a strong neighborhood commercial center that includes the 4 Peaks Brewing Company. A public process and stakeholder committee was established in 2010 and completed an approved concept plan. The project would re-construct the Creamery Rail Spur to include landscaping, a paved path, improved pedestrian areas, on-street parking, and public art.

This project would place a pathway along a rail spur to accommodate a stronger bicycle and pedestrian environment that will promote the city's mission of increasing transit, bike and pedestrian travel. The project will add landscaping and better integration with historic structures while encouraging appropriate redevelopment on vacant lots or deteriorating structures. The project will better connect the adjacent neighborhoods, but limit cut-through traffic. The project concept has been supported by the neighbors, property owners and stakeholders in the area.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$200,000	\$0	\$1,457,625	\$0	\$1,657,625

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,457,625
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,657,625

Project Number: NA

Estimated Start Date: 07/01/2013

Estimated Completion Date: 12/01/2017

El Paso Natural Gasline Easement Multi-use Path Phase III



Project Description

The project is a 1/2 mile path extension of the existing El Paso Gasline Path, extending from Price Road to McClintock Drive. This project will extend from Rural Road into Kiwanis Community Park. A bike lane along Southshore Drive, between McClintock and Rural, connects these two projects. The project will include a paved path, with lighting, landscaping, public art and other amenities. The project will meet all ADA requirements and the project is funded almost entirely with \$1,323,000 in federal transportation grants.

The project will complete the final 1/2 piece of an east-west path along the gasline. It will link major residential areas (The Lakes, Optimist Park etc...) with the regional Kiwanis Community Park and the neighborhood parks of Optimist, Gaiki and Scudder. Additionally the path will connect to Fuller, Fees, Rover, and Aguilar Schools. The project connects to many transit routes and the 6 mile Western Canal Pathway. The project continues Tempe's commitment to multi-modal transportation and improving upon what is already the highest percentage of bicycle commuters in the state. The project is both a recreational amenity (linear park) and a transportation corridor.

2013-14 Source of Funds

Transit Tax \$103,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$103,000	\$1,398,400	\$0	\$0	\$0	\$1,501,400

Estimated Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$42,000
Design and Engineering	\$232,000
Survey / Staking	\$11,000
Construction Management	\$77,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,117,400
Geotech / Material Testing	\$11,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,501,400

Project Number: 6006069

Estimated Start Date: 10/11/2011

Estimated Completion Date: 06/30/2015

Federal Grants / General Contingency



Project Description

The purpose of this project is to ensure spending authority exists to deal with three (3) contingencies: 1) the city deems a non-budgeted Transit asset repair/replacement to be necessary, 2) a cost or scope increase on an existing CIP project with either instance requiring City Council approval before advancing, and 3) grant funding becomes accessible for a new project that the City Council has directed staff to pursue. Some specific projects that may be pursued for grant funding in 2013-14 are listed below. Utilization of this CIP for any of the listed projects will be presented to the City Council for approval.

Multi-use Pathways/Corridor Improvements:

- Rio Salado; Union Pacific Railroad; Kyrene Canal; Highline Canal; Grand Canal.

Bike-Pedestrian Bridges/Connections:

- I-10; US-60; 101.

Streetscape Improvements:

- Hardy Drive: University-Broadway; University Drive: Ash-Priest; Broadway: Rural-Mill / 48th Street-Mill / Rural-Tempe Canal.

2013-14 Source of Funds

Federal Grants	\$2,700,000
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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	\$2,700,000
Total	\$2,700,000

Project Number: 6005259
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000

Hardy Drive Streetscape Project



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.

The Transportation Element of the Tempe General Plan classified Hardy Drive as a Green Street. Green streets serve as priority routes for bicyclists and pedestrians and function as connectors between off-street multi-use paths. The neighborhood is requesting 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, and construction of mid-block crossings.

2013-14 Source of Funds

Transit Tax	\$82,689
Federal Grant - CMAQ	\$1,142,591

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$0
Survey / Staking	\$58,000
Construction Management	\$57,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,062,210
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$70
Total	\$1,225,280

Project Number: 6004379
Estimated Start Date: 01/15/2012
Estimated Completion Date: 12/15/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,225,280	\$0	\$0	\$0	\$0	\$1,225,280

Highline Canal Path (Baseline - Knox Road)



Project Description

This project is the concept design and construction of a 3.5 mile pathway along the Highline Canal in west central Tempe. The Salt River Project canal runs north and south from Baseline Road on the north to Knox Road on the south and is one of the last remaining canal banks without a dedicated path for public use. This path design concept would be completed and used to apply for federal funding, similar to other path projects. This project would also be done design and funding partnership with the Town of Guadalupe, Maricopa County and the City of Phoenix, since all agencies connect to this path. The project would have a public outreach component. The path would include street crossing treatments, fencing (where needed), landscaping, lighting and a paved path that meets all ADA and national transportation design standards.

This project is part of the City's Transportation Master Plan and is in concert with the Tempe General Plan. It continues Tempe's commitment to building facilities that support increasing the numbers of people utilizing non-motorized forms of transportation to assist in reducing air pollution and traffic congestion. The project will serve many Tempe neighborhoods and link to Guadalupe and Phoenix.

2013-14 Source of Funds

CMAQ and Other Agency Funds \$200,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$200,000	\$5,600,000	\$0	\$0	\$0	\$5,800,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$5,600,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,800,000

Project Number: 6006079
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Pathway Capital Maintenance



Project Description

This project will repair, rehabilitate or replace multi-use pathway infrastructure that will surpass its useful life during the project year or due to excessive or adverse environmental exposures (e.g., sun, irrigation, high use, damage, theft). This project has two major elements: 1) Replace pathway lighting systems including poles and associated infrastructure (wiring, bulbs, fixtures, concrete, shields) on segments where the assets have surpassed their useful life and/or are in poor to critical condition. Replacement campaigns will be established for each pathway segment based on the transit program's asset management program for pathway infrastructure and phased over the five (5) year CIP period. 2) Replace fence along Kyrene Pathway near Ken McDonald golf course that has been structurally damaged due to irrigation. This will be an FY 2013-14 project with an estimated cost of \$300,000.

The purpose of the project is to maintain the city's bike and pedestrian pathway system in a state of good repair, safe for use, instrumental in promoting citywide bike-pedtransit use, and leading to increases in the bike-pedestrian mode share of all trips.

2013-14 Source of Funds

Transit Tax \$592,175

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$592,175	\$250,000	\$250,000	\$250,000	\$250,000	\$1,592,175

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$1,092,175
Construction / Improvement	\$500,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,592,175

Project Number: 6005249
Estimated Start Date: 07/01/2012
Estimated Completion Date: Ongoing

Rio Salado Southbank Path Tempe - Phoenix



Project Description

The Project provides funding for the design and construction of a continuation of the Tempe Rio Salado multi-use path system. This segment would extend from Priest Drive to State Road 143 on the western city limit of Tempe. The path would be on the south bank of the river channel. The project is part of a regional path network connecting specifically to Phoenix. This project is only for hardscape elements, including pathway, lighting, and railings. The project does not include landscaping or public art; both of which could be added later or in partnership with adjacent private development. The character of the project area is native desert. The project would require only lighting and pavement management operations costs. The project construction is funded by federal transportation grants.

The project would extend the regional multi-use path system to the City of Phoenix and Tempe. This project is the final west end path piece of the Rio Salado path system and would complete the path system on the south bank of the Rio Salado from McClintock Drive to the Hohokam Freeway for a total of 4 miles.

2013-14 Source of Funds

Transit Tax	\$700,000
Federal Grant - CMAQ	\$961,861

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,661,861	\$0	\$0	\$0	\$0	\$1,661,861

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	\$1,661,861
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,661,861

Project Number: 6004139
Estimated Start Date: 07/01/2010
Estimated Completion Date: 06/30/2013

Rio Salado Southbank Path Underpass at 101 & 202 Freeway Interchange



Project Description

The project will construct approximately 1,200 feet of a shared use path underneath Loop 202 at the 202/101 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 pathways in Tempe and Mesa. The project is funded through a federal transportation grant in partnership with the Arizona Department of Transportation.

The project provides a non-motorized link along a regionally significant riparian corridor between 2 major 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.

2013-14 Source of Funds

Transit Tax	\$125,390
Federal Grant - CMAQ	\$2,074,438

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$2,199,828	\$0	\$0	\$0	\$0	\$2,199,828

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	\$2,199,828
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,199,828

Project Number: 6004319
Estimated Start Date: 07/01/2011
Estimated Completion Date: 12/30/2013

Rio Salado Southbank Path Underpass at Priest Drive



Project Description

This project is the construction of a bicycle/pedestrian path underpass at Priest Drive along the south bank of the Rio Salado. The project will connect to an existing path on the east side of Priest and to another path on the west side that will be constructed in 2013. The project will be concrete and lit and meet all ADA requirements and will provide emergency vehicle access.

This project provides an accessible and safe crossing under Priest Drive for the Rio Salado Path users, where today none exists. The project will link a more than 5 miles system of paths along the Rio Salado and Town Lake area.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$200,000	\$1,231,823	\$0	\$0	\$1,431,823

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$200,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,231,823
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,431,823

Project Number: NA
Estimated Start Date: 01/07/2013
Estimated Completion Date: 12/01/2014

Tempe / Phoenix Bike Share



Project Description

The Regional Bike Share program will include multiple cities and Valley Metro and will provide 20 or more locations in Tempe for rental of bicycles at automated bicycle rack kiosks. The kiosks will be in City right-of-way and in high activity areas like downtown Tempe, Tempe Town Lake, the Tempe Public Library, and the Tempe Center for the Arts. The capital funds for the project are through a federal grant and the operations will be contracted through an RFP process, with no operating impacts to the City. The project is modeled after other cities and is similar to the nationwide Zipcar program, which also operates in Tempe, where the public has ease of access to renting a car. The project will include a public process to identify best locations for racks and bikes and will be a partnership with Valley Metro and other cities.

The bike share project is intended to provide additional sustainable transportation opportunities in Tempe and the region. It will provide enhanced bicycle service access that will link directly to transit options. Bike share is a successful program in other cities nationwide and is a logical extension of the Tempe system. It will enable visitors, students, residents and others to obtain a bike easily in most activity areas around Tempe.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$100,000	\$951,300	\$0	\$0	\$1,051,300

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$100,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$200,000
Construction / Improvement	\$300,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$451,300
Total	\$1,051,300

Project Number: NA
Estimated Start Date: 07/01/2013
Estimated Completion Date: 12/01/2015

Tempe Transit Center



Project Description

This project will complete the build-out of the ground floor retail space of the Tempe Transportation Center and ready it for lease by a retail/restaurant application. The major elements of the project include 1) Essential Building Systems - for design and construction of gas lines, ventilation system, drainage system, grease interceptor, 10% contingency, and related city fees, and 2) Standard Tenant Improvements - for a tenant improvement allowance based on an appropriate market rate per square foot.

The Tempe Transportation Center is a 40,000 square foot federally funded mixed-use sustainable facility that is specifically designed to accommodate retail and office functions. Approximately 3,996 square feet of the ground floor is to be managed and leased as transit-oriented retail space. Income from a potential lease of this space would be available to support the transit program including operating and capital maintenance of the Transportation Center.

2013-14 Source of Funds

Transit Tax	\$714,109
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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	\$714,109
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$714,109
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Project Number: 6006762

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$714,109	\$0	\$0	\$0	\$0	\$714,109

Transit Facility Asset Maintenance (East Valley Bus Ops / Maint Facility)



Project Description

This projects conducts major repair, refurbishment, or replacement of major equipment and sub-systems at the East Valley Bus Operations and Maintenance facility. The asset management plan for the facility and the specific projects stemming from it for FY 2014 thru FY 2018 is not yet complete, but will be in time to provide the necessary information for this request.

EVBOM is a 250 bus facility from which the majority of Tempe's transit operations are based. Maintaining the facility in state of good repair facilitates the provision of bus service on a daily basis by allowing for the timely and effective fleet repairs; efficient fueling, fare collection, and cleaning; efficient operations; and safe working conditions for the roughly 400 city and contractor staff based there.

The major deliverables for the EVBOM Maintenance Building include: code compliant air monitoring system throughout the maintenance building; code compliant HVAC system for rooms M139 and M143; and a complete and operational Energy Management System including all necessary hardware and computer interfacing for these improvements. Design Study is currently under contract and will determine total cost for upgrade.

2013-14 Source of Funds

Transit Tax	\$700,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$125,000
Survey / Staking	\$0
Construction Management	\$55,000
Furnishings / Equipment	\$115,000
Construction / Improvement	\$825,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$580,000

Total	\$1,700,000
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Project Number: 6006089

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$700,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,700,000

Transit Facility Asset Maintenance (Transportation Center)



Project Description

This project conducts major repair, refurbishment, or replacement of major equipment, structure, and sub-systems at the Tempe Transportation Center. The facility was completed in 2008 so near-term major needs are not anticipated. The asset management plan for the facility and the specific projects stemming from it for FY 2014 thru FY 2018 is being developed.

The Tempe Transportation Center was designed as LEED Platinum (application pending) mixed-use inter-modal transportation center. The building is occupied by city staff and private firms and includes meeting space that is open for use by members of the community. The facility includes a 13 bay bus plaza that is also adjacent to a major light rail station. Maintaining the building in a state of good repair maintains good working condition for staff and tenants while ensuring the site is safe and functional for transit operations and public use.

2013-14 Source of Funds

Transit Tax	\$200,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$125,000
Survey / Staking	\$0
Construction Management	\$55,000
Furnishings / Equipment	\$115,000
Construction / Improvement	\$825,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$80,000

Total	\$1,200,000
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Project Number: 6006099

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$200,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,200,000

University Drive Bike/Ped Improvements (Union Pacific Railroad to Priest)



Project Description

The University Drive improvement Project is approximately 1 mile between Mill Ave and the Union Pacific Railroad (west of Mill Avenue). The project consists of pedestrian and bicycle facility improvements along an arterial street. Work to be performed includes design and construction of a variety of streetscape elements which may include: ADA improvements, crosswalks, medians, transit shelters and amenities, landscaping, sidewalks, bike lanes, shade and street furniture. The project will support reduced automobile dependency and improved air quality. Project construction is funded through federal CMAQ grants.

The goal of the project is to enhance travel options for people of all ages and non-motorized users including: school children, seniors, professionals and college students accessing commercial centers, local parks, downtown Tempe, and ASU. The project will enhance the pedestrian and bicycle environment and improve air quality by providing alternatives to automobile travel while encouraging non-motorized travel through widened bicycle lanes, shaded sidewalks, public art, shorter crosswalk distances at intersections, and improvements transit facilities along the street. The project will involve public meetings with neighbors and businesses/property owners in the area.

2013-14 Source of Funds

Transit Tax	\$91,367
Federal Grant - CMAQ	\$1,083,782

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$73,803
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,101,346
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$1,175,149
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Project Number: 6004509

Estimated Start Date: 10/01/2011

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,175,149	\$0	\$0	\$0	\$0	\$1,175,149

General Purpose Program

GENERAL PURPOSE
PROJECTS TOTAL \$51 MILLION IN
FY 2013-14 AND ACCOUNT FOR
43% OF THE FY 2013-14
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 \$51 million of the \$120 million Capital Improvements Budget for FY 2013-14.

The majority of the funding for the five program areas above is to be provided by the planned issuance of \$33 million of general obligation bonds, followed by just over \$8 million in existing project fund balances. The balance is funded from various City operating funds and other outside pay as you go contributions

Major areas of emphasis in FY 2013-14 include various repair and replacement projects for parks infrastructure, continued design and engineering for the replacement of the Tempe Town Lake dam, fire truck replacements, continued improvements to the City's regional radio system, the purchase of new laptop computers for police vehicles, and numerous capital asset repair and replacement projects for municipal buildings.



