

City of Glendale
Capital Improvement Plan (CIP)
FY 2018-2027



City Council Workshop
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**City of Glendale
Capital Improvement Plan FY2018-2027**

Page

Capital Improvements Plan Preparation1

Summary by Funding Type.....10

Fund Summaries

Bond Construction Funds

Street/Parking

 1980 – Street/Parking Bonds.....11

Open Space & Trails

 2140 – Open Space/Trails Construction.....14

Parks

 2060 – Parks Construction18

Library

 2160 – Library Construction.....26

Public Safety

 2040 – Public Safety Construction.....27

Cultural Facilities/Historical Preservation

 2130 – Cultural Facility Construction.....31

Economic Development Construction

 2100 – Economic Development Construction.....32

Flood Control

 2180 – Flood Control Construction.....33

Development Impact Fee Funds

Roadway Improvements

 1600+ – DIF – Roadway Improvements.....36

Open Space

 1520 – DIF – Citywide Open Space.....39

Parks & Recreation

 1460+ – DIF – Citywide Parks.....41

 1480+ – DIF – Citywide Rec Facility.....42

Parks & Recreation

 1540+ – DIF – Park Dev Zone 1.....46

City of Glendale
Capital Improvement Plan FY2018-2027

1560+ – DIF – Park Dev Zone 2.....	49
1580+ – DIF – Park Dev Zone 3.....	50
Library	
1380 – DIF – Library Buildings.....	51
1500+ – DIF – Libraries.....	52
Public Safety	
1420+ – DIF-Fire Protection Facilities.....	54
Enterprise and other Funds	
Water & Sewer	
2360 – Water & Sewer.....	55
2400 – Water.....	59
2420 – Sewer.....	69
Transportation	
2210 – Transportation Construction.....	76
2000 – HURF/Street Bonds.....	86
1650 – Transportation Grants.....	89
Solid Waste	
2480 – Sanitation.....	90
Landfill	
2440 – Landfill.....	93
Airport Capital Grants	
2120 – Airport Capital Grants.....	101
Other Capital Project Funds	
1840 – Other Federal and State Grants.....	103
2070 – General Government.....	104
2593– City-Wide ERP Solution.....	114
1220 – Arts Commission.....	115

What are Capital Improvements?

The Capital Improvement Plan (CIP) is a ten-year roadmap for creating, maintaining and paying for Glendale's present and future infrastructure needs. The CIP outlines project costs, funding sources and estimated future operating costs associated with each capital improvement. The plan is designed to ensure that capital improvements will be made when and where they are needed, and that the city will have the funds to pay for and maintain them.

Capital improvement projects are non-routine capital expenditures that generally cost more than \$50,000 and result in the purchase of equipment, acquisition of land, design and construction of new assets, or the renovation, rehabilitation or expansion of existing capital assets. Capital projects usually have an expected useful life of at least five years.

Capital improvements make up the bricks and mortar, or infrastructure that all cities must have in place to provide essential and quality of life services to current and future residents, businesses and visitors. They also are designed to prevent the deterioration of the city's existing infrastructure, and respond to and anticipate the future growth of the city. A wide range of projects comprise capital improvements as illustrated by the examples below:

- fire and police stations;
- libraries, court facilities and office buildings;
- parks, trails, open space, pools, recreation centers and other related facilities;
- water and wastewater treatment plants, transmission pipes, storage facilities, odor control facilities and pump stations;
- roads, bridges, traffic signals and other traffic control devices including fiber optic infrastructure needed for the operation of intelligent transportation systems;
- landscape beautification projects;
- computer software and hardware systems other than personal computers and printers;
- flood control drainage channels, storm drains and retention basins;
- and major equipment purchases such as landfill compactors, street sweepers and sanitation trucks.

Glendale, like many cities in the Phoenix metropolitan area, faces a special set of complex problems because much of the city is built out except for scattered areas requiring infill development and the far western edge of the city, which is not built out. These cities need to build new roads, add public amenities such as parks and expand public safety services to accommodate new residential and non-residential development. They also must simultaneously maintain, replace, rehabilitate and/or upgrade existing capital assets such as roads, parks, buildings and underground pipes for the water and sewer system.

Paying for Capital Improvements

In many respects, the city planning process for selecting, scheduling and financing capital improvements parallels the way an individual might plan for buying a new house or car. This process entails an assessment of many valid competing needs, a determination of priorities, an evaluation of operating costs as well as financing options for the capital costs, and an establishment of realistic completion timeframes. The analysis process involves many familiar questions.

- Can I wait another year or two?
- Are there other alternatives such as remodeling, using public transit or carpooling?
- What other purchases will I need to forego?
- What can I afford and how can I pay for it?
- Do I need outside financing and what will it cost?
- Will there be additional monthly costs associated with the purchase?

If the purchase plan moves forward, a decision must be made about the down payment. A good planner might have started a replacement fund a few years ago in anticipation of the need. Other cash sources might include a savings account or a rainy day emergency fund. The city, just like most families, needs to find longer-term financing to cover certain costs for capital improvements. Repayment of the loan might require cutting other expenses like eating at restaurants or increasing income by taking a second part-time job. An unanticipated inheritance may speed up the timetable; a negative event, such as a flood or unanticipated medical expense, might delay the plan.

Similarly, most large capital improvements cannot be financed solely from a single year's revenue stream or by simply increasing income or decreasing expenses.

Guidelines and Policies Used in Developing the CIP

City Council's strategic goals and financial policies provide the broad parameters for development of the annual capital plan. For example, Council's financial policies on Capital Asset and Debt Management state that the 10-year capital plan will address capital needs in the following order:

- A. Improve existing assets
- B. Replace existing assets
- C. Construct new assets

These financial policies further state that projected life cycle costing will be evaluated for projects considered for funding in the near future. Life cycle costing is a method of calculating the total cost of a physical asset throughout its life. It is concerned with all costs of ownership

and takes into account the costs incurred by an asset from its acquisition to its disposal, including design, installation, operating and maintenance costs.

Additional considerations include the following:

- Does a project qualify as a capital project, i.e., cost more than \$50,000 and have an expected useful life of at least five years?
- Does a project satisfactorily address all federal, state and city legal and financial requirements?
- Does a project support the city's favorable investment ratings and financial integrity?
- Does a project support the city's goal of ensuring all geographic areas of the city have comparable quality in the types of services that are defined in the Public Facilities section of the General Plan?
- Does a project prevent the deterioration of the city's existing infrastructure?
- Does a project respond to and, if possible, anticipate future growth in the city?
- Does a project encourage and sustain quality economic development?
- Can a project be financed through growth in the tax base or development fees, when possible, if constructed in response to residential or commercial development?
- Is a project responsive to the needs of residents and businesses within the constraints of reasonable taxes and fees?
- Does a project leverage funds provided by other units of government (e.g., Maricopa County Flood Control District, Arizona Department of Transportation, etc.) where appropriate?

Master plans also help determine which projects should be included in the CIP and the timeframes in which the projects should be completed. For example, the Parks and Recreation Master Plan's guidelines for neighborhood parks include 3.3 acres of park land per 1,000 residents. When population growth causes an area to exceed this threshold, that neighborhood will rise on the capital plan's priority list for park development. The Water and Sewer Master Plan, Parks Master Plan, Storm Water Master Plan, GO Transportation Plan and five-year plans for landfill and solid waste collection services also provide valuable guidance in the preparation of the CIP.

Economic forecasts also are a critical source of information and guidance throughout the capital planning process. The forecasts assess external factors such as whether the local economy is growing or contracting, population growth, inflation for construction materials, the value of land, and other variables that may affect the city's ability to finance needed services and capital projects.

Glendale's Annual CIP Development Process

In conjunction with the annual budgeting process, the Finance and Technology Department manages the citywide process of revising and updating the city's capital plan. City staff members from all departments participate in an extensive review of projects in the existing

plan and the identification of new projects for inclusion in the CIP. The City Council's commitment to the needs and desires of Glendale's citizens is a critical factor considered during the capital planning process, as well as compliance with legal limits and financial resources.

Once projects are selected for inclusion in the capital plan, decisions must be made about which projects should be recommended for inclusion in the first five years of the plan. Determining how and when to schedule projects is a complicated process. It must take into account City Council's strategic goals as well as all of the variables that affect the city's ability to generate the funds to pay for these projects without jeopardizing its ability to provide routine, ongoing services and one-time or emergency services when needed.

The financial projections used to develop the CIP are based on staff's best prediction of future real estate values, construction costs, interest rates, and other relevant variables. These financial projections are jointly developed by the Finance and Technology Department and Public Works Department in conjunction with the Assistant City Manager. They are updated annually to reflect changes in the economic environment.

Although only the first year of the plan is appropriated, the first five years of the plan are financially balanced. This means the first five years of the plan

- Comply with the state's constitutional debt limits;
- Comply with the available voter authorization required for municipal bonds;
- Balance the use of incoming revenue streams with the use of fund balance, while maintaining a fund balance in compliance with bond covenants and policies regarding debt management and;
- Identify the source of revenue to finance various projects.

Financial and legal constraints make it impossible for the city to fund every project on its priority list. For example, it is not possible for the city to fund concurrently several large-scale projects that have significant operating budget impacts. Also, revenues used to pay the debt service are not limitless. Therefore, implementation timetables are established to stagger projects over time based on Council's strategic goals and the estimated financial resources expected for the future.

A critical element of financing capital projects is the ability to manage within available resources, including the overall debt incurred for past projects and any new debt for future projects. Limited staff resources to undertake new capital projects also must be considered. Capital projects often require significant time to manage effectively, and project managers in the departments typically manage several capital projects concurrently.

The city also must coordinate the timing of many of its capital projects with federal, state, county and municipal governments and outside entities. For example, street improvements are coordinated with utility companies, when possible, to minimize the amount of new street surface that must be cut to lay new or replacement utility and fiber optic lines. Also, flood

control capital improvements are coordinated with the Maricopa County Flood Control District to maximize matching funds that the district makes available for eligible projects.

The availability of unanticipated financing, such as federal or state transportation grants may cause the city to accelerate a particular project. In addition, a scheduled project may be delayed in order to take advantage of an unusual one-time opportunity such as the receipt of non-governmental grant monies.

Types of CIP Projects and Funding Sources

The ten-year CIP is developed with identified funding sources for each CIP project. For example, a street project might be funded through one or more of the following financing sources: Highway User Revenue Fund (HURF) bonds, general obligation (G.O.) bonds, federal or state grants, development impact fees (DIFs), Glendale's dedicated transportation sales tax or Glendale's general fund excise taxes. In many cases, a large or multi-year project will be financed using a mix of these funding sources.

General Obligation (G.O.) Bond Funded Projects

G.O. bonds are direct and general obligations of the city. Glendale uses G.O. bonds to fund most large-scale capital improvements except water, sewer, sanitation, landfill, many transportation-related projects and professional sports-related facilities such as the Gila River Arena, home of the National Hockey League's Arizona Coyotes, and Camelback Ranch, spring training home of the Chicago White Sox and the Los Angeles Dodgers. G.O. bonds are backed by "the full faith and credit" of the city.

Arizona State law mandates the separation of city property taxes into two components, the primary tax levy and the secondary tax levy. A municipality's secondary property tax revenue can be used only to pay the principal, interest and redemption charges on bonded indebtedness or other lawful long-term obligations that are issued or incurred for a specific capital purpose. In contrast, primary property tax revenue may be used for any lawful purpose.

There are two separate categories of G.O. bond funded projects. These categories correspond to the 6% and 20% Arizona State Constitutional limits for G.O. bonded indebtedness. Funds that have been established for the 6% category include the Economic Development, Cultural Facility, Government Facilities and Library Bond Funds. Active funds for the 20% category include the Flood Control, Open Space & Trails, Parks, Public Safety and Street/Parking Bond Funds. Water and sewer bonds are also included in the 20% category. Secondary property tax revenue can be used to pay water/sewer debt, but it is preferable for water/sewer capital debt service to be paid with water and sewer revenue.

Development Impact Fee Funded Projects

Impact fees are one-time charges to developers that are used to offset a city's capital costs resulting from new development. Developers pay Development Impact Fees (DIF) when they construct new residential and commercial developments. These fees are designed to cover a

city's increased costs for providing new or expanded infrastructure in the following categories: roadway improvements, parks, libraries, police, fire, and water/sewer.

Planning and zoning information, such as anticipated population growth and expected density of residential and commercial development, is the foundation for impact fee revenue estimates. Given this information, the city then estimates the amount of impact fee revenue available to pay for growth-related capital projects.

In a growing economic condition, a number of DIF funded projects would more likely be included in the capital plan to supplement the growth related portion of projects funded with other resources such as G.O. bonds. However with the decline in property values, and the imperativeness to pay existing G.O. debt service with secondary property tax revenue, most capital projects requiring a new issuance of G.O. bonds were deferred or moved to the last five years of the plan. DIF revenue alone rarely is sufficient to fund 100% of the cost of growth-related projects. Therefore, given these circumstances, the current capital plan reflects very little spending of impact fees.

Enterprise and Other Projects

Water and Sewer Revenue Funded Projects: Water/Sewer capital projects can be funded with a number of options including, G.O. bonds, revenue bonds, revenue obligations or cash financing. Bonds or obligations are typically used to fund larger water/sewer projects. The principal and interest for bonds and obligations will be paid from future water/sewer user fee revenue. Smaller water/sewer projects are typically cash financed. Three separate funds have been established for water/sewer projects: one fund is for water capital projects, another fund addresses sewer projects and a third fund covers capital projects that represent a mix of water and sewer projects (e.g., water reclamation projects).

Landfill Revenue Funded Projects: Landfill user fee revenues fund environmental improvements required by federal and state law as well as improvements related to constructing, extending, improving and repairing the Glendale Municipal Landfill. Materials Recovery Facility (MRF) projects and landfill equipment also are included in the landfill capital fund. Users of the Glendale Municipal Landfill include private haulers, other cities that are under contract with the city's landfill and the city's residential and commercial solid waste operations.

Solid Waste Revenue Funded Projects: Unlike Water/Sewer and Landfill, the capital plan for Sanitation is not usually funded with revenue bonds. Instead sanitation projects are funded with user revenues and cash balances. However, inter-funds loans and capital leases have been used as a funding option in the past.

Transportation Sales Tax Funded Projects: On November 6, 2001, Glendale held a special election where voters passed a new half-cent sales tax to fund the transportation plan. The transportation plan was created to improve service for all modes of transportation including public transit, motorized vehicle, bicycle, pedestrian and aviation. Of the 13,019 ballots cast for this proposition, 64% were in favor and 36% were in opposition. By their votes, Glendale

residents indicated that having transportation choices and being connected to regional activities and employment centers were important to maintaining Glendale's high quality of life.

Everyone who shops in Glendale pays the half-cent sales tax that became effective January 1, 2002. The revenues are dedicated to funding the implementation of the *Glendale Onboard! (GO Transportation Plan)*. The sales tax has no termination date. The transportation capital and operating budgets are balanced yearly. Transportation projects can either be funded with Transportation Revenue Obligations or cash financed. The principal and interest on revenue obligations will be covered with future transportation sales tax revenue.

Street (HURF) Revenue Funded Projects: The State of Arizona shares with cities a portion of the revenues it collects from highway user fees. This revenue is tracked in the Streets Fund (Fund 1340) and is known as HURF revenue. The Arizona State Constitution restricts the use of HURF revenue to street and highway purposes such as right-of-way acquisition, construction, reconstruction, maintenance, repair and the payment of the interest and principal on HURF bonds.

HURF often is called the gas tax even though there are several other transportation-related fees, including a portion of the vehicle license tax, that comprise this revenue source. Much of this revenue source is based on the volume of fuel sold rather than the price of fuel.

In the past, the Arizona Legislature has altered (1) the type and/or rate of taxes, fees and charges to be deposited into the Arizona Highway Revenue Fund and (2) the allocation of such monies among the Arizona Department of Transportation, Arizona cities and counties and other purposes. The Arizona Legislature reduced the amount of funds allocated to cities in FY 2009 through FY 2012. Future legislative alterations to HURF revenue sources and/or the HURF distribution formula may occur.

Municipal Property Corporation Bond Funded Projects: A city may form a Municipal Property Corporation (MPC) to finance a large capital project. An MPC is a non-profit organization over which the city exercises oversight authority, including the appointment of its governing board. This mechanism allows the city to finance a needed capital improvement and then purchase the improvement from the corporation over a period of years.

In order for the MPC to market the bonds, a city will typically pledge unrestricted excise taxes. Unrestricted excise taxes are generally all excise, transaction privilege, franchise and income taxes within the city's General Fund. This means MPC debt service is paid with General Fund operating dollars.

The city has formed and entered into agreements to sell MPC bonds to fund several construction projects, including the following:

- Glendale Municipal Office Complex (debt is retired),
- Gila River Arena,

- Glendale Media Center and Expo Hall, Convention Center and Parking Garage adjacent to the Westgate development in west Glendale,
- a portion of the Glendale Regional Public Safety Training Facility and infrastructure for the Zanjero development, and
- the Camelback Ranch development [as explained below].

Public Facilities Corporation Funded Bonds: Similar to an MPC, a public facilities corporation (PFC) is a non-profit organization that is formed under Arizona State law to secure funding for capital projects. A PFC is also governed by a Council appointed Board of Directors responsible for authorizing debt. The PFC's sole purpose is to finance and construct public facilities for the city. While the PFC is a legally separate entity from the city, the city is responsible for the debt associated with the PFC bonds. The special debt obligations are back by the city's unrestricted excise taxes.

Grant Funded Projects: The majority of Glendale's grants for capital projects come from the federal or state government. There are two major types of grants. Open, competitive grant programs usually offer a great deal of latitude in developing a proposal and grants are awarded through a competitive review process. The existing Arizona Heritage Fund grants for parks and historic preservation capital projects are an example of competitive grants.

Entitlement or categorical grants are allocated to qualified governmental entities based on a formula basis (e.g., by population, income levels, etc.). Entitlement funds must be used for a specific grantor-defined purpose. Community Development Block Grants are considered entitlement grants and typically must benefit low-moderate income residents.

Most federal and state grant programs, with the exception of some public housing programs, require the applicant to contribute to the cost of the project. The required contribution, referred to as local match, can vary from 5% to 75%. Federal Transportation Administration grants for public transit improvements and Federal Aviation Administration grants for airport projects are examples of capital improvement grants for which local matching requirements will come from the city's operating budget and/or the city's transportation sales tax.

Many federal and state grant programs specifically prohibit the applicant from using other government grants as match, and require that the match be cash rather than donated services. Therefore, matching funds usually come from General Fund department operating budgets, G.O. bonds or development impact fees.

There is always a possibility that some of the grant-funded projects will be delayed or not completed if government grants fail to materialize. CIP projects adversely affected by changes in the availability of grants may be postponed until the needed grant funds are acquired, the project is modified to reduce costs, or the project is funded using alternative means.

Operating Budget - Pay-As-You-Go (PAYGO) Projects: Some capital improvements are paid for on a cash basis in order to avoid the interest costs incurred with other financing mechanisms and are included in the operating budget on a pay-as-you-go basis. The city's operating budget

also provides for the maintenance of capital assets and expenses associated with the depreciation of city facilities and equipment.

Lease Financing Projects: Lease financing provides long-term financing for the purchase of equipment or other capital improvements and does not affect the city's G.O. bond capacity or require voter approval. In a lease transaction, the asset being financed can include new capital needs, assets under existing lease agreements or, in some cases, equipment purchased in the past for which the government or municipal unit would prefer to be reimbursed and paid over time. Title to the asset is transferred to the city at the end of the lease term.

Local Improvement District Bond Projects: Local improvement districts (LIDs) are legally designated geographic areas in which a majority of the affected property owners agree to pay for one or more capital improvements through a supplemental assessment. This financing approach ties the repayment of debt to those property owners who most directly benefit from the improvements financed.

Impact of the CIP on the Operating Budget

Glendale's operating budget is directly affected by the CIP. Almost every new capital improvement entails additional ongoing expenses for routine operation, repair and maintenance upon completion that must be incorporated into the operating budget. Many new capital facilities require the addition of new positions. Existing city facilities and equipment that were once considered state-of-the-art will require rehabilitation, renovation or upgrades to accommodate new uses and/or address safety and structural improvements. Older facilities usually involve higher maintenance and repair costs as well. PAYGO capital projects, grant-matching funds and lease/purchase capital expenses also come directly from the operating budget.

Operating costs are carefully considered in deciding which projects move forward in the CIP because it is not possible for the city to fund concurrently several large-scale projects that have significant operating budget impacts. Therefore, implementation timetables are established that stagger projects over time.

Many improvements make a positive contribution to the fiscal wellbeing of the city. Capital projects such as redevelopment of under-performing or under-used areas of the city, and the infrastructure expansion needed to support new development, promote the economic development and growth that can lead to the generation of additional operating revenues. These new revenue sources provide the funding needed to maintain, improve and expand the city's infrastructure.



FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Summary of All Capital Projects by Funding Type

Fund # - Name	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
BOND CONSTRUCTION FUNDS							
1980 - Street/Parking Bonds	847,264	11,625,450	5,275,450	5,275,450	5,275,450	5,275,450	8,811,900
2140 - Open Space/Trails	0	50,000	15,056	0	176,795	0	7,259,516
2060 - Parks	50,000	0	0	0	0	0	85,512,683
2160 - Library	0	0	0	0	0	0	11,590,260
2040 - Public Safety	0	2,351,250	2,351,250	0	0	0	134,411,111
2130 - Cultural Facility	100,000	100,000	84,550	0	0	0	0
2100 - Economic Development	7,000,000	0	0	0	0	0	0
2180 - Flood Control	1,028,476	1,100,480	324,230	324,230	324,230	0	20,324,701
Sub-Total	\$9,025,740	\$15,227,180	\$8,050,536	\$5,599,680	\$5,776,475	\$5,275,450	\$267,910,171
DIF FUNDS							
1601 - Roadway Improvements	668,212	2,447,266	684,553	791,650	1,500,000	0	34,553
1520 - Citywide Open Space	178,943	139,157	34,944	150,000	0	0	0
1461 - Citywide Parks	0	332,453	0	0	0	0	0
1481 - Citywide Rec Facility	797,000	0	126,983	0	0	0	3,469
1541 - Park Dev Zone 1	0	552,278	3,469	0	0	0	3,469
1561 - Park Dev Zone 2	0	165,438	3,469	0	0	0	3,469
1581 - Park Dev Zone 3	0	0	3,469	0	0	0	3,469
1380 - Library Buildings	0	1,755,029	0	0	0	0	0
1501 - Libraries	407,875	1,356,549	152,592	0	0	0	17,563
1441 - Police Dept Facilities	0	0	0	0	0	0	0
1421 - Fire Protection Facilities	0	0	15,654	0	0	0	15,654
Sub-Total	\$2,052,030	\$6,748,170	\$1,025,133	\$941,650	\$1,500,000	\$0	\$81,646
ENTERPRISE/OTHER FUNDS							
2360 - Water & Sewer	9,975,589	8,988,412	17,008,526	17,853,062	16,600,000	6,600,000	2,500,000
2400 - Water	5,883,985	23,801,426	38,054,458	59,308,145	29,127,840	5,550,000	68,223,225
2420 - Sewer	2,546,250	4,260,000	4,978,000	4,400,000	8,600,000	8,550,000	25,900,000
2210 - Transportation Construction	4,296,374	11,934,647	5,877,193	3,483,811	3,680,732	8,723,374	144,682,836
2000 - HURF/Street Bonds	9,694,206	7,840,589	3,490,373	3,495,373	3,126,523	3,126,523	16,285,640
1650 - Transportation Grants	68,055	150,000	0	0	0	0	0
2480 - Sanitation	0	589,581	3,231,928	2,641,597	2,161,910	2,752,283	14,244,061
2440 - Landfill	5,916,824	1,170,630	1,106,281	2,998,401	4,641,954	10,724,397	20,317,180
2120 - Airport Capital Grants	4,646,219	2,175,017	1,000,000	1,000,000	0	0	5,005,056
1840 - Other Federal & State Grants	0	15,000	0	0	0	0	0
1000 - General Fund	0	0	0	0	0	0	0
2070 - General Gov Cap	5,060,601	5,774,820	2,900,602	3,423,574	2,336,752	2,336,752	29,168,844
2593 - City-Wide ERP Solution	0	2,862,221	1,132,837	0	0	0	0
1220 - Arts Commission	683,849	200,000	200,000	142,943	0	0	0
Sub-Total	\$48,771,952	\$69,762,343	\$78,980,198	\$98,746,906	\$70,275,711	\$48,363,329	\$326,326,842
Grand Total	\$59,849,722	\$91,737,693	\$88,055,867	\$105,288,236	\$77,552,186	\$53,638,779	\$594,318,659
Total FY 2018 Funding		\$151,587,415					



FUND SUMMARY: 1980-Street/Parking Bonds **Category: 20%**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
68103 Street Scallop	344,431	0	0	0	0	0	967,700
<i>Replacement of Existing Assets</i>							
68122 Capital Bridge Repair Program	502,833	0	0	0	0	0	2,568,750
68127 Pedestrian Infra. Improvements	0	3,100,000	0	0	0	0	0
68128 95th Avenue Extension (1980)	0	2,900,000	0	0	0	0	0
Sub-Total - Existing Assets	847,264	6,000,000	0	0	0	0	3,536,450
New Assets							
<i>0</i>							
68125 *Street Reconstruction Program	0	5,275,450	5,275,450	5,275,450	5,275,450	5,275,450	5,275,450
68129 *Westgate Area Signage	0	350,000	0	0	0	0	0
Sub-Total - New Assets	0	5,625,450	5,275,450	5,275,450	5,275,450	5,275,450	5,275,450
Total Project Expenses:	\$847,264	\$11,625,450	\$5,275,450	\$5,275,450	\$5,275,450	\$5,275,450	\$8,811,900
Total FY 2018 Funding:		\$12,472,714					

PROJECT DETAIL: 1980-Street/Parking Bonds **Category: 20%**

Project: 68103 - Street Scallop (I) **Funding Source:** General Obligation Bonds

Project Description: The Scallop Street Program is used to complete street improvements to reduce traffic accidents, enhance traffic flow, provide safety to adjacent pedestrian traffic and to mitigate property flooding. Projects are selected based on need and available funding from a scallop street inventory maintained by the Engineering Department. Improvements may include pavement widening, curb and gutter, sidewalk, and ADA enhancements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$32,431	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$900,000
Construction	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$13,500
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$43,200
Engineering Charges	\$9,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$9,000
Arts	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000
TOTAL	\$344,431	\$0	\$0	\$0	\$0	\$0	\$967,700

Operating Description: O and M costs are not expected for this project.