Police Protection Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
CAD / RMS / FRWS System: 5501999	Capital Projects Fund Balance	-	551,711	551,711	-	-	-	-	551,711
	General Obligation Bonds	-	310,000	310,000	-	-	-	-	310,000
	Project Total	-	861,711	861,711	-	-	-	-	861,711
Laptop Replacement: 5509189	General Obligation Bonds	1,883,801	-	1,883,801	-	-	3,912,538	-	5,796,339
Police Protection Program Total		1,883,801	861,711	2,745,512	-	-	3,912,538	-	6,658,050

CAD / RMS / FRWS System



Project Description

This project will replace the Police Department's existing Computer Aided Dispatch (CAD) System, Records Management System (RMS), and Field Report Writing System (FRWS). Combined, these three software components serve as the automated data collection, storage, and retrieval system for the Police Department. It is essential that these systems be replaced because the current CAD system runs on a mainframe computer that is no longer produced and can no longer be maintained by an outside vendor. The hardware will be maintained internally until the entire system is replaced. The vendor that currently provides the CAD, RMS, and FRWS has not, to date, developed its CAD product to function on newer computer platforms.

Replacing this system will also provide considerable functionality that will allow the Police Department to more efficiently manage data, and will provide the foundation for future data sharing efforts with other jurisdictions. To minimize interfacing issues and related costs, it is critical that all three software components be provided by a single vendor.

2013-14 Source of Funds

Capital Projects Fund Balance	\$551,711
General Obligation Bonds	\$310,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$861,711	\$0	\$0	\$0	\$0	\$861,711

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	\$861,711
Other Project Costs	\$0
Total	\$861,711

Project Number: 5501999
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2014

Laptop Replacement



Project Description

Police Department ruggedized laptops require replacement every three to five years to ensure laptop functionality, and limit failure in the field. Laptop failure increases departmental and City liability due to the officer reliance on laptops to communicate with dispatch, other officers and supervisors; write and submit their reports; complete arrests and field contacts with citizens; and access necessary information sources to perform their daily job functions. The Police Department is in the midst of upgrading its current software applications resulting in a fully integrated public safety system. This system must continue to have reliable hardware to support and maintain its full functionality. Officer use of the integrated public safety system can only be achieved in a mobile environment available on department issued laptops. In sum, this project is intended to replace Police Department laptops and maintain federally mandated two-factor authentication as well as complete wireless functionality.

2013-14 Source of Funds

General Obligation Bonds	\$1,883,801
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,883,801	\$0	\$0	\$3,912,538	\$0	\$5,796,339

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	\$5,796,339
Other Project Costs	\$0
Total	\$5,796,339

Project Number: 5509189
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing



Fire Protection Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Fire Apparatus Replacement: 5603619	General Obligation Bonds	1,156,898	550,000	1,706,898	1,100,000	550,000	1,100,000	550,000	5,006,898
Fire Facility and Deployment Study: 5605939	Capital Projects Fund Balance	-	150,000	150,000	-	-	-	-	150,000
Fire Laptop Replacement: 5603629	General Obligation Bonds	222,531	16,400	238,931	-	32,800	-	-	271,731
Fire Training Center Facilities: 5605949	General Obligation Bonds	-	356,000	356,000	758,000	-	-	-	1,114,000
Radio Conversion: 5606947	General Obligation Bonds	105,000	-	105,000	-	-	-	-	105,000
Fire Protection Program Total		1,484,429	1,072,400	2,556,829	1,858,000	582,800	1,100,000	550,000	6,647,629

Fire Apparatus Replacement



Project Description

This project includes the purchase of fire apparatus which has been identified for replacement. Replacement is predicated on age, miles and operational costs (repair, maintenance, mileage, engine hours, and fuel consumption). Fire apparatus are evaluated for replacement after 10 years or when mileage exceeds 120,000. Extensive repair or maintenance costs may cause a unit to warrant earlier replacement. The Department currently has 10 apparatus that are 12 to 20 years old and eight apparatus that exceed 150,000 miles each. Fire Department's Maintenance Division is continuously challenged to keep this fleet in service.

With the economic downturn, the City has been unable to fund fire apparatus replacement in accordance with replacement criteria. To be in accordance with replacement criteria three pumper trucks are needed in FY 13-14 and three in FY 14-15. Fire apparatus are replaced to maintain a high level of reliability, decrease maintenance cost, decrease down time of front line apparatus, and to take advantage of advances in safety and service capabilities that are available in newer vehicles. FY 15-16 to FY 17-18 vehicles are subject to change as the Department is in the process of reviewing life cycles for unique apparatus.

2013-14 Source of Funds

General Obligation Bonds \$1,706,898

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,706,898	\$1,100,000	\$550,000	\$1,100,000	\$550,000	\$5,006,898

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$5,006,898
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$5,006,898

Project Number: 5603619
Estimated Start Date: 07/01/2011
Estimated Completion Date: 12/30/2017

Fire Facility and Deployment Study



Project Description

This project includes funding for a fire facilities and deployment study. One purpose of the study is to maximize the Fire Department's staffing and deployment for emergency response. A previous fire station relocation plan was first presented to the City Council in 1990, it is over 20 years old and needs to be revised. The last fire station (station #6) was built over nine years ago, since then call volume has increase by 21% and response time has gone from five minutes and 28 seconds to five minutes and 47 seconds. This study will incorporate present and anticipated demographic changes.

2013-14 Source of Funds

Capital Projects Fund Balance \$150,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$150,000	\$0	\$0	\$0	\$0	\$150,000

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	\$150,000
Total	\$150,000

Project Number: 5605939
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

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 report (ePCR), and the development of a wireless fire apparatus infrastructure to accommodate small devices (cell phones), laptops and heart monitors. This will enhance wireless transfer of critical patient information from both the laptop units and heart monitors to definitive care facilities. Fire paramedics gather information while en-route to the hospital, which is transmitted to the treating facility prior to the patients' arrival, therefore enhancing patient care.

Currently, the Fire Department is using 28 ruggedized laptops. These ruggedized laptops are used daily, with over 16,000 annual EMS calls. Given this significant use in extreme conditions, a five year replacement plan is suggest by ITD

2013-14 Source of Funds

General Obligation Bonds	\$238,931
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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	\$271,731
Other Project Costs	\$0
Total	\$271,731

Project Number: 5603629
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2016

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$238,931	\$0	\$32,800	\$0	\$0	\$271,731

Fire Training Center Facilities



Project Description

This project provides for the repair and maintenance of the Fire Training Center buildings. The Skills Building part of the project is for repair in accordance with a structural evaluation conducted in 2012. The Burn Room Building project is based on age and use (built in 1993).

A structural evaluation conducted in 2012 of the Fire Training Skills buildings, revealed the following items should be address: replacement of corroded steel doors, replacement of corroded steel ledgers, patching concrete, reinforcement and support of balcony, repair of damaged precast panels, improve building drainage, remove an usable gas line, and installation of an ice machine. The extensive use of this facility and the significant benefits derived from firefighters' training, which directly impacts the delivery of service to the community, have exceeded expectations. Because the building sustains damage with each live fire training, it limits the life of the building.

Last year the Burn Room and Skills Tower were used 122 days for fire training and it was vital to firefighter preparedness and safety. Modern burn room facilities are conducive to firefighters learning by preparing them for real life situations.

2013-14 Source of Funds

General Obligation Bonds	\$356,000
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Estimated Project Costs

Legal / Administration	\$6,000
Land Acquisition	\$0
Permit Fees	\$21,000
Design and Engineering	\$72,000
Survey / Staking	\$6,000
Construction Management	\$70,000
Furnishings / Equipment	\$0
Construction / Improvement	\$860,000
Geotech / Material Testing	\$6,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$73,000
Total	\$1,114,000

Project Number: 5605949
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2015

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$356,000	\$758,000	\$0	\$0	\$0	\$1,114,000

Radio Conversion



Project Description

This project addresses the federally mandated public safety radio conversion to 800 Mhz. As a result of the FCC's realignment of all frequency spectrums, all public safety agencies must relinquish their VHF frequencies and convert to 800MHz. This mandated change affects all the fire departments in the Phoenix metro area automatic aid consortium. This project allows the City to continue with the federally mandated conversion and remain on track in our partnership with the other Valley Cities in the Automatic Aide System. For all practical purposes this project is complete. Remaining funds will be used for minor expenses to complete the project.

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	\$105,000
Total	\$105,000

Project Number: 5606947
Estimated Start Date: Ongoing
Estimated Completion Date: 07/30/2014

2013-14 Source of Funds

General Obligation Bonds	\$105,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$105,000	\$0	\$0	\$0	\$0	\$105,000



Storm Drains Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
AZPDES - ADEQ Stormwater Program: 5806396	Capital Projects Fund Balance	96,588	-	96,588	-	-	-	-	96,588
Storm Drain Improvements: 5899971	Capital Projects Fund Balance	799,474	-	799,474	-	-	-	-	799,474
	General Obligation Bonds	-	-	-	250,000	250,000	250,000	250,000	1,000,000
	Project Total	799,474	-	799,474	250,000	250,000	250,000	250,000	1,799,474
Storm Drains Program Total		896,062	-	896,062	250,000	250,000	250,000	250,000	1,896,062

AZPDES - ADEQ Stormwater Program



Project Description

The City of Tempe is subject to a Phase I MS4 AZPDES Stormwater permit that requires Tempe stormwater facility enhancements. Funding will go to Equipment Wash Basins at Kiwanis Park, Ken McDonald Golf Course, and Diablo Stadium (\$15k each) and \$50k will go to the Environmental Sampling Training Center. Progress on this program will be tracked annually as a component of permit reporting requirements. The project is needed to ensure environmental regulatory compliance with ADEQs AZPDES Stormwater Permit.

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	\$96,588
Total	\$96,588

Project Number: 5806396
Estimated Start Date: 07/01/1999
Estimated Completion Date: 06/30/2013

2013-14 Source of Funds

Capital Projects Fund Balance \$96,588

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$96,588	\$0	\$0	\$0	\$0	\$96,588

Storm Drain Improvements



Project Description

This project provides ongoing maintenance, preservation, and upgrades to the existing storm drain system. Project scope would include replacement and upgrades of existing catch basins, new storm drain manholes to facilitate maintenance of the existing pipe network, and additional storm drains to relieve flooding in localized areas. In addition, The Flood Control District of Maricopa County will be generating mitigation locations and alternatives for the first phase of the Storm Water Master Plan beginning with the Broadway and Rural sub-basin area. These upgrades, when identified, will also be funded from this project. This year upgrades were made to College Avenue drainage structures, Hardy Drive catch basins, and several other catch basins throughout the City.

This project purpose and need is to relieve or eliminate localized flooding problems to residents/motorist/all users of Tempe streets and provides for the construction of storm drain network extensions and improvements. The City of Tempe maintains over 80 major storm drain retention basins, over 103 miles of storm drain pipes, over 1,600 catch basins and storm drain manholes, and many other related structures.

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	\$1,799,474
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,799,474

Project Number: 5899971
Estimated Start Date: 07/01/2013
Estimated Completion Date: Ongoing

2013-14 Source of Funds

Capital Projects Fund Balance \$799,474

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$799,474	\$250,000	\$250,000	\$250,000	\$250,000	\$1,799,474



Park Improvements / Recreation Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Aquatics (Swimming Pool) Infrastructure & Equipment Replacement: 6304999	General Obligation Bonds	115,000	-	115,000	520,000	320,000	620,000	660,000	2,235,000
ARC Flash Hazard Analysis - Parks: 6305959	General Obligation Bonds	-	150,000	150,000	50,000	50,000	-	-	250,000
Athletic Field Lighting System Replacement: 6303089	General Obligation Bonds	315,000	555,000	870,000	620,000	320,000	550,000	610,000	2,970,000
Ballfield Infield Renovation: 6305969	General Obligation Bonds	-	180,000	180,000	-	-	-	-	180,000
Batting Range Pitching Machine/Netting Replacement: NA	General Obligation Bonds	-	-	-	-	145,000	-	-	145,000
Clark Park Swimming Pool Renovation: NA	General Obligation Bonds	-	-	-	-	-	-	100,000	100,000
Diablo Stadium Capital Replacement & Reinvestment: 6303009	Diablo Stadium Revenue	-	47,500	47,500	47,500	47,500	47,500	47,500	237,500
	General Obligation Bonds	90,000	175,000	265,000	175,000	175,000	175,000	175,000	965,000
	Project Total	90,000	222,500	312,500	222,500	222,500	222,500	222,500	1,202,500
Kiwanis Park Playground Replacement & Renovations: 6306808	Capital Projects Fund Balance	729,000	-	729,000	-	-	-	-	729,000
	General Obligation Bonds	-	350,000	350,000	-	-	-	-	350,000
	Project Total	729,000	350,000	1,079,000	-	-	-	-	1,079,000
Kiwanis Recreation Center Electric Infrastructure Replacement: 6305979	General Obligation Bonds	-	30,000	30,000	285,000	-	-	-	315,000
Mill Avenue Tree Replacement: 6305109	General Obligation Bonds	37,000	-	37,000	-	-	-	-	37,000
Park Concrete & Sports Court Replacement & Renovation: 6305119	General Obligation Bonds	50,000	100,000	150,000	100,000	150,000	110,000	110,000	620,000
Park Improvements: 6399729	Cash	-	6,000,000	6,000,000	-	-	-	-	6,000,000
Park Infrastructure / Equipment Replacement: 6399829	General Obligation Bonds	184,000	350,000	534,000	350,000	300,000	300,000	250,000	1,734,000
Park Lighting System Replacement & Renovation: 6305489	General Obligation Bonds	150,000	200,000	350,000	200,000	200,000	200,000	200,000	1,150,000



Park Improvements / Recreation Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Park Playground Infrastructure & Equipment Replacement & Renovation: 6305499	General Obligation Bonds	150,000	250,000	400,000	225,000	225,000	250,000	250,000	1,350,000
Park Restrooms and Ramadas: 6305129	General Obligation Bonds	-	675,000	675,000	200,000	340,000	175,000	75,000	1,465,000
Parks & Recreation Emergency Repairs: 6305989	General Obligation Bonds	-	200,000	200,000	150,000	100,000	50,000	50,000	550,000
Parks Living Infrastructure and Irrigation Systems: 6305999	General Obligation Bonds	-	145,000	145,000	-	-	-	-	145,000
Rio Salado CFD Infrastructure Replacement: 6306239	Property Assessments	-	579,630	579,630	-	-	-	-	579,630
Rolling Hills Irrigation System: 6305929:	Golf Fund Enterprise Revenue	-	674,000	674,000	2,762,000	-	-	-	3,436,000
Skate Park Structural Repairs: 6302629	Capital Projects Fund Balance	8,000	-	8,000	-	-	-	-	8,000
	General Obligation Bonds	-	25,000	25,000	15,000	15,000	15,000	15,000	85,000
	Project Total	8,000	25,000	33,000	15,000	15,000	15,000	15,000	93,000
Sports Facility Relamping: 6306938	Capital Projects Fund Balance	20,049	-	20,049	-	-	-	-	20,049
	General Obligation Bonds	-	-	-	20,000	20,000	25,000	55,000	120,000
	Project Total	20,049	-	20,049	20,000	20,000	25,000	55,000	140,049
Tempe Beach Splash Playground Modification: 6506931	General Obligation Bonds	-	25,000	25,000	240,000	-	-	-	265,000
Town Lake Dam Replacement: 6504229	Capital Projects Fund Balance	3,621,330	-	3,621,330	-	-	-	-	3,621,330
	Cash	-	-	-	4,000,000	-	-	-	4,000,000
	General Obligation Bonds	-	13,550,000	13,550,000	19,611,851	-	-	-	33,161,851
	Project Total	3,621,330	13,550,000	17,171,330	23,611,851	-	-	-	40,783,181
Town Lake Emergency Warning Modifications: 6503771	Capital Projects Fund Balance	44,073	-	44,073	-	-	-	-	44,073
Park Improvements / Recreation Program Total		5,513,452	24,261,130	29,774,582	29,571,351	2,407,500	2,517,500	2,597,500	66,868,433

Aquatics (Swimming Pool) Infrastructure & Equipment Replacement



Project Description

This project encompasses the ongoing replacement and renovation of the existing aquatics facilities. The City of Tempe's aquatics facilities continue to need replacement of major equipment and structural components. All facilities have aging infrastructures that have not been addressed in previous projects. Also large operational equipment are at the end of their life cycles and need to be replaced. Many of the replacement projects will address safety standards to meet existing and future rules and regulations. Many projects will improve energy efficiency; saving the City energy dollars.