PROJECT DETAIL: 1980-Street/Parking Bonds

Category: 20%

Project: 68122 - Capital Bridge Repair Program (R) **Funding Source:** General Obligation Bonds

Project Description: This program is needed to maintain city bridges to meet Federal Highway Administration (FHWA) standards. There are 43 bridges that are inspected by Arizona Department of Transportation (ADOT) semi-annually. Under the National Bridge Inspection Program, administered by ADOT, the city is required to maintain its bridges to a satisfactory standard.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
Design	\$34,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$450,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,250,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$36,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$110,250
Engineering Charges	\$14,333	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$22,500
TOTAL	\$502,833	\$0	\$0	\$0	\$0	\$0	\$2,568,750

Operating Description: No additional O and M is required.

Project: 68127 - Pedestrian Infra. Improvements (R) **Funding Source:** General Obligation Bonds

Project Description: Design and construction of a pedestrian underpass, pedestrian bridges over the SRP Canal and Outfall channel and needed ramp and sidewalks. This will allow pedestrian to travel efficiently and safety from the new PS parking lot south of Bethany Home Road to the existing Stadium site. The City's share of the cost and expense to construct and complete this project is \$3.1M.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$3,100,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$3,100,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 68128 - 95th Avenue Extension (1980) (R) **Funding Source:** General Obligation Bonds

Project Description: Project will complete 95th Avenue between Camelback Road and Bethany Home Road. It will include, ROW acquisition, phase I environmental clearance, geotechnical investigation, utility coordination, survey and construction.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$900,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$2,000,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$2,900,000	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 1980-Street/Parking Bonds **Category: 20%**

Project: 68125* - Street Reconstruction Program (N) **Funding Source:** General Obligation Bonds

Project Description: Project provides for reconstruction of arterial and collector streets as identified in the Pavement Management Plan.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Finance Charges	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Engineering Charges	\$0	\$75,450	\$75,450	\$75,450	\$75,450	\$75,450	\$75,450
Arts	\$0	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Miscellaneous/Other	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
TOTAL	\$0	\$5,275,450	\$5,275,450	\$5,275,450	\$5,275,450	\$5,275,450	\$5,275,450

Operating Description:

Project: 68129* - Westgate Area Signage (N) **Funding Source:** General Obligation Bonds

Project Description: Install multiple signs located in Westgate area

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$350,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2140-Open Space/Trails Construction **Category: 20%**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
70000 Thunderbird Paseo Park Develop	0	0	0	0	0	1,998,675
70006 *T-bird Park Master Plan 2140	0	0	15,056	0	0	0
70007 *Open Space/Trails Master Plan	0	50,000	0	0	0	0
70008 *Thunderbird Park Imprvmnt 2140	0	0	0	0	176,795	0
T1630 TCP Trail Improvements	0	0	0	0	0	2,639,898
Sub-Total - Existing Assets	0	50,000	15,056	0	176,795	4,638,573
New Assets						
0						
70003 City-Wide Trails System	0	0	0	0	0	1,020,000
70005 West Valley Multi-Modal Corrid	0	0	0	0	0	1,600,943
Sub-Total - New Assets	0	0	0	0	0	2,620,943
Total Project Expenses:	\$0	\$50,000	\$15,056	\$0	\$176,795	\$0
Total FY 2018 Funding:	\$50,000					

PROJECT DETAIL: 2140-Open Space/Trails Construction **Category: 20%**

Project: 70000 - Thunderbird Paseo Park Develop (I) **Funding Source:** General Obligation Bonds

Project Description: This project is for park improvements and renovations to maintain the 55 acre Thunderbird Paseo Linear Park. This includes tree replacement and additions, enhance landscaping with drought tolerant plant material; signage replacement; removal of asphalt surface; addition of concrete surface where asphalt existed; pedestrian/equestrian bridges; replacement of equipment located in the linear park; and address all mandated accessibility issues.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$423,475
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,209,928
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$39,973
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$44,919
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$12,099
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$90,217
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$178,064
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,998,675

Operating Description: O and M expenses would vary based upon the specific type of future landscape improvements that are implemented. Supplies and contracts calculated at \$601 per acre X 50 acres (estimate value) plus inflation. A landscape water rate is calculated at \$0.22 per sq ft for 435,600 sq ft. All calculations are for 31 months of operation. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$96,174
Landscape	\$0	\$0	\$0	\$0	\$0	\$315,188



PROJECT DETAIL: 2140-Open Space/Trails Construction **Category: 20%**

Project: 70006* - T-bird Park Master Plan 2140 (I) **Funding Source:** General Obligation Bonds

Project Description: This project will update and revise the existing Thunderbird Conservation Park master plan. This is partial funding of this request, the balance is being requested in Fund 1520 DIF - Citywide Open Spaces in the amount of \$34,944.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$15,056	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$15,056	\$0	\$0	\$0	\$0

Operating Description:

Project: 70007* - Open Space/Trails Master Plan (I) **Funding Source:** General Obligation Bonds

Project Description: This project request is to revised and update the existing Open Space and Trails Master Plan completed in 2005. Since the approval of the current master plan, the development and use of trails and open space has increased and staff continue to receive requests for additional/expanded amenities.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 70008* - Thunderbird Park Imprvmnt 2140 (I) **Funding Source:** General Obligation Bonds

Project Description: This project will include construction/renovation of Thunderbird Conservation Park trails, restrooms, ramadas, shade structures and amenities as defined in the master plan update.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$0	\$0	\$0	\$154,000	\$0	\$0
Engineering Charges	\$0	\$0	\$0	\$0	\$12,000	\$0	\$0
Arts	\$0	\$0	\$0	\$0	\$1,540	\$0	\$0
Contingency	\$0	\$0	\$0	\$0	\$9,255	\$0	\$0
TOTAL	\$0	\$0	\$0	\$0	\$176,795	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2140-Open Space/Trails Construction **Category: 20%**

Project: T1630 - TCP Trail Improvements (I) **Funding Source:** General Obligation Bonds

Project Description: Based on the Thunderbird Conservation Park Master Plan recommendations, items to be addressed include ongoing repair and improvements of the 18 miles of natural surfaced trails. This would include ongoing replacement of trail signage and markers; enhance trail nodes and the trail heads along the trail system; removal of safety concerns and obstacles; rebuild trail washouts and mitigate washout areas; survey terrain for possible trail realignments; enhance scenic areas; removal of invasive plant species on the trails; widen trail system to accommodate multi-use designation; install trail interpretive signage; and re-vegetation of areas that have been impacted by rogue use. Project formally referred to as Thunderbird Park Improvements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$196,086
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,960,869
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$58,204
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$55,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$19,609
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$56,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$294,130
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$2,639,898

Operating Description: Supplies are based on 33 acres of improvements x \$601. Improvements will require a Service Worker II at \$53,310 with benefits, a Park Ranger with benefits at \$51,087, contracted labor assistance at \$25,000 per year, building maintenance at \$1.62 X 3,000 sq ft = \$4,860 annually; insurance is for 2 new employees at \$828 per person.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Staffing	\$0	\$0	\$0	\$0	\$0	\$458,320
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$70,248
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$17,214
Insurance	\$0	\$0	\$0	\$0	\$0	\$5,865
Landscape	\$0	\$0	\$0	\$0	\$0	\$11,097



PROJECT DETAIL: 2140-Open Space/Trails Construction **Category: 20%**

Project: 70003 - City-Wide Trails System (N) **Funding Source:** General Obligation Bonds

Project Description: This project will implement recommendations for open space acquisition, trailhead land purchases, construction of pedestrian, bicycle, and equestrian paths and trails, and connectivity between areas of interest citywide that accommodates future growth and user demands. This may include improvement or enhancements to trails along the Grand Canal Linear Park, Thunderbird Paseo, Skunk Creek Linear Park and the Bridle Path.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$20,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$1,000,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,020,000

Operating Description: Specific scope will determine the additional O and M costs which could include supplies and contracts for \$601 x 50 acres, Service Worker II w/ benefits, building maintenance is for additional lighting (260 poles X \$153 per pole), insurance is for a new staff member at \$828 a year, and landscape is based on 50 acres of newly developed trails at \$.22 per square foot. Other operating calculations have been based upon 50 acres. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Staffing	\$0	\$0	\$0	\$0	\$0	\$141,909
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$83,451
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$110,472
Insurance	\$0	\$0	\$0	\$0	\$0	\$2,299
PC/Vehicle Replacement	\$0	\$0	\$0	\$0	\$0	\$8,170
Landscape	\$0	\$0	\$0	\$0	\$0	\$206,038

Project: 70005 - West Valley Multi-Modal Corrid (N) **Funding Source:** General Obligation Bonds

Project Description: This is to construct a multimodal trail system along the Agua Fria River Corridor as per the Maricopa Association of Governments West Valley Rivers Trails Plan. The trail system will link with other trails in and around the City of Glendale connecting parks and other recreation facilities, and serve new and existing residents.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$270,277
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,110,057
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$43,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$11,101
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$166,508
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,600,943

Operating Description: Supplies and contracts include \$601x 10 acres. Building maintenance costs include 34 low-level security lights for rest nodes and trail at \$75 per light and \$13 per lamp for bulb replacement. Landscape includes maintenance of approximately 435,600 sq ft x \$.0927per sq ft, water at \$.22 per sq ft x 435,600 sq ft, and ramada cleaning/maintenance at \$4,000 per ramada x three ramadas.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$6,010
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$14,992
Landscape	\$0	\$0	\$0	\$0	\$0	\$95,832

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2060-Parks Construction **Category: 20%**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
Existing Assets							
<i>Improvement of Existing Assets</i>							
70510 Park Enhancements	0	0	0	0	0	0	10,921,641
70515 T-Bird Park Improvements	0	0	0	0	0	0	2,902,993
70540 Grounds & Facilities Imprvmnts	0	0	0	0	0	0	3,914,523
70546 *Sahuaro Ranch Park Master Plan	50,000	0	0	0	0	0	0
T1715 Play Structure Improvements	0	0	0	0	0	0	2,874,890
<i>Replacement of Existing Assets</i>							
70500 Parks Redevelopment	0	0	0	0	0	0	27,417,240
70512 Facilities Renovation	0	0	0	0	0	0	9,906,161
70526 Multiuse Sports Field Lighting	0	0	0	0	0	0	4,723,297
70535 Paseo Racquet Center Park	0	0	0	0	0	0	7,045,478
70541 Parks Capital Equipment	0	0	0	0	0	0	1,224,490
T1712 Aquatic Facility Renovation	0	0	0	0	0	0	7,232,945
T1713 Foothills Center Renovation	0	0	0	0	0	0	1,889,025
T1822 O'Neil Park Pool Replacement	0	0	0	0	0	0	5,460,000
Sub-Total - Existing Assets	50,000	0	0	0	0	0	85,512,683
Total Project Expenses:	\$50,000	\$0	\$0	\$0	\$0	\$0	\$85,512,683
Total FY 2018 Funding:		\$50,000					

PROJECT DETAIL: 2060-Parks Construction **Category: 20%**



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70510 - Park Enhancements (I)

Funding Source:

General Obligation Bonds

Project Description:

Ongoing park enhancements are vital in the city's effort to improve and enhance park functionality and appeal. Staff continually assesses park amenities and infrastructure, and strive to meet the demands park users place on park land and facilities. Park enhancements focus on a variety of elements and amenities within the existing park setting, and can be urgent in nature or planned. Typical park enhancements include new sport courts; additional low-level security lighting; picnic areas; picnic benches; Americans with Disabilities Act (ADA) issues; shade structures, landscape, and other amenities added to existing park sites. Ongoing enhancements typically address service gaps in the level of service requirements outlined in the Parks and Recreation Master Plan and federal, state, and local mandates.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$926,587
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$8,547,040
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$174,429
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$85,470
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$845,615
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$10,921,641

Operating Description:

In most cases, park enhancements will have little or no impact on the O and M. In fact, in many cases the enhancements allow for a more efficient operation of infrastructure and amenities. O and M will be impacted when additional amenities are introduced to the park, such as ramadas, additional low-level lighting, etc. Supplies/contracts include \$601 x 4 acre. Building Maintenance includes an average of 10 additional low level security lighting x \$150 for electricity, and \$21 per lamp for replacement. Landscape maintenance \$.22 x 43,560 sq ft. A supplemental will be submitted.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$147,960
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$105,250
Landscape	\$0	\$0	\$0	\$0	\$0	\$584,820

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70515 - T-Bird Park Improvements (I)

Funding Source:

General Obligation Bonds

Project Description:

This project will continue the implementation of the Thunderbird Conservation Park Master Plan recommendations and improvements including the removal of invasive plant species and re-vegetation, signage upgrades, repairs or replacements to existing ramadas, picnic tables, grills, restrooms and other infrastructure. It will also address the continuation of re-vegetation, as well as the installation of new park elements, such as ramadas and parking lot improvements.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$646,739
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,847,826
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$57,777
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$55,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$18,478
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$277,173
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$2,902,993

Operating Description:

Improvements have an O and M impact for two new 750 sq ft restrooms with associated utilities and supplies. Supplies are based on 33 acres of improvements x \$601. Improvements will require a Service Worker II at \$53,310 with benefits, a Park Ranger with benefits at \$51,087, contracted labor assistance at \$25,000 per year, utilities at \$2.70 per sq ft X 3,000 sq ft = \$8,100; building maintenance at \$1.62 X 3,000 sq ft = \$4,860 annually; equipment maintenance is for two added pole lights at \$358 annually; insurance is for two new employees at \$828 per person; ramada cleaning at \$3,000 each at five new ramadas, building water at \$0.195 sq ft or \$49 per month.

Operating Costs	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Staffing	\$0	\$0	\$0	\$0	\$0	\$485,932
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$69,578
Utilities	\$0	\$0	\$0	\$0	\$0	\$28,250
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$29,912
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$2,203
Insurance	\$0	\$0	\$0	\$0	\$0	\$28,259
Landscape	\$0	\$0	\$0	\$0	\$0	\$21,431
Water	\$0	\$0	\$0	\$0	\$0	\$1,930

Project: 70540 - Grounds & Facilities Imprvmnts (I)

Funding Source:

General Obligation Bonds

Project Description:

This project addresses renovations and golf course enhancements that may not otherwise be included or covered in the golf course management agreements. Issues to be addressed include golf course grounds and infrastructure at Glendale's Glen Lakes and Desert Mirage golf courses. Improvements will include modifying or enhancing greens, tees, fairways, cart paths, irrigation systems, lakes, driving ranges, parking lots, fence replacement, and pro-shops for both municipal golf courses.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$875,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$77,085
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$62,438
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$375,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,914,523

Operating Description:

No additional O and M is needed.



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70546* - Sahuaro Ranch Park Master Plan (I)

Funding Source:

General Obligation Bonds

Project Description:

This project will include developing a master plan for the 17 acre, historic area of Sahuaro Ranch Park which includes 13 original buildings, a rose garden, barnyard and historic orchards. The historic area has been a cultural asset that celebrates the city's historic beginnings. Listed on the National Registry of Historic Places and known as the "Showplace of the Valley," the Sahuaro Ranch Historic Area offers activities, exhibits and guided tours—keeping the history of early settlement in the Valley alive.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: T1715 - Play Structure Improvements (I)

Funding Source:

General Obligation Bonds

Project Description:

This project involves replacing all playground components and playground surfacing in city parks to be more compliant with changes to the Americans with Disabilities Act (ADA), U.S. Consumer Product Safety Commission (CPSC), the American Society for Testing and Materials (ASTM), and play units and components that have been removed due to vandalism or ongoing wear and tear.

In 2011, all of these organizations made significant changes to the laws, guidelines, and standards as it relates to playground accessibility, use, and safety. Subsequent evaluations by staff who are certified as Playground Safety Inspectors (CPSI) resulted in a comprehensive annual audit of all playgrounds to identify all play structure, playground, and playground surface deficiencies. The annual audit identified multiple playgrounds requiring varying levels of update to meet the new ADA, CPSC, and/or the ASTM laws, guidelines, and/or regulations. External audits of the playgrounds confirmed CPSI findings

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$50,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$56,390
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$8,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$500
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$2,400,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$360,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$2,874,890

Operating Description:

No additional O and M is required. The new laws, guidelines, and standards would actually reduce O and M by reducing the staff time to conduct head and torso inspections, and tilling sand fall zones.



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70500 - Parks Redevelopment (R)

Funding Source:

General Obligation Bonds

Project Description:

This project is designed as a proactive focus for revitalizing parks currently in the city's inventory that have shown signs of deteriorating infrastructure, amenities, and/or landscape. The purpose of the redevelopment process is to heighten or restore the overall functionality of the park for the users, while at the same time enhancing the operating efficiency. As in the past, staff identify strategies that are designed to revive a park's existing strengths and develop new or enhanced functions of the park. Development strategies, service gaps, and needs are identified and addressed during the design and construction phase. Depending on the park category, location, size, and level of service, each requires a distinct level of funding to address an assortment of services or operational improvements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$6,283,947
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$18,239,851
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$548,341
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$122,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$182,399
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$2,040,702
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$27,417,240

Operating Description:

Supplies and contracts are based on 10 acres x \$601 per acre. Building Maintenance includes an additional 30, low-level park lighting at \$171 per pole. These parks are currently maintained, so staff doesn't project additional landscape maintenance costs. Water would include the addition of 40 drinking fountains at \$88 each. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$36,990
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$31,574
Water	\$0	\$0	\$0	\$0	\$0	\$17,600

Project: 70512 - Facilities Renovation (R)

Funding Source:

General Obligation Bonds

Project Description:

The proposed renovations address planned and/or unexpected restoration improvements and infrastructure replacement at existing park and recreation buildings, centers, ball field complex sites, group ramada pavilions, restrooms, and tennis and golf complexes. Funds are used citywide to provide ongoing renovation to existing facilities. The specific facilities that receive assistance from this project are targeted through an ongoing assessment and feedback from citizens and staff.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$8,093,137
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$198,123
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$120,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$80,931
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$200,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$1,213,970
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$9,906,161

Operating Description:

New O and M expenses are not usually encountered with restoration activities.



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70526 - Multiuse Sports Field Lighting (R)

Funding Source:

General Obligation Bonds

Project Description:

The Parks and Recreation has 25 lighted sports fields that are used for various youth and adult sports program and cultural events. Of the 25 lighted sports fields, 5 of the sports fields have athletic field lighting and lighting infrastructure that are over 15 years old. This project involves the renovation or replacement of existing sports lights that have illumination depreciation or no longer meet current illumination standards and those facilities where the lighting systems are currently depreciating and will require replacement.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$705,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$3,528,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$94,466
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$78,311
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$35,280
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$282,240
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$4,723,297

Operating Description:

This project will not require additional O and M. The bid specifications would be performance based and would require the contractor to perform bulb replacements. The newer lighting technology would operate more efficiently, thus reducing electrical consumption and O and M.

Project: 70535 - Paseo Racquet Center Park (R)

Funding Source:

General Obligation Bonds

Project Description:

The park project has two components: Paseo Sports Complex and Paseo Racquet Center, both of which are in this park. The Sports Complex work will include the replacement of the lighting system, outdoor sound system, all fencing, restroom and concessions building. At the Paseo Racquet Center, necessary repairs include court overlays, court resurfacing, lighting, fencing and building restoration and improvements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$1,579,200
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,512,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$139,858
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$45,120
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$676,800
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$7,045,478

Operating Description:

These capital improvements are to existing facilities and will likely decrease O and M expenses.



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: 70541 - Parks Capital Equipment (R)

Funding Source:

General Obligation Bonds

Project Description:

The Parks Department has 10 pieces of equipment currently in the fleet that are 10 years or older, and 18 pieces of equipment that are 13 years or older. All are not included as part of the City's Vehicle Replacement Fund and have passed their average effective lifespan. Replacing old, outdated equipment such as mowers, sod cutters, aerators, paint machines, trailers, utility vehicles, specialized chain saws, park/facility maintenance equipment, ball field preparation machines and equipment are essential to the care and maintenance of facilities and parks. The equipment has outlasted its useful and effective lifespan.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$24,490
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$1,200,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,224,490

Operating Description:

No additional O & M as the purchase of equipment would simply replace the existing.

Project: T1712 - Aquatic Facility Renovation (R)

Funding Source:

General Obligation Bonds

Project Description:

This project includes the renovation and restoration of existing aquatic facilities (Foothills and Rose Lane) owned by the City and operated by the Parks and Recreation Division. The aquatic facilities require annual attention and frequent repairs to remain relevant and useful. Projects, such as, replastering of the water vessels; patching and repairs to the pool decking; replacement of shade canopies; pool pumps and other equipment are needed to ensure continued compliance with all federal, state and county health code requirements. Other items to be considered periodically include slide repair and/or replacement; repair or replacement of play structure components; electrical infrastructure; diving boards; and pool heaters

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$1,350,822
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,650,207
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$144,659
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$46,502
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$948,255
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$7,232,945

Operating Description:

No additional O and M needed.



PROJECT DETAIL: 2060-Parks Construction

Category: 20%

Project: T1713 - Foothills Center Renovation (R)

Funding Source: General Obligation Bonds

Project Description:

This project involves the replacement of recreation center equipment that has an expected useful life span of 5-7 years and renovation of the facility. Replacement of fitness room equipment; existing audio/visual equipment; carpeting; room dividers; window blinds; chillers and boilers to the building; security systems; ongoing resurfacing of the multi-purpose area; enhance lighting in the exterior and interior; and parking lot resurfacing.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$189,625
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$758,500
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$37,040
IT/Phone/Security	\$0	\$0	\$0	\$0	\$0	\$0	\$80,500
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$40,769
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$7,585
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$634,500
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$140,506
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,889,025

Operating Description:

No additional O and M is needed for this project.

Project: T1822 - O'Neil Park Pool Replacement (R)

Funding Source: General Obligation Bonds

Project Description:

This project is a Council request for a capital project placeholder to replace the pool at O'Neil Park. The cost estimates are based on current information available. Planned amenities would include a zero depth entry recreation pool, lap swim area, bathhouse, water slide, and water spray amenities.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$875,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$175,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$5,460,000

Operating Description:



FUND SUMMARY: 2160-Library Construction **Category: 6%**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
T2810 Library Renovation	0	0	0	0	0	11,590,260
Sub-Total - Existing Assets	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>11,590,260</i>
Total Project Expenses:	\$0	\$0	\$0	\$0	\$0	\$11,590,260
Total FY 2018 Funding:	\$0					

PROJECT DETAIL: 2160-Library Construction **Category: 6%**

Project: T2810 - Library Renovation (I) **Funding Source:** General Obligation Bonds

Project Description: This is a request to modernize the three branch libraries to meet the expectations of the community. This project will include renovating and updating the interior spaces at the Velma Teague Branch Library (built in 1969), the Main Library (built in 1987)

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$227,260
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$11,363,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$11,590,260

Operating Description:



FUND SUMMARY: 2040-Public Safety Construction **Category: 20%**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
75037 *Regional Wireless Cooperative	0	2,351,250	2,351,250	0	0	0
<i>Replacement of Existing Assets</i>						
75024 800MHz Comm Equip	0	0	0	0	0	1,408,819
75034 Engine & Ladder Replacement	0	0	0	0	0	3,920,612
T1820 Public Safety Bldgs. Renewal	0	0	0	0	0	73,193,750
Sub-Total - Existing Assets	0	2,351,250	2,351,250	0	0	78,523,181
New Assets						
0						
75020 City Court Building	0	0	0	0	0	43,075,302
T5536 Fire Station - Western Area	0	0	0	0	0	12,812,628
Sub-Total - New Assets	0	0	0	0	0	55,887,930
Total Project Expenses:	\$0	\$2,351,250	\$2,351,250	\$0	\$0	\$0 \$134,411,111
Total FY 2018 Funding:		\$2,351,250				

PROJECT DETAIL: 2040-Public Safety Construction **Category: 20%**

Project: 75037* - Regional Wireless Cooperative (I) **Funding Source:** General Obligation Bonds

Project Description: This project helps fund the city's share of membership in the Regional Wireless Cooperative (RWC) digital communications system (two way radio). Fees associated with this membership cover the operational and maintenance costs on a per radio basis as well as special assessment fees. Membership in the RWC provides enhances service, redundancy and increased coverage for all city departments. Most importantly, interoperability not only within city departments but also valley wide partners, is greatly increased. The city's "Gold Elite" consoles will require replacement upon the upgrade to IP-based radio communications as will portable and mobile radios used in the field which have reached their recommended end of life. In addition, this includes upgrades to our radio hardware due to known and anticipated upgrades and mandates which will make our current radio system obsolete.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
IT/Phone/Security	\$0	\$2,351,250	\$2,351,250	\$0	\$0	\$0	\$0
TOTAL	\$0	\$2,351,250	\$2,351,250	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2040-Public Safety Construction **Category: 20%**

Project: 75024 - 800MHz Comm Equip (R) **Funding Source:** General Obligation Bonds

Project Description: Replacement and/or upgrade of existing radios for the Regional Wireless Cooperative to assure the department continues to meet Federal Communications Commission requirements for Public Safety radio transmissions as mandated and/or to replace radios that have met or exceeded their life expectancy and require technology upgrades. The life expectancy for radios is 8 to 10 years.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$28,176
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$1,380,643
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,408,819

Operating Description: O and M includes network fees annually at \$94.59 per month, per radio for 196 radios, as identified by the RWC for FY2018/2019. The department will submit a supplemental in the future for the additional O and M. Annual ongoing O and M before inflationary increases: \$222,476.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$224,476

Project: 75034 - Engine & Ladder Replacement (R) **Funding Source:** General Obligation Bonds

Project Description: To maximize the safe use of Emergency Code 3 Apparatus the Fire Department's replacement plan indicates that front line engines should be replaced at 7 years or 100,000 miles and be moved into a reserve status. Ladder trucks should be replaced after 15 years or 100,000 miles. The department will maintain a reserve fleet of one reserve truck for every two front line trucks. This CIP request is for a continuous plan for replacement of the department's Code 3 Apparatus in an effort to be compliant with the National Fire Protection Association Standards for emergency apparatus. Our fleet now averages 11 years old and 150,000 miles of service.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$78,412
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$3,842,200
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,920,612

Operating Description: No additional O and M is needed since this is the replacement of existing equipment.

Project: T1820 - Public Safety Bldgs. Renewal (R) **Funding Source:** General Obligation Bonds

Project Description: This project is to replace two fire stations(152 & 153), modernize two police stations, and renew three public safety buildings

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$6,968,750
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$65,500,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$725,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$73,193,750

Operating Description:



PROJECT DETAIL: 2040-Public Safety Construction **Category: 20%**

Project: 75020 - City Court Building (N) **Funding Source:** General Obligation Bonds

Project Description: Construction will resume on the city court building in the future years. As of the end of December 2009, the structure was built to ground level. When completed the building is expected to be approximately 90,000 net square feet and include 10 courtrooms. There is the possibility of additional costs due to the delay in construction.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$4,742,010
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$31,613,404
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$861,506
IT/Phone/Security	\$0	\$0	\$0	\$0	\$0	\$0	\$2,235,868
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$139,968
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$316,134
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$3,166,412
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$43,075,302

Operating Description: O and M would be needed starting in FY 2022 and includes a Building Maintenance Worker, two Custodians, a Day Porter and three Detention Officers. Other items include, utilities and electricity, security, building and elevator maintenance, parking lot sweeping and custodial supplies. There are \$213,800 in one-time expenses in FY 2021 including one-time purchases of vehicles and other essential supplies. The O and M related to opening the new facility does not include current grant-funded and one-time funded staff and operational costs. These costs total \$577,269. O and M costs for additional court positions will also be needed starting in the year the building is occupied. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Staffing	\$0	\$0	\$0	\$0	\$0	\$1,453,002
Utilities	\$0	\$0	\$0	\$0	\$0	\$184,533
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$250,966
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$47,056
Insurance	\$0	\$0	\$0	\$0	\$0	\$51,671
Electrical	\$0	\$0	\$0	\$0	\$0	\$1,107,210
PC/Vehicle Replacement	\$0	\$0	\$0	\$0	\$0	\$18,684
Landscape	\$0	\$0	\$0	\$0	\$0	\$27,426
Water	\$0	\$0	\$0	\$0	\$0	\$38,579
Refuse	\$0	\$0	\$0	\$0	\$0	\$22,492

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2040-Public Safety Construction **Category: 20%**

Project: T5536 - Fire Station - Western Area (N) **Funding Source:** General Obligation Bonds

Project Description: Design and construction of a 15,000 sq ft, four bay fire station, with firefighter quarters for 18 personnel, furniture, fixtures, equipment, office space and storage. Equipment includes one engine. This facility will respond to the surrounding areas between Northern Avenue and Camelback Road and 83rd to 115th Avenues. This fire station would house a fire pumper 24/7 initially, with further expansion of ladders and medic units as growth demands.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$2,395,800
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$1,407,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$5,226,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$256,253
IT/Phone/Security	\$0	\$0	\$0	\$0	\$0	\$0	\$156,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$52,260
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$1,601,040
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$1,625,775
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$12,812,628

Operating Description: Additional O and M would be needed starting in March of 2021. Staffing includes the salary and benefits for 12 Firefighters, 3 Captains, 3 Engineers and .5 FTE Building Maintenance Worker. Also includes promotions, training, medic pay, station supplies, station and equipment maintenance, telephone charges, grounds maintenance, insurance and one-time cost in the amount of \$486,895 to recruit, test, hire and to send 18 firefighters to the training academy and six to medic school. Utilities, building maintenance, supplies and custodial services for 15,000 sq ft of space. PC replacement contributions for 3 computers and 1 color printer replacement = \$2,182. Landscaping estimated at \$0.22 per sq ft for 15,000 sq ft. Water estimated at \$0.195 per sq ft. Refuse estimated at \$342.26 x 12 months. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Staffing	\$0	\$0	\$0	\$0	\$0	\$3,844,622
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$703,502
Utilities	\$0	\$0	\$0	\$0	\$0	\$146,398
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$434,875
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$57,327
Insurance	\$0	\$0	\$0	\$0	\$0	\$36,165
Electrical	\$0	\$0	\$0	\$0	\$0	\$72,695
PC/Vehicle Replacement	\$0	\$0	\$0	\$0	\$0	\$62,820
Landscape	\$0	\$0	\$0	\$0	\$0	\$9,501
Water	\$0	\$0	\$0	\$0	\$0	\$8,421
Refuse	\$0	\$0	\$0	\$0	\$0	\$11,824



FUND SUMMARY: 2130-Cultural Facility Construction **Category: 6%**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrover</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
84309 *Sahuaro Ranch Park Improvments	100,000	100,000	84,550	0	0	0	0
<i>Sub-Total - Existing Assets</i>	<i>100,000</i>	<i>100,000</i>	<i>84,550</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Total Project Expenses:	\$100,000	\$100,000	\$84,550	\$0	\$0	\$0	\$0
Total FY 2018 Funding:		\$200,000					

PROJECT DETAIL: 2130-Cultural Facility Construction **Category: 6%**

Project: 84309* - Sahuaro Ranch Park Improvments (I) **Funding Source:** General Obligation Bonds

Project Description: This project will include the renovation and stabilization of the historic area of Sahuaro Ranch Park over a three year period. The historic area includes 13 original buildings, a rose garden, barnyard and historic orchards and has been a cultural asset that celebrates the city's historic beginnings. Listed on the National Register of Historical Places and known as the "Showplace of the Valley," the Sahuaro Ranch Historic Area offers activities, exhibits and guided tours—keeping the history of early settlement in the Valley alive.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$87,165	\$75,000	\$0	\$0	\$0	\$0
Construction	\$87,165	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$5,753	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$5,753	\$4,950	\$0	\$0	\$0	\$0
Arts	\$872	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$872	\$750	\$0	\$0	\$0	\$0
Contingency	\$6,210	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$6,210	\$3,850	\$0	\$0	\$0	\$0
TOTAL	\$100,000	\$100,000	\$84,550	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2100-Economic Development Constructi **Category: 6%**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
New Assets							
0							
84408 *Parking Lot P2-BHR and 95th	7,000,000	0	0	0	0	0	0
<i>Sub-Total - New Assets</i>	<i>7,000,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Total Project Expenses:	\$7,000,000	\$0	\$0	\$0	\$0	\$0	\$0
Total FY 2018 Funding:	\$7,000,000						

PROJECT DETAIL: 2100-Economic Development Construc **Category: 6%**

Project: 84408* - Parking Lot P2-BHR and 95th (N) **Funding Source:** General Obligation Bonds

Project Description: Design and construction for a surface parking lot located south of Bethany Home Road between 91st and 95th avenues.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$27,853	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$6,621,647	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$80,500	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$70,000	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$7,000,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: Electricity for 400 lights, pavement maintenance and striping every 5 years, and landscaping and Irrigation.



FUND SUMMARY: 2180-Flood Control Construction **Category: 20%**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
79004 Local Drainage Problems	1,028,476	1,100,480	324,230	324,230	324,230	0	322,230
Sub-Total - Existing Assets	1,028,476	1,100,480	324,230	324,230	324,230	0	322,230
New Assets							
0							
79013 Bethany Home SD, 79th-67th	0	0	0	0	0	0	6,306,500
79014 59th Ave & Thunderbird Rd SD	0	0	0	0	0	0	1,993,011
T2910 Bethany Home SD, 67th-58th	0	0	0	0	0	0	5,450,900
T7901 83rd Ave BethanyHm to Camelbac	0	0	0	0	0	0	3,125,030
T7902 Camelback Rd. 51st to 58th	0	0	0	0	0	0	3,127,030
Sub-Total - New Assets	0	0	0	0	0	0	20,002,471
Total Project Expenses:	\$1,028,476	\$1,100,480	\$324,230	\$324,230	\$324,230	\$0	\$20,324,701
Total FY 2018 Funding:		\$2,128,956					

PROJECT DETAIL: 2180-Flood Control Construction **Category: 20%**

Project: 79004 - Local Drainage Problems (I) **Funding Source:** General Obligation Bonds

Project Description: Construct localized storm drain improvements to mitigate drainage and/or flooding problems. This is an ongoing program that typically addresses drainage problems in older neighborhoods, residential areas and extends existing storm drain systems.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$30,000	\$0	\$0	\$0	\$0	\$0
Construction	\$1,012,676	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$1,000,000	\$300,000	\$300,000	\$300,000	\$0	\$300,000
Finance Charges	\$0	\$15,480	\$4,530	\$4,530	\$4,530	\$0	\$4,530
Engineering Charges	\$0	\$43,000	\$14,700	\$14,700	\$14,700	\$0	\$14,700
Arts	\$0	\$10,000	\$3,000	\$3,000	\$3,000	\$0	\$3,000
Arts	\$15,800	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$2,000	\$2,000	\$2,000	\$2,000	\$0	\$0
TOTAL	\$1,028,476	\$1,100,480	\$324,230	\$324,230	\$324,230	\$0	\$322,230

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2180-Flood Control Construction **Category: 20%**

Project: 79013 - Bethany Home SD, 79th-67th (N) **Funding Source:** General Obligation Bonds

Project Description: Construct storm drain pipe, inlets and other appurtenances in Bethany Home Road from 79th Avenue to 67th Avenue. Construction costs are to be shared with Maricopa County Flood Control District (50%). Total estimated project cost is \$10.3M. The funds in this account only reflect the City's portion. The project will include storm drain pipe, catch basins, and appurtenances.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$5,400,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$60,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$54,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$6,306,500

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: 79014 - 59th Ave & Thunderbird Rd SD (N) **Funding Source:** General Obligation Bonds

Project Description: Project will construct a storm drain in 59th Avenue between the Thunderbird Road intersection and the Arizona Canal Drainage Channel.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$0	\$0	\$0	\$0	\$0	\$0	\$24,000
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$58,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,700,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$29,666
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$48,345
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$17,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$116,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,993,011

Operating Description: No additional O and M is required for this project.



PROJECT DETAIL: 2180-Flood Control Construction **Category: 20%**

Project: T2910 - Bethany Home SD, 67th-58th (N) **Funding Source:** General Obligation Bonds

Project Description: Construct a storm drain in Bethany Home Road from 67th to 58th Avenues. Construction costs are to be shared with Maricopa County Flood Control District (50%). Total estimated project cost is \$8.9M. The funds in this account only reflect the City's portion (60%). The project will include storm drain pipe, catch basins, and appurtenances.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$480,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,680,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$51,600
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$92,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$46,800
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$5,450,900

Operating Description: Storm drain pipe requires little or no maintenance and in most cases will reduce existing maintenance because storm water does not pond in the street or other public facility.

Project: T7901 - 83rd Ave BethanyHm to Camelbac (N) **Funding Source:** General Obligation Bonds

Project Description: Installation of storm drain in 83rd from Bethany Home Rd. to Camelback Rd. as identified in the Stormwater Management Plan

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$45,030
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$55,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,125,030

Operating Description:

Project: T7902 - Camelback Rd. 51st to 58th (N) **Funding Source:** General Obligation Bonds

Project Description: Installation of storm drain Camelback Rd. from 51st to 58th Ave. Identified in the Stormwater Management Plan

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$45,030
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$55,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$2,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,127,030

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 1600-DIF-Roadway Improvements **Category: DIF**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	Carrvoer	New Funding					
Existing Assets							
<i>Improvement of Existing Assets</i>							
67814 59th & Olive Ave (1600)	205,900	0	0	0	0	0	0
67820 *59th & Olive Ave (1601)	0	1,486,915	0	0	0	0	0
67880 *59th & Olive Ave (1602)	360,688	360,351	0	0	0	0	0
<i>Replacement of Existing Assets</i>							
67802 Dev. Agree. - Arterials	65,110	0	0	0	0	0	0
67809 DIF Update	0	0	34,553	0	0	0	34,553
67821 95th Avenue Extension (1601)	0	600,000	0	0	0	0	0
67930 Bethany Hm 83rd -91st (1603)	0	0	650,000	791,650	1,500,000	0	0
Sub-Total - Existing Assets	631,698	2,447,266	684,553	791,650	1,500,000	0	34,553
New Assets							
0							
67803 Dev. Agree. - Signals	36,514	0	0	0	0	0	0
Sub-Total - New Assets	36,514	0	0	0	0	0	0
Total Project Expenses:	\$668,212	\$2,447,266	\$684,553	\$791,650	\$1,500,000	\$0	\$34,553
Total FY 2018 Funding:	\$3,115,478						

PROJECT DETAIL: 1600-DIF-Roadway Improvements **Category: DIF**

Project: 67814 - 59th & Olive Ave (1600) (I) **Funding Source:** Development Impact Fees

Project Description: This project includes constructing improvements at the 59th and Olive avenues intersection. Improvements at the intersection include installation of turn lanes and bus bays.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$205,900	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$205,900	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: This project is to add capacity to the existing intersection. No additional O and M is anticipated based on current information.

Project: 67820* - 59th & Olive Ave (1601) (I) **Funding Source:** Development Impact Fees

Project Description: This project includes constructing improvements at the 59th and Olive avenues intersection. Intersection include installation of turn lanes and bus bays.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$1,440,640	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$39,600	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$6,675	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$1,486,915	\$0	\$0	\$0	\$0	\$0

Operating Description: This project is to add capacity to the existing intersection. No additional O and M is anticipated based on current information.



PROJECT DETAIL: 1600-DIF-Roadway Improvements **Category: DIF**

Project: 67880* - 59th & Olive Ave (1602) (I) **Funding Source:** Development Impact Fees

Project Description: This project includes relocation of utilities, purchase right-of-way and construct improvements at the 59th and Olive avenues intersection. Improvements at the intersection include installation of turn lanes and bus bays.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$125,030	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$126,251	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$360,351	\$0	\$0	\$0	\$0	\$0
Contingency	\$109,407	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$360,688	\$360,351	\$0	\$0	\$0	\$0	\$0

Operating Description: This project is to add capacity to the existing intersection. No additional O and M is anticipated based on current information.

Project: 67809 - DIF Update (R) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the roadway improvements

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$34,553	\$0	\$0	\$0	\$34,553
TOTAL	\$0	\$0	\$34,553	\$0	\$0	\$0	\$34,553

Operating Description:

Project: 67821 - 95th Avenue Extension (1601) (R) **Funding Source:** Development Impact Fees

Project Description: Project will complete 95th Avenue between Camelback Road and Bethany Home Road. It will include, ROW acquisition, phase I environmental clearance, geotechnical investigation, utility coordination, survey and construction.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$0	\$500,000	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 67930 - Bethany Hm 83rd -91st (1603) (R) **Funding Source:** Development Impact Fees

Project Description: ROW Acquisition, design and construction of Bethany Home North of Center Line. (Stone Haven development agreement).

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$0	\$0	\$650,000	\$641,650	\$0	\$0	\$0
Design	\$0	\$0	\$0	\$150,000	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$1,500,000	\$0	\$0
TOTAL	\$0	\$0	\$650,000	\$791,650	\$1,500,000	\$0	\$0

Operating Description:



PROJECT DETAIL: 1600-DIF-Roadway Improvements **Category: DIF**

Project: 67803 - Dev. Agree. - Signals (N) **Funding Source:** Development Impact Fees

Project Description: Fees charged to developers are used to improve intersections that have experienced increased vehicular traffic generated by new development. This project provides for the installation or upgrades of traffic signals and Intelligent Transportation Systems equipment at various locations throughout the city.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$36,514	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$36,514	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M costs are for the electricity and maintenance of new traffic signal installations. A supplemental budget request will be made as new equipment is added to the system.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Utilities	\$121,550	\$125,190	\$128,950	\$132,820	\$0	\$726,310
Equip. Maint.	\$60,780	\$62,600	\$64,480	\$66,410	\$0	\$363,160



FUND SUMMARY: 1520-DIF-Citywide Open Space **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
70453 Discovery Park	178,943	0	0	0	0	0
70454 Pasadena Park	0	139,157	0	0	0	0
70455 *Thunderbird Park Imprvmts 1520	0	0	0	150,000	0	0
70456 *T-Bird Park Mstr Plan 1520	0	0	34,944	0	0	0
Sub-Total - Existing Assets	178,943	139,157	34,944	150,000	0	0
Total Project Expenses:	\$178,943	\$139,157	\$34,944	\$150,000	\$0	\$0
Total FY 2018 Funding:		\$318,100				

PROJECT DETAIL: 1520-DIF-Citywide Open Space **Category: DIF**

Project: 70453 - Discovery Park (I) **Funding Source:** Development Impact Fees

Project Description: This project will create new amenities and infrastructure related to Discovery Park. Likely improvements include additional trails in the park and trail connections to the adjacent neighborhoods. Other improvements may include picnic ramadas, shaded rest areas, drinking fountains, enhanced open play areas, playground or exercise equipment, and other trail amenities and site improvements that address growth within the city.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$1,500	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$15,443	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$178,943	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed at this time.

Project: 70454 - Pasadena Park (I) **Funding Source:** Development Impact Fees

Project Description: This project will create new amenities and infrastructure related to Pasadena Park. The project is proposed to include a multi-use loop path connection to adjacent sidewalks in the park and to make connections to the adjacent neighborhoods, as well as site improvements that address growth within this area of the city.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$139,157	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$139,157	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed at this time.



PROJECT DETAIL: 1520-DIF-Citywide Open Space

Category: DIF

Project: 70455* - Thunderbird Park Imprvmts 1520 (I)

Funding Source: Development Impact Fees

Project Description:

Thunderbird Conservation Park continues to be one of the more popular facilities within the City of Glendale park system. With over 1,100 acres of undisturbed desert habitat, the ongoing maintenance of the existing eight main trails and the development of additional trails to meet the increasing demand is critical to maintaining the natural desert habitat.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$0	\$0	\$121,700	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$0	\$12,000	\$0	\$0	\$0
Arts	\$0	\$0	\$0	\$1,217	\$0	\$0	\$0
Contingency	\$0	\$0	\$0	\$15,083	\$0	\$0	\$0
TOTAL	\$0	\$0	\$0	\$150,000	\$0	\$0	\$0

Operating Description:

Project: 70456* - T-Bird Park Mstr Plan 1520 (I)

Funding Source: Development Impact Fees

Project Description:

This project will update and revise the existing Thunderbird Conservation Park master plan. This is partial funding of this project, the balance is being requested in Fund 2140 Open Space and Trails in the amount of

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$34,944	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$34,944	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 1460-DIF-Citywide Parks **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
72505 * Oranewood Vista 1460	0	226,536	0	0	0	0
73475 Citywide Park Improv (1461)	0	105,917	0	0	0	0
<i>Sub-Total - Existing Assets</i>	<i>0</i>	<i>332,453</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Total Project Expenses:	\$0	\$332,453	\$0	\$0	\$0	\$0
Total FY 2018 Funding:		\$332,453				

PROJECT DETAIL: 1460-DIF-Citywide Parks **Category: DIF**

Project: 72505* - Oranewood Vista 1460 (I) **Funding Source:** Development Impact Fees

Project Description: This phase will involve developing a two - acre portion of the remaining undeveloped 10-acre joint-use neighborhood park. The improvements will include a concrete pathway, ramada, and landscape. The school and the joint-use park were constructed to address

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$210,536	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$13,895	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$2,105	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$226,536	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 73475 - Citywide Park Improv (1461) (I) **Funding Source:** Development Impact Fees

Project Description: The project would include the construction of additional basketball courts at Heroes Regional Park, Rose Lane and O'Neil community parks to accommodate increased use and population growth. Additionally, we need to add to existing play structures to accommodate the age category 6 months to two years. Current playground events are designed for children ages 2 - 5 and 5 - 12. Recent ASTM and CPSC standards have indicated a need to provide play events for the younger age group. This project meets the 2011 Parks and Recreation Master Plan's primary action plan goals of "Develop and improve shade structures and amenities in parks" and "Revitalize conditions of neighborhood parks".