The following improvements to City of Tempe Aquatics facilities planned in fiscal year 14-15 include:

- SES panel replacement at Escalante and McClintock pools \$165,000
- Re-plaster of Kiwanis Wave pool \$250,000 - The pool was last plaster in 2000 and needs to be re-plastered every 5-10 years.
- Industrial high volume circulation fans for Kiwanis Wave pool \$35,000.

2013-14 Source of Funds

General Obligation Bonds \$115,000

Estimated Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$55,000
Design and Engineering	\$152,000
Survey / Staking	\$11,000
Construction Management	\$112,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,593,000
Geotech / Material Testing	\$11,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$290,000
Total	\$2,235,000

Project Number: 6304999

Estimated Start Date: 07/01/2014

Estimated Completion Date: 06/30/2019

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$115,000	\$520,000	\$320,000	\$620,000	\$660,000	\$2,235,000

ARC Flash Hazard Analysis - Parks



Project Description

The purpose of this project is to hire a consultant that will perform a study of electrical components for all city park facilities. The consultant will label all electrical equipment components as defined in NFPA 70E: standards for electrical safety in the workplace. The study will review switchboards, panel boards, industrial control panels, meter socket enclosures and motor control centers all which are likely to require examination, adjustments, servicing or maintenance while energized.

2013-14 Source of Funds

General Obligation Bonds \$150,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$250,000
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	\$250,000

Project Number: 6305959

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2016

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$150,000	\$50,000	\$50,000	\$0	\$0	\$250,000

Athletic Field Lighting System Replacement



Project Description

This project's original purpose was to upgrade the lighting levels at all the existing deficient baseball, softball and multi-purpose athletic fields so that they are in compliance with Illuminating Engineering Society (I.E.S.) recommendations. However in recent years sports lighting pole safety issues and aging electrical service section replacement has taken priority as well as lighting deficiency. This project consists of the following estimated five year replacement program at Tempe's athletic facilities:

- 2013 - 14 Benedict Sports Complex Field #3, 4 & 5
- 2014 - 15 Benedict Sports Complex Field #1 & 2
- 2015 - 16 McKemy Ball fields SES Replacement; Papago Park Bellfield; Svob Park Soccer Field.
- 2016 - 17 Stroud Park Soccer Field; Daley Park Ball fields.
- 2017 - 18 Connolly Ball fields.

2013-14 Source of Funds

General Obligation Bonds \$870,000

Estimated Project Costs

Legal / Administration	\$23,500
Land Acquisition	\$0
Permit Fees	\$77,500
Design and Engineering	\$240,000
Survey / Staking	\$23,500
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,419,000
Geotech / Material Testing	\$23,500
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$163,000
Total	\$2,970,000

Project Number: 6303089
Estimated Start Date: 07/01/2008
Estimated Completion Date: 06/30/2020

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$870,000	\$620,000	\$320,000	\$550,000	\$610,000	\$2,970,000

Ballfield Infield Renovation



Project Description

The city has 20 softball and baseball fields (excluding Diablo Stadium) whose infields and warning tracks have deteriorated from use and age to such an extent that they are extremely dusty when users play on them and require watering down to control the dust. Funding for this project will be used on 14 of the fields that are used for league and recreational programming, to remove the existing infield and warning track mix, laser grade, spike roll and replace it with a product that is dust free and does not require watering and allows play to continue very quickly even after a rainstorm. The goal is to coordinate this effort with the Living Infrastructure to provide better field conditions. The replacement infield and warning track mixes will last for almost 10 years with minimal maintenance. The estimated cost per field is \$45,000.

2013-14 Source of Funds

General Obligation Bonds \$180,000

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	\$180,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$180,000

Project Number: 6305969
Estimated Start Date: 07/01/2013
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$180,000	\$0	\$0	\$0	\$0	\$180,000

Batting Range Pitching Machine/Netting Replacement



Project Description

This project will replace all 18 batting cage machines, light indicator boxes, and token boxes. The continual replacement of parts, some of which are hard to find or are no longer manufactured, has increased our annual maintenance costs to where it is more cost effective to replace the existing pitching machines with new machines.

2013-14 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$1,000
Land Acquisition	\$0
Permit Fees	\$4,000
Design and Engineering	\$0
Survey / Staking	\$1,000
Construction Management	\$8,000
Furnishings / Equipment	\$0
Construction / Improvement	\$120,000
Geotech / Material Testing	\$1,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$10,000
Total	\$145,000

Project Number: NA
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$145,000	\$0	\$0	\$145,000

Clark Park Swimming Pool Renovation



Project Description

This project aims to provide the preliminary design funding for the subsequent overall project which will renovate the existing 38 year old swimming pool, and replace the existing aged recreation center with a new building connected to the pool. Major reconstruction and renovation must be performed to restore this facility so it can be used by the citizens again.

2013-14 Source of Funds

NA

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$100,000
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	\$100,000

Project Number: NA
Estimated Start Date: 07/01/2017
Estimated Completion Date: 04/30/2018

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$0	\$0	\$100,000	\$100,000

Diablo Stadium Capital Replacement & Reinvestment



Project Description

This project is to provide for the ongoing contractual capital requirements and improvements to the Diablo Stadium Sports Complex. The City is contractually required to address Angel identified Stadium and Diablo Complex capital needs on an annual basis.

For fiscal year 13-14, this project is planned to address the following improvements at Diablo Stadium: Suites Upgrade - cabinets, countertops, lighting (\$50,000); Bunting Station between Field 1 & 2 (\$35,000); Carpet Replacement - Visitors' Locker Room (\$15,000); Warning Track material replacement - Fields 1 & 2 (\$60,000); Minor League Clubhouse - Floor re-seal (\$3000); Angels Requests (\$59,500).

2013-14 Source of Funds

Diablo Stadium Revenue	\$47,500
General Obligation Bonds	\$265,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$312,500	\$222,500	\$222,500	\$222,500	\$222,500	\$1,202,500

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	\$1,202,500
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,202,500

Project Number: 6303009

Estimated Start Date: 08/01/2012

Estimated Completion Date: Ongoing

Kiwanis Park Playground Replacement & Renovations



Project Description

This project will address the deteriorating condition of the Kiwanis Park Fiesta Playground. It provides for the complete replacement of all play equipment. Renovation of the playground will bring it into compliance with current ADA and safety requirements and guidelines.

The majority of the design is being done in-house. Since this project was approved as part of 2012-13 CIP plan, construction has been delayed to start during the summer of 2013. 2013-14 funding will allow the project to be done in one phase saving the City money in the overall cost of the project.

2013-14 Source of Funds

Capital Projects Fund Balance	\$729,000
General Obligation Bonds	\$350,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,079,000	\$0	\$0	\$0	\$0	\$1,079,000

Estimated Project Costs

Legal / Administration	\$5,000
Land Acquisition	\$0
Permit Fees	\$72,000
Design and Engineering	\$29,000
Survey / Staking	\$5,000
Construction Management	\$35,000
Furnishings / Equipment	\$375,000
Construction / Improvement	\$500,000
Geotech / Material Testing	\$5,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$53,000

Total \$1,079,000

Project Number: 6306808

Estimated Start Date: 07/01/2001

Estimated Completion Date: 11/01/2013

Kiwanis Recreation Center Electric Infrastructure Replacement



Project Description

This project includes the replacement of the electrical Service Entrance Section (SES) infrastructure at the Kiwanis Recreation Center, Tennis Center and Wave pool. The project includes the replacement of the SES and electrical panels at the tennis center and the two main electric service sections at the recreation center. The high use demand continues to stress the electrical infrastructure of KRC facilities.

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$7,000
Design and Engineering	\$30,000
Survey / Staking	\$2,000
Construction Management	\$16,000
Furnishings / Equipment	\$0
Construction / Improvement	\$235,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$21,000
Total	\$315,000

Project Number: 6305979
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2015

2013-14 Source of Funds

General Obligation Bonds	\$30,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$30,000	\$285,000	\$0	\$0	\$0	\$315,000

Mill Avenue Tree Replacement



Project Description

Funding for this project will be used to complete the removal of any dead or dying Ficus Nitida trees and replace them with the same species; add amendments to the soil of existing and new trees as well as make modification to the irrigation system so that the trees are watered up to the drip line (edge of the tree canopy). Thirty-six (36) inch box trees is the size of tree stock that will be used. The goal is to restore the iconic look for which Mill Avenue is noted and to mitigate hazardous conditions dead or dying trees may pose.

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	\$37,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$37,000

Project Number: 6305109
Estimated Start Date: 07/01/2012
Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

General Obligation Bonds	\$37,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$37,000	\$0	\$0	\$0	\$0	\$37,000

Park Concrete & Sports Court Replacement & Renovation



Project Description

This is an ongoing project to provide ADA accessible walkways to playgrounds and other park & athletic amenities where they still don't exist in the majority of our parks and sports facilities. It also funds the regular replacement/construction of park basketball courts; provides for a five year resurfacing schedule of the Indian Bend & Harelson Park Tennis Courts (4) and the Mitchell (2), Creamery (1/2), Redden (2) Park basketball courts; the resurfacing of the asphalt walkways/plazas in Selleh, Meyer and the Kiwanis Park Ballfields; and paving the maintenance yard at the Arredondo Sports Complex. This CIP will be administered using an asset management, best practices approach to ensure that the most critical elements, based on a condition rating spread throughout the entire park system, take priority.

2013-14 Source of Funds

General Obligation Bonds \$150,000

Estimated Project Costs

Legal / Administration	\$5,500
Land Acquisition	\$0
Permit Fees	\$6,500
Design and Engineering	\$22,000
Survey / Staking	\$5,500
Construction Management	\$19,000
Furnishings / Equipment	\$0
Construction / Improvement	\$525,000
Geotech / Material Testing	\$6,500
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$30,000
Total	\$620,000

Project Number: 6305119
Estimated Start Date: 07/01/2012
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$150,000	\$100,000	\$150,000	\$110,000	\$110,000	\$620,000

Park Improvements



Project Description

This project will fund improvements in various parks throughout the city and has spending authority of up to \$6 million in 2013-14 contingent upon land sale proceeds or some other cash funding source becoming available. This project replaces the original Park Renovation and Restoration Project.

Projects will be based on an asset management, best practices approach to ensure that the most critical elements, using condition ratings applied across the entire park system, take priority.

2013-14 Source of Funds

Cash \$6,000,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$350,000
Survey / Staking	\$0
Construction Management	\$350,000
Furnishings / Equipment	\$0
Construction / Improvement	\$5,300,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$6,000,000

Project Number: 6399729
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2018

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$6,000,000	\$0	\$0	\$0	\$0	\$6,000,000

Park Infrastructure / Equipment Replacement



Project Description

This ongoing project provides for the annual miscellaneous replacement of picnic equipment, drinking fountains, backstops, fencing, soccer goals, basketball standards, signage, sand, rubber safety surfacing, etc. in all the City's various parks, athletic facilities, aquatic facilities, and other various Tempe parks & recreation facilities. The fiscal year 13-14 funding allocation below shows the types of equipment and infrastructure planned for replacement on an annual basis throughout the five year plan.

2013 - 14 - Park & Picnic Equipment (\$100,000); Backstops & Fencing (\$100,000); Sports/Play Equipment (\$25,000); Safety Surfacing (\$25,000); Signage (\$15,000); Design (\$25,000); Unplanned/Emergency Replacements (\$60,000).

2013-14 Source of Funds

General Obligation Bonds	\$534,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$534,000	\$350,000	\$300,000	\$300,000	\$250,000	\$1,734,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$125,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$1,609,000
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,734,000

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

Park Lighting System Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of a park's lighting system. It brings the lighting in each park into compliance with current City and I.E.S. (Illuminating Engineering Society) guidelines and standards. It would include the replacement of the aged electrical service sections, conduit/wiring, poles & fixtures and other related equipment. The lighting in the majority of our parks have lighting systems & equipment ranging in age from a minimum of 20 - 50+ years. As a park's lighting system continues to age the light levels in that park continues to decline, becoming more and more inadequate. Also the majority of our parks received general area lighting for the entire park rather than any additional lighting for a common use area such as playgrounds. This CIP will be administered using an asset management, best practices approach to ensure that the most critical elements, based on a condition rating spread throughout the entire park system, take priority.

2013-14 Source of Funds

General Obligation Bonds	\$350,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$350,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,150,000

Estimated Project Costs

Legal / Administration	\$11,000
Land Acquisition	\$0
Permit Fees	\$28,000
Design and Engineering	\$102,000
Survey / Staking	\$11,000
Construction Management	\$62,000
Furnishings / Equipment	\$0
Construction / Improvement	\$870,000
Geotech / Material Testing	\$11,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$55,000
Total	\$1,150,000

Project Number: 6305489
Estimated Start Date: 07/01/2012
Estimated Completion Date: Ongoing

Park Playground Infrastructure & Equipment Replacement & Renovation



Project Description

This is an ongoing project to provide for the complete replacement of all equipment and safety surfacing in an average of two park playgrounds per year. It would provide for bringing each playground into compliance with current CPSC, ASTM and ADA guidelines, standards and law. The playgrounds in the majority of our 45+ park playgrounds have equipment ranging in age from a minimum of 15 - 30+ years. The priority would be to bring our 6 fully accessible playgrounds into compliance with the changes made in the current ADA law.

In 2013-14, the following 6 partially accessible playgrounds will be brought into compliance with recent changes in ADA law: Campbell (\$25,000); Clark (\$50,000); Harelson (\$50,000); Joyce (\$50,000); Optimist (\$25,000); Stroud (\$50,000).

In future years, this CIP will be administered using an asset management, best practices approach to ensure that the most critical elements, based on a condition rating spread throughout the entire park system, take priority.

2013-14 Source of Funds

General Obligation Bonds \$400,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$400,000	\$225,000	\$225,000	\$250,000	\$250,000	\$1,350,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$105,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$1,245,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,350,000

Project Number: 6305499

Estimated Start Date: 07/01/2012

Estimated Completion Date: Ongoing

Park Restrooms and Ramadas



Project Description

City of Tempe maintains a park infrastructure system valued at \$223.4 million covering nearly 1900 acres in 48 parks. 75% of City parks are over 20 years old and due to financial conditions have had a limited amount of re-investment. Within each park, Tempe maintains park structures including over 50 ramadas and approximately 20 restrooms.

Restroom renovation involves replacing the traditional style restrooms (enclosed facility with stalls) with unisex units such as the ones at Tempe Beach Park. Restrooms generally will be rebuilt in the same location and only relocated when necessary.

Park ramadas with metal roofs and masonry columns have an expected life of 30+ years. Size varies from 20' x 20' (\$75,000) to 20' x 40' (\$100,000).

This CIP will replace/renovate restrooms and ramadas to ensure they are safe, accessible and in good working condition. This CIP will be administered using an asset management, best practices approach to ensure the most critical elements, based on a condition rating spread throughout the entire park system, take priority.

2013-14 Source of Funds

General Obligation Bonds \$675,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$675,000	\$200,000	\$340,000	\$175,000	\$75,000	\$1,465,000

Estimated Project Costs

Legal / Administration	\$13,000
Land Acquisition	\$0
Permit Fees	\$37,000
Design and Engineering	\$105,000
Survey / Staking	\$13,000
Construction Management	\$58,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,122,000
Geotech / Material Testing	\$13,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$104,000
Total	\$1,465,000

Project Number: 6305129

Estimated Start Date: 07/01/2012

Estimated Completion Date: ongoing

Parks & Recreation Emergency Repairs



Project Description

This project creates contingency funding to address the unexpected infrastructure failures, public safety issues and/or contractual obligations. In recent years due to an aging parks & recreation facility system, we have been required to address a regular series of emergency and/or unexpected infrastructure repairs and replacements.