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$105,917	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$105,917	\$0	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 1480-DIF-Citywide Rec Facility **Category: DIF**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
72806 *Grand Canal Linear Prk Staging	23,150	0	0	0	0	0	0
72807 *Heroes Regional Park Study	30,000	0	0	0	0	0	0
72808 *Thunderbird Park Imprvmt 1480	0	0	123,514	0	0	0	0
72810 *CS Dept Master Plan Update	10,000	0	0	0	0	0	0
72811 *FRAC Enhancements	30,000	0	0	0	0	0	0
72812 *Heroes Regional Park	564,012	0	0	0	0	0	0
72813 *Southern Park Maintenance Area	139,838	0	0	0	0	0	0
<i>Replacement of Existing Assets</i>							
72801 DIF Update	0	0	3,469	0	0	0	3,469
Sub-Total - Existing Assets	797,000	0	126,983	0	0	0	3,469
Total Project Expenses:	\$797,000	\$0	\$126,983	\$0	\$0	\$0	\$3,469
Total FY 2018 Funding:	\$797,000						

PROJECT DETAIL: 1480-DIF-Citywide Rec Facility **Category: DIF**

Project: 72806* - Grand Canal Linear Prk Staging (I) **Funding Source:** Development Impact Fees

Project Description: This project request is for the expansion of the Grand Canal Linear Park Equestrian Staging Facility located south of Bethany Home Road on 79th Avenue to accommodate additional demand for equestrian parking, trail use, and larger horse trailers. The recent completion of an additional segment of the New River trail and future plans to develop the segment of the Grand Canal will complete the connection of the two trails. This project complies with the 2011 Parks and Recreation Master Plan primary action plan recommended major areas of focus according to the priorities and interests of the community to "Improve existing and develop new trails, greenways and complete the Trails Master Plan".

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$8,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$150	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$23,150	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 1480-DIF-Citywide Rec Facility

Category: DIF

Project: 72807* - Heroes Regional Park Study (I)

Funding Source:

Development Impact Fees

Project Description:

The build-out of the remaining portions of the park are currently planned to be construction of an urban lake system, a softball/baseball field complex, soccer fields, open green space, additional walking and riding paths, a recreation and aquatics center, and a western area branch library which were postponed until financial capacity to construct is identified. Staff has continued to plan and/or obtain funding to further phase-in the various planned elements of the park, as appropriate. This project will update the existing master plan with more current and viable data as well as input from the public and key external and internal stakeholders. Staff received direction from the City Council to move forward with this project at the 1/5/16 Workshop session. This project complies with the 2011 Parks and Recreation Master Plan primary action plan recommended major areas of focus according to the priorities and interests of the community to "Complete the Western Area Regional Park".

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 72808* - Thunderbird Park Imprvmt 1480 (I)

Funding Source:

Development Impact Fees

Project Description:

This project will provide funding for the development, construction and installation of park amenities and improvements. These amenities/improvements are in response to the growth in park visitors and users. This project complies with the City Council 2011 approved Parks and Recreation Master Plan secondary action plan recommended major areas of focus according to the priorities and interests of the community to "Enhance and improve Thunderbird Conservation Park".

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$0	\$110,410	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$12,000	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$1,104	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$123,514	\$0	\$0	\$0	\$0

Operating Description:

Project: 72810* - CS Dept Master Plan Update (I)

Funding Source:

Development Impact Fees

Project Description:

With it's inception in July 2014, the Community Services Department became a very diverse department that provide programs and services as well as operates and manages facilities throughout the city. The various work groups that make up the department have or have had previously approved master and strategic plans to help guide their operations, facility management/maintenance and program/service delivery. This project will incorporate existing division or work group master /strategic plans to help create a new department wide plan that will provide recommendations and outcomes based on the new department organizational and financial and structure.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 1480-DIF-Citywide Rec Facility **Category: DIF**

Project: 72811* - FRAC Enhancements (I) **Funding Source:** Development Impact Fees

Project Description: This project will include several facility improvements at the Foothills Recreation and Aquatics Center to address increased programming volume and demand in center use including additional security cameras, the addition of full size lockers to the active area, the installation of a multi-purpose floor in the Coyote Room and the modification of the existing gym floor to accommodate programming expansion.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 72812* - Heroes Regional Park (I) **Funding Source:** Development Impact Fees

Project Description: This project request is for the completion of the half street improvements along the east side of 83rd Avenue at Heroes Regional Park. When the existing phases of the park were completed, the additional half street improvements for the east side of 83rd Avenue north of Bethany Home Road were part of the additional project items that were not completed due to budget and financing issues. Staff received direction from the City Council to move forward with this project at the 1/5/16 Workshop session. This project complies with the 2011 Parks and Recreation Master Plan primary action plan recommended major areas of focus according to the priorities and interests of the community to "Complete the Western Area Regional Park".

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$487,000	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$32,142	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$4,870	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$564,012	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 72813* - Southern Park Maintenance Area (I) **Funding Source:** Development Impact Fees

Project Description: Construct a materials/equipment maintenance area at Heroes Regional Park. Staff received direction from the City Council to move forward with this project at the 1/5/16 Workshop session. This area will provide storage for regular park maintenance materials and equipment. Locating the maintenance area in Heroes Park will help parks maintenance staff decrease the amount of travel time from the Operations Center to the western and southern area park facilities. This project can be expanded to complete the full future planned maintenance facility for Heroes Regional Park.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$126,572	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$12,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$1,266	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$139,838	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 1480-DIF-Citywide Rec Facility **Category: DIF**

Project: 72801 - DIF Update (R) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the citywide recreation

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469
TOTAL	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 1540-DIF-Park Dev Zone 1 **Category: DIF**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
73105 Oranewood Vista 1540	0	124,085	0	0	0	0	0
73525 *Picnic Ramada Expansion 1541	0	52,303	0	0	0	0	0
73575 *Picnic Ramada Expansion 1542	0	177,578	0	0	0	0	0
73576 Bike Park Foothills Park 1542	0	140,000	0	0	0	0	0
73625 *New River Trail Zn 2 W 1543	0	58,312	0	0	0	0	0
<i>Replacement of Existing Assets</i>							
73102 DIF Update	0	0	3,469	0	0	0	3,469
Sub-Total - Existing Assets	0	552,278	3,469	0	0	0	3,469
Total Project Expenses:	\$0	\$552,278	\$3,469	\$0	\$0	\$0	\$3,469
Total FY 2018 Funding:		\$552,278					

PROJECT DETAIL: 1540-DIF-Park Dev Zone 1 **Category: DIF**

Project: 73105 - Oranewood Vista 1540 (I) **Funding Source:** Development Impact Fees

Project Description: This phase will involve developing a two-acre portion of the remaining undeveloped 10-acre joint-use neighborhood park. The improvements will include a concrete pathway, ramada, and landscape. The school and the joint-use park were constructed to address the growth in the area and the increasing student enrollment in the neighboring schools in the Glendale Elementary School District. The service area for this joint-use park is without a neighborhood ramada and concrete walkways. The ramada, concrete pathway, and surrounding ground stabilization are the highest priorities. This project has additional funding in fund 1460 in the amount of \$225,987.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$5,500	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$106,520	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$11,000	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$1,065	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$124,085	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project. Ramada cleaning would simply be incorporated into the park maintenance routine.



PROJECT DETAIL: 1540-DIF-Park Dev Zone 1

Category: DIF

Project: 73525* - Picnic Ramada Expansion 1541 (I)

Funding Source:

Development Impact Fees

Project Description:

The Parks, Recreation and Neighborhood Division's picnic ramadas can be used for both drop-in use as well as rentals. Ramada rentals generate approximately \$140,000 each year and staff have identified several parks that do not currently have picnic ramadas and other parks that are experiencing additional demand for ramada rentals. Parks such as Chapparal, Hillcrest, Oasis and Utopia are just a few parks in this development zone that have a high demand for ramada use.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$40,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$400	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$3,903	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$52,303	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 73575* - Picnic Ramada Expansion 1542 (I)

Funding Source:

Development Impact Fees

Project Description:

The Parks, Recreation and Neighborhood Division's picnic ramadas can be used for both drop-in use as well as rentals. Ramada rentals generate approximately \$140,000 each year and staff have identified several parks that do not currently have picnic ramadas and other parks that are experiencing additional demand for ramada rentals. Parks such as Heritage, Lions, Dos Lagos, Mondo, Sunset do not have ramadas, but have increased activity and demand to warrant the addition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$1,500	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$14,078	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$177,578	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 73576 - Bike Park Foothills Park 1542 (I)

Funding Source:

Development Impact Fees

Project Description:

This is a new project request for a bike park at Foothills Park. The new project request is to construct a bike park adjacent to the existing Sk8 Court at Foothills Park. The existing Sk8 court was designed and built as a skate only facility and the Recreation staff and Park Rangers regularly encounter bikes in the skate court. This request will meet a growing need for a bike facility in this area of the city, keep the existing skate only park safer and reduce additional damage that bikes cause in the skate only facility.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 1540-DIF-Park Dev Zone 1

Category: DIF

Project: 73625* - New River Trail Zn 2 W 1543 (I)

Funding Source:

Development Impact Fees

Project Description:

The New River Trail system is an important link to a region-wide multi-use trail system that meanders throughout Glendale and Maricopa County. During the past several years of budget and funding reductions, the Parks, Recreation and Neighborhood Services staff have leveraged limited funding with other internal (City of Glendale Transportation Department) and external partners (Maricopa County Flood Control District) to continue the development and enhancement of alternate transportation options for Glendale residents. These options are part of a larger regional network of multi-modal trails which connect to other communities and recreational amenities.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$45,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$8,000	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$450	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$4,862	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$58,312	\$0	\$0	\$0	\$0	\$0

Operating Description:

No new additional O & M will be required

Project: 73102 - DIF Update (R)

Funding Source:

Development Impact Fees

Project Description:

Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the neighborhood parks z

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469
TOTAL	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469

Operating Description:



FUND SUMMARY: 1560-DIF-Park Dev Zone 2 **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Improvement of Existing Assets</i>						
73404 Paseo Linear Park Additions	0	165,438	0	0	0	0
<i>Replacement of Existing Assets</i>						
73403 DIF Update	0	0	3,469	0	0	3,469
<i>Sub-Total - Existing Assets</i>	<i>0</i>	<i>165,438</i>	<i>3,469</i>	<i>0</i>	<i>0</i>	<i>3,469</i>
Total Project Expenses:	\$0	\$165,438	\$3,469	\$0	\$0	\$3,469
Total FY 2018 Funding:	\$165,438					

PROJECT DETAIL: 1560-DIF-Park Dev Zone 2 **Category: DIF**

Project: 73404 - Paseo Linear Park Additions (I) **Funding Source:** Development Impact Fees

Project Description: Additional amenities consist of accommodating community growth by expanding the multi-use path, adding pathway pullout nodes to relieve congestion and add additional active recreation play elements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$137,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$12,000	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$1,370	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$15,068	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$165,438	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for these projects.

Project: 73403 - DIF Update (R) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the neighborhood parks z

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469
TOTAL	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469

Operating Description:



FUND SUMMARY: 1580-DIF-Park Dev Zone 3 **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
New Assets						
0						
73702 DIF Update	0	0	3,469	0	0	3,469
Sub-Total - New Assets	0	0	3,469	0	0	3,469
Total Project Expenses:	\$0	\$0	\$3,469	\$0	\$0	\$3,469
Total FY 2018 Funding:	\$0					

PROJECT DETAIL: 1580-DIF-Park Dev Zone 3 **Category: DIF**

Project: 73702 - DIF Update (N) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the neighborhood parks z

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469
TOTAL	\$0	\$0	\$3,469	\$0	\$0	\$0	\$3,469

Operating Description:



FUND SUMMARY: 1380-DIF-Library Buildings **Category: DIF**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrover</u>	<u>New Funding</u>					
New Assets							
0							
74252 *Western Area Library 1380	0	1,755,029	0	0	0	0	0
Sub-Total - New Assets	0	1,755,029	0	0	0	0	0
Total Project Expenses:	\$0	\$1,755,029	\$0	\$0	\$0	\$0	\$0
Total FY 2018 Funding:		\$1,755,029					

PROJECT DETAIL: 1380-DIF-Library Buildings **Category: DIF**

Project: 74252* - Western Area Library 1380 (N) **Funding Source:** Development Impact Fees

Project Description: In October 2014 and after review by the Library Advisory Board and staff, Council provided direction to develop conceptual designs for the possible location of a Western Area Branch Library at either Heroes Regional Park or on the third/fourth floors of the Glendale Media Center. Regardless of its location, the facility would be 7500- 8000 square feet in size and would result in library services provided to this geographic area of Glendale. Should the Council provide direction to move forward with this project, this is a specific "placeholder" request that would provide funding for full design and construction beginning in FY 16-17 and carry into FY 17-18. This project is also funded in fund 1500 in the amount of \$1,370,549.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$1,380,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$49,680	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$13,800	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$311,549	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$1,755,029	\$0	\$0	\$0	\$0	\$0

Operating Description: O&M is included in project Western Area Library 1500.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 1500-DIF-Libraries **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Replacement of Existing Assets</i>						
74752 DIF Update	0	0	17,563	0	0	17,563
Sub-Total - Existing Assets	0	0	17,563	0	0	17,563
New Assets						
0						
74751 Library Books - Pop. Growth	79,261	310,000	135,029	0	0	0
74755 *Western Area Library 1500	328,614	1,046,549	0	0	0	0
Sub-Total - New Assets	407,875	1,356,549	135,029	0	0	0
Total Project Expenses:	\$407,875	\$1,356,549	\$152,592	\$0	\$0	\$17,563
Total FY 2018 Funding:	\$1,764,424					

PROJECT DETAIL: 1500-DIF-Libraries **Category: DIF**

Project: 74752 - DIF Update (R) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the library portion of t

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$17,563	\$0	\$0	\$0	\$17,563
TOTAL	\$0	\$0	\$17,563	\$0	\$0	\$0	\$17,563

Operating Description:

Project: 74751 - Library Books - Pop. Growth (N) **Funding Source:** Development Impact Fees

Project Description: This project requests the use of collected DIF to continue the phased-in approach of increasing the number of library material at the three Glendale libraries using remaining DIF balance previously collected during the high-growth phase of Glendale.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
	\$79,261	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$310,000	\$135,029	\$0	\$0	\$0	\$0
TOTAL	\$79,261	\$310,000	\$135,029	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 1500-DIF-Libraries

Category: DIF

Project: 74755* - Western Area Library 1500 (N)

Funding Source: Development Impact Fees

Project Description:

In October 2014 and after review by the Library Advisory Board and staff, Council provided direction to develop conceptual designs for the possible location of a Western Area Branch Library at either Heroes Regional Park or on the third/fourth floors of the Glendale Media Center. Regardless of its location, the facility would be 7500- 8000 square feet in size and would result in library services provided to this geographic area of Glendale. Should the Council provide direction to move forward with this project, this is a specific "placeholder" request that would provide funding for full design and construction beginning in FY 16-17 and carry into FY 17-18. This project is also funded in fund 1380 in the amount of \$1,755,029.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$318,263	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$1,003,861	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$10,351	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$32,649	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$10,039	\$0	\$0	\$0	\$0	\$0
TOTAL	\$328,614	\$1,046,549	\$0	\$0	\$0	\$0	\$0

Operating Description:

It is estimated O&M for this project is \$600,000 which includes 8.5 FTE's for a 40 hour per week operation. The ongoing O&M impact will be recalculated as a part of the final analysis of this potential project.



FUND SUMMARY: 1420-DIF-Fire Protection Facilities **Category: DIF**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>				
Existing Assets						
<i>Replacement of Existing Assets</i>						
77001 DIF Update	0	0	15,654	0	0	15,654
<i>Sub-Total - Existing Assets</i>	<i>0</i>	<i>0</i>	<i>15,654</i>	<i>0</i>	<i>0</i>	<i>15,654</i>
Total Project Expenses:	\$0	\$0	\$15,654	\$0	\$0	\$15,654
Total FY 2018 Funding:	\$0					

PROJECT DETAIL: 1420-DIF-Fire Protection Facilities **Category: DIF**

Project: 77001 - DIF Update (R) **Funding Source:** Development Impact Fees

Project Description: Development impact fee studies are required to be updated a minimum of every five years. The new fees are expected to take effect July 1, 2014. DIF legislation allows for fees collected to fund the DIF studies and updates. This is the fire facilities port

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$15,654	\$0	\$0	\$0	\$15,654
TOTAL	\$0	\$0	\$15,654	\$0	\$0	\$0	\$15,654

Operating Description:



FUND SUMMARY: 2360-Water & Sewer **Category: Revenue**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
60007 Arrwhd Wtr Reclam Fac Imps	7,000,000	3,308,412	7,038,526	8,853,062	9,300,000	0	0
60008 WAWRF Phase IV	2,500,000	600,000	500,000	500,000	500,000	0	0
60016 West Area WRF Improvements	0	3,500,000	4,800,000	6,300,000	6,000,000	6,100,000	0
<i>Replacement of Existing Assets</i>							
60010 Lab Data Management System	187,429	0	0	0	0	0	0
60014 SCADA Study & Replacement	8,160	450,000	300,000	0	0	0	0
60019 Vehicle Replacement	0	750,000	750,000	500,000	500,000	500,000	2,500,000
Sub-Total - Existing Assets	9,695,589	8,608,412	13,388,526	16,153,062	16,300,000	6,600,000	2,500,000
New Assets							
0							
60015 Asset Mangement Program	200,000	300,000	1,500,000	1,200,000	300,000	0	0
60017 Integrated Water Master Plan	0	0	2,000,000	500,000	0	0	0
60018 *Laboratory Equipment	80,000	80,000	120,000	0	0	0	0
Sub-Total - New Assets	280,000	380,000	3,620,000	1,700,000	300,000	0	0
Total Project Expenses:	\$9,975,589	\$8,988,412	\$17,008,526	\$17,853,062	\$16,600,000	\$6,600,000	\$2,500,000
Total FY 2018 Funding:		\$18,964,001					

PROJECT DETAIL: 2360-Water & Sewer **Category: Revenue**

Project: 60007 - Arrwhd Wtr Reclam Fac Imps (I) **Funding Source:** Water & Sewer Revenues

Project Description: Replace and improve headworks, sand filters, odor control, fiber optics, clarifiers, civil, mechanical and electrical components at the Arrowhead Ranch Water Reclamation Facility. The construction and cash flow period to continue over the next three years

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$230,000	\$383,500	\$484,250	\$507,000	\$0	\$0
Construction	\$0	\$2,700,000	\$5,900,000	\$7,400,000	\$7,800,000	\$0	\$0
Engineering Charges	\$0	\$81,412	\$106,026	\$154,812	\$135,000	\$0	\$0
Arts	\$0	\$27,000	\$59,000	\$74,000	\$78,000	\$0	\$0
Contingency	\$0	\$270,000	\$590,000	\$740,000	\$780,000	\$0	\$0
TOTAL	\$0	\$3,308,412	\$7,038,526	\$8,853,062	\$9,300,000	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2360-Water & Sewer **Category: Revenue**

Project: 60008 - WAWRF Phase IV (I) **Funding Source:** Water & Sewer Revenues

Project Description: Design and construct improvements and rehabilitation to the odor control and disinfection system as identified in the West Area Water Reclamation Facility Phase IV Master Plan.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$254,185	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$1,773,442	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$510,000	\$420,000	\$420,000	\$420,000	\$0	\$0
Finance Charges	\$33,300	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$99,344	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$33,900	\$33,800	\$33,800	\$33,800	\$0	\$0
Arts	\$0	\$5,100	\$4,200	\$4,200	\$4,200	\$0	\$0
Arts	\$26,946	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$51,000	\$42,000	\$42,000	\$42,000	\$0	\$0
Contingency	\$123,500	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$189,283	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$2,500,000	\$600,000	\$500,000	\$500,000	\$500,000	\$0	\$0

Operating Description:

Project: 60016 - West Area WRF Improvements (I) **Funding Source:** Water & Sewer Revenues

Project Description: Evaluate, design and construct improvements to all process areas at the West Area WRF and raw sewage pump station (RSPS). To include improvements to civil, mechanical, plumbing, and electrical systems to continue to produce A+ effluent for reuse and recharge storage.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$315,000	\$382,750	\$480,000	\$470,375	\$570,375	\$0
Construction	\$0	\$2,800,000	\$3,900,000	\$5,100,000	\$4,900,000	\$4,900,000	\$0
Engineering Charges	\$0	\$77,000	\$88,250	\$159,000	\$90,625	\$90,625	\$0
Arts	\$0	\$28,000	\$39,000	\$51,000	\$49,000	\$49,000	\$0
Contingency	\$0	\$280,000	\$390,000	\$510,000	\$490,000	\$490,000	\$0
TOTAL	\$0	\$3,500,000	\$4,800,000	\$6,300,000	\$6,000,000	\$6,100,000	\$0

Operating Description:

Project: 60010 - Lab Data Management System (R) **Funding Source:** Water & Sewer Revenues

Project Description: Purchase of a new information management system to replace the outdated data system. The new information system will interface directly with laboratory instrumentation, integrate quality control processes, eliminate duplicate and manual data entry, and automate regulatory reporting.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$187,429	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$187,429	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: Additional O and M expenses are related to software license renewals/updates and system configuration hardware requirements. The additional O and M will be absorbed by the department.



PROJECT DETAIL: 2360-Water & Sewer **Category: Revenue**

Project: 60014 - SCADA Study & Replacement (R) **Funding Source:** Water & Sewer Revenues

Project Description: Study alternative information and communication systems to develop a plan for improvements and upgrade to new technologies to increase functionality of the Supervisory Control and Data Acquisition (SCADA) system. The system gathers process data for monitoring and controlling the treatment processes.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$400	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$450,000	\$300,000	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$7,760	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$8,160	\$450,000	\$300,000	\$0	\$0	\$0	\$0

Operating Description:

Project: 60019 - Vehicle Replacement (R) **Funding Source:** Water & Sewer Revenues

Project Description: Replacement of vehicles, trucks, and excavation equipment.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$750,000	\$750,000	\$500,000	\$500,000	\$500,000	\$2,500,000
TOTAL	\$0	\$750,000	\$750,000	\$500,000	\$500,000	\$500,000	\$2,500,000

Operating Description:

Project: 60015 - Asset Mangement Program (N) **Funding Source:** Water & Sewer Revenues

Project Description: Study the current asset management information system functions and operational needs. Procure new management system and implement.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$300,000	\$1,500,000	\$1,200,000	\$300,000	\$0	\$0
TOTAL	\$200,000	\$300,000	\$1,500,000	\$1,200,000	\$300,000	\$0	\$0

Operating Description:

Project: 60017 - Integrated Water Master Plan (N) **Funding Source:** Water & Sewer Revenues

Project Description: Conduct a comprehensive study to update the 2003 Water plan as amended in 2008 by the Groundwater plan; 2008 Wastewater plan; and the 2011 Stormwater Management plan and review the reclaimed water resources and use, facilities capacity, and infrastructure needs to serve the City of Glendale now and in the future. Then integrate into a Water Master Plan.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$2,000,000	\$500,000	\$0	\$0	\$0
TOTAL	\$0	\$0	\$2,000,000	\$500,000	\$0	\$0	\$0

Operating Description: No additional O and M is needed at this time.



PROJECT DETAIL: 2360-Water & Sewer

Category: Revenue

Project: 60018* - Laboratory Equipment (N)

Funding Source:

Water & Sewer Revenues

Project Description:

Replace aging ion chromatograph and deionized water system.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$80,000	\$120,000	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$80,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$80,000	\$80,000	\$120,000	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 2400-Water **Category: Revenue**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>	
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>						
Existing Assets								
<i>Improvement of Existing Assets</i>								
61023	Water System Security	20,900	150,000	150,000	150,000	150,000	500,000	
61024	Cholla Water Plant Process Imp	1,000,000	3,550,000	7,602,099	15,200,000	3,000,000	6,100,000	
61043	Pyramid Peak WTP Process Imp.	913,280	3,087,139	4,775,302	6,164,517	7,700,000	6,100,000	
61045	Thunderbird Reservoir Misc. Im	371,672	600,000	500,000	1,250,000	0	0	
61047	Citywide Meter Vault Imp	35,430	1,150,000	850,000	600,000	400,000	0	
61049	Zone 3 Water Supply Imp.	623,250	1,000,000	250,000	0	600,000	0	
61054	Distrib Sys Imprv - Citywide	583,385	500,000	500,000	500,000	500,000	0	
61055	Oasis WTP Improvements	0	1,000,000	1,500,000	500,000	0	7,000,000	
61060	*67th Ave Water line improv	0	0	600,000	1,000,000	500,000	0	
<i>Replacement of Existing Assets</i>								
61001	Fire Hydrant Replacement	29,142	1,350,000	850,000	0	0	0	
61013	Water Line Replacement	1,000,000	3,000,000	2,000,000	1,500,000	0	0	
61048	City Wide Well Rehab	517,363	1,000,000	1,350,000	1,000,000	950,000	0	
61060	Water Supply Redundancy	0	0	500,000	0	0	0	
61061	Water Capital Equipment	0	1,000,000	2,000,000	1,000,000	0	0	
Sub-Total - Existing Assets		5,094,422	17,387,139	23,427,401	28,864,517	13,800,000	2,150,000	19,700,000
New Assets								
0								
61019	Storage and Recovery Well	0	0	0	700,000	700,000	2,900,000	3,000,000
61027	Water Line Extension	0	0	300,000	650,000	500,000	0	0
61038	Loop 101 Water Treatment Plant	0	0	0	0	0	0	43,023,225
61051	Accural of Long-term Water Sto	0	600,000	600,000	700,000	700,000	500,000	2,500,000
61052	Recharge Storage Assessment	321,260	400,000	0	600,000	800,000	0	0
61056	White Mtn Apache Water Rights	0	3,500,000	3,500,000	0	0	0	0
61058	*Pyramid Peak WTP 15MGD Exp.	468,303	1,914,287	10,227,057	27,793,628	12,627,840	0	0
Sub-Total - New Assets		789,563	6,414,287	14,627,057	30,443,628	15,327,840	3,400,000	48,523,225
Total Project Expenses:		\$5,883,985	\$23,801,426	\$38,054,458	\$59,308,145	\$29,127,840	\$5,550,000	\$68,223,225
Total FY 2018 Funding:		\$29,685,411						

PROJECT DETAIL: 2400-Water **Category: Revenue**



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61023 - Water System Security (I) **Funding Source:** Water & Sewer Revenues

Project Description: Installation of equipment citywide to further enhance security of the city's water supply, treatment plants, and distribution system.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$125,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$500,000
Engineering Charges	\$0	\$25,000	\$11,250	\$11,250	\$11,250	\$11,250	\$0
Arts	\$0	\$0	\$1,250	\$1,250	\$1,250	\$1,250	\$0
Contingency	\$0	\$0	\$12,500	\$12,500	\$12,500	\$12,500	\$0
Miscellaneous/Other	\$20,900	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$20,900	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	\$500,000

Operating Description: No additional O and M is needed for this project.

Project: 61024 - Cholla Water Plant Process Imp (I) **Funding Source:** Water & Sewer Revenues

Project Description: Improve and rehabilitate all process areas and key component systems throughout the treatment plant, administration building, reservoir, and at the booster station.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$310,000	\$447,000	\$1,258,000	\$325,000	\$0	\$1,000,000
Design	\$269,704	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$2,800,000	\$6,400,000	\$12,200,000	\$2,500,000	\$0	\$5,000,000
Construction	\$299,750	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$49,500	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$146,151	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$132,000	\$108,699	\$150,000	\$150,000	\$0	\$38,333
Arts	\$52,647	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$28,000	\$6,400	\$122,000	\$25,000	\$0	\$50,000
Contingency	\$0	\$280,000	\$640,000	\$1,470,000	\$0	\$0	\$0
Miscellaneous/Other	\$182,248	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$11,667
TOTAL	\$1,000,000	\$3,550,000	\$7,602,099	\$15,200,000	\$3,000,000	\$0	\$6,100,000

Operating Description:



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61043 - Pyramid Peak WTP Process Imp. (I) **Funding Source:** Water & Sewer Revenues

Project Description: Improve and rehabilitate all process areas and key component systems throughout the treatment plant. Construct chlorine gas generation facility in last five years to replace use of 1-ton containers. City of Peoria shares in the capital and operating costs of the plant. They will fund 23% of the total costs.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$513,280	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$189,000	\$724,052	\$267,159	\$686,000	\$226,250	\$950,000
Construction	\$0	\$2,580,000	\$3,500,000	\$5,250,000	\$6,200,000	\$1,500,000	\$5,000,000
Construction	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$10,111	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$33,889
Engineering Charges	\$62,162	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$34,339	\$166,250	\$69,858	\$132,000	\$108,750	\$52,838
Arts	\$58,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$25,800	\$35,000	\$52,500	\$62,000	\$15,000	\$50,000
Contingency	\$0	\$258,000	\$350,000	\$525,000	\$620,000	\$150,000	\$0
Miscellaneous/Other	\$69,727	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$13,273
TOTAL	\$913,280	\$3,087,139	\$4,775,302	\$6,164,517	\$7,700,000	\$2,000,000	\$6,100,000

Operating Description: No additional O and M is required for this project.

Project: 61045 - Thunderbird Reservoir Misc. Im (I) **Funding Source:** Water & Sewer Revenues

Project Description: The project includes a study to evaluate alternatives for enhancing water quality and the feasibility of adding 3-phase power at the Thunderbird Reservoir. Once the study is completed, design and construction of the recommended improvements are projected to proceed.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$47,500	\$45,000	\$77,000	\$0	\$0	\$0
Construction	\$0	\$475,000	\$385,000	\$1,025,000	\$0	\$0	\$0
Construction	\$351,672	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$2,500	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$25,500	\$27,650	\$44,475	\$0	\$0	\$0
Engineering Charges	\$10,222	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$4,500	\$3,850	\$1,025	\$0	\$0	\$0
Arts	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$4,978	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$47,500	\$38,500	\$102,500	\$0	\$0	\$0
TOTAL	\$371,672	\$600,000	\$500,000	\$1,250,000	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61047 - Citywide Meter Vault Imp (I) **Funding Source:** Water & Sewer Revenues

Project Description: Improve meter vault access per the city's design standards and rehabilitate, as needed, vault structure to meet safety requirements. Improve 124 vaults in four phases over multiple years.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$200,000	\$0	\$0	\$0	\$0
Construction	\$0	\$1,000,000	\$522,000	\$547,200	\$348,950	\$0	\$0
Engineering Charges	\$4,000	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$40,000	\$23,000	\$23,000	\$23,000	\$0	\$0
Arts	\$0	\$10,000	\$5,000	\$5,500	\$3,750	\$0	\$0
Arts	\$11,430	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$100,000	\$100,000	\$24,300	\$24,300	\$0	\$0
Miscellaneous/Other	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$35,430	\$1,150,000	\$850,000	\$600,000	\$400,000	\$0	\$0

Operating Description: No additional O and M is needed for this project.

Project: 61049 - Zone 3 Water Supply Imp. (I) **Funding Source:** Water & Sewer Revenues

Project Description: Rehabilitate specific portions of large water transmission main and related valves at 67th Avenue and Deer Valley Road and make improvements at the Hillcrest booster station to add reliability and redundancy within pressure Zone 2 and Zone 3 of the distribution system.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$80,000	\$226,500	\$0	\$0	\$0	\$0
Construction	\$573,250	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$800,000	\$0	\$0	\$525,000	\$0	\$0
Engineering Charges	\$29,700	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$32,000	\$23,500	\$0	\$17,250	\$0	\$0
Arts	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$8,000	\$0	\$0	\$5,250	\$0	\$0
Contingency	\$0	\$80,000	\$0	\$0	\$52,500	\$0	\$0
Miscellaneous/Other	\$15,800	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$623,250	\$1,000,000	\$250,000	\$0	\$600,000	\$0	\$0

Operating Description: No additional O and M is needed at this time.



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61054 - Distrib Sys Imprv - Citywide (I) **Funding Source:** Water & Sewer Revenues

Project Description: Replace and rehabilitate pressure reduction valves, water instrumentation, flow meters, and transmission mains connections. Develop a citywide water modeling plan for the water distribution system.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$200,000	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$475,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$425,000	\$425,000	\$425,000	\$0	\$0
Construction	\$295,635	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$48,450	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$25,000	\$28,250	\$28,250	\$28,250	\$0	\$0
Arts	\$0	\$0	\$4,250	\$4,250	\$4,250	\$0	\$0
Arts	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$42,500	\$42,500	\$42,500	\$0	\$0
Miscellaneous/Other	\$29,300	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$583,385	\$500,000	\$500,000	\$500,000	\$500,000	\$0	\$0

Operating Description:

Project: 61055 - Oasis WTP Improvements (I) **Funding Source:** Water & Sewer Revenues

Project Description: Study both the surface and groundwater treatment plants' condition. Design and construct efficiency and operation upgrades. Replace filter underdrain infrastructure and make improvements to booster pump station. Replace brine ponds in FY2022-23.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$72,000	\$87,500	\$0	\$0	\$0	\$1,200,000
Construction	\$0	\$800,000	\$1,250,000	\$0	\$0	\$0	\$5,500,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$32,881
Engineering Charges	\$0	\$40,000	\$25,000	\$0	\$0	\$0	\$68,861
Arts	\$0	\$8,000	\$12,500	\$0	\$0	\$0	\$55,000
Contingency	\$0	\$80,000	\$125,000	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$500,000	\$0	\$0	\$143,258
TOTAL	\$0	\$1,000,000	\$1,500,000	\$500,000	\$0	\$0	\$7,000,000

Operating Description:



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61060* - 67th Ave Water line improv (I) **Funding Source:** Water & Sewer Revenues

Project Description: Assess and rehabilitate water lines and connections south of Jomax along 67th Avenue.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$150,000	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$875,000	\$424,001	\$0	\$0
Engineering Charges	\$0	\$0	\$45,000	\$28,750	\$28,250	\$0	\$0
Arts	\$0	\$0	\$15,000	\$8,750	\$5,249	\$0	\$0
Contingency	\$0	\$0	\$0	\$87,500	\$42,500	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$390,000	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$600,000	\$1,000,000	\$500,000	\$0	\$0

Operating Description:

Project: 61001 - Fire Hydrant Replacement (R) **Funding Source:** Water & Sewer Revenues

Project Description: Program to replace or rehabilitate approximately 290 fire hydrant and 260 water valves annually. Within the distribution system, there are over 8,400 fire hydrants and 24,000 water valves. Priority is determined by age and loss of function.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$216,000	\$85,000	\$0	\$0	\$0	\$0
Design	\$29,142	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$1,000,000	\$660,000	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$33,000	\$32,400	\$0	\$0	\$0	\$0
Arts	\$0	\$1,000	\$6,600	\$0	\$0	\$0	\$0
Contingency	\$0	\$100,000	\$66,000	\$0	\$0	\$0	\$0
TOTAL	\$29,142	\$1,350,000	\$850,000	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61013 - Water Line Replacement (R) **Funding Source:** Water & Sewer Revenues

Project Description: Program to rehabilitate large diameter water lines as identified in the Water Distribution System Evaluation Study conducted by CH2M-Hill. There are four locations citywide that will be rehabilitated over the next four years. New study will evaluate next rehabilitation locations for future years.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$130,650	\$90,000	\$0	\$0	\$0
Design	\$480,663	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$2,700,000	\$1,650,000	\$1,237,500	\$0	\$0	\$0
Construction	\$326,363	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$44,954	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$54,538	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$27,000	\$37,850	\$36,625	\$0	\$0	\$0
Arts	\$40,000	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$3,000	\$16,500	\$12,375	\$0	\$0	\$0
Contingency	\$0	\$270,000	\$165,000	\$123,500	\$0	\$0	\$0
Miscellaneous/Other	\$53,482	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,000,000	\$3,000,000	\$2,000,000	\$1,500,000	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project.

Project: 61048 - City Wide Well Rehab (R) **Funding Source:** Water & Sewer Revenues

Project Description: Evaluate existing groundwater wells and rehabilitate and improve the equipment to maintain high water quality and delivery service to meet the demand within the water distribution system.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$79,500	\$88,800	\$62,000	\$0	\$0
Design	\$205,162	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$865,000	\$1,100,000	\$785,000	\$800,000	\$0	\$0
Construction	\$200,897	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$4,500	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$39,850	\$49,500	\$39,850	\$0	\$0	\$0
Engineering Charges	\$17,504	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$8,650	\$11,000	\$7,850	\$8,000	\$0	\$0
Arts	\$14,000	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$86,500	\$110,000	\$78,500	\$80,000	\$0	\$0
Contingency	\$75,300	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$517,363	\$1,000,000	\$1,350,000	\$1,000,000	\$950,000	\$0	\$0

Operating Description: No additional O and M is needed for this project.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61060 - Water Supply Redundancy (R) **Funding Source:** Water & Sewer Revenues

Project Description: Water Supply Redundancy

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$38,500	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$385,000	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$34,150	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$3,850	\$0	\$0	\$0	\$0
Contingency	\$0	\$0	\$38,500	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$500,000	\$0	\$0	\$0	\$0

Operating Description:

Project: 61061 - Water Capital Equipment (R) **Funding Source:** Water & Sewer Revenues

Project Description: Replacement of capital equipment at water facilities. Includes PLC and VFD.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$80,000	\$180,000	\$80,000	\$0	\$0	\$0
Construction	\$0	\$880,000	\$1,760,000	\$880,000	\$0	\$0	\$0
Engineering Charges	\$0	\$32,000	\$44,000	\$32,000	\$0	\$0	\$0
Arts	\$0	\$8,000	\$16,000	\$8,000	\$0	\$0	\$0
TOTAL	\$0	\$1,000,000	\$2,000,000	\$1,000,000	\$0	\$0	\$0

Operating Description:

Project: 61019 - Storage and Recovery Well (N) **Funding Source:** Water & Sewer Revenues

Project Description: Install groundwater recharge and recovery wells for the purpose of recharging effluent from the Arrowhead Water Reclamation Facility for "recovering" recharge water credits.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$360,000	\$132,400	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$200,000	\$2,610,000	\$2,800,000
Engineering Charges	\$0	\$0	\$0	\$66,000	\$66,600	\$29,000	\$49,601
Arts	\$0	\$0	\$0	\$0	\$20,000	\$0	\$28,000
Contingency	\$0	\$0	\$0	\$0	\$281,000	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$274,000	\$0	\$261,000	\$122,399
TOTAL	\$0	\$0	\$0	\$700,000	\$700,000	\$2,900,000	\$3,000,000

Operating Description:

Operating Costs	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$338,310
Utilities	\$0	\$0	\$0	\$0	\$0	\$241,650
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$108,740



PROJECT DETAIL: 2400-Water

Category: Revenue

Project: 61027 - Water Line Extension (N)

Funding Source: Water & Sewer Revenues

Project Description:

Water line extensions are installed where needed to extend the city's water transmission and distribution systems to meet projected demand from future development. Projects funded from this account typically involve city participation in pipeline over sizing and other distribution piping extensions as needed to accommodate projected growth.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$260,000	\$63,000	\$48,000	\$0	\$0
Construction	\$0	\$0	\$0	\$500,000	\$390,000	\$0	\$0
Engineering Charges	\$0	\$0	\$14,700	\$32,000	\$18,000	\$0	\$0
Arts	\$0	\$0	\$2,300	\$5,000	\$4,000	\$0	\$0
Contingency	\$0	\$0	\$23,000	\$50,000	\$40,000	\$0	\$0
TOTAL	\$0	\$0	\$300,000	\$650,000	\$500,000	\$0	\$0

Operating Description:

No additional O and M is needed for this project.

Project: 61038 - Loop 101 Water Treatment Plant (N)

Funding Source: Water & Sewer Revenues

Project Description:

Land for the Loop 101 water treatment plant was purchased in FY 2009 with payments from FY 2009 through FY 2013. The design and construction of the new plant has been deferred beyond FY 2022 due to reduced growth estimates.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$35,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$148,225
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$350,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$43,023,225

Operating Description:

A supplemental will be submitted once the project is completed.

Project: 61051 - Accrual of Long-term Water Sto (N)

Funding Source: Water & Sewer Revenues

Project Description:

Utilize Groundwater Saving Facility and Central Arizona Project agreements to accrue long-term water storage credits. Purchase of recharge water for accrual of long-term water storage credits. The goal is to accrue 25,000 acre feet by 2025.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$600,000	\$600,000	\$700,000	\$700,000	\$500,000	\$2,500,000
TOTAL	\$0	\$600,000	\$600,000	\$700,000	\$700,000	\$500,000	\$2,500,000

Operating Description:

No additional O and M is needed at this time.

PROJECT DETAIL: 2400-Water **Category: Revenue**

Project: 61052 - Recharge Storage Assessment (N) **Funding Source:** Water & Sewer Revenues

Project Description: Assessment of additional aquifer recharge capacity options and related hydrologic analyses required for obtaining required regulatory approvals and permits. Construct recharge infrastructure.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$321,260	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$370,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$0	\$525,000	\$700,000	\$0	\$0
Engineering Charges	\$0	\$30,000	\$0	\$17,250	\$23,000	\$0	\$0
Arts	\$0	\$0	\$0	\$5,250	\$7,000	\$0	\$0
Contingency	\$0	\$0	\$0	\$52,500	\$70,000	\$0	\$0
TOTAL	\$321,260	\$400,000	\$0	\$600,000	\$800,000	\$0	\$0

Operating Description: No additional O and M is needed at this time.

Project: 61056 - White Mtn Apache Water Rights (N) **Funding Source:** Water & Sewer Revenues

Project Description: Acquire and develop renewable water supplies to increase the city's designation of assured water supply. Council approved on February 24, 2009, the White Mountain Apache Tribe (WMAT) Water Rights Settlement Agreement. On February 12, 2013, Council approved the Amended and Restated WMAT Water Quantification Agreement. These actions will result in settlement costs to receive up to 2,363 acre-feet of Central Arizona Project (CAP) water per year through a 100-year lease with WMAT and the U.S. Bureau of Reclamation.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$3,500,000	\$3,500,000	\$0	\$0	\$0	\$0
TOTAL	\$0	\$3,500,000	\$3,500,000	\$0	\$0	\$0	\$0

Operating Description:

Project: 61058* - Pyramid Peak WTP 15MGD Exp. (N) **Funding Source:** Water & Sewer Revenues

Project Description: Expand plant treatment capacity to 15 Million Gallons per Day to meet city of Peoria future demand. City of Peoria will fund 100% of all design, construction, and administration costs. Expansion to coincide with other plant improvements. The construction and cash flow period to continue over the next three years..

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$1,850,000	\$425,000	\$1,100,000	\$781,420	\$0	\$0
Design	\$439,428	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$8,755,573	\$23,795,000	\$10,500,000	\$0	\$0
Engineering Charges	\$0	\$64,287	\$83,372	\$281,178	\$191,420	\$0	\$0
Engineering Charges	\$28,875	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$87,555	\$237,950	\$105,000	\$0	\$0
Contingency	\$0	\$0	\$875,557	\$2,379,500	\$1,050,000	\$0	\$0
TOTAL	\$468,303	\$1,914,287	\$10,227,057	\$27,793,628	\$12,627,840	\$0	\$0

Operating Description:



FUND SUMMARY: 2420-Sewer **Category: Revenue**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
63006 Arrowhead Sewer Lines	192,286	500,000	250,000	500,000	2,000,000	2,450,000	0
63010 91st Ave. Construction	223,000	710,000	528,000	500,000	500,000	500,000	2,500,000
63030 Lift Station Recond. Program	500,000	0	500,000	500,000	500,000	0	2,000,000
<i>Replacement of Existing Assets</i>							
63003 99th Ave Interceptor Line	500,000	500,000	100,000	0	0	0	0
63016 Sewer Line Replacement	900,000	500,000	1,100,000	1,000,000	3,000,000	2,100,000	7,000,000
63024 Citywide Manhole Rehab	230,964	1,000,000	500,000	500,000	500,000	500,000	3,250,000
63026 Arrowhead Sewer Lines-phase 2	0	0	0	0	1,100,000	2,550,000	2,000,000
63027 Arrowhead Sewer Lines-phase 3	0	0	0	0	0	0	5,650,000
63031 Wastewater Capital Equipment	0	500,000	500,000	500,000	0	0	0
63032 Wastewater Collect-Imprv	0	500,000	500,000	500,000	0	0	0
Sub-Total - Existing Assets	2,546,250	4,210,000	3,978,000	4,000,000	7,600,000	8,100,000	22,400,000
New Assets							
0							
63008 Sewers for Areas on Septic Sys	0	50,000	0	0	0	0	0
63017 Sewer Line Extension	0	0	600,000	400,000	1,000,000	0	0
63029 *Sewer vactor truck	0	0	400,000	0	0	450,000	0
T3611 Glendale Ave 93rd-99th Ave	0	0	0	0	0	0	3,500,000
Sub-Total - New Assets	0	50,000	1,000,000	400,000	1,000,000	450,000	3,500,000
Total Project Expenses:	\$2,546,250	\$4,260,000	\$4,978,000	\$4,400,000	\$8,600,000	\$8,550,000	\$25,900,000
Total FY 2018 Funding:		\$6,806,250					

PROJECT DETAIL: 2420-Sewer **Category: Revenue**



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63006 - Arrowhead Sewer Lines (I) **Funding Source:** Water & Sewer Revenues

Project Description: To rehabilitate various wastewater collection lines in the Arrowhead Ranch area to improve sewer flow conditions and reduce sewer odors as identified in a report completed by Damon Williams and Associates. Phase 1 - from 79th Ave under loop 101 to ARWRF. The project is in three phases. This is phase 1.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$115,500	\$0	\$277,418	\$0	\$0
Design	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$420,000	\$115,500	\$420,000	\$1,295,000	\$2,250,000	\$0
Construction	\$92,042	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$24,020	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$33,800	\$19,000	\$33,800	\$65,082	\$124,750	\$0
Arts	\$0	\$4,200	\$0	\$4,200	\$10,000	\$5,250	\$0
Arts	\$3,000	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$42,000	\$0	\$42,000	\$352,500	\$20,000	\$0
Contingency	\$23,224	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0
TOTAL	\$192,286	\$500,000	\$250,000	\$500,000	\$2,000,000	\$2,450,000	\$0

Operating Description: No additional O and M is needed for this project.