Each year due to the age of our facilities we know that we are going to experience some sort of unscheduled infrastructure failure or repair. We just don't know what it will be. Last year it was the structural failure of the Kiwanis Fiesta Group Ramadas structural support failure (\$250,000). Before that was the replacement of the 35 year old lighting system at Diablo Stadium due to the unsafe condition of the poles (\$1,300,000). Replacement of the electrical service section at the Benedict Sports Complex which failed for the second time in a year (\$75,000). The repairs to the Diablo Stadium field drainage system and leveling of the infield required by contractual obligations. The replacement of seven various park electrical service pedestals in a single year. Even with a program of regular infrastructure replacements we will experience some failure(s) or demands which won't wait for their scheduled replacement.

2013-14 Source of Funds

General Obligation Bonds	\$200,000
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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	\$550,000
Total	\$550,000

Project Number: 6305989
Estimated Start Date: 07/01/2013
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$200,000	\$150,000	\$100,000	\$50,000	\$50,000	\$550,000

Parks Living Infrastructure and Irrigation Systems



Project Description

Tempe maintains close to 16,000 trees and shrubs. Typically park trees have an expected life span of no more than 20 years. Within each park, Tempe maintains irrigation systems to water the living infrastructure. This includes controllers, electrical systems, sprinkler heads and main and lateral distribution lines. Irrigation infrastructure has a range of life cycle and fails incrementally instead of on a system wide basis. Also as technology improves we need to update systems in order to optimize water usage. This CIP will be administered using an asset management, best practices approach to ensure that the most critical elements, based on a condition rating spread throughout the entire park system, take priority.

There are environmental benefits associated with this project. As discussed with Mayor and Council during the June 14, 2012 IRS, staff has implemented a green waste to compost program where green waste is collected in the community, processed into high quality, organic compost, and used in our parks maintenance programs to rehabilitate tired and over-used turf. As indicated above, one of the primary purposes of this project is to rebuild soil structure within a 3-year time frame in a way that increases the city's use of organic compost and bio-stimulants, and decreases the use of inorganic fertilizers and pesticides.

2013-14 Source of Funds

General Obligation Bonds	\$145,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$145,000
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	\$145,000

Project Number: 6305999
Estimated Start Date: 07/01/2013
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$145,000	\$0	\$0	\$0	\$0	\$145,000

Rio Salado CFD Infrastructure Replacement



Project Description

This project serves as a reserve for the replacement of Tempe Town Lake capital items located between lake edge-to-lake edge, dam-to-dam. The infrastructure replacement reserve amount is anticipated to change upon completion of a reserve study for capital asset replacement. The Rio Salado Enhanced Services Commission recommended that a reserve study be completed to ensure that an appropriate replacement reserve is budgeted. The infrastructure reserve budget will be modified each year based upon changes to replaced items during the previous year, and also based upon the annual West Urban CPI.

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	\$579,630
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

2013-14 Source of Funds

Special Assessments	\$579,630
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Total \$579,630

Project Number: 6306009

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$579,630	\$0	\$0	\$0	\$0	\$579,630

Rolling Hills Irrigation System



Project Description

This project will convert the irrigation system at Rolling Hills Golf Course from a potable water source to an untreated raw water source. Additionally, this project will renovate the existing irrigation system, constructed in two phases in the 1970's and 1980's, improving efficiency and reducing overall water usage.

An engineering study completed in 2003 identified several operational and maintenance problems with the existing irrigation system, including: Discontinued manufacturer's support for the control system parts; limited software capabilities do not allow for creating site-specific irrigation schedules; obsolete and corroded parts requiring constant maintenance and adjustments; repeated equipment failures; and PVC piping that is beyond its expected useful life.

Additionally, the existing system uses potable water for irrigation, at a cost that is 5-7 times higher than using raw water. As an example, the annual water expense at Rolling Hills exceeds \$250,000 for 60 acres of irrigated turf grass, as compared to the non-potable water expense of \$46,000 at Ken McDonald with 100 acres of irrigated turf grass.

Estimated Project Costs

Legal / Administration	\$22,000
Land Acquisition	\$0
Permit Fees	\$97,000
Design and Engineering	\$919,000
Survey / Staking	\$22,000
Construction Management	\$154,000
Furnishings / Equipment	\$0
Construction / Improvement	\$2,200,000
Geotech / Material Testing	\$22,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

2013-14 Source of Funds

Golf Fund Enterprise Revenue	\$674,000
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Total \$3,436,000

Project Number: 6305929

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$674,000	\$2,762,000	\$0	\$0	\$0	\$3,436,000

Skate Park Structural Repairs



Project Description

This project provides for the ongoing annual specialized capital repairs to the City three (3) skate parks. Repairs will include concrete, coping, grind edges, modular surface replacements, etc. This project was established to deal with the ongoing annual repairs required in each of our three (3) skate park structures. It is known that we would experience damages to the concrete structures/surfaces beyond what normal maintenance could address. The modular fixture's surfaces in Hudson Park will need to be replaced on a periodic basis as they are damaged or wear out. In order to keep our skate parks in a safe condition for the users, damages need to be repaired on a timely basis.

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	\$93,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

2013-14 Source of Funds

Capital Projects Fund Balance	\$8,000
General Obligation Bonds	\$25,000

Total \$93,000

Project Number: 6302629
Estimated Start Date: 07/01/2006
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$33,000	\$15,000	\$15,000	\$15,000	\$15,000	\$93,000

Sports Facility Relamping



Project Description

This project provides for the continued funding of a regular relamping program for our sports facilities' lighting systems. It establishes a regular cycle of relamping and cleaning of light fixtures at all softball/baseball fields, soccer fields, swimming pools and tennis courts. Without this project the light levels at these sports facilities declines, and exposes the City to unnecessary liability & risk. The following reflects the anticipated activity planned for the next three years.

2013 -14 - Daley Ballfields (\$5,000); Jaycee Ballfield (\$3,000); Tempe High Tennis (\$2,500); McClintock High Tennis (\$2,500); Marcos de Niza Tennis (\$2,500); Unplanned Relamping (\$4,500).

2014-15 - Papago Ballfield (\$3,000); Diablo Soccer Field (\$4,000); Clark Ballfield (\$3,000); Corona High Tennis (\$3,000); Escalante Pool (\$1,500); Unplanned Relamping (\$5,500).

2015 -16 - Connolly Ballfields (\$5,000); Mckemy Ballfields (\$5,000); Tempe Beach Ballfield (\$3,000); Harelson Tennis (\$1,500); Indian Bend Tennis (\$1,500) McClintock Pool (\$1,500); Unplanned Relamping (\$2,500).

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	\$140,049

2013-14 Source of Funds

Capital Projects Fund Balance	\$20,049
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Total \$140,049

Project Number: 6306938
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$20,049	\$20,000	\$20,000	\$25,000	\$55,000	\$140,049

Tempe Beach Splash Playground Modification



Project Description

The Splash Playground opened in 2002 and was designed to entertain and accommodate 20 - 25,000 participants per year. Ten years later our participation averages between 50 - 60,000 visitors a year. This has resulted in extensive wear and tear on the physical structures. Several play pieces have been removed because they were no longer functional or didn't meet safety/health standards. This project will replace of worn out equipment, and address an on-going health and safety issue related to the hill & slide area.

The project will consist of the following:

- Replacement of filtration/circulation system - \$35,000
- Demolition & re-grading of the hill/slide area - \$50,000 (This area has a been a long standing health & safety issue.)
- Items to replace the hill area - \$55,000 (Items would include new play features, shade and landscaping.)
- Decking & refurbishment of the existing deck - \$55,000
- Design - \$25,000

2013-14 Source of Funds

General Obligation Bonds \$25,000

Estimated Project Costs

Legal / Administration	\$3,000
Land Acquisition	\$0
Permit Fees	\$6,000
Design and Engineering	\$24,000
Survey / Staking	\$2,000
Construction Management	\$14,000
Furnishings / Equipment	\$0
Construction / Improvement	\$195,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$19,000
Total	\$265,000

Project Number: 6506931

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2015

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$25,000	\$240,000	\$0	\$0	\$0	\$265,000

Town Lake Dam Replacement



Project Description

Based on the contractual agreement between the City and Bridgestone, the temporary rubber bladders must be replaced by the City by the end of December, 2015. The City has initiated a project to select, design and construct the "best - value" solution for replacement of the Tempe Town Lake downstream dam and that has been determined to be the steel hinged crest gate (January 2012). Current project cost estimate is for the Downstream Dam only. Design and Engineering costs in year 2013- 2014 will apply to long lead item procurement.

2013-14 Source of Funds

Capital Projects Fund Balance \$3,621,330
 General Obligation Bonds \$13,550,000

Estimated Project Costs

Legal / Administration	\$119,000
Land Acquisition	\$0
Permit Fees	\$1,018,736
Design and Engineering	\$2,327,389
Survey / Staking	\$318,000
Construction Management	\$1,582,000
Furnishings / Equipment	\$13,000,000
Construction / Improvement	\$21,750,056
Geotech / Material Testing	\$318,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$350,000
Total	\$40,783,181

Project Number: 6504229

Estimated Start Date: 07/01/2013

Estimated Completion Date: 12/31/2015

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$17,171,330	\$23,611,851	\$0	\$0	\$0	\$40,783,181

Town Lake Emergency Warning Modifications



Project Description

This project involves the expansion of the warning capabilities (including lights, siren, and PA system) downstream of the west dam. The improvements include an automatic evacuation warning for the lake and real-time access to system notifications currently monitored by the Salt River Project. The design for this project is underway and nearing completion. Installation will follow. The purpose of this project is to advise recreational users of Tempe Town Lake of circumstances that could impact their safety.

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	\$44,073
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$44,073

Project Number: 6503771

Estimated Start Date: 07/01/2013

Estimated Completion Date: 12/30/2013

2013-14 Source of Funds

Capital Projects Fund Balance \$44,073

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$44,073	\$0	\$0	\$0	\$0	\$44,073

General Governmental Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
City Court									
Court Improvement Project: 6705139	General Obligation Bonds	184,300	302,450	486,750	-	-	-	-	486,750
Community Development									
City Hall Parking Garage: 6702979	Capital Projects Fund Balance	274,161	-	274,161	-	-	-	-	274,161
	General Obligation Bonds	-	350,000	350,000	-	-	-	-	350,000
	Project Total	274,161	350,000	624,161	-	-	-	-	624,161
Eisendrath House: 6703479	Capital Projects Fund Balance	43,349	-	43,349	-	-	-	-	43,349
Orchid House Relocations: 6706019	Orchid House Proceeds	-	1,200,000	1,200,000	-	-	-	-	1,200,000
Community Development Total		317,510	1,550,000	1,867,510	-	-	-	-	1,867,510
Community Relations									
Call Center CRM System: 6704109	Capital Projects Fund Balance	84,396	-	84,396	-	-	-	-	84,396
Egovernment Portal: 6700529	Capital Projects Fund Balance	9,300	-	9,300	-	-	-	-	9,300
Community Relations Total		93,696	-	93,696	-	-	-	-	93,696
Community Services									
Library Public Access Computer Replacement: NA	General Obligation Bonds	-	-	-	225,000	-	-	-	225,000
Library Software Upgrade and RFID Conversion: 6706029	General Obligation Bonds	-	200,000	200,000	-	-	-	-	200,000
Municipal Arts Program: 6699799	Municipal Arts Fund	293,223	500,562	793,785	-	-	-	-	793,785
	Water/ Wastewater Fund	-	100,215	100,215	-	-	-	-	100,215
	Project Total	293,223	600,777	894,000	-	-	-	-	894,000
Community Services Total		293,223	800,777	1,094,000	225,000	-	-	-	1,319,000



General Governmental Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Finance and Technology									
City Regional Radio System Maintenance and Replacement: 5501989	General Obligation Bonds	220,000	2,504,334	2,724,334	2,901,772	2,808,745	3,594,548	1,000,461	13,029,860
	Solid Waste Fund	12,500	367,915	380,415	97,799	99,957	141,544	55,126	774,840
	Water / Wastewater Fund	17,500	114,065	131,565	236,201	278,692	256,503	77,177	980,137
	Project Total	250,000	2,986,314	3,236,314	3,235,773	3,187,394	3,992,594	1,132,764	14,784,838
Core Network Replacement: NA	General Obligation Bonds	-	-	-	-	-	-	555,349	555,349
Enterprise Network File Storage and Archival: 6709239	General Obligation Bonds	-	381,050	381,050	133,754	133,754	191,211	-	839,769
Permits Plus Upgrade: 6709219	Capital Projects Fund Balance	500,000	-	500,000	-	-	-	-	500,000
	General Obligation Bonds	-	586,472	586,472	-	-	-	-	586,472
	Project Total	500,000	586,472	1,086,472	-	-	-	-	1,086,472
Sales Tax System Replacement: 6706944	Capital Projects Fund Balance	10,302	-	10,302	-	-	-	-	10,302
	Capital Improvements Reserve	-	19,698	19,698	-	-	-	-	19,698
	Project Total	10,302	19,698	30,000	-	-	-	-	30,000
Finance and Technology Total		760,302	3,973,534	4,733,836	3,369,527	3,321,148	4,183,805	1,688,113	17,296,428
Public Works									
ADA Accessibility Survey and Transition Plan : 6706039	Capital Projects FB - Fund 67	-	70,000	70,000	-	-	-	-	70,000
	Capital Projects FB - Fund 54	-	100,000	100,000	-	-	-	-	100,000
	Transit Tax	-	30,000	30,000	-	-	-	-	30,000
	Project Total	-	200,000	200,000	-	-	-	-	200,000
CenturyLink FTTN-FTTC-FAI: 6704591	CenturyLink	-	150,000	150,000	-	-	-	-	150,000
City Hall Complex Heating & Cooling Repair: 6706049	General Obligation Bonds	-	1,620,000	1,620,000	-	-	-	-	1,620,000
Downtown Infrastructure: 6704329	General Obligation Bonds	101,000	209,000	310,000	75,000	75,000	75,000	75,000	610,000
Electrical Improvements: 6705159	General Obligation Bonds	377,000	-	377,000	-	-	-	-	377,000
Emergency Capital Repair: 6799779	General Obligation Bonds	370,000	153,000	523,000	300,000	275,000	250,000	225,000	1,573,000



General Governmental Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Energy Conservation Program: 6705179	Capital Improvements Reserve	38,000	-	38,000	-	-	-	-	38,000
Fleet Maintenance Improvements: 6705189	Solid Waste Fund	75,000	-	75,000	-	-	-	-	75,000
Flooring Replacement Program: 6705199	General Obligation Bonds	800,000	145,000	945,000	407,000	407,000	407,000	407,000	2,573,000
Fuel Metering Project: 6705209	General Obligation Bonds	48,000	48,000	96,000	-	-	-	-	96,000
Historic Properties Preservation: 6706809	Capital Projects Fund Balance	51,007	-	51,007	-	-	-	-	51,007
	General Obligation Bonds	-	-	-	15,000	15,000	15,000	15,000	60,000
	Project Total	51,007	-	51,007	15,000	15,000	15,000	15,000	111,007
HVAC Replacements: 6706873	General Obligation Bonds	680,000	205,000	885,000	250,000	250,000	250,000	250,000	1,885,000
QECB Energy Services Retrofit : 6703822	Capital Projects Fund Balance	1,000,000	-	1,000,000	-	-	-	-	1,000,000
Roof Replacement: 6702519	Capital Projects Fund Balance	-	50,000	50,000	-	-	-	-	50,000
	General Obligation Bonds	243,958	39,000	282,958	480,000	480,000	480,000	480,000	2,202,958
	Project Total	243,958	89,000	332,958	480,000	480,000	480,000	480,000	2,252,958
Tempe Fire Training Facility: 6705219	General Obligation Bonds	295,000	-	295,000	-	-	-	-	295,000
Water Heater Replacement Program: 6705229	General Obligation Bonds	54,930	29,000	83,930	50,000	50,000	50,000	50,000	283,930
Public Works Total		4,133,895	2,848,000	6,981,895	1,577,000	1,552,000	1,527,000	1,502,000	13,139,895
General Governmental Program Total		5,782,926	9,474,761	15,257,687	5,171,527	4,873,148	5,710,805	3,190,113	34,203,279

Court Improvement Project



Project Description

This project supports ongoing efforts to preserve and improve an important City asset, the Court building. The project involves a remodel of the civil division of the Court, to include eliminating a conference room/call center to expand the staff work/seating area. The Court intends to use existing modular furniture to the greatest extent possible, supplementing with new pieces where necessary. Additionally, the project includes the replacement of existing worn, dirty and stained cloth benches/pews and jury box chairs in each courtroom with public seating units. The project also includes a security build-out and a break room remodel.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$3,000
Design and Engineering	\$12,000
Survey / Staking	\$0
Construction Management	\$7,000
Furnishings / Equipment	\$291,300
Construction / Improvement	\$158,500
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$4,000
Other Project Costs	\$10,950
Total	\$486,750

Project Number: 6705139
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

General Obligation Bonds	\$486,750
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$486,750	\$0	\$0	\$0	\$0	\$486,750

City Hall Parking Garage



Project Description

This project provides for basic tenant improvements to the tenant space on the north side of the City Hall Parking Garage. Tenant improvements will include such things as air conditioning, demising walls, restrooms, and fire protection sprinklers. The project will be continuing until all space is leased.

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	\$624,161
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$624,161

Project Number: 6702979
Estimated Start Date: 01/31/2013
Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

Capital Projects Fund Balance	\$274,161
General Obligation Bonds	\$350,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$624,161	\$0	\$0	\$0	\$0	\$624,161

Eisendrath House



Project Description

This project completes the rehabilitation of the historic Eisendrath House. This completed facility is widely anticipated to be a valuable community asset and the "flagship" for the Carl Hayden Campus for Sustainability. It includes meeting, exhibit, office and event space. The project has been designed as a showpiece of energy and water conservation, as well as ADA accessibility, and is expected to achieve a LEED Gold or Silver rating.

Improvements to the historic house, include all necessary structural repairs, installation of most mechanical, electrical and plumbing lines and some equipment, window and door repairs, roof replacement, adobe/stucco repair and paint (original "dusty rose" color).

2013-14 Source of Funds

Capital Projects Fund Balance \$43,349

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	\$43,349
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$43,349

Project Number: 6703479
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$43,349	\$0	\$0	\$0	\$0	\$43,349

Orchid House Relocations



Project Description

This project will fund the relocation of all City department functions currently located on 2nd floor of Orchid house. The project consists of the following components/phases:

1. Renovate existing Community Development offices and lobby in East Garden Level of City Hall to accommodate Code Enforcement and Redevelopment work groups while improving overall efficiency and customer service.
2. Construct complete tenant improvements in existing raw shell 2nd floor office space in Tempe Parking Structure to accommodate City Attorney + Prosecutor work groups.
3. Renovate vacated Prosecutor space on south 3rd floor of Courts building to accommodate Housing Services.

2013-14 Source of Funds

Orchid House Proceeds \$1,200,000

Estimated Project Costs

Legal / Administration	\$40,000
Land Acquisition	\$0
Permit Fees	\$10,000
Design and Engineering	\$140,000
Survey / Staking	\$0
Construction Management	\$40,000
Furnishings / Equipment	\$90,000
Construction / Improvement	\$780,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$60,000
Other Project Costs	\$40,000
Total	\$1,200,000

Project Number: 6706019
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000

Call Center CRM System



Project Description

This project funds the implementation of Tempe's Citizen Request Management (CRM/311) system. The web-based enterprise system is a technological tool used by the city's Customer Relations Center (CRC) to serve Tempe as a central connection for easily accessible information and government services. The CRM system enables CRC staff to provide consistent and accurate information or enter a service request into the system, where it will then be automatically routed to the proper location in the city. It introduces "business rules" that govern each service request type and promotes consistency in the way operations are performed. The system also has a robust knowledge base that serves as a central repository for accurately answering questions. Finally, the CRM system allows the city to track and report on how services are being delivered to citizens.

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	\$84,396
Other Project Costs	\$0
Total	\$84,396

2013-14 Source of Funds

Capital Projects Fund Balance	\$84,396
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Project Number: 6704109
Estimated Start Date: 08/01/2010
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$84,396	\$0	\$0	\$0	\$0	\$84,396

Egovernment Portal



Project Description

The project provides city customers with a variety of means to access government services. The new website has added a number of Egovernment tools including mobile application enhancements and a permanent on-line forum portal. The online forum is a tool to gather public feedback regarding a variety of topics, issues and projects.

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	\$9,300
Other Project Costs	\$0
Total	\$9,300

2013-14 Source of Funds

Capital Projects Fund Balance	\$9,300
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Project Number: 6700529
Estimated Start Date: 05/01/2012
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$9,300	\$0	\$0	\$0	\$0	\$9,300

Library Public Access Computer Replacement



Project Description

The Tempe Public Library provides public access computing services and a public Wi-Fi network at the Library, the Escalante Community Center, and the North Tempe Multigenerational Center, and public access computing at the Cahill Senior Center.

This project allows for the replacement of the 170 public access computers in service at the Tempe Public Library, the community outreach centers and the upgrade of wireless access points at the Library to support the 802.11n standard. The new wireless access points will conform to emerging technology standards and meet the increased demand of users with mobile devices. Replacement of the current equipment is necessary to maintain existing services.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$225,000	\$0	\$0	\$0	\$225,000

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	\$225,000
Other Project Costs	\$0
Total	\$225,000

Project Number: NA
Estimated Start Date: 07/01/2014
Estimated Completion Date: 06/30/2015

Library Software Upgrade and RFID Conversion



Project Description

Current library materials (books, DVDs, etc.) and new acquisitions will be affixed with RFID (Radio Frequency Identification) tags. RFID pad readers will be installed at self-service checkout stations and staff service desks. RFID technology will support enhanced customer self-service applications, security, inventory control, and materials circulation systems.

RFID technology has developed into the standard platform for library materials handling. The recent adoption of NISO standards for library RFID installations makes this an advantageous time for the Tempe Public Library to upgrade. Among local public libraries, Phoenix, Chandler, Mesa, Glendale, Peoria, and the Maricopa County Library District have already adopted RFID technology.

2013-14 Source of Funds

General Obligation Bonds \$200,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$200,000	\$0	\$0	\$0	\$0	\$200,000

Estimated Project Costs

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

Project Number: 6706029
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Municipal Arts Fund



Project Description

This project funds the city's cultural improvements and programs to advance art in all its forms for the benefit of the public, and to create an atmosphere in which the arts can flourish and inspire Tempe residents to recognize the arts as essential to the whole life of our community. The programs and the associated anticipated expenditures for FY13-14 are:

Public Art (\$30,000), Public Art Maintenance (\$60,000), Library renovation public art (\$50,000), Bike Lockers (\$4,000), Utility box art enhancement (\$12,000), IN FLUX program - temporary public art (\$15,000), Grants to Tempe-based arts organizations and projects (\$155,000), Special projects including Tempe Symphony Orchestra, Songwriters' Showcase, Quarterly newsletter (\$55,000), Gallery Exhibitions program (\$35,000), TPAC equipment maintenance (\$3,000), Community Initiative program including Tardeada, Ballet Under the Stars, Music Under the Stars and Poetry in April (\$51,000), Rio Salado Public Art Maintenance (\$12,000) and Municipal Arts including a presenting series at TCA, consulting fees and marketing (\$402,000).

2013-14 Source of Funds

Municipal Arts Fund Balance	\$793,785
Water / Wastewater Fund	\$100,215

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	\$894,000
Total	\$894,000

Project Number: 6699799
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$894,000	\$0	\$0	\$0	\$0	\$894,000

City Regional Radio System Maintenance and Replacement



Project Description

The City of Tempe currently utilizes the Regional Wireless Cooperative (RWC), a regional Project 25 700/800 MHz interoperable radio system. The RWC has sixteen partners and many other interoperable partners, allowing for seamless interoperability among federal, state, transit, county and municipal users. The RWC has communicated to its users, including Tempe that it plans to upgrade to Project 25 Phase 2 TDMA operations within the next six years in order to comply with the FCC's mandate. Tempe is responsible for upgrading and/or replacing "end user" equipment to accommodate this upgrade.

All Tempe municipal, police and fire portable and mobile radios must be replaced. Dispatch equipment used at the Apache Police substation, Emergency Operations Center, Fleet Maintenance, Hardy Police substation, Johnny G Martinez Water facility and the Water Reclamation Building will also need to be replaced and or upgraded.

This project will continue to allow secure, day-to-day, real time communications between Tempe users as well as allowing interoperability between Tempe and the sixteen other member agencies and the numerous other partner agencies.

2013-14 Source of Funds

General Obligation Bonds	\$2,724,334
Solid Waste Fund	\$380,415
Water / Wastewater Fund	\$131,565

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	\$14,784,838
Other Project Costs	\$0
Total	\$14,784,838

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

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$3,236,314	\$3,235,773	\$3,187,394	\$3,992,594	\$1,132,764	\$14,784,838

Core Network Replacement



Project Description

This project will replace the enterprise network backbone and associated equipment that is reaching end of service life and support. This would consist of a three year program to replace the existing core Cisco 6500 series switch/routers in the first year and then edge core switches in the major City of Tempe campuses over the remaining two years to maintain system compatibility and performance.

The enterprise network is the backbone utilized to move data and information between computer systems, applications, departments, and people. The Cisco 6500 routers currently in use at the City of Tempe were purchased in 2004 and upgraded in 2007. Cisco currently projects they will reach the end of their life in 2015 and end of support in 2016 leaving Tempe vulnerable. A new central core and replacement of the Cisco 6500 is critical to maintaining efficient and effective information flow on the computer network backbone.

2013-14 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	\$0
Construction / Improvement	\$0
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$555,349
Other Project Costs	\$0
Total	\$555,349

Project Number: NA
Estimated Start Date: 07/01/2017
Estimated Completion Date: 06/30/2018

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$0	\$0	\$555,349	\$555,349

Enterprise Network File Storage and Archival



Project Description

The demand for information storage, archival, and records retention is continually increasing. New technology in "cloud computing" through virtualization has allowed Tempe to use Storage Area Networking (SAN) to share resources across multiple departments and applications. Our existing SAN infrastructure is at its physical limitation for space. Recent technology developments in mid-tier storage for virtualization has provided a solution to extend the life of our existing infrastructure at a much reduced cost by offloading non-mission critical storage to a distributed SAN system that places storage near the users, providing fault tolerance to network interruptions and supports desktop virtualization.

The existing highly available SAN will continue to support enterprise business functions such as financials, payroll, utility billing, and sales tax collection using the resources gained from the migration of non-mission critical storage to the lower cost mid-tier storage devices.

2013-14 Source of Funds

General Obligation Bonds \$381,050

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	\$839,769
Other Project Costs	\$0
Total	\$839,769

Project Number: 6709239
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2017

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$381,050	\$133,754	\$133,754	\$191,211	\$0	\$839,769

Permits Plus Upgrade



Project Description

This project will upgrade the City's current Permits Plus system to an enterprise-wide permitting solution that is citizen-centric and allows information to be shared across departments. This newer technology will support a robust workflow for streamlining the permit approval process. It will automate the application process, the plan reviews, fee calculations and collections, inspection and investigation tasks, and more.

Web-based technology will provide 24/7 access for our citizens and employees via the Internet. This functionality will allow our citizens to apply for permits online, submit and track their project plans, attach documents, and make payments over the Internet. Integrated Wireless technology will allow employees to use their mobile devices for inspections, research, and scheduling. Employees can also use their laptops or handheld devices for data entry and querying.

An integrated GIS component will provide our field inspectors with mapping capabilities. This includes geographic viewing of all zoning and infrastructure information associated with parcels, permits, inspections, or plans.

2013-14 Source of Funds

Capital Projects Fund Balance	\$500,000
General Obligation Bonds	\$586,472

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	\$1,086,472
Other Project Costs	\$0
Total	\$1,086,472

Project Number: 6709219
Estimated Start Date: 09/01/2012
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,086,472	\$0	\$0	\$0	\$0	\$1,086,472

Sales Tax Replacement System



Project Description

This project will complete the upgrade of the Tax & License TaxMantra computer program, and provide for implementation of new data imaging capability.

2013-14 Source of Funds

Capital Projects Fund Balance	\$10,302
Capital Improvements Reserve	\$19,698

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	\$30,000
Other Project Costs	\$0
Total	\$30,000

Project Number: 6706944
Estimated Start Date: 11/01/2010
Estimated Completion Date: 12/30/2013

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$30,000	\$0	\$0	\$0	\$0	\$30,000

ADA Accessibility Survey and Transition Plan



Project Description

In order to bring the City into compliance with ADA standards and meet our obligations to the U.S. Department of Justice, an ADA Transition Plan is required to identify physical barriers in public facilities and recommend methods to remove these barriers. The Transition Plan will include the following: 1) Accessibility survey of pedestrian rights-of-way using 2010 ADA Standards to include sidewalks, pathways, curb ramps, and signalized intersections for physical condition, slopes, cross-slopes and safety conditions. 2) Accessibility survey of all City facilities, including public buildings, city parks and multi-use paths for 2010 ADA compliance. Each survey will include prioritization of all identified non-compliance issues, which will facilitate future CIP and O&M planning for correcting deficiencies and asset preservation. Completion of this project will demonstrate the city's proactive approach to understanding its accessibility requirements, and outline a plan for addressing deficiencies going forward.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$200,000
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 \$200,000

Project Number: 6706039

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

Capital Project Fund Balance - Fund 67	\$70,000
Capital Project Fund Balance - Fund 54	\$100,000
Transit Tax	\$30,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$200,000	\$0	\$0	\$0	\$0	\$200,000

CenturyLink FTTN-FTTC-FAI



Project Description

CenturyLink is currently upgrading their infrastructure to support voice, data and video services through the installation of fiber optic cable to increase their service capacity. Fiber to the Node, Fiber to the Cell, Fiber Access Initiative and PRISM are terms used by CenturyLink to describe the fiber optic cable routing for the improvements to their infrastructure and connectivity. The scope of work for this professional services contract includes expedited utility plan review, pre-construction site inspection, conducting pre-construction conference, coordination of construction activity and daily field inspection and reporting. Based on an agreement with CenturyLink, the full cost of this contract will be reimbursed to the City.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$150,000
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 \$150,000

Project Number: 6704591

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2013-14 Source of Funds

CenturyLink	\$150,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$150,000	\$0	\$0	\$0	\$0	\$150,000

City Hall Complex Heating and Cooling Repair



Project Description

This project is to repair and replace, as necessary, the piping within the City Hall heating and cooling system that is installed throughout the building complex. The piping is over thirty years old and has been showing signs of failure, most recently in January of 2013 where the heating was not fully operational for several days. The system was repaired to functionality but full scale repairs or replacement are needed. Temperatures are difficult to maintain in the Garden Level offices and in the upper levels of the pyramid and many of the pipes have reached the end of their design life and are corroded.

The purpose of the project is to maintain the integrity of the heating system within the City Hall complex. Without this repair the heating system will fail. Replacement and repair of the system was previously recommended as a result of an HVAC study, and then again during the recently completed energy retrofits.

2013-14 Source of Funds

General Obligation Bonds \$1,620,000

Estimated Project Costs

Legal / Administration	\$13,000
Land Acquisition	\$0
Permit Fees	\$46,000
Design and Engineering	\$155,000
Survey / Staking	\$13,000
Construction Management	\$90,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,290,000
Geotech / Material Testing	\$13,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,620,000

Project Number: 6706049

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,620,000	\$0	\$0	\$0	\$0	\$1,620,000

Downtown Infrastructure



Project Description

This CIP is to help ensure pedestrian safety and maintain the physical assets in the downtown area. The combination of the day-to-day use of the pedestrian right-of-way as well as 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 2013-14, this CIP will fund:

- Mill Avenue Bridge Decorative String Lights (\$140,000). The string light cord and sockets have deteriorated to a point where there are no other options for repair and will need to be completely replaced. The life span of the cord is 10-12 years; the life span of the lamps are 5-7 years. New string lights make the Mill Avenue bridge aesthetically pleasing and provide reflective ambient light on the bridge and on Tempe Town Lake.