Project: 63010 - 91st Ave. Construction (I) **Funding Source:** Water & Sewer Revenues

Project Description: Improvements to the regional 91st Ave Wastewater Treatment Plant (WWTP) of which Glendale is part owner as a member of the Sub-Regional Operating Group (SROG). SROG consists of Glendale, Mesa, Phoenix, Tempe and Scottsdale.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$710,000	\$528,000	\$500,000	\$500,000	\$500,000	\$2,500,000
Miscellaneous/Other	\$223,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$223,000	\$710,000	\$528,000	\$500,000	\$500,000	\$500,000	\$2,500,000

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63030 - Lift Station Recond. Program (I) **Funding Source:** Water & Sewer Revenues

Project Description: Evaluate condition, design, and construct improvements to lift stations and related force mains. These facilities operate in a harsh environment, resulting in the need to create a program that will periodically rehabilitate and improve operations.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$41,500	\$41,500	\$41,500	\$0	\$400,000
Design	\$400,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$400,000	\$400,000	\$400,000	\$0	\$1,300,000
Engineering Charges	\$7,586	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$14,500	\$14,500	\$14,500	\$0	\$32,241
Arts	\$0	\$0	\$4,000	\$4,000	\$4,000	\$0	\$13,000
Contingency	\$0	\$0	\$40,000	\$40,000	\$40,000	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$254,759
Miscellaneous/Other	\$92,414	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$500,000	\$0	\$500,000	\$500,000	\$500,000	\$0	\$2,000,000

Operating Description: No additional O and M is needed at this time.

Project: 63003 - 99th Ave Interceptor Line (R) **Funding Source:** Water & Sewer Revenues

Project Description: Rehabilitate portions of the interceptor and related manholes as determined by the Sewer Condition Assessment Study conducted by Project Engineering Consultants. The 99th Avenue interceptor line is the final collector to deliver influent to the 91st Avenue Wastewater Treatment Plant. Glendale owns 70% equity in the line. Additionally, sampling station GL02 will be rehabilitated.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$49,700	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$390,000	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$17,400	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$3,900	\$0	\$0	\$0	\$0	\$0
Contingency	\$0	\$39,000	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0
TOTAL	\$500,000	\$500,000	\$100,000	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63016 - Sewer Line Replacement (R) **Funding Source:** Water & Sewer Revenues

Project Description: Program to replace and rehabilitate sanitary sewer lines ranging in size from 8" to 27" and manholes as identified by the Sewer Evaluation Study prepared by HDR and Camp, Dresser and McKee (CDM) Engineers. Project will be completed in annual phases with priority to critical areas first.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$475,000	\$0	\$80,000	\$192,500	\$170,000	\$1,100,000
Design	\$480,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$950,000	\$800,000	\$2,500,000	\$1,700,000	\$5,700,000
Construction	\$173,039	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$53,352	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$29,000
Engineering Charges	\$77,334	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$25,000	\$45,500	\$32,000	\$32,500	\$26,500	\$39,714
Arts	\$61,800	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$9,500	\$8,000	\$25,000	\$18,500	\$47,000
Contingency	\$0	\$0	\$95,000	\$80,000	\$250,000	\$185,000	\$0
Miscellaneous/Other	\$54,475	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$84,286
TOTAL	\$900,000	\$500,000	\$1,100,000	\$1,000,000	\$3,000,000	\$2,100,000	\$7,000,000

Operating Description: No additional O and M is needed for this project.

Project: 63024 - Citywide Manhole Rehab (R) **Funding Source:** Water & Sewer Revenues

Project Description: Program to rehabilitate existing sewer manholes located throughout the city based on the Sewer Master Plan in annual phases.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$41,500	\$41,500	\$41,500	\$41,500	\$375,000
Design	\$150,000	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$875,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,500,000
Construction	\$62,866	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$39,100
Engineering Charges	\$0	\$28,750	\$14,500	\$14,500	\$14,500	\$14,500	\$46,250
Arts	\$18,098	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$8,750	\$4,000	\$4,000	\$4,000	\$4,000	\$25,000
Contingency	\$0	\$87,500	\$40,000	\$40,000	\$40,000	\$40,000	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$264,650
TOTAL	\$230,964	\$1,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,250,000

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63026 - Arrowhead Sewer Lines-phase 2 (R) **Funding Source:** Water & Sewer Revenues

Project Description: Replace or rehabilitate various sewer collection lines in the Arrowhead Ranch area to improve sewer flow conditions and reduce sewer odors as identified in a report by Damon Williams and Associates. Phase 2 - in Union Hills road from 67th Avenue to 79th Avenue.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$276,640	\$0	\$0
Construction	\$0	\$0	\$0	\$0	\$500,000	\$2,400,000	\$2,000,000
Engineering Charges	\$0	\$0	\$0	\$0	\$28,360	\$76,000	\$0
Arts	\$0	\$0	\$0	\$0	\$5,000	\$24,000	\$0
Contingency	\$0	\$0	\$0	\$0	\$290,000	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$50,000	\$0
TOTAL	\$0	\$0	\$0	\$0	\$1,100,000	\$2,550,000	\$2,000,000

Operating Description:

Project: 63027 - Arrowhead Sewer Lines-phase 3 (R) **Funding Source:** Water & Sewer Revenues

Project Description: Replace or rehabilitate various sewer collection lines in the Arrowhead Ranch area to improve sewer flow conditions and reduce sewer odors as identified in a report by Damon Williams and Associates. Phase 3 - in 67th Avenue from Union Hills to Utopia.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,000,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$27,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$83,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$40,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$5,650,000

Operating Description:

Project: 63031 - Wastewater Capital Equipment (R) **Funding Source:** Water & Sewer Revenues

Project Description: Replacement of capital equipment at wastewater facilities. Includes PLC and VFD.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0
TOTAL	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63032 - Wastewater Collect-Imprv (R) **Funding Source:** Water & Sewer Revenues

Project Description: Study, design and construct improvements to wastewater collection system. Includes air relief valves, odor control, and force mains.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$190,000	\$0	\$190,000	\$0	\$0	\$0
Construction	\$0	\$200,000	\$475,000	\$200,000	\$0	\$0	\$0
Engineering Charges	\$0	\$40,500	\$20,500	\$40,500	\$0	\$0	\$0
Arts	\$0	\$2,000	\$4,500	\$2,000	\$0	\$0	\$0
Contingency	\$0	\$67,500	\$0	\$67,500	\$0	\$0	\$0
TOTAL	\$0	\$500,000	\$500,000	\$500,000	\$0	\$0	\$0

Operating Description:

Project: 63008 - Sewers for Areas on Septic Sys (N) **Funding Source:** Water & Sewer Revenues

Project Description: This project installs sewers in the areas currently on septic systems. This is residential customer driven in which a residential group (subdivision, neighborhood, street, etc.) must request that their area be connected to the city sewer system.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$50,000	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project.

Project: 63017 - Sewer Line Extension (N) **Funding Source:** Water & Sewer Revenues

Project Description: Extend the sewer line from 95th Avenue to the west. Includes oversizing the sewer line and lift station.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$138,000	\$0	\$82,500	\$0	\$0
Construction	\$0	\$0	\$400,000	\$350,000	\$800,000	\$0	\$0
Engineering Charges	\$0	\$0	\$18,000	\$11,500	\$29,500	\$0	\$0
Arts	\$0	\$0	\$4,000	\$3,500	\$8,000	\$0	\$0
Contingency	\$0	\$0	\$40,000	\$35,000	\$80,000	\$0	\$0
TOTAL	\$0	\$0	\$600,000	\$400,000	\$1,000,000	\$0	\$0

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 2420-Sewer **Category: Revenue**

Project: 63029* - Sewer vactor truck (N) **Funding Source:** Water & Sewer Revenues

Project Description: Purchase sewer line cleaner (vactor) truck. Department operates with three such trucks. The oldest entered service in 2005 and has been reconditioned once. This is funding to replace the first one. The other two are scheduled in future years.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$0	\$400,000	\$0	\$0	\$450,000	\$0
TOTAL	\$0	\$0	\$400,000	\$0	\$0	\$450,000	\$0

Operating Description:

Project: T3611 - Glendale Ave 93rd-99th Ave (N) **Funding Source:** Water & Sewer Revenues

Project Description: Design and construct a parallel relief sewer line on Glendale Avenue from 93rd to 99th Avenue as growth occurs in the area.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$600,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,400,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$55,500
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$24,000
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$420,500
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,500,000

Operating Description: No additional O and M is needed for this project.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2210-Transportation Construction **Category: Transportation**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>	
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
Existing Assets							
<i>Improvement of Existing Assets</i>							
65005 ITS Upgrades	436,814	0	528,318	0	0	0	
65006 Bus Pullouts	0	0	327,175	335,223	343,369	1,880,024	
65016 Northern Parkway	644,476	666,247	666,247	666,247	666,247	5,557,465	
65022 Transp. Prog. Engr. Consultant	0	261,350	270,687	276,642	281,116	1,540,969	
65023 *59th Avenue Improvements	0	0	0	0	0	22,289,979	
65042 *51st Ave & Bell Rd	0	0	0	0	0	1,440,153	
65069 Glendale Transportation Plan	337,966	0	0	0	0	890,936	
65078 Airport Matching Funds	163,240	88,142	100,000	50,000	0	160,000	
65088 Downtown Alley Improvements	23,479	0	0	0	0	0	
65089 Pavement Management	224,803	2,000,000	2,000,000	2,000,000	2,000,000	10,000,000	
<i>Replacement of Existing Assets</i>							
65004 Buses/Vans	0	0	0	0	0	650,365	
65014 Transit Support Capital	0	72,600	9,900	0	9,900	121,325	
65083 Speed Cushions	154,888	140,000	0	0	0	0	
65102 Arterial Roadway Improvements	0	6,188,150	0	0	0	0	
T1803 91st Avenue Improv. Turn Lane	0	0	0	0	0	827,620	
Sub-Total - Existing Assets	1,985,666	9,416,489	3,902,327	3,328,112	3,290,732	45,358,836	
New Assets							
0							
65017 Light Rail Design/Construction	0	0	0	0	390,000	99,324,000	
65062 Glendale Sports Facilities Sgn	183,379	0	0	0	0	0	
65063 New River - Multi-use Pathway	723,834	0	0	0	0	0	
65091 Airport RPZ Acquisition	0	1,850,000	1,850,000	0	0	0	
65097 New River North Shareduse Path	0	247,431	0	0	0	0	
65098 Widen 55th Ave for bike lanes	286,089	0	0	0	0	0	
65099 Neighborhood Pathways Connect	0	234,456	0	0	0	0	
65100 *Transit Study - Light Rail	1,000,000	0	0	0	0	0	
65101 *Sidewalk and Curb Improvements	117,406	186,271	124,866	155,699	0	0	
Sub-Total - New Assets	2,310,708	2,518,158	1,974,866	155,699	390,000	99,324,000	
Total Project Expenses:	\$4,296,374	\$11,934,647	\$5,877,193	\$3,483,811	\$3,680,732	\$8,723,374	\$144,682,836
Total FY 2018 Funding:	\$16,231,021						

PROJECT DETAIL: 2210-Transportation Construction **Category: Transportation**

*=New Project, N=New Asset, R=Replacement of Existing Asset, I=Improvement of Existing Asset



PROJECT DETAIL: 2210-Transportation Construction **Category: Transportation**

Project: 65005 - ITS Upgrades (I) **Funding Source:** Half Cent Sales Tax

Project Description: These funds provide local match for three approved federally funded Intelligent Transportation Systems (ITS) projects. Overall, a smart traffic signal system will be implemented that includes communications infrastructure, traffic cameras, message signs, and networking equipment to make the traffic signal system more responsive.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$295,695	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$0	\$528,318	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$141,119	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$436,814	\$0	\$528,318	\$0	\$0	\$0	\$0

Operating Description: O and M costs associated with electricity for new signal heads, cameras and communication equipment as well as maintenance of fiber optic connections. O and M for this project will be identified once federal funds have been secured and the scope of the project is available.

Project: 65006 - Bus Pullouts (I) **Funding Source:** Half Cent Sales Tax

Project Description: Bus pullouts to relieve congestion, improve air quality, and provide traffic and pedestrian safety. Bus pullouts will be constructed at major intersections where there are new bus routes and extensions of existing bus routes.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$49,076	\$50,283	\$51,505	\$52,742	\$282,004
Construction	\$0	\$0	\$278,099	\$284,940	\$291,864	\$298,869	\$1,598,020
TOTAL	\$0	\$0	\$327,175	\$335,223	\$343,369	\$351,611	\$1,880,024

Operating Description: No additional O and M is needed.

Project: 65016 - Northern Parkway (I) **Funding Source:** Half Cent Sales Tax

Project Description: Northern Parkway is envisioned to be a 12.5-mile partial access controlled roadway between Sarival and Grand Avenues. The current funded phase of the project is between Sarival and 91st Avenues and is targeted for completion in FY 2026. This \$320 million project generally includes construction of four through lanes as well as grade separations on the western portion of the project and intersection improvements on the eastern portion. Costs for the project are shared between the region at 70% (\$237 million) and local agencies at 30%. Local partners include Maricopa County, Peoria, and El Mirage. Per intergovernmental agreement, Glendale's portion of local funding is \$37.9 million. To date Glendale has expended approximately \$31.8 million towards this project. Remaining funds will cover design and construction match as well as right-of-way acquisition opportunities during the private development process for adjacent parcels.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$666,247	\$666,247	\$666,247	\$666,247	\$0	\$5,557,465
Miscellaneous/Other	\$644,476	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$644,476	\$666,247	\$666,247	\$666,247	\$666,247	\$0	\$5,557,465

Operating Description: O and M costs are for landscape, water, electrical and other maintenance based on current design. Supplemental budget requests will be made when each project phase is close to completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Utilities	\$0	\$0	\$0	\$0	\$0	\$0
Landscape	\$0	\$0	\$0	\$0	\$0	\$0

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65022 - Transp. Prog. Engr. Consultant (I) **Funding Source:** Half Cent Sales Tax

Project Description: Professional engineering for preparation of design concepts and administration of right-of-way purchase for roadway, bicycle, pedestrian and transit projects. Providing professional engineering recommendations on capital projects and operations and maintenance of completed projects.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$287,863	\$1,540,969
Miscellaneous/Other	\$0	\$261,350	\$270,687	\$276,642	\$281,116	\$0	\$0
TOTAL	\$0	\$261,350	\$270,687	\$276,642	\$281,116	\$287,863	\$1,540,969

Operating Description: No additional O and M is needed.

Project: 65023* - 59th Avenue Improvements (I) **Funding Source:** Half Cent Sales Tax

Project Description: Eight segments from Glendale Avenue to Loop 101 along 59th Avenue to improve traffic conditions. Improvements include elimination of lanes drops, addition of turn lanes, selected widening, installation of medians, landscaping, and addition of bus bays.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$3,641,210
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$18,648,769
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$22,289,979

Operating Description: O & M impact will be identified during the design phase of the project in FY 2025 CIP. Supplemental budget requests, if any, will be made during the FY 2027 budget process.

Project: 65042* - 51st Ave & Bell Rd (I) **Funding Source:** Half Cent Sales Tax

Project Description: Intersection improvements including landscaping and a eastbound right turn lane on Bell Road.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,100,000
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$43,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$11,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$36,153
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,440,153

Operating Description: Minimal amount of O & M impact is anticipated due to this project. O & M cost estimates developed during the design of the project will be used to identify supplemental budget needs.



PROJECT DETAIL: 2210-Transportation Construction **Category: Transportation**

Project: 65069 - Glendale Transportation Plan (I) **Funding Source:** Half Cent Sales Tax

Project Description: This project will update the 2009 City of Glendale Transportation Plan. This Plan will include elements that address roadways, transit, bicycle, pedestrian, Transportation System Management, and include public involvement.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
	\$337,966	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$13,364
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$877,572
TOTAL	\$337,966	\$0	\$0	\$0	\$0	\$0	\$890,936

Operating Description: This Plan update does not require O and M funding.

Project: 65078 - Airport Matching Funds (I) **Funding Source:** Half Cent Sales Tax

Project Description: This project provides matching funds for Glendale Airport projects as identified in the Airport Capital Improvement Program. Funding covers local match for all airport capital costs. Refer to the Airport Capital Fund 2120 for detailed information related to the airport projects.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$13,221	\$40,000	\$25,000	\$0	\$0	\$24,000
Design	\$7,239	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$153,732	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$74,921	\$60,000	\$25,000	\$0	\$0	\$136,000
Arts	\$2,269	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$163,240	\$88,142	\$100,000	\$50,000	\$0	\$0	\$160,000

Operating Description: This project provides local match funds for airport capital projects. Refer to the Airport Capital Fund 2120 projects for O and M impact.

Project: 65088 - Downtown Alley Improvements (I) **Funding Source:** Half Cent Sales Tax

Project Description: Design and construct transformation of existing service alley into a safe environment for pedestrian circulation and limited vehicular traffic. This area has been evaluated and determined that there is a need to address pavement, drainage conditions and alley improvements.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$23,479	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$23,479	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M includes \$2,438 for the maintenance of 10 pedestrian lights, \$1,200 for water, \$300 for landscape maintenance by an outside company, \$2,200 for contracting maintenance and \$300 for electricity. A supplemental budget request will be submitted once the project is near completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$26,520	\$27,320	\$28,140	\$28,980	\$0	\$158,470
Utilities	\$3,180	\$3,280	\$3,380	\$3,480	\$0	\$19,030
Equip. Maint.	\$25,860	\$26,640	\$27,440	\$28,260	\$0	\$154,540
Water	\$12,730	\$13,510	\$13,920	\$0	\$0	\$76,120

PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65089 - Pavement Management (I) Funding Source: Half Cent Sales Tax

Project Description: Project provides for street pavement maintenance. Specific activities included in this project are: surface preparation, repairs and treatments, milling and asphalt overlays as needed.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$154,057	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$1,912,046	\$1,912,046	\$1,912,046	\$1,912,046	\$1,912,046	\$9,560,230
Engineering Charges	\$0	\$17,208	\$17,208	\$17,208	\$17,208	\$17,208	\$86,042
Arts	\$19,120	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$19,120	\$19,120	\$19,120	\$19,120	\$19,120	\$95,602
Contingency	\$0	\$51,626	\$51,626	\$51,626	\$51,626	\$51,626	\$258,126
Contingency	\$51,626	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$224,803	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$10,000,000

Operating Description: No additional O and M is needed for this project.

Project: 65004 - Buses/Vans (R) Funding Source: Half Cent Sales Tax

Project Description: This project replaces buses and vans for local circulators and Dial-a-Ride service. The buses are replaced every four years or when mileage exceeds recommended limits. The funding identified is to match federal funds secured for replacement buses and vans.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$650,365
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$650,365

Operating Description:

Project: 65014 - Transit Support Capital (R) Funding Source: Half Cent Sales Tax

Project Description: To continue delivery of transit services, the replacement of capital items are needed, including computer equipment, support vehicles and radio systems.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$72,600	\$9,900	\$0	\$0	\$9,900	\$121,325
TOTAL	\$0	\$72,600	\$9,900	\$0	\$0	\$9,900	\$121,325

Operating Description: No additional O and M is required for this project. This is a replacement project and is not anticipated to generate new O and M costs.



PROJECT DETAIL: 2210-Transportation Construction **Category: Transportation**

Project: 65083 - Speed Cushions (R) **Funding Source:** Half Cent Sales Tax

Project Description: This project will remove and replace existing modified speed humps with speed cushions and add mitigation devices where warranted. Replacing modified speed humps and constructing new mitigation devices will help address the current backlog of neighborhoods qualifying for traffic mitigation.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$154,888	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$140,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$154,888	\$140,000	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed.

Project: 65102 - Arterial Roadway Improvements (R) **Funding Source:** Half Cent Sales Tax

Project Description: Design fees, ROW acquisition and construction costs for various arterial streets within the City of Glendale.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$0	\$1,700,000	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$200,000	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$4,000,000	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$112,650	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$92,500	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$73,000	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$6,188,150	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: T1803 - 91st Avenue Improv. Turn Lane (R) **Funding Source:** Half Cent Sales Tax

Project Description: Project will construct a right turn lane into a Parking Lot at 91st Ave. and Maryland Ave.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$750,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$12,870
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$32,250
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$7,500
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$827,620

Operating Description:



PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65017 - Light Rail Design/Construction (N) **Funding Source:** Half Cent Sales Tax

Project Description: Project development, design, right-of-way acquisition, utility relocation, construction, and acquisition of light rail vehicles for a light rail facility to be located on an alignment to be determined. Federal and regional funds will fund 71% of the project. Current cost estimates are based on regional plans prepared by Valley Metro.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$390,000	\$6,074,000	\$99,324,000
TOTAL	\$0	\$0	\$0	\$0	\$390,000	\$6,074,000	\$99,324,000

Operating Description: A supplemental budget request will be submitted once the project is near completion in FY 2026.

Project: 65062 - Glendale Sports Facilities Sgn (N) **Funding Source:** Half Cent Sales Tax

Project Description: This provides local funds for design and construction of one potential federally funded and one locally funded Intelligent Transportation Systems projects. These projects includes design, purchase and installation of Dynamic Message Signs on arterial streets and lane control signs around the Glendale Sports Facilities in addition to the communications connections of the signs to the central traffic control system. Once these projects are complete, the message boards will be used for traffic information dissemination as well as parking management.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$183,379	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$183,379	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M for this project is for electrical costs of the message signs. Annual equipment maintenance costs throughout the 10-year expected life of the equipment with an additional \$5,000 per year after five years. A supplemental budget request will be made when project is close to completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$11,940	\$12,300	\$12,670	\$13,050	\$0	\$71,360
Utilities	\$11,940	\$12,300	\$12,670	\$13,050	\$0	\$71,360
Equip. Maint.	\$53,040	\$54,630	\$56,270	\$57,960	\$0	\$316,950

Project: 65063 - New River - Multi-use Pathway (N) **Funding Source:** Half Cent Sales Tax

Project Description: This project is to construct a multiuse path from the Bethany Home Road alignment to Northern Avenue. The project will provide a safe and convenient off-street facility for bicyclists and pedestrians that is part of the regional West Valley Rivers Multimodal Corridor Master Plan. This project has \$2,946,039 in federal funds towards construction costs.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$723,834	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$723,834	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M associated with 8 foot wide landscaped area along a 12,200 foot long multiuse pathway. A supplemental budget request will be made when the project is close to completion.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Utilities	\$100,530	\$103,540	\$106,650	\$109,850	\$0	\$600,700
Landscape	\$120,630	\$124,250	\$127,980	\$131,820	\$0	\$720,840



PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65091 - Airport RPZ Acquisition (N) **Funding Source:** Half Cent Sales Tax

Project Description: Acquire land north of Runway 19 and provide perimeter fencing around new Airport property. ADOT will fund a portion of this land acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$0	\$1,850,000	\$1,850,000	\$0	\$0	\$0	\$0
TOTAL	\$0	\$1,850,000	\$1,850,000	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is anticipated due to this project.

Project: 65097 - New River North Shareduse Path (N) **Funding Source:** Half Cent Sales Tax

Project Description: This project is to design and provide local match funds towards construction of a federally funded shared use pathway. This project is for a bicycle and pedestrian friendly pathway along the east bank of New River from Hillcrest Boulevard to approximately 1/4-mile north. Federal Congestion Mitigation and Air Quality (CMAQ) funding in the amount of \$330,850 has been secured towards construction of this project.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$247,431	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$247,431	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M associated with 20,000 sq ft of landscape identified currently, which could change depending on design options.

Operating Costs	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Utilities	\$0	\$20,000	\$20,600	\$21,220	\$0	\$116,030
Landscape	\$0	\$24,000	\$24,720	\$25,460	\$0	\$139,230

Project: 65098 - Widen 55th Ave for bike lanes (N) **Funding Source:** Half Cent Sales Tax

Project Description: This project is to design and provide local match funds towards construction of a federally funded widening of 55th Avenue to accommodate curb, gutter, sidewalk and bike lanes. This project is to widen 55th Avenue on the west side south of Cactus Road for about 622 ft. Federal Congestion Mitigation and Air Quality (CMAQ) funding in the amount of \$159,266 has been secured towards construction of this project.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Land	\$104,837	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$3,710	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$20,000	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$157,542	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$286,089	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: There is no additional O and M anticipated due to this project.



PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65099 - Neighborhood Pathways Connect (N) **Funding Source:** Half Cent Sales Tax

Project Description: This pathway project provides for design and local match towards construction of connections from Thunderbird Paseo pathway and Skunk Creek pathway to neighborhoods. The project is to provide connections from the Thunderbird Paseo Pathway to neighborhoods at Sweetwater Avenue, Hearn Road, and 71st Avenue. In addition, this project also provides connection from Skunk Creek pathway to the neighborhood at 64th Drive. Federal Congestion Mitigation and Air Quality (CMAQ) funding in the amount of \$107,832 has been secured towards construction of this project.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$234,456	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$234,456	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M associated with approximately 1,000 sq ft of additional landscape maintenance and irrigation.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Utilities	\$0	\$1,000	\$1,030	\$1,060	\$0	\$5,800
Landscape	\$0	\$1,200	\$1,240	\$1,270	\$0	\$6,960

Project: 65100* - Transit Study - Light Rail (N) **Funding Source:** Half Cent Sales Tax

Project Description: This is a light rail or other high capacity transit feasibility study. The study will look into the potential and identify alternatives on providing a high capacity transit connection between Downtown Glendale and the Loop 101 area of west Glendale. The connection would be between potential light rail in Downtown and high activity centers in west Glendale.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: This is a study project, which will not create O & M costs.



PROJECT DETAIL: 2210-Transportation Construction Category: Transportation

Project: 65101* - Sidewalk and Curb Improvements (N) **Funding Source:** Half Cent Sales Tax

Project Description: Installation of new sidewalk and ADA ramps along the north side of Camelback Road to fill in pedestrian facility gaps between 79th Avenue and 83rd Avenue. Installation of new sidewalk and ADA ramps along the north side of Paradise Lane to fill in pedestrian facility gaps between 55th Avenue and 59th Avenue. Installation of curb, gutter, and sidewalks, along east and west side of 67th Avenue between Glendale and Orangewood avenues. Installation of curb, gutter, and sidewalks, along north and south side of Orangewood Avenue between 67th and Grand avenues.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Land	\$0	\$0	\$6,000	\$0	\$0	\$0	\$0
Design	\$80,506	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$100,000	\$52,000	\$0	\$0	\$0	\$0
Construction	\$0	\$42,844	\$30,990	\$147,025	\$0	\$0	\$0
Engineering Charges	\$0	\$6,999	\$4,066	\$7,204	\$0	\$0	\$0
Engineering Charges	\$4,900	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$428	\$310	\$1,470	\$0	\$0	\$0
Equipment	\$2,000	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$6,000	\$1,500	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$30,000	\$30,000	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$30,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$117,406	\$186,271	\$124,866	\$155,699	\$0	\$0	\$0

Operating Description: Installation of missing curb, gutter, and sidewalk along existing roadways.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2000-HURF/Street Bonds **Category: HURF**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Improvement of Existing Assets</i>							
68917	Pavement Management-HURF	9,263,000	1,590,650	3,310,373	3,315,373	2,946,523	2,946,523 16,285,640
<i>Replacement of Existing Assets</i>							
68921	Citywide Concrete/Asphalt Imp.	193,782	0	0	0	0	0
68922	Rusted Street Pole Replacement	0	180,000	180,000	180,000	180,000	180,000 0
Sub-Total - Existing Assets		9,456,782	1,770,650	3,490,373	3,495,373	3,126,523	3,126,523 16,285,640
New Assets							
<i>0</i>							
68918	Infill Lighting Program	237,424	0	0	0	0	0
68919	*Street Lighting LED Conversion	0	5,740,150	0	0	0	0
68923	*Emergency Vehicle Preemption	0	329,789	0	0	0	0
Sub-Total - New Assets		237,424	6,069,939	0	0	0	0
Total Project Expenses:		\$9,694,206	\$7,840,589	\$3,490,373	\$3,495,373	\$3,126,523	\$3,126,523 \$16,285,640
Total FY 2018 Funding:		\$17,534,795					

PROJECT DETAIL: 2000-HURF/Street Bonds **Category: HURF**

Project: 68917 - Pavement Management-HURF (I) **Funding Source:** HURF Bonds

Project Description: Project provides for street pavement maintenance and reconstruction work as identified in the Annual Pavement Management Program. The annual program is funded by Highway User Revenue Fund (HURF) bonds through this project #2000-68917, and by Transportation Half Cent Sales Tax through project #2210-65089. Street maintenance and rehabilitation is necessary to maximize the life of the city's residential, collector, and arterial street network. Streets are selected and scheduled annually within the available funding. Specific activities included in this project are: surface preparation, repairs and treatments, and milling and asphalt overlays a needed throughout the city.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$40,000	\$40,000	\$40,000	\$40,000	\$0
Construction	\$9,127,627	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$1,590,650	\$3,150,000	\$3,150,000	\$2,800,000	\$2,800,000	\$15,498,775
Finance Charges	\$57,500	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$0	\$57,500	\$57,500	\$42,150	\$42,150	\$287,500
Engineering Charges	\$4,373	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$0	\$26,373	\$26,373	\$26,373	\$26,373	\$131,865
Arts	\$68,500	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$0	\$31,500	\$31,500	\$28,000	\$28,000	\$342,500
Miscellaneous/Other	\$5,000	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$0	\$5,000	\$10,000	\$10,000	\$10,000	\$25,000
TOTAL	\$9,263,000	\$1,590,650	\$3,310,373	\$3,315,373	\$2,946,523	\$2,946,523	\$16,285,640

Operating Description: No additional O and M is needed at this time.



PROJECT DETAIL: 2000-HURF/Street Bonds

Category: HURF

Project: 68922 - Rusted Street Pole Replacement (R) **Funding Source:** HURF Bonds

Project Description: The purpose of this project is to remove and replace existing streetlight poles that have been identified for replacement in the Rusted Pole Inspection Program due to excessive rust as the base of the streetlight pole.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$0
TOTAL	\$0	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$0

Operating Description:

Project: 68918 - Infill Lighting Program (N) **Funding Source:** HURF Bonds

Project Description: This project installs additional street lighting in areas determined to be inadequate due to a spacing of 350 feet or greater. Infill street lighting requests are initiated by residents or staff and requires approval of affected residents.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$224,552	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$10,572	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$2,300	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$237,424	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M identified provides for up to 22 requested street light installations per year. Expenses cover electricity and maintenance for a light at \$125 per year, including monitoring.

Project: 68919* - Street Lighting LED Conversion (N) **Funding Source:** HURF Bonds

Project Description: LED (Light Emitting Diode) streetlights are more energy efficient than the city's current HPS (High Pressure Sodium) lights and are shown to have a longer service life. There are 19,000 streetlights that require replacement. The benefit of replacing street lights with LED technology include the reduction of electricity and maintenance costs, projected to be approximately \$550,000 annually.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$5,500,000	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$0	\$82,650	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$92,500	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$55,000	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$5,740,150	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 2000-HURF/Street Bonds **Category: HURF**

Project: 68923* - Emergency Vehicle Preemption (N) **Funding Source:** HURF Bonds

Project Description: *Previous Project # 70809* The fifty-eight (58) high-priority Emergency Vehicle Preemption (EVP) installation intersections (located citywide). Forty-eight (48) will be located at arterial to arterial intersections, five (5) will be located at fire station access signals, and five (5) will be located along high priority corridors.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$311,416	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$0	\$15,259	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$3,114	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$329,789	\$0	\$0	\$0	\$0	\$0

Operating Description: Estimate confirmation lights will need bulb replaced once a year. (58 locations X 4 bulbs X \$5). Estimate 5% of EVP equipment will need to be replaced in first 5 years and then 10% after that. Estimate after 5 years, trouble calls will be 3 visits to each location annually with 75% being after hours. (3 X 58 locations X 2 hr callout X \$30 X 75%).



FUND SUMMARY: 1650-Transportation Grants **Category: Other**

	<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrlover</u>	<u>New Funding</u>				
New Assets						
0						
67505 CIP Transport. Grant Reserve	0	150,000	0	0	0	0
67556 FTA AZ 90-X124	68,055	0	0	0	0	0
Sub-Total - New Assets	68,055	150,000	0	0	0	0
Total Project Expenses:	\$68,055	\$150,000	\$0	\$0	\$0	\$0
Total FY 2018 Funding:	\$218,055					

PROJECT DETAIL: 1650-Transportation Grants **Category: Other**

Project: 67505 - CIP Transport. Grant Reserve (N) **Funding Source:** Grants

Project Description: This represents reserve appropriation for unanticipated transportation related grant opportunities that may arise during the fiscal year.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Contingency	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$150,000	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed.

Project: 67556 - FTA AZ 90-X124 (N) **Funding Source:** Grants

Project Description: Federal Transit Administration (FTA) grant funding for acquisition of replacement transit buses. Savings generated after the acquisition of buses will be applied towards the north Glendale (to be located in the general vicinity of Loop 101/Union Hills Dr) park-and-ride project.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
	\$68,055	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$68,055	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O & M funds needed. The project replaces existing buses that are being maintained.

FUND SUMMARY: 2480-Sanitation **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u> <u>New Funding</u>						
Existing Assets							
<i>Replacement of Existing Assets</i>							
78001 Rolloff Trucks-Commercial	0	0	234,605	0	0	252,644	550,941
78002 Frontload Trucks-Commercial	0	306,911	629,167	322,448	330,509	338,771	2,199,383
78003 Sideload Trucks-Residential	0	282,670	1,158,946	1,187,920	1,217,618	1,248,058	5,902,359
78004 Loose Trash Equip.-Residential	0	0	635,566	651,454	385,408	684,435	3,383,509
78005 Repl Pickup Trucks-Solid Waste	0	0	25,375	25,375	25,375	25,375	76,125
78008 Street Sweeper Replacement	0	0	245,269	251,400	0	0	1,116,744
Sub-Total - Existing Assets	0	589,581	2,928,928	2,438,597	1,958,910	2,549,283	13,229,061
New Assets							
0							
78006 *Solid Waste Office Space Study	0	0	203,000	203,000	203,000	203,000	1,015,000
78007 *Solid Waste Information System	0	0	100,000	0	0	0	0
Sub-Total - New Assets	0	0	303,000	203,000	203,000	203,000	1,015,000
Total Project Expenses:	\$0	\$589,581	\$3,231,928	\$2,641,597	\$2,161,910	\$2,752,283	\$14,244,061
Total FY 2018 Funding:		\$589,581					

PROJECT DETAIL: 2480-Sanitation **Category: Other**

Project: 78001 - Rolloff Trucks-Commercial (R) **Funding Source:** Sanitation Revenues

Project Description: Sanitation currently has three roll-off trucks in its equipment fleet for its commercial roll-off service. Three roll-off trucks will require replacement over the next ten years as their individual life is nine years. Sanitation vehicles are not included in the vehicle replacement fund. Instead the vehicles are purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$3,467	\$0	\$0	\$3,734	\$8,142
Equipment	\$0	\$0	\$231,138	\$0	\$0	\$248,910	\$542,799
TOTAL	\$0	\$0	\$234,605	\$0	\$0	\$252,644	\$550,941

Operating Description: No additional O and M is needed since this is the replacement of existing equipment.

Project: 78002 - Frontload Trucks-Commercial (R) **Funding Source:** Sanitation Revenues

Project Description: Sanitation currently has 8 frontload trucks and a container delivery truck in its equipment fleet for its Commercial frontload service. At the current replacement schedule of six years for newly purchased equipment, 10 frontload trucks and the container truck will require replacement over the next ten years. Sanitation vehicles are not included in the vehicle replacement fund. Instead the vehicles are purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$9,298	\$4,765	\$4,884	\$5,006	\$32,503
Equipment	\$0	\$306,911	\$619,869	\$317,683	\$325,625	\$333,765	\$2,166,880
TOTAL	\$0	\$306,911	\$629,167	\$322,448	\$330,509	\$338,771	\$2,199,383

Operating Description: No additional O and M is needed since this is the replacement of existing equipment.



PROJECT DETAIL: 2480-Sanitation

Category: Other

Project: 78003 - Sideload Trucks-Residential (R)

Funding Source:

Sanitation Revenues

Project Description:

Sanitation currently has 26 side load trucks in its equipment fleet for its residential Solid Waste and recycling collection routes. A total of 37 side load trucks will be purchased over the next ten years as each truck has a six year replacement schedule. Sanitation vehicles are not included in the vehicle replacement fund. Instead the vehicles are purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$17,127	\$17,555	\$17,994	\$18,444	\$79,247
Equipment	\$0	\$282,670	\$1,141,819	\$1,170,365	\$1,199,624	\$1,229,614	\$5,823,112
TOTAL	\$0	\$282,670	\$1,158,946	\$1,187,920	\$1,217,618	\$1,248,058	\$5,902,359

Operating Description:

No additional O and M is needed since this is the replacement of existing equipment.

Project: 78004 - Loose Trash Equip.-Residential (R)

Funding Source:

Sanitation Revenues

Project Description:

Sanitation currently has 12 rearload trucks and 6 tractors in its equipment fleet for its loose trash collection routes. At the current replacement schedule of eight years for newly purchased equipment, 15 rearload trucks and 8 tractors will require replacement over the next ten years. The number of trucks to be replaced each year are the following: one truck and one tractor in FY2017; two trucks and one tractor in FY2018; two trucks in FY2019; one truck and a one tractor in FY2020; one truck and one tractor FY2021; and a total of eight trucks and four tractors during the second five years (FY2022-2026). Sanitation vehicles are not included in the vehicle replacement fund, rather the vehicles are purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$9,393	\$9,627	\$5,696	\$10,115	\$50,003
Equipment	\$0	\$0	\$626,173	\$641,827	\$379,712	\$674,320	\$3,333,506
TOTAL	\$0	\$0	\$635,566	\$651,454	\$385,408	\$684,435	\$3,383,509

Operating Description:

No additional O and M is needed since this is the replacement of existing equipment.

Project: 78005 - Repl Pickup Trucks-Solid Waste (R)

Funding Source:

Sanitation Revenues

Project Description:

Sanitation currently has six pickup trucks and two mechanic service trucks in its equipment fleet, which will require replacement over the next ten years. FY2018 - replace two pickup trucks at a cost of \$34,363 and one mechanic truck at a cost \$ 62,000. Sanitation vehicles are not included in the vehicle replacement fund. Instead the vehicles are purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$375	\$375	\$375	\$375	\$1,125
Equipment	\$0	\$0	\$25,000	\$25,000	\$25,000	\$25,000	\$75,000
TOTAL	\$0	\$0	\$25,375	\$25,375	\$25,375	\$25,375	\$76,125

Operating Description:

No additional O and M is needed since this is the replacement of existing equipment.



PROJECT DETAIL: 2480-Sanitation

Category: Other

Project: 78008 - Street Sweeper Replacement (R) **Funding Source:** Sanitation Revenues

Project Description: Replace street sweeper trucks assigned to Solid Waste

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$3,625	\$3,715	\$0	\$0	\$16,152
Equipment	\$0	\$0	\$241,644	\$247,685	\$0	\$0	\$1,100,592
TOTAL	\$0	\$0	\$245,269	\$251,400	\$0	\$0	\$1,116,744

Operating Description:

Project: 78006* - Solid Waste Office Space Study (N) **Funding Source:** Sanitation Revenues

Project Description: This project is for a new sanitation administration building. Staff are currently located in a trailer on the grounds of the field operations complex. The trailer was installed 13 years ago as a temporary solution.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$0	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Finance Charges	\$0	\$0	\$3,000	\$3,000	\$3,000	\$3,000	\$15,000
TOTAL	\$0	\$0	\$203,000	\$203,000	\$203,000	\$203,000	\$1,015,000

Operating Description: New furniture and office technology.

Project: 78007* - Solid Waste Information System (N) **Funding Source:** Sanitation Revenues

Project Description: This project is Solid Waste Information System (SWIS), either as an in-house City hosted or "Software as a Service" (SaaS) vendor hosted solution. It will be a comprehensive, integrated, enterprise-level Solution for solid waste operations which includes; system software, in-vehicle mobile devices, configuration/implementation/conversion services, and product training/support. It is believed that a new system Solution will bring more operational efficiencies, reduce costs and potentially increase revenues.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0
TOTAL	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 2440-Landfill **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
Existing Assets							
<i>Improvement of Existing Assets</i>							
78523	Scalehouse & Road Relocation	294,537	0	0	0	0	0
78526	LF Gas System Modifications	0	300,000	0	375,000	0	0
78527	MRF Process Line Improvements	1,219,257	0	0	0	0	0
78528	Northern Ave LF Improvements	247,725	0	0	0	235,000	0
<i>Replacement of Existing Assets</i>							
78506	Landfill Repl Pickup Trucks	0	62,400	75,000	0	0	274,723
78509	MRF Forklifts	0	0	0	0	43,399	99,743
78511	Landfill Compactor Replacement	0	100,000	0	500,000	1,310,242	2,091,750
78512	Fuel Tanker Replacement	0	0	0	0	0	244,017
78514	Sanitation Inspection Trucks	25,334	0	0	44,995	30,416	138,440
78520	Landfill Bulldozer Replacement	0	0	0	0	1,306,147	1,800,489
78521	MRF Loader Replacement	0	0	0	0	474,962	577,865
78522	LF Water Pull Tractor Replace	0	0	0	741,031	0	315,931
78524	Landfill Motor Grader Replace	0	0	0	0	0	807,350
78525	Landfill Scraper Equipment	0	0	0	837,375	0	1,926,449
78530	Manlift MRF	0	26,390	26,390	0	637,103	0
78531	Light Duty Vehicle Replacement	0	56,840	0	0	0	0
T1808	Auxilliary Equipment	0	0	54,891	0	29,685	64,215
Sub-Total - Existing Assets		1,786,853	545,630	156,281	2,498,401	4,066,954	8,340,972
New Assets							
0							
78503	Landfill Closure (South)	483,422	0	325,000	125,000	350,000	750,000
78505	LF Phase Construction (North)	3,210,924	500,000	500,000	250,000	100,000	7,546,235
78507	Landfill Soil Excavation	0	125,000	125,000	125,000	125,000	3,679,973
78529	*New Bulldozer Purchase	435,625	0	0	0	0	0
Sub-Total - New Assets		4,129,971	625,000	950,000	500,000	575,000	11,976,208
Total Project Expenses:		\$5,916,824	\$1,170,630	\$1,106,281	\$2,998,401	\$4,641,954	\$10,724,397
Total FY 2018 Funding:		\$7,087,454					

PROJECT DETAIL: 2440-Landfill **Category: Other**



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78523 - Scalehouse & Road Relocation (I)

Funding Source:

Landfill Revenues

Project Description:

This project provides funding in FY 2016 for Phase 2 of the project and includes the relocation of the equipment maintenance area as well as the fueling station. Construction of Phase 1 of the project, which included relocation of the scalehouse and administrative office trailer as well as realignment of the entrance road will have occurred by the end of FY 2015 at a project cost of \$3,906,631. Completion of both phases of this project is necessary to relocate the scale house and other landfill facilities outside of an area in which waste will be placed and prior to closing the south area of the landfill. According to the landfills waste capacity calculations, it will take approximately one year to fill the permitted air space in which the facilities are located currently. It will be necessary to relocate all existing structures occupying this space by 2016 based on our anticipated waste acceptance rate.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$294,537	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$294,537	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

No additional O and M is required for this project.

Project: 78526 - LF Gas System Modifications (I)

Funding Source:

Landfill Revenues

Project Description:

The City is required by federal and state environmental regulations to install and maintain an active gas collection system within the landfill. Project provides for improvements to the existing gas collection system including retrofits, extensions, additions, and modifications to the vertical and horizontal extraction wells and lateral collection pipes. Because the gas wells and collection pipes presently are located above-ground level within the active landfill area, it is necessary to complete the gas well modifications and improvements ahead of filling the landfill sections with additional waste. Project includes burying of the above-ground lateral collection pipes to allow for simpler waste filling operations. Project scope also includes expansion of the horizontal and/or vertical gas collection wells in the final filling area (i.e. scale area). Project is required to maintain sequencing plan developed for waste filling in the landfill through the end of FY2017.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$300,000	\$0	\$375,000	\$0	\$0	\$0
TOTAL	\$0	\$300,000	\$0	\$375,000	\$0	\$0	\$0

Operating Description:

No additional O and M is needed at this time.

Project: 78527 - MRF Process Line Improvements (I)

Funding Source:

Landfill Revenues

Project Description:

The Materials Recovery Facility first opened its doors in July of 2000. Since then the MRF has processed over 350,000 tons of recyclable material and recouped over \$29,750,000 dollars in revenue. The facility has many moving components and those components have worn over the years. The system is now in need of major renovations and upgrades in order to meet current industry standards with regards to the technology found in today's recycling processing facilities. The projects to be completed in fiscal years 2016 and 2017 will allow the MRF to install state of the art technology to help capture more recyclables and decrease labor hours in some areas of the facility thus increasing city revenue.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$19,305	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$1,199,952	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,219,257	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78528 - Northern Ave LF Improvements (I) **Funding Source:** Landfill Revenues

Project Description: This project provides funding for a block wall that will extend to the west along the landfill property at approximately 115th Ave and Northern. It will also allow for the relocation of approximately twenty existing cacti that are to be removed due to the Northern Avenue Parkway construction project. There are currently forty cacti along the right of way that was recently sold to the Maricopa County Department of Transportation (MCDOT). Twenty of the cacti will be donated to the Northern Avenue Parkway Project and will be relocated within Glendale in conjunction with the project and the remaining twenty will be relocated within the Landfill property at Glendale's expense.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$235,000	\$0	\$0
Construction	\$167,493	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$12,012	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$1,820	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$41,400	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$25,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$247,725	\$0	\$0	\$0	\$235,000	\$0	\$0

Operating Description:

Project: 78506 - Landfill Repl Pickup Trucks (R) **Funding Source:** Landfill Revenues

Project Description: Landfill currently has six pickup trucks in its equipment fleet that will require replacement over the next ten years. Pickup trucks are used by the landfill inspector, mechanic, crew leader, supervisor, and field employees. This project includes the replacement of four trucks reaching the end of their service life during FY 2019 and 2020. Trucks purchased in 2015 will be replaced in 2025. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the vehicles are purchased with cash or financed at the time of purchase.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$62,400	\$75,000	\$0	\$0	\$0	\$274,723
TOTAL	\$0	\$62,400	\$75,000	\$0	\$0	\$0	\$274,723

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of

Project: 78509 - MRF Forklifts (R) **Funding Source:** Landfill Revenues

Project Description: The Materials Recovery Facility (MRF) currently has a total of four forklifts in its fleet used for a variety of heavy lifting purposes including loading, unloading, and transporting recyclable bales. The MRF forklifts have an estimated service life of approximately five years, although replacement schedules may be adjusted depending on hours of use and equipment condition. This project includes the replacement of two forklifts that are expected to reach the end of their serviceable lives in FY17 and FY18 as well as replacement of two forklifts that will be due for replacement in FY 2021. At this current replacement schedule, two of the four forklifts also will require replacement during the second five years (FY 2022-2026). MRF vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$0	\$0	\$641	\$1,334	\$1,474
Equipment	\$0	\$0	\$0	\$0	\$42,758	\$88,938	\$98,269
TOTAL	\$0	\$0	\$0	\$0	\$43,399	\$90,272	\$99,743

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of

PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78511 - Landfill Compactor Replacement (R) **Funding Source:** Landfill Revenues

Project Description: This project provides for the rebuild and or replacement of the landfill compactors, one 836H and one 836K, at the end of their serviceable life or on an appropriate schedule based on current usage hours and equipment condition. The compactors are now being equipped with GPS systems, which will increase landfill compaction and decrease the use of soil for covering waste. The compactors are essential pieces of equipment used on a daily basis for proper placement and compaction of solid waste within the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund; instead the equipment is purchased with cash or financed at time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$100,000	\$0	\$500,000	\$1,310,242	\$0	\$2,091,750
TOTAL	\$0	\$100,000	\$0	\$500,000	\$1,310,242	\$0	\$2,091,750

Operating Description: No additional O and M is needed since new equipment will replace existing equipment this is expected to reach the end of its serviceable life.