- Complete the replacement of the 125 electrical receptacles along Mill Avenue (\$45,000) The electrical receptacles are used for several special events throughout the year. The life span of each of these new pedestals is 15yrs.

- Hospitality Zone commitments: literature racks & portable restrooms (\$70,000).

2013-14 Source of Funds

General Obligation Bonds \$310,000

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	\$510,000

Total \$610,000

Project Number: 6704329

Estimated Start Date: 07/01/2012

Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$310,000	\$75,000	\$75,000	\$75,000	\$75,000	\$610,000

Electrical Improvements



Project Description

This funding provides for electrical system improvements throughout city facilities. During last fiscal year an engineering study was performed by engineers familiar with the power distribution and control equipment and performed an electrical analysis along with labeling electrical equipment components as defined in NFPA 70E-standard for electrical safety in the workplace. As a result of this project there were numerous items identified as needing repairs or replacements. This funding will be used to rectify these deficiencies such as: replacement of damaged electrical panel, missing labels, further analysis to review over current protection, replacement of enclosure doors, and replace conductors that are not properly sized. This project will complete deficiencies identified in the ARC Flash Hazard Analysis.

2013-14 Source of Funds

General Obligation Bonds \$377,000

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	\$377,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$377,000

Project Number: 6705159
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$377,000	\$0	\$0	\$0	\$0	\$377,000

Emergency Capital Repair



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. Each year the city experiences some unplanned and emergency repair needs. This CIP provides funding for these types of unplanned occurrences, including storm-related damage, sewer back-ups, fire damage, flooding and electrical emergencies.

The purpose of this CIP is to maintain public facilities and buildings. Continued funding for repair and replacement of faulty equipment and infrastructures allows for the city to have facilities that operate in a safe manner, efficient to operate and provides basic repairs that if not made could increase future costs of repairs. Planned maintenance extends the life of equipment and systems therefore reducing costly repairs and building closures.

2013-14 Source of Funds

General Obligation Bonds \$523,000

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	\$1,573,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,573,000

Project Number: 6799779
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$523,000	\$300,000	\$275,000	\$250,000	\$225,000	\$1,573,000

Energy Conservation Program



Project Description

The overall goal of the City's Energy Management Program is to reduce energy use and utility costs in city facilities by 15% by 2015. To accomplish this, staff will focus on a number of strategies including: a second phase of energy audits and retrofits, renewable energy projects at city facilities and facilitating a culture of conservation. Fiscal year 2013-14 funds will be used for consultant services to evaluate alternative energy projects and perform a second phase energy audit.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$38,000
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	\$38,000

2013-14 Source of Funds

Capital Improvements Reserve	\$38,000
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Project Number: 6705179
Estimated Start Date: 07/01/2014
Estimated Completion Date: 06/30/2015

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$38,000	\$0	\$0	\$0	\$0	\$38,000

Fleet Maintenance Improvements



Project Description

This project will hire an engineering firm to design and review options to retro fit our Fleet Maintenance Operations facility into a facility where CNG equipment and trucks could be serviced. Currently this facility does not allow for servicing equipment that is CNG related. The evaluation and design analysis would look at improvements designed to minimize risk to personnel and facilities in the event of release of CNG from within the facility. Also, the following systems would be reviewed: Electrical, lighting, Heating, roof, and number of bay doors. The study will also evaluate other options available throughout the City including the East Valley Bus Operations & Maintenance facility.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$75,000
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	\$75,000

2013-14 Source of Funds

Solid Waste Fund	\$75,000
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Project Number: 6705189
Estimated Start Date: 01/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$75,000	\$0	\$0	\$0	\$0	\$75,000

Flooring Replacement Program



Project Description

The City maintains flooring ranging from tile to carpet to hardwood finishes with an estimated replacement value of \$15 million. Flooring has an expected useful life of 10 years. This project provides for the systematic replacement of worn flooring. The annual reinvestment target for flooring is \$1.25 million. The following flooring systems are beyond their useful life and will be replaced in 2013-14: Fire Station #2 (\$10,000); Edna Vihel Center (\$100,000); South Police Department Benched Locker Room (\$35,000). Future flooring replacement needs will be in the following locations:

2014-15: City Hall/Council, Fire Station #3, Pyle Center, North Multi Center, Westside Multi Center

2015-16: 525 Building, Kiwanis Restroom, Diablo 3rd Floor Press Box, Diablo Minor League Gym

2016-17: Kiwanis Recreation Center

2013-14 Source of Funds

General Obligation Bonds \$945,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$945,000	\$407,000	\$407,000	\$407,000	\$407,000	\$2,573,000

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	\$2,573,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$2,573,000

Project Number: 6705199

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

Fuel Metering Project



Project Description

This project continues the installation of automated fuel management systems at 6 unmetered fueling sites and connect to the City's fuel network. Currently there are 12 fuel sites and 8 are unmetered and account for 10% shrinkage in the overall cities fuel budget.

The City has 12 fueling sites, of which 8 are currently unmetered. Unmetered sites have poor tracking of actual fuel usage and an undetermined amount of fuel shrinkage, resulting in an inaccurate O&M cost for a vehicle. This project is part of a larger plan to gradually add meters to all unmetered sites. 2013-14 sites are Ken McDonald, Rolling Hills, and Diablo Stadium.

2013-14 Source of Funds

General Obligation Bonds \$96,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$96,000	\$0	\$0	\$0	\$0	\$96,000

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	\$96,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$96,000

Project Number: 6705209

Estimated Start Date: 07/01/2012

Estimated Completion Date: 06/30/2014

Historic Properties Preservation



Project Description

The City has 7 buildings designated as historic properties and these buildings have an average age of 100 years. This CIP funds the rehabilitation and repair of aging historic facilities, infrastructure and systems. The scope of the rehabilitation includes infrastructure systems, roofing repairs/replacements, floor covering, painting, security lighting, repairs/upgrades of building automation systems, fire alarms and damaged equipment. 2013-14 projects include replacing the Hacket House stove (\$9,000); a new HVAC system at the Elias Rodriguez House (\$20,000); and resealing doors and windows at the Flour Mill (\$15,000) plus ongoing repair work.

The preservation of City owned historic properties is essential to prolong the sustainability of historic public properties. Taking a proactive approach to repairs will often reduce future expenditure costs. Funding of repairs/replacement of faulty equipment and infrastructure failures in public facilities allows staff to take corrective action to minimize the potential of health and safety liabilities.

2013-14 Source of Funds

Capital Projects Fund Balance \$51,007

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$51,007	\$15,000	\$15,000	\$15,000	\$15,000	\$111,007

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	\$111,007
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$111,007

Project Number: 6706809
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

HVAC Replacements



Project Description

Tempe maintains nearly 400 air conditioning, heat pump and split system units with an expected useful life of 12 years. The COMET Asset Management System has identified a replacement cost over the next 10 years as \$3.0 million. HVAC systems account for approximately 30% of the electrical bill. By replacing older and inefficient units with more efficient units, the City saves in electricity expenditures, reduces time and labor in repair needs, and reduces our carbon footprint. In 2013-14, the following locations have units that need to be replaced: Kiwanis-heaters (\$60,000); Fire Station 2, 3 & 4-evap coolers (\$15,000); South Maintenance Yard-evap (\$20,000); Household Products-evap (\$5000); Ken McDonald-evap (\$5000); McClintock-pool gas heater (\$2,000); Air handler replacements at various locations (\$80,000); and Gun Range (\$18,000). Delayed replacement will cost the city more over time than replacing units when they are beyond their useful life.

2013-14 Source of Funds

General Obligation Bonds \$885,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$885,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,885,000

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	\$1,885,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,885,000

Project Number: 6706873
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

QECB Energy Services Retrofit



Project Description

Fiscal year 13-14 funding will complete this energy efficiency project that will upgrade 23 buildings in need of new mechanical equipment, including City Hall, 5 Fire Stations, 4 Community Centers, 2 Police Stations and Maintenance facilities.

The total project cost is \$8.7 million for new HVAC, HVAC controls, lighting, and occupancy sensors which will reduce energy use, and electricity costs. The utility savings are anticipated to be \$550,000 annually. The environmental benefit is the reduction of 9,360,896 pounds of CO2 emissions, the equivalent of removing 804 cars from the road each 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	\$0
Construction / Improvement	\$1,000,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,000,000

Project Number: 6703822

Estimated Start Date: 05/01/2011

Estimated Completion Date: 07/31/2012

2013-14 Source of Funds

Capital Projects Fund Balance \$1,000,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000

Roof Replacement



Project Description

Tempe maintains 96 buildings covering 1.6 million square feet. The COMET Asset Management System has identified a replacement cost over the next 10 years as \$6.8 million. In 2013-14, this project will replace the roof at the Fire Maintenance Facility (\$20,000); Rolling Hills Maintenance Sprinkler Warehouse (\$19,000); and fund an evaluation and development of a long-range roof replacement program.

Roofs for our City facilities are a very important assets to maintaining facilities. By not replacing these roofs that are beyond their useful life, we could have damage from water getting into to our facilities therefore costing us much more over time and creating health and safety issues. The expected life of a roof is 15-20 years.

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$50,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$2,202,958
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$2,252,958

Project Number: 6702519

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2013-14 Source of Funds

Capital Projects Fund Balance \$50,000

General Obligation Bonds \$282,958

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$332,958	\$480,000	\$480,000	\$480,000	\$480,000	\$2,252,958

Tempe Fire Training Facility



Project Description

The campus of the Tempe Fire Training Center at 1342 E University Ave houses a 150' antenna tower necessary for police and fire communications. During some of the heavier rain storms, the retained storm water in the adjacent basin has come very close to flooding the generator, and electronic equipment building at the base of the tower.

The purpose of the project is to mitigate the flooding at the training facility by enlarging and improving the existing retention basin, and blocking offsite runoff from the adjacent APS site. The equipment on the tower, in the adjacent equipment shelter and the generator are necessary for continued fire and police communication and protection.

Estimated Project Costs

Legal / Administration	\$2,000
Land Acquisition	\$0
Permit Fees	\$8,000
Design and Engineering	\$28,000
Survey / Staking	\$2,000
Construction Management	\$17,000
Furnishings / Equipment	\$0
Construction / Improvement	\$236,000
Geotech / Material Testing	\$2,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$295,000

Project Number: 6705219

Estimated Start Date: 01/01/2013

Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

General Obligation Bonds \$295,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$295,000	\$0	\$0	\$0	\$0	\$295,000

Water Heater Replacement Program



Project Description

The City maintains 166 water heaters with an expected useful life of seven years. This project will replace 13 water heaters that are beyond their useful life at the Library, Fire Maintenance Facility, 525 Building, Ken McDonald, Police & Courts, Household Products Facility, Kiwanis, and JGM. For the future years, it is anticipated that this CIP will replace an average of 24 water heaters per year.

Faulty and inefficient water heaters are costly to maintain and also have a negative impact to the users of these facilities. By being proactive we are further reducing water damage to facilities, emergency repairs and making our facilities more comfortable for our users and visitors. Delayed replacement will cost the city more over time than replacing units when they are beyond their useful life cycle.

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	\$283,930
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$283,930

Project Number: 6705229

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

2013-14 Source of Funds

General Obligation Bonds \$83,930

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$83,930	\$50,000	\$50,000	\$50,000	\$50,000	\$283,930

Transportation Program

TRANSPORTATION PROJECTS TOTAL
\$15.2 MILLION IN FY 2013-14 AND
ACCOUNT FOR 13% OF THE 2013-14
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 \$15.2 million of the \$120 million Capital Improvements Budget for FY 2013-14.

In FY 2013-14 the two main funding sources for transportation projects are the planned issuance of \$6.2 million in general obligation bonds, and \$5.4 million in federal grants. Both operating and capital project fund balances are also planned as significant funding sources in FY 2013-14.

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 projects that maintain, replace and upgrade various technologies that support the City's traffic signals system, as well as on street light pole replacement.



Transportation and R.O.W. Improvements Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
Arterial, Collector and Residential Street Asset Preservation: 5499741	General Obligation Bonds	1,812,467	2,425,661	4,238,128	3,665,977	4,065,877	4,505,767	3,999,995	20,475,744
	Highway User Revenue Fund	-	1,147,000	1,147,000	-	-	-	-	1,147,000
	State LTAF Revenue	-	1,153,000	1,153,000	-	-	-	-	1,153,000
	Project Total	1,812,467	4,725,661	6,538,128	3,665,977	4,065,877	4,505,767	3,999,995	22,775,744
Bridge Maintenance: 5499891	General Obligation Bonds	168,374	250,000	418,374	250,000	250,000	250,000	250,000	1,418,374
Broadway / Priest Improvements: 5403401	Capital Projects Fund Balance	2,801	12,309	15,110	-	-	-	-	15,110
	Federal Grant - HSIP	-	203,637	203,637	-	-	-	-	203,637
	Project Total	2,801	215,946	218,747	-	-	-	-	218,747
Evergreen Alley Improvement Project: 5405699	Capital Projects Fund Balance	-	29,140	29,140	-	-	-	-	29,140
	Federal Grant - CMAQ	-	482,057	482,057	-	-	-	-	482,057
	Project Total	-	511,197	511,197	-	-	-	-	511,197
Holdeman Alley Improvement Project: 5405679	Capital Projects Fund Balance	-	32,103	32,103	-	-	-	-	32,103
	Federal Grant - CMAQ	-	531,097	531,097	-	-	-	-	531,097
	Project Total	-	563,200	563,200	-	-	-	-	563,200
Minor Concrete Improvements: 5401415	General Obligation Bonds	300,000	209,300	509,300	209,300	209,300	209,300	209,300	1,346,500
Neighborhood Traffic Calming: 5499921	Capital Projects Fund Balance	28,210	-	28,210	-	-	-	-	28,210
North Tempe Alley Improvement Project: 5405689	Capital Projects Fund Balance	-	58,095	58,095	-	-	-	-	58,095
	Federal Grant - CMAQ	-	961,105	961,105	-	-	-	-	961,105
	Project Total	-	1,019,200	1,019,200	-	-	-	-	1,019,200
Potential Federal Grants Contingency: 5406139	Federal Grants	-	865,000	865,000	-	-	-	-	865,000
Railroad Quiet Zone: 5401901	Capital Projects Fund Balance	355,000	-	355,000	-	-	-	-	355,000
	Federal Grants	-	700,000	700,000	-	-	-	-	700,000
	Project Total	355,000	700,000	1,055,000	-	-	-	-	1,055,000



Transportation Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
ROW Landscape Replacement and Revitalization: 5406149	Capital Projects Fund Balance	-	200,000	200,000	-	-	-	-	200,000
	Highway User Revenue Fund	-	100,000	100,000	300,000	300,000	300,000	300,000	1,300,000
	Project Total	-	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000
Street Sweeper: 5406159	Capital Projects Fund Balance	-	26,024	26,024	-	-	-	-	26,024
	Federal Grant - CMAQ	-	203,976	203,976	-	-	-	-	203,976
	Project Total	-	230,000	230,000	-	-	-	-	230,000
Transportation and R.O.W. Program Total		2,666,852	9,589,504	12,256,356	4,425,277	4,825,177	5,265,067	4,759,295	31,531,172

Arterial, Collector and Residential Street Asset Preservation



Project Description

This project provides for the reconstruction, resurfacing, and rehabilitation of arterial, collector and residential streets that have exceeded their design life or are in need of maintenance as part of the pavement asset management program. Improvements are necessary to ensure accessibility and safety for residents and businesses on Tempe's streets and to accommodate all modes of traffic including pedestrians, bicyclists, and vehicular traffic. Depending on the condition of the pavement structure, different maintenance treatments are available which can be used to extend the life of the system. These include (in order of cost): crack seal, seal coat, slurry seal, chip seal, Mill and Overlay and the most expensive is a reconstruction. Based on the current state of the Highway User Revenue Fund and recognizing the need to focus on maintaining the city's roadway assets, this request includes a one-time transfer from the HURF Fund balance in order to address roadways in Tempe which are in need of repair.

Reconstructing, resurfacing and rehabilitating arterial/collector/residential streets increases the strength and the durability of the roadway, while decreasing maintenance costs. This project is an important component of our strategic plan to maintain/preserve the 1241 lanes miles of asphalt roadways.

2013-14 Source of Funds

General Obligation Bonds	\$4,238,128
Highway User Revenue Fund	\$1,147,000
State LTAF Revenue	\$1,153,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$6,538,128	\$3,665,977	\$4,065,877	\$4,505,767	\$3,999,995	\$22,775,744

Estimated Project Costs

Legal / Administration	\$151,514
Land Acquisition	\$0
Permit Fees	\$287,876
Design and Engineering	\$163,650
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$21,749,326
Geotech / Material Testing	\$423,378
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$22,775,744

Project Number: 5499741

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

Bridge Maintenance



Project Description

In the report described below, ADOT identifies specific repairs and maintenance required and quantifies the estimated cost to make the repairs. The City updates these costs for construction inflation and determines current costs. The scope of work includes replacement of damaged 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 guardrail, replacement of missing bolts and nuts from railings, correction of settlement at abutments, and miscellaneous other items. This is done to assure that the bridges are safe and in good repair. The Mill Ave. and Scottsdale Rd. bridge deck joints were recently replaced, and repairs are eminent on the two Center Parkway bridges.

Federal law mandates the inspection of all bridges in the country every two (2) years. ADOT has been inspecting Tempe's bridges for many years and submitting a report to the City for required repairs and maintenance. Currently, ADOT inspects 32 bridges for the City in which all are at least twenty years old or older. 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 2013.

2013-14 Source of Funds

General Obligation Bonds	\$418,374
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$418,374	\$250,000	\$250,000	\$250,000	\$250,000	\$1,418,374

Estimated Project Costs

Legal / Administration	\$10,000
Land Acquisition	\$0
Permit Fees	\$35,000
Design and Engineering	\$120,000
Survey / Staking	\$10,000
Construction Management	\$70,000
Furnishings / Equipment	\$0
Construction / Improvement	\$1,163,374
Geotech / Material Testing	\$10,000
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$1,418,374

Project Number: 5499891

Estimated Start Date: 07/01/2013

Estimated Completion Date: Ongoing

Broadway / Priest Improvements



Project Description

This project will construct safety improvements including a widened eastbound right turn lane, ADA sidewalk ramp improvements, and a southbound bus pull-out. Costs for design and construction are being split between transportation pavement funds, transit bus pull-out funds, and Highway Safety Improvement Program (HSIP) grant funds. The HSIP grant funds total \$215,946 for construction. The \$2,801 identified below is needed for post-construction services.

The proposed improvements will provide large trucks with a full-sized right-turn lane (currently only 8-foot in width) and provide a bus pull-out to remove stopped buses from the southbound flow of traffic. Broadway Road and Priest Drive both serve as major arterials in the city. The combined average daily entering volume of this intersection has been measured at nearly 62,000 vehicles. This close proximity to a major freeway, coupled with the large amount of commercial and industrial centers in the area, results in a heavy volume of large truck traffic. These measures, along with the recently constructed traffic signals and additional pavement improvements, will likely reduce the number of crashes occurring at the intersection and will benefit many users of the regional transportation system including pedestrians, riders of transit and the general motoring public.

2013-14 Source of Funds

Capital Projects Fund Balance	\$15,110
Federal Grant - HISP	\$203,637

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$218,747	\$0	\$0	\$0	\$0	\$218,747

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$2,801
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$215,946
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$218,747

Project Number: 5403401
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Evergreen Alley Improvement Project



Project Description

This project will supplement the city's ongoing alley maintenance program. The project will include removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys within the Evergreen Neighborhood. This project would stabilize approximately 2.7% of the city's alleys which equates to the completion of approximately 4.5 of the 165 miles of alleys in the City. The improvement will include the areas bounded by Broadway Rd, the Price Fwy, Southern Ave, and the eastern city limits. The primary environmental benefit derived from the project is a reduction in dust emissions due to activity in the alley. The project is approximately 94% CMAQ grant funded.

Funding this project will allow the city of Tempe to continue to reduce PM 10 emissions. The Evergreen 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 Scottsdale, and due to the fact that it is close to the County's PM-10 air quality monitoring station in South Scottsdale.

2013-14 Source of Funds

Capital Projects Fund Balance	\$29,140
Federal Grants - CMAQ	\$482,057

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$511,197	\$0	\$0	\$0	\$0	\$511,197

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	\$511,197
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$511,197

Project Number: 5406109
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Holdeman Alley Improvement Project



Project Description

This project will supplement the city's ongoing alley maintenance program. The project will include removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys within the Holdeman Neighborhood. This project would stabilize approximately 2.5% of the city's alleys which equates to the completion of 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 project is approximately 94% CMAQ grant funded.

Funding this project will allow the city of Tempe to continue to reduce PM 10 emissions. 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.

2013-14 Source of Funds

Capital Projects Fund Balance	\$32,103
Federal Grant - CMAQ	\$531,097

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$563,200	\$0	\$0	\$0	\$0	\$563,200

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: 5406119
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Minor Concrete Improvements



Project Description

This project supplements the City's concrete program and the strategy of utilizing city forces (two employees) to handle smaller less complex jobs. This project will provide for peak demands and emergency replacement of broken curbs, gutters, and sidewalks throughout the city. Other uses of the project include the 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 as needed. Funds for the project will allow for approximately 18,000 square feet of minor concrete repair per year.

This project provides a cost effective way of quickly repairing concrete damages of the estimated 5.0 million lineal feet of curb, gutter and sidewalk. Funding this project is crucial to the citizens by providing safe and easily traversable pedestrian access throughout the city.

2013-14 Source of Funds

General Obligation Bonds	\$509,300
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$509,300	\$209,300	\$209,300	\$209,300	\$209,300	\$1,346,500

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	\$1,346,500
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,346,500

Project Number: 5401415
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Neighborhood Traffic Calming



Project Description

This project provides the Transportation Engineering and Operations Division with resources to strengthen its ability to address neighborhood traffic concerns, such as the installation of traffic calming devices, including speed humps.

Currently, three street segments have qualified for the installation of speed humps and all necessary requirements of the program have been met.

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	\$28,210
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total \$28,210

Project Number: 5499921

Estimated Start Date: Ongoing

Estimated Completion Date: Ongoing

2013-14 Source of Funds

Capital Projects Fund Balance \$28,210

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$28,210	\$0	\$0	\$0	\$0	\$28,210

North Tempe Alley Improvement Project



Project Description

This project will supplement the city's ongoing alley maintenance program. The project will include removing soil fines and old soil material and replacing with recycled asphalt (RAP) from wall to wall in alleys within the North Tempe Neighborhood. 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, 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 project is approximately 94% CMAQ grant funded.

Funding this project will allow the city of Tempe to continue to reduce PM 10 emissions. 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.

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	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$28,200

Total \$1,019,200

Project Number: 5406129

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

2013-14 Source of Funds

Capital Projects Fund Balance \$58,095

Federal Grant - CMAQ \$961,105

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,019,200	\$0	\$0	\$0	\$0	\$1,019,200

Potential Federal Grants Contingency



Project Description

This Project will create additional spending authority for federal grants that may be available during FY2013-14. The City must account for potential federal grants that could be secured and that need to be spent within 2013-2014.

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	\$865,000
Total	\$865,000

2013-14 Source of Funds

Federal Grants	\$865,000
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Project Number: 5406139
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$865,000	\$0	\$0	\$0	\$0	\$865,000

Railroad Quiet Zone



Project Description

In January 2012, the City of Tempe, in conjunction with the Union Pacific Railroad and the regulatory agencies of the Federal Railroad Administration (FRA) and the Arizona Corporation Commission (ACC), established a railroad quiet zone in Tempe. This established quiet zone includes the mainline portion of the Union Pacific Railroad north of Broadway Road from our city limit with Phoenix to our city limit with Mesa.

This capital project would extend the quiet zone along the six mile Union Pacific Railroad industrial spur line which begins at the 13th Street railroad crossing immediately east of Farmer Avenue, traveling south to the Warner Road crossing approximately one quarter mile west of Kyrene Road.

The establishment of the industrial spur quiet zone would prohibit the sounding of train horns at all highway rail crossing except in certain safety situations as determined by the train engineer. It is the intent of the project to establish quiet zone conditions at the Broadway Rd., Alameda Dr., Southern Ave., Baseline Rd., Guadalupe Rd., Divot Dr., Elliot Rd., Carver Lane and Warner Rd. rail crossings along the spur line.

2013-14 Source of Funds

Capital Projects Fund Balance	\$355,000
Federal Grants	\$700,000

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	\$1,055,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,055,000

Project Number: 5401901
Estimated Start Date: Ongoing
Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$1,055,000	\$0	\$0	\$0	\$0	\$1,055,000

ROW Landscape Replacement and Revitalization



Project Description

This project supports the replacement and revitalization of landscape within the rights of way (ROW) along the City's arterial streets. The City of Tempe's right of way and median landscape consists of an eclectic mix of trees and shrubs covering over 5 million square feet of landscape maintained. There is an inventory of over 7500 city street trees valued at over \$2.5 million which also serves to support clean air and clean water goals. There is a mixture of public, home owner association and commercial development properties that blend together along city arterials. In many areas the ROW landscaping is showing signs of decline including plant stress and decimation. In these areas the original landscape intent has been lost and sparsely located plant materials remain.

2013-14 Source of Funds

Capital Projects Fund Balance	\$200,000
Highway User Revenue Fund	\$100,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$1,500,000

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	\$1,500,000
Total	\$1,500,000

Project Number: 5406149
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Street Sweeper



Project Description

The Traffic Engineering and Operations Division is tasked with the maintenance and cleaning/sweeping of 1241 lane miles of Tempe streets as part of the city's responsibility to minimize the amount of debris and pollutants that are discharged into the storm sewer system. As part of this program, arterial streets are swept every 8 to 12 days and residential, collector and industrial streets are swept once every month. This request will allow the city to procure one street sweeper needed to address the requirements of the Storm water Management Plan as well as keep the streets of Tempe safe and clean. The Traffic Engineering and Operations Division has applied for CMAQ funds to assist in procuring this street sweeper.

A four-person team is currently responsible for sweeping the street system necessary to meet the requirements of the Storm water Management Plan. In order to maintain operations 6 days a week and to stay up with current demands, the Division has had to retain a fleet of 6 sweepers due to the amount of down time and repairs needed for the aging fleet. Over time, through the use of grant funds, the city has been able to replace 3 of its 6 street sweepers. This grant, if approved, will provide for the replacement of the 4th sweeper and will ultimately allow for a reduction in the number of sweepers in the fleet.

2013-14 Source of Funds

Capital Projects Fund Balance	\$26,024
Federal Grants - CMAQ	\$203,976

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$230,000	\$0	\$0	\$0	\$0	\$230,000

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	\$230,000
Total	\$230,000

Project Number: 5406159
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Traffic Signals and Street Lighting Program CIP Projects

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
East Valley Arterial Congestion Monitoring:									
NA	General Obligation Bonds	-	-	-	32,967	9,997	-	-	42,964
	Federal Grant - CMAQ	-	-	-	-	165,388	-	-	165,388
	Project Total	-	-	-	32,967	175,385	-	-	208,352
Fiber Optic Installation and ITS Improv:									
Broadway/I-10 and Rio Salado/L101: 6906169									
	Capital Projects Fund Balance	-	15,000	15,000	-	-	-	-	15,000
	General Obligation Bonds	-	-	-	-	17,394	-	-	17,394
	Federal Grant - CMAQ	-	36,000	36,000	-	287,751	-	-	323,751
	Project Total	-	51,000	51,000	-	305,145	-	-	356,145
Fiber Optic Installation and ITS Improv: Elliot, Guadalupe and Warner: 6906179									
	Capital Projects Fund Balance	-	60,000	60,000	-	-	-	-	60,000
	General Obligation Bonds	-	-	-	-	164,286	-	-	164,286
	Federal Grant - CMAQ	-	-	-	-	383,333	-	-	383,333
	Project Total	-	60,000	60,000	-	547,619	-	-	607,619
Fiber Optic Installation: Downtown: 6904479	Federal Grant - CMAQ	100,000	-	100,000	-	-	-	-	100,000
Fiber Optic Installation: Rural Road North: NA									
	General Obligation Bonds	-	-	-	141,000	-	59,456	-	200,456
	Federal Grant - CMAQ	-	-	-	-	-	983,625	-	983,625
	Project Total	-	-	-	141,000	-	1,043,081	-	1,184,081
Fiber Optic Installation: Rural Road South: NA									
	General Obligation Bonds	-	-	-	-	19,000	-	53,638	72,638
	Federal Grant - CMAQ	-	-	-	-	-	-	887,390	887,390
	Project Total	-	-	-	-	19,000	-	941,028	960,028
HSIP Safety Program Phase 1: 6905429	Federal Grant - HSIP	149,877	48,198	198,075	-	-	-	-	198,075
HSIP Safety Program Phase 2: 6905279									
	Capital Projects Fund Balance	-	5,000	5,000	-	-	-	-	5,000
	Federal Grant - HSIP	76,800	-	76,800	-	-	-	-	76,800
	Project Total	76,800	5,000	81,800	-	-	-	-	81,800
HSIP Safety Program Phase 3 - 5: 6906199									
	Capital Projects Fund Balance	-	10,000	10,000	-	-	-	-	10,000
	General Obligation Bonds	-	-	-	10,000	10,000	-	-	20,000
	Federal Grant - HSIP	-	106,917	106,917	106,917	106,917	-	-	320,751
	Project Total	-	116,917	116,917	116,917	116,917	-	-	350,751



Traffic Signals and Street Lighting Program CIP Projects (continued)

Project Name & Number	Funding Source(s)	Capital Budget Re-appropriations	New 2013-14 Capital Budget Appropriations	Total 2013-14 Capital Budget Appropriations	Additional Projected Needs				Total 5-Year Program
					2014-15	2015-16	2016-17	2017-18	
New Signals / Safety Upgrades: 6906209	Highway User Revenue Fund	-	180,000	180,000	-	-	-	-	180,000
	Developer Assistance	-	180,000	180,000	-	-	-	-	180,000
	Project Total	-	360,000	360,000	-	-	-	-	360,000
Street Light Pole Structural Replacement: 6999849	General Obligation Bonds	-	250,000	250,000	250,000	250,000	250,000	250,000	1,250,000
Street Light Upgrade / New Install: 6999869	General Obligation Bonds	185,563	250,000	435,563	250,000	250,000	250,000	250,000	1,435,563
Traffic Control Cabinets and Hardware Replacement: 6906219	Capital Projects Fund Balance	-	43,890	43,890	-	-	-	-	43,890
	Federal Grant - CMAQ	-	726,110	726,110	-	-	-	-	726,110
	Project Total	-	770,000	770,000	-	-	-	-	770,000
Traffic Signal Foundation: 6903382	General Obligation Bonds	47,560	100,000	147,560	150,000	150,000	150,000	150,000	747,560
Traffic Signal Green Sign Face Replacement: 6906229	General Obligation Bonds	-	70,000	70,000	70,000	70,000	70,000	70,000	350,000
Wireless Communication & CCTV Monitoring: 6903639	General Obligation Bonds	93,600	-	93,600	-	-	-	-	93,600
	Federal Grant - CMAQ	218,400	-	218,400	-	-	-	-	218,400
	Project Total	312,000	-	312,000	-	-	-	-	312,000
Traffic Signals and Street Lighting Program Total		871,800	2,081,115	2,952,915	1,010,884	1,884,066	1,763,081	1,661,028	9,271,974

East Valley Arterial Congestion Monitoring



Project Description

Purchase and install 91 Anonymous Re-identification (ARID) Bluetooth devices in existing signal cabinets across the East Valley including 24 in Tempe. The project includes central control software for each partnering agency's TMC. The data from the devices will be shared via the Regional Archive Data System (RADS) and disseminated via a web map which may graphically display speed or congestion levels. Travel times to/from various destinations will also be calculated using the shared agency data as well as existing ADOT data. Travel times could be disseminated via the web or an arterial dynamic message sign.

This project will allow partnering agencies to monitor congestion across jurisdictional boundaries and to provide real-time traveler information. Mesa and Chandler have previously installed ARID devices. This project expands their existing coverage and expands the coverage into Gilbert and Tempe. The devices will facilitate the calculation of travel times across city boundaries and incorporate ADOT data to provide travelers with information for trip making decisions. The information will be available to the public in the form of an on-line map on the City's web page.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$32,967	\$175,385	\$0	\$0	\$208,352

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$32,967
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$175,385
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$208,352

Project Number: NA
Estimated Start Date: 07/01/2014
Estimated Completion Date: 06/30/2016

Fiber Optic Installation and ITS Improv: Broadway/I-10 and Rio Salado/L101



Project Description

To provide the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions both on the arterial streets and at the freeway ramp intersections to reduce delay and improve traffic flow. The project will install new conduit and make use of existing conduit to provide fiber connection from ADOT's node 12 building to the signals at Broadway and Ramp K, Broadway and 48th St, and 48th St and Ramp C. Wireless radios will be installed at Broadway and Ramp L, 48th and Cotton Center, 48th and Alameda, and 48th and Southern. High speed DSL copper communications will be installed along Rio Salado and McClintock. Communications devices to be installed include fiber optic cable, pull boxes, splice closure, patch panels, fiber optic jumper cables, VDSL switches, and Ethernet switches. The project also includes purchasing and installing 22 CCTV cameras for each interchange intersection in Tempe.

2013-14 Source of Funds

Capital Projects Fund Balance \$15,000
 Federal Grant - CMAQ \$36,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$51,000	\$0	\$305,145	\$0	\$0	\$356,145

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$51,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$305,145
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$356,145

Project Number: 6906169
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2016

Fiber Optic Installation and ITS Improv: Elliot, Guadalupe and Warner



Project Description

Tempe currently uses leases phone lines to facilitate traffic signal operations. 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. CCTVs will be placed at the major intersections for traffic monitoring. Seventy percent of this project will be funded through a CMAQ grant as part of the MAG TIP.

The project will be used to monitor and adjust signal timing through centralized command and control strategies to improve traffic flow and minimize congestion along the corridors of Elliot Rd, Guadalupe Rd, and Warner Rd. This project promotes multi-jurisdictional congestion relief by providing a platform to better coordinate traffic signals as well as responding to accidents/incidents in a more cooperative and efficient process.

2013-14 Source of Funds

Capital Projects Fund Balance	\$60,000
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Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$60,000
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$0
Construction / Improvement	\$547,619
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0

Total	\$607,619
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Project Number: 6906179

Estimated Start Date: 07/01/2015

Estimated Completion Date: 06/30/2016

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$60,000	\$0	\$547,619	\$0	\$0	\$607,619

Fiber Optic Installation: Downtown



Project Description

Tempe currently uses leased phone lines to facilitate traffic signal operations. This project is currently under construction and will install fiber optic communications media to each signalized intersection along University Dr from Mill to McClintock utilizing existing fiber conduits resulting in 18 more signals being on city-owned infrastructure and reducing the leased phone line costs (approximately \$7400/yr). 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. This upgrade will require minimal design and construction due to conduits already being in place and the close proximity of the terminating traffic signal control cabinets to the ADOT fiber optic backbone. After completion of this project, one-quarter of the signal system (58 signals out of 221) will be on fiber.

Additionally, this project mitigates congestion through enhanced regional multi-agency signal coordination and maximizes the use of existing communications infrastructure. 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.

2013-14 Source of Funds

Federal Grant - CMAQ	\$100,000
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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
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Project Number: 6904479

Estimated Start Date: 10/01/2012

Estimated Completion Date: 06/30/2014

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$100,000	\$0	\$0	\$0	\$0	\$100,000

Fiber Optic Installation: Rural Road North



Project Description

The project will install conduit and fiber in the Rural Rd corridor from US 60 north. Conduit location will vary along the route and could include installation under the roadway, under LRT, and on a bridge. Devices to be installed to complete the system include pull boxes, splice closures, patch panels, fiber optic jumper cables, and Ethernet switches. The installation will be based on the overall design of the Rural Rd fiber corridor which will be funded locally.

The project will provide the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions. The ultimate goal is to have a hybrid fiber/wireless network that will increase communications bandwidth, eliminate the need for telephone lease lines, and improve system performance. The installation of fiber will provide an efficient communication corridor that will improve real time traffic signal operations, improve traffic flow, and decrease delay.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$141,000	\$0	\$1,043,081	\$0	\$1,184,081

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$141,000
Survey / Staking	\$0
Construction Management	\$1,043,081
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	\$1,184,081

Project Number: NA
Estimated Start Date: 07/01/2014
Estimated Completion Date: 06/30/2017

Fiber Optic Installation: Rural Road South



Project Description

The project will install conduit and fiber in the Rural Rd corridor from US 60 south to the City limits. Conduit location will vary along the route and could include installation under the roadway or behind sidewalk. Devices to be installed to complete the system include pull boxes, splice closures, patch panels, fiber optic jumper cables, and Ethernet switches. The installation will be based on the overall design of the Rural Rd fiber corridor which will be funded locally and completed in conjunction with the Rural Rd Fiber North project.

This project provides the City with a reliable communications network to be able to view, monitor, and actively manage traffic conditions. The ultimate goal is to have a hybrid fiber/wireless network that will increase communications bandwidth, eliminate the need for telephone lease lines, and improve system performance. The installation of fiber will provide a reliable and efficient communication corridor that will improve real time traffic signal operations, improve traffic flow, and decrease delay.

2013-14 Source of Funds

NA

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$0	\$0	\$19,000	\$0	\$941,028	\$960,028

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$19,000
Survey / Staking	\$0
Construction Management	\$941,028
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	\$960,028

Project Number: NA
Estimated Start Date: 07/01/2015
Estimated Completion Date: 06/30/2018

HSIP Safety Program Phase 1



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade pedestrian signal heads to pedestrian countdown timers at 22 high-pedestrian traffic intersections in the City of Tempe. This accounts for 10% of the total signal system. In addition, in order to improve traffic signal visibility to motorists, this project will also procure equipment needed to install additional LED traffic signal heads at 33 intersections (15% of the signal system) and upgrade existing signal heads (8-inch diameter to 12-inch diameter LED indications) at 36 intersections (16% of the signal system) in the City of Tempe.

Research has demonstrated that installation of pedestrian countdown timers can result in a 48% reduction in pedestrian related crashes. Additional signal heads and larger signal indications improve the overall visibility of traffic signals to motorists, reducing the risk of red light running and rear end crashes. Research has demonstrated that adding additional signal heads and upgrading to larger signal indications can result in a reduction in overall crashes of 27% and 10% respectively.

2013-14 Source of Funds

Federal Grants - HSIP \$198,075

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$198,075	\$0	\$0	\$0	\$0	\$198,075

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	\$198,075
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$198,075

Project Number: 6905429
Estimated Start Date: 07/01/2012
Estimated Completion Date: 06/30/2014

HSIP Safety Program Phase 2



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all pedestrian signal heads at all 22 intersections (10% of the system) along the light rail alignment in the City of Tempe to pedestrian countdown timers. In addition, in order to improve emergency vehicle response times and safety of first-responders, this project will also procure equipment needed to upgrade 20 intersections (9% of the system) along the Rural Road and McClintock Drive corridors with new emergency preemption cards.

Research has demonstrated that installation of pedestrian countdown timers can result in a 48% reduction in pedestrian related crashes. Emergency preemption cards improve emergency response times and improve safety for Police and Fire personnel by allowing the traffic signals to change based on the needs of these first-responders. Research has demonstrated that properly functioning emergency preemption can result in a 30% reduction in overall crashes.

2013-14 Source of Funds

Capital Projects Fund Balance \$5,000
 Federal Grant - HSIP \$76,800

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$81,800	\$0	\$0	\$0	\$0	\$81,800

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	\$5,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$76,800
Total	\$81,800

Project Number: 6905279
Estimated Start Date: 07/01/2012
Estimated Completion Date: 06/30/2014

HSIP Safety Program Phase 3 - 5



Project Description

Nationwide research has demonstrated that there are significant safety benefits resulting from the installation of pedestrian countdown timers at signalized intersections. As part of a continuing transportation safety program this project will procure equipment needed to upgrade all remaining pedestrian signal heads in the City of Tempe to pedestrian countdown timers. Phase 3 will upgrade 52 intersections (23% of the system), Phase 4 will upgrade 51 intersections (23% of the system) and Phase 5 will upgrade 35 intersections (16% of the system). In addition, in order to better serve our visually impaired community, this project will also procure equipment needed to upgrade 11 intersections along the light rail alignment and near Tempe high schools with audible pedestrian push-buttons.

Research has demonstrated that installation of pedestrian countdown timers can result in a 48% reduction in pedestrian related crashes. Audible pedestrian push-buttons provide valuable information to the visually impaired community so that they can more safely take advantage of the City of Tempe's diverse transportation system.

2013-14 Source of Funds

Capital Projects Fund Balance	\$10,000
Federal Grants - HSIP	\$106,917

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$116,917	\$116,917	\$116,917	\$0	\$0	\$350,751

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	\$30,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$320,751
Total	\$350,751

Project Number: 6906199
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2016

New Signals / Safety Upgrades



Project Description

This project provides for the installation of new traffic signals and associated equipment based on traffic engineering studies and warrants. It will also allow for replacement of existing outdated signals and address all safety updates to meet state and federal regulations. A modular intersection costs 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 221 signalized intersections every other year and/or add one new traffic signal based on traffic engineering warrants.

The purpose of this project is to manage traffic safely and efficiently by installing new signals and/or modifying existing signal indications based on traffic engineering studies.

2013-14 Source of Funds

Highway User Revenue Fund	\$180,000
Developer Assistance	\$180,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$360,000	\$0	\$0	\$0	\$0	\$360,000

Estimated Project Costs

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

Project Number: 6906209
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

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 streetlight pole foundation standards. Of the 11,080 streetlight poles there are approximately 3,605 direct buried street light poles left in our inventory that need to be replaced at a rate of 100-150 per year (based on their corrosion factor as provided by the study completed in October 2011).

This project proactively provides structurally sound streetlight poles that conform to our engineering standards and that will also enhance our long term goal of ensuring landscape irrigation does not impact the structural integrity of our infrastructure and will help manage our potential risk for existing rusted street light poles. The streetlight poles with a foundation have a life expectancy of 30+ years compared to a direct buried pole that may only have a 15-20 year life span.

2013-14 Source of Funds

General Obligation Bonds	\$250,000
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$250,000	\$250,000	\$250,000	\$250,000	\$250,000	\$1,250,000

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	\$1,250,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,250,000

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

Street Light Upgrade / New Install



Project Description

This project allows staff to strategically prioritize improvements to the street light system including the installation of arterial dual-side street lights and residential street lights per citizen request, as well as upgrading approximately 4000 existing inefficient Mercury Vapor and High Pressure Sodium streetlight luminaires to environmentally friendly and energy efficient luminaires throughout the city. Currently Identified locations for upgrades include the following:

- South side Warner Rd between Bonarden and Juniper (13) lights
- South side of Southern Ave between Price Rd and East city limits (15) lights

2013-14 Source of Funds

General Obligation Bonds	\$435,563
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$435,563	\$250,000	\$250,000	\$250,000	\$250,000	\$1,435,563

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	\$1,435,563
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$1,435,563

Project Number: 6999869
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

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 of the city's 222 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. Seventy percent of this project will be funded through a CMAQ grant as part of the MAG TIP.

This project will allow Tempe to replace its aging traffic signal cabinet inventory with new signal cabinets, which will reduce maintenance costs in the long term and improve the reliability and safety of the traffic signal control operation, thus minimizing our 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.

2013-14 Source of Funds

Capital Projects Fund Balance	\$43,890
Federal Grant - CMAQ	\$726,110

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$770,000	\$0	\$0	\$0	\$0	\$770,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$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: 6906219
Estimated Start Date: 07/01/2013
Estimated Completion Date: 06/30/2014

Traffic Signal Foundation



Project Description

The City's transportation system includes 222 signalized intersections and associated infrastructure to support the safe movement of all modes of travel in Tempe. This project provides for the installation of new traffic signals and installation/repair of existing equipment related to the traffic signal system and as warranted by traffic engineering studies. In addition, this project provides for the management and replacement of underground signal system assets which have been identified for repair and replacement.

This project is necessary in order to keep the signal system functioning properly by supplementing our existing traffic signal construction program (2 full time employees) with installing underground infrastructure which may include underground items such as conduit repair and replacements, new traffic signal underground j-boxes and new signal foundations.

2013-14 Source of Funds

General Obligation Bonds	\$147,560
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New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$147,560	\$150,000	\$150,000	\$150,000	\$150,000	\$747,560

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	\$747,560
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$747,560

Project Number: 6903382
Estimated Start Date: Ongoing
Estimated Completion Date: Ongoing

Traffic Signal Green Sign Face Replacement



Project Description

This project will allow for the replacement of the traffic signal internally illuminated green signs which have exceeded their expected life. As part of the development of the Traffic Engineering and Operations Division Asset Management Plan, staff have identified the green signs as an asset in the system for inclusion in the plan and development of a program for the systematic replacement of the signs.

Current traffic signal internally illuminated green signs have been in place for at least 15+ years and have exceeded their product life cycle. As part of a continuing transportation asset management program, this project will begin the process of replacing sign faces (8 per intersection) at a rate of 12 intersections per year with a total of 90 modular signalized intersections to complete. This project will allow Tempe to replace its aging green sign faces, which will increase visibility and improve safety for the motoring public.

2013-14 Source of Funds

General Obligation Bonds \$70,000

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$70,000	\$70,000	\$70,000	\$70,000	\$70,000	\$350,000

Estimated Project Costs

Legal / Administration	\$0
Land Acquisition	\$0
Permit Fees	\$0
Design and Engineering	\$0
Survey / Staking	\$0
Construction Management	\$0
Furnishings / Equipment	\$350,000
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: 6906229

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

Wireless Communication & CCTV Monitoring



Project Description

This project will install wireless communications media for command and control operations and Closed Circuit Television (CCTV) monitoring at 30 out of our 222 traffic signals. The project will be used to adjust signal timing to improve traffic flow at congested intersections. We expect to kick-off this project in FY12/13, however due to unknown construction timelines we are requesting that the funds be rolled over.

The wireless communications will reduce the use and cost of leased lines for signal communication back to the TMC. In addition, it will provide a higher transmission speed for transferring data and viewing camera images. The CCTV monitoring will allow traffic conditions to be monitored from the TMC during incidents, special events, construction, and congested times. This real time monitoring provides the advantage of being able to manage signals from the TMC based on what they see happening in the field. The CCTV monitoring can also be used to observe resident concerns that are being studied by Traffic Engineering staff.

2013-14 Source of Funds

General Obligation Bonds \$93,600
Federal Grant - CMAQ \$218,400

New Appropriations by Fiscal Year

2013-14	2014-15	2015-16	2016-17	2017-18	Total 5 Year
\$312,000	\$0	\$0	\$0	\$0	\$312,000

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	\$312,000
Geotech / Material Testing	\$0
Utility Relocation Fees	\$0
Utility Undergrounding	\$0
ITD / Telecommunications	\$0
Other Project Costs	\$0
Total	\$312,000

Project Number: 6903639

Estimated Start Date: 07/01/2013

Estimated Completion Date: 06/30/2014