Project: 78512 - Fuel Tanker Replacement (R) **Funding Source:** Landfill Revenues

Project Description: Replacement of the fuel tanker, which was purchased in 2008, and is expected to reach the end of its serviceable life in FY 2018. The fuel tanker truck transports diesel fuel from the onsite storage tank to the landfill heavy equipment located on the active waste disposal area. It is an essential piece of support equipment at the landfill for maximizing operational efficiencies and minimizing equipment downtime. Landfill equipment is not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$3,606
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$240,411
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$244,017

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

Project: 78514 - Sanitation Inspection Trucks (R) **Funding Source:** Landfill Revenues

Project Description: This project includes the purchase of seven replacement pickups over a 10-year period. Service life is projected to be approximately seven years and each truck will be replaced based on year of purchase, mileage and condition of the vehicle. Sanitation Inspectors utilize their assigned vehicles daily to educate residents on proper procedures for services and enforce regulations related to refuse collection, recycling collection and bulk trash services. The Sanitation Inspection vehicles are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$25,334	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$0	\$0	\$44,995	\$30,416	\$0	\$138,440
TOTAL	\$25,334	\$0	\$0	\$44,995	\$30,416	\$0	\$138,440

Operating Description: No additional O and M is needed for this project.



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78520 - Landfill Bulldozer Replacement (R) **Funding Source:** Landfill Revenues

Project Description: Project provides for the rebuild and/or replacement of the landfill bulldozers at the end of their serviceable life or on an appropriate schedule based on current usage hours and equipment condition. A certified powertrain rebuild and undercarriage track replacement was performed on the D8 in FY16. The D9 will undergo a similar repair in FY17. During these rebuilds the landfill will be adding GPS systems to reduce soil usage, improve road building capabilities and waste compaction. This project also includes funds for replacement of the Model D8 bulldozer in FY 2021 and the Model D9 bulldozer in FY 2022. Bulldozers are used at the landfill primarily to push garbage into position for the compactors. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund, Instead the equipment is purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$19,303	\$20,075	\$234,846
Equipment	\$0	\$0	\$0	\$0	\$1,286,844	\$1,338,318	\$1,565,643
TOTAL	\$0	\$0	\$0	\$0	\$1,306,147	\$1,358,393	\$1,800,489

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of

Project: 78521 - MRF Loader Replacement (R) **Funding Source:** Landfill Revenues

Project Description: This project is for the replacement of a loader used to move recyclables from the Materials Recovery Facility (MRF) tipping floor to the processing line. A CAT950K loader was purchased in FY16 and will require a replacement and/or rebuild in approximately 10 years. MRF vehicles and equipment are not included in the Vehicle Replacement Fund; instead the equipment is purchased with cash or financed at the time of acquisition.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$7,019	\$0	\$8,540
Equipment	\$0	\$0	\$0	\$0	\$467,943	\$0	\$569,325
TOTAL	\$0	\$0	\$0	\$0	\$474,962	\$0	\$577,865

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of

Project: 78522 - LF Water Pull Tractor Replace (R) **Funding Source:** Landfill Revenues

Project Description: Replacement of the water pull truck, which was purchased in 2012 and is expected to reach the end of its serviceable life in FY 2020. The water pull truck is a critical piece of support equipment for reducing dust and maintaining compliance with the existing air quality permit. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition. \$150K in FY17 Power train Rebuild for the 730 Caterpillar Water Pull.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$10,951	\$0	\$0	\$41,208
Equipment	\$0	\$0	\$0	\$730,080	\$0	\$0	\$274,723
TOTAL	\$0	\$0	\$0	\$741,031	\$0	\$0	\$315,931

Operating Description: No additional O and M is needed since new equipment will replace aging existing equipment.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78524 - Landfill Motor Grader Replace (R) **Funding Source:** Landfill Revenues

Project Description: The project includes the replacement of the motor grader that is expected to reach the end of its serviceable life in FY 2024. The motor grader is an essential piece of support equipment used to establish and maintain the temporary roads on the active portion of the landfill. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$6,159
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$410,571
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$390,620
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$807,350

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

Project: 78525 - Landfill Scraper Equipment (R) **Funding Source:** Landfill Revenues

Project Description: The scraper is an essential piece of support equipment that excavates, transports, and stockpiles soil used for covering waste disposed at the landfill. This project provides for either a certified rebuild or a new replacement of the scraper, which is anticipated to occur in FY 2018 based on hours of use and equipment condition. Landfill vehicles and equipment are not included in the Vehicle Replacement Fund. Instead the equipment is purchased with cash or financed at the time of acquisition.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$0	\$0	\$12,375	\$0	\$0	\$28,470
Equipment	\$0	\$0	\$0	\$825,000	\$0	\$0	\$1,897,979
TOTAL	\$0	\$0	\$0	\$837,375	\$0	\$0	\$1,926,449

Operating Description: No additional O and M is needed since new equipment will replace existing equipment that is expected to reach the end of its serviceable life.

Project: 78530 - Manlift MRF (R) **Funding Source:** Landfill Revenues

Project Description: Replace Manlift assigned to MRF

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Finance Charges	\$0	\$390	\$390	\$0	\$9,415	\$0	\$0
Equipment	\$0	\$26,000	\$26,000	\$0	\$627,688	\$0	\$0
TOTAL	\$0	\$26,390	\$26,390	\$0	\$637,103	\$0	\$0

Operating Description:



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78531 - Light Duty Vehicle Replacement (R) **Funding Source:** Landfill Revenues

Project Description: Replace light duty vehicles assigned to Landfill and MRF

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$840	\$0	\$0	\$0	\$0	\$0
Equipment	\$0	\$56,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$56,840	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: T1808 - Auxilliary Equipment (R) **Funding Source:** Landfill Revenues

Project Description: Replace auxilliary equipment assigned to the Landfill and MRF, which may include skid steers, kubotas, lube trailer, etc.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$811	\$0	\$439	\$0	\$949
Equipment	\$0	\$0	\$54,080	\$0	\$29,246	\$0	\$63,266
TOTAL	\$0	\$0	\$54,891	\$0	\$29,685	\$0	\$64,215

Operating Description:

Project: 78503 - Landfill Closure (South) (N) **Funding Source:** Landfill Revenues

Project Description: Project provides for closure of the south area of the landfill after the permitted air space is completely filled with waste. A landfill reaching its permitted capacity is required by federal and state law to be closed with a final cover system, which includes a vegetative layer, a compacted soil layer, additional gas system wells, erosion control, and storm water control measures. Related projects are 78505 and 78507.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$0	\$325,000	\$125,000	\$350,000	\$500,000	\$750,000
Construction	\$376,320	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$10,859	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$7,216	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$3,763	\$0	\$0	\$0	\$0	\$0	\$0
Contingency	\$75,264	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$483,422	\$0	\$325,000	\$125,000	\$350,000	\$500,000	\$750,000

Operating Description: Funds provided in supplies/contracts are annual costs for post-closure (\$220,554) at the landfill. Post-closure costs include monitoring, maintenance, and repair of the following items: landfill gas control system, groundwater monitoring system, storm water monitoring, final cover/vegetative cover inspection, landfill settlement monitoring, access roads, drainage control system, site security inspection, and administrative reporting. Annual post-closure maintenance, monitoring, and repair activities will begin once closure of the south area is completed.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$2,205,540	\$2,205,540	\$2,205,540	\$2,205,540	\$0	\$11,027,700

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2440-Landfill

Category: Other

Project: 78505 - LF Phase Construction (North) (N)

Funding Source:

Landfill Revenues

Project Description:

This project is required for the development of the northern portion of the landfill and includes phased installation of a liner, a gas collection system and a leachate collection system. Funds identified as "carryover" (\$102,780) and in FY 2016 (\$4,614,000) will pay for construction of North Phase 1a, which is anticipated to begin accepting waste in 2017. Funds identified in FY 2017 (\$102,780) will be used for engineering design of North Phase 1b. Funds identified in FY 2018 (\$4,361,873) will pay for construction of North Phase 1b, which is anticipated to begin accepting waste in 2018.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$500,000	\$500,000	\$250,000	\$100,000	\$250,000	\$7,546,235
Construction	\$3,208,144	\$0	\$0	\$0	\$0	\$0	\$0
Finance Charges	\$1,542	\$0	\$0	\$0	\$0	\$0	\$0
Engineering Charges	\$1,238	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$3,210,924	\$500,000	\$500,000	\$250,000	\$100,000	\$250,000	\$7,546,235

Operating Description:

No additional O and M is needed for this project.

Project: 78507 - Landfill Soil Excavation (N)

Funding Source:

Landfill Revenues

Project Description:

This project provides for excavation of Phase 1 in the north expansion area to prepare for future landfill cell development. It includes excavation of approximately one-third of the north expansion area, access road improvements in areas located between the north area, the Materials Recovery Facility (MRF), the new administration and maintenance area, as well as utility relocations. Excavated soil will be stockpiled in various storage locations on the landfill property. Excavation of the remaining two-thirds will occur as part of future landfill phase construction.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Construction	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$8,525,732	\$3,679,973
TOTAL	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$8,525,732	\$3,679,973

Operating Description:

No additional O and M is needed at this time.

Project: 78529* - New Bulldozer Purchase (N)

Funding Source:

Landfill Revenues

Project Description:

Purchase of a new D-6 Caterpillar (CAT) Bulldozer which has proven to be a more cost effective unit to perform erosion control and soil utilization at the city Landfill and Materials Recovery Facility (MRF). This unit is a lighter, more agile unit than the existing bulldozers (Caterpillar D-8 & D-9) which in turn will reduce maintenance and fuel costs, while increasing efficiency.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$6,375	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$4,250	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$425,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$435,625	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 2120-Airport Capital Grants **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	Carrvoer	New Funding					
Existing Assets							
<i>Improvement of Existing Assets</i>							
T1472 Airport EA for Channelization	0	0	0	0	0	0	286,590
<i>Replacement of Existing Assets</i>							
79521 Rehabilitate Apron	96,219	0	0	0	0	0	0
79524 North Apron R&R	4,500,000	1,525,662	1,000,000	1,000,000	0	0	0
79526 South Apron R&R	0	0	0	0	0	0	4,718,466
79527 *AWOS Weather Reporting Equip.	0	315,000	0	0	0	0	0
79532 FAR Part 150 Update	0	334,355	0	0	0	0	0
Sub-Total - Existing Assets	4,596,219	2,175,017	1,000,000	1,000,000	0	0	5,005,056
New Assets							
0							
79519 Airport-Capacity Study	50,000	0	0	0	0	0	0
Sub-Total - New Assets	50,000	0	0	0	0	0	0
Total Project Expenses:	\$4,646,219	\$2,175,017	\$1,000,000	\$1,000,000	\$0	\$0	\$5,005,056
Total FY 2018 Funding:	\$6,821,236						

PROJECT DETAIL: 2120-Airport Capital Grants **Category: Other**

Project: T1472 - Airport EA for Channelization (I) **Funding Source:** Grants/City Match

Project Description: Conduct an Environmental Assessment for channelization of the New River to protect the runway safety area from erosion. Channelization includes the physical change to the inner bank boundary of the River. The project is to be funded with \$286,590 FAA (91.06%) and ADOT (4.47%) funds in FY 2021.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$286,590
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$286,590

Operating Description: No additional O and M is required for this project.

Project: 79524 - North Apron R&R (R) **Funding Source:** Grants/City Match

Project Description: The north apron project includes reconstruction (59,200 square yards) in FY 2017 and rehabilitation (54,000 square yards) in FY 2018. The portion of the north apron that is beyond rehabilitation is to be reconstructed in FY 2017. The rehabilitation project in FY 2018 would preserve and extend the life of the rest of north apron.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$225,000	\$150,000	\$150,000	\$0	\$0	\$0
Construction	\$0	\$1,300,662	\$850,000	\$850,000	\$0	\$0	\$0
Miscellaneous/Other	\$4,500,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$4,500,000	\$1,525,662	\$1,000,000	\$1,000,000	\$0	\$0	\$0

Operating Description: This project rebuilds and rehabilitates existing pavement on the north apron.

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2120-Airport Capital Grants **Category: Other**

Project: 79526 - South Apron R&R (R) **Funding Source:** Grants/City Match

Project Description: The south apron project includes reconstruction (38,000 square yards) in FY 2019 and rehabilitation (93,000 square yards) in FY 2020. The portion of the south apron that is beyond rehabilitation is to be reconstructed in FY 2019. The rehabilitation project in FY 2020 would preserve and extend the life of the rest of north apron.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$707,770
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$4,010,696
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$4,718,466

Operating Description: This project rebuilds and rehabilitates existing pavement on the south apron.

Project: 79527* - AWOS Weather Reporting Equip. (R) **Funding Source:** Grants/City Match

Project Description: Procure and install a replacement of Automated Weather Observation System (AWOS) equipment. Additional wind indicator and a new wind sock are a part of this project.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$315,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$315,000	\$0	\$0	\$0	\$0	\$0

Operating Description: This project replaces existinng AWOS equipment.

Project: 79532 - FAR Part 150 Update (R) **Funding Source:** Grants/City Match

Project Description: Produce updated Noise Exposure Maps and Land Use Plan last updated in 1993. An update of the Part 150 Study is required every 20 years. Noise Exposure Maps and Land Use Planning elements help coordinate development near the Airport. This will be funded 91.06% by the FAA and 4.47% by ADOT.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$334,355	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$334,355	\$0	\$0	\$0	\$0	\$0

Operating Description: No O and M is needed for this study project.

Project: 79519 - Airport-Capacity Study (N) **Funding Source:** Grants/City Match

Project Description: The capacity study is a joint study between the City of Glendale and John F. Long to determine if there is a need for a second runway.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: No additional O and M is needed for this project.



FUND SUMMARY: 1840-Other Federal and State Grants **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvover</u> <u>New Funding</u>						
Existing Assets							
<i>Replacement of Existing Assets</i>							
80031 Saguaro Ranch Park Improvement	0	15,000	0	0	0	0	0
<i>Sub-Total - Existing Assets</i>	<i>0</i>	<i>15,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>
Total Project Expenses:	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0
Total FY 2018 Funding:		\$15,000					

PROJECT DETAIL: 1840-Other Federal and State Grants **Category: Other**

Project: 80031 - Saguaro Ranch Park Improvement (R) Funding Source: Grants

Project Description:

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$15,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



FUND SUMMARY: 2070-General Gov Capital Proje **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
Existing Assets							
<i>Improvement of Existing Assets</i>							
70800 Building Maint. Reserve	2,703,307	750,000	750,000	1,000,000	1,000,000	1,000,000	2,500,000
70801 Camelback Ranch Maint. Reserve	752,729	836,752	836,752	836,752	836,752	836,752	4,183,760
70802 Barrel District Imp	15,000	0	0	0	0	0	0
70803 Capital Repair-Arena	500,000	500,000	500,000	500,000	500,000	500,000	2,500,000
70804 *Tennis Courts at Paseo Park	89,565	0	0	0	0	0	0
70810 *TDMA Upgrade for RWC	0	1,183,422	0	0	0	0	0
84551 Civic Center Renovation	0	0	0	0	0	0	4,123,974
F0003 *Electrical Repairs/Replacement	0	0	0	0	0	0	1,500,000
F0004 *Exterior Repairs/Replacements	0	0	0	0	0	0	500,000
F0005 *City Hall - HVAC System	0	0	0	0	0	0	3,452,250
T1160 City Hall Parking Garage	0	0	0	0	0	0	1,675,193
<i>Replacement of Existing Assets</i>							
70805 Heart Monitors	1,000,000	0	0	0	0	0	0
70806 Replacement of Airpaks	0	836,000	813,850	0	0	0	0
70811 CBR Scoreboard	0	1,000,000	0	0	0	0	0
77503 *Exterior Closure (Roofing)	0	0	0	0	0	0	2,500,000
81067 Civic Ctr. Maintenance	0	0	0	0	0	0	175,000
F0001 *HVAC Repair/Replacements	0	0	0	0	0	0	2,500,000
F0002 *Interior Repairs/Replacements	0	0	0	0	0	0	1,500,000
T4620 Resurface Library Parking Lots	0	0	0	0	0	0	250,000
T4730 Fuel Sites Equipment Upgrade	0	0	0	0	0	0	582,474
T5320 EOC Equipment Replacement	0	0	0	0	0	0	610,122
T5380 Replace HazMat Vehicle	0	0	0	0	0	0	616,071
Sub-Total - Existing Assets	5,060,601	5,106,174	2,900,602	2,336,752	2,336,752	2,336,752	29,168,844
New Assets							
0							
70808 *CBR Land IGA	0	668,646	0	1,086,822	0	0	0
Sub-Total - New Assets	0	668,646	0	1,086,822	0	0	0
Total Project Expenses:	\$5,060,601	\$5,774,820	\$2,900,602	\$3,423,574	\$2,336,752	\$2,336,752	\$29,168,844
Total FY 2018 Funding:	\$10,835,421						

PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**



PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**

Project: 70800 - Building Maint. Reserve (I) **Funding Source:** Other

Project Description: This project is intended to support carryover of the building maintenance reserve for emergency and unplanned repairs and replacement of building components for various city facilities

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$1,760	\$0	\$0	\$0	\$0	\$0	\$0
Equipment	\$749,655	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$750,000	\$750,000	\$1,000,000	\$1,000,000	\$1,000,000	\$2,500,000
Miscellaneous/Other	\$756,454	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$1,195,438	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$2,703,307	\$750,000	\$750,000	\$1,000,000	\$1,000,000	\$1,000,000	\$2,500,000

Operating Description:

Project: 70801 - Camelback Ranch Maint. Reserve (I) **Funding Source:** Other

Project Description: Camelback Ranch Maint. Reserve

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$40,577	\$0	\$0	\$0	\$0	\$0	\$0
Design	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Design	\$176,832	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$198,879	\$0	\$0	\$0	\$0	\$0	\$0
Construction	\$0	\$525,000	\$525,000	\$525,000	\$525,000	\$525,000	\$2,625,000
Engineering Charges	\$0	\$9,250	\$9,250	\$9,250	\$9,250	\$9,250	\$46,250
Engineering Charges	\$18,500	\$0	\$0	\$0	\$0	\$0	\$0
Arts	\$0	\$5,250	\$5,250	\$5,250	\$5,250	\$5,250	\$26,250
Arts	\$10,500	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$197,252	\$197,252	\$197,252	\$197,252	\$197,252	\$986,260
Miscellaneous/Other	\$307,441	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$752,729	\$836,752	\$836,752	\$836,752	\$836,752	\$836,752	\$4,183,760

Operating Description:

Project: 70802 - Barrel District Imp (I) **Funding Source:** Other

Project Description: Extend concrete pathway adjacent to fruit packing structure at Sahuaro Ranch Park

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**

Project: 70803 - Capital Repair-Arena (I) **Funding Source:** Other

Project Description: City's contractual obligation to annually fund the capital repair at the arena per the July 8, 2013 agreement.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
Miscellaneous/Other	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000

Operating Description:

Project: 70804* - Tennis Courts at Paseo Park (I) **Funding Source:** Other

Project Description: Tennis court resurfacing at Paseo Park

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$89,565	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$89,565	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 70810* - TDMA Upgrade for RWC (I) **Funding Source:** Other

Project Description: This project is a multi-year funded project for the TDMA upgrade of the Regional Wireless Cooperative (RWC) communications system. The TDMA technology will allow the RWC to almost double its capacity without the addition of more frequencies. Frequencies are limited in quantity and difficult to obtain. As the valley increases its hosting of major events, the radio system will be taxed. The TDMA technology will ease this burden. While not yet Federally mandated, TDMA is an inevitable technology upgrade. The scope of work includes 100% of the TDMA costs to the city. Departments using the RWC include Police, Fire, Field Ops, and Water Services.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
IT/Phone/Security	\$0	\$1,183,422	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$1,183,422	\$0	\$0	\$0	\$0	\$0

Operating Description:



PROJECT DETAIL: 2070-General Gov Capital Proj **Category: Other**

Project: 84551 - Civic Center Renovation (I) **Funding Source:** Other

Project Description: This enhancement would create another signature feature at the Glendale Civic Center. The east courtyard would be converted into more meeting room space with sky lighting. This project also involves renovating and developing the grass (open space), south

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$756,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$2,633,126
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$50,850
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$62,699
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$26,331
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$130,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$394,968
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$70,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$4,123,974

Operating Description:

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Staffing	\$0	\$0	\$0	\$0	\$0	\$5,312,960
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$337,190
Utilities	\$0	\$0	\$0	\$0	\$0	\$700,000
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$499,550
Equip. Maint.	\$0	\$0	\$0	\$0	\$0	\$99,910
Insurance	\$0	\$0	\$0	\$0	\$0	\$60,690
Electrical	\$0	\$0	\$0	\$0	\$0	\$89,920
Water	\$0	\$0	\$0	\$0	\$0	\$35,720

Project: F0003* - Electrical Repairs/Replacement (I) **Funding Source:** Other

Project Description: This project provides for funding in support of an annual program for the replacement and upgrade of lighting and electrical systems, which are required to restore lighting in city parks and upgrade lighting in city buildings. These upgrades are expected to reduce the consumption of electricity usage citywide and restore safety and security for citizens utilizing city parks and facilities. In FY 2022, these projects include lighting replacement at Bonsall North, Rose Lane and Sahuaro Ranch Parks. The ongoing costs from FY 2023 to FY 2026 include funding for the annual program as well as previously deferred projects to upgrade park lighting systems.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000

Operating Description:



PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**

Project: F0004* - Exterior Repairs/Replacements (I) **Funding Source:** Other

Project Description: This project provides funding in support of an annual program for all exterior repairs and replacements such as painting, sealing, siding replacements, carpentry repairs, window and door replacements, ADA compliance, and plumbing repairs. Exterior repairs to city buildings are estimated to cost \$100,000 annually and are needed to preserve, protect and extend the useful life of the infrastructure. In FY 2022, project funding includes the replacement of siding and sealing/painting at Sahuaro Ranch Park and the airport terminal. Keeping the exterior surface coated in paint products protects the underlying building materials.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000

Operating Description:

Project: F0005* - City Hall - HVAC System (I) **Funding Source:** Other

Project Description: Project provides for replacements and upgrades to the existing heating, ventilating and air conditioning (HVAC) system at Glendale city hall. Three floors of city hall (basement, sub-basement, and aspects of the first floor) were upgraded in previous fiscal years; whereas the remaining floors were deferred to upcoming years in the capital plan. Because the overall HVAC system has reached the end of its serviceable life, this project includes funding for the remaining floors (second, third, fourth and council chambers). Upgrades will include replacement of air handling units on each floor, enhancements to the control units in each suite, ductwork, piping, and associated electrical work. The HVAC system upgrades will improve indoor air quality and provide a new HVAC system life capacity of an additional 20+ years for the entire building.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$56,250
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$48,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$10,500
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$2,100,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$187,500
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$3,452,250

Operating Description:



PROJECT DETAIL: 2070-General Gov Capital Proj **Category: Other**

Project: T1160 - City Hall Parking Garage (I) **Funding Source:** Other

Project Description: As part of the emergency garage repair in FY 2009, the structural engineer provided additional maintenance recommendations for the remainder of the city hall garage related to replacement or repair of synthetic cushions. Over the past 25 years, the natural expansion and contraction of the structure's elements have pushed out of place many of the synthetic cushions on which the 366 concrete beams are seated. This has caused the concrete to wear against bare concrete causing deterioration. Also, there are four locations that have significant deterioration that will require extra maintenance and repair before the deterioration becomes more costly.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$150,000
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$1,300,000
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$33,504
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$43,000
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$13,000
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$135,689
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,675,193

Operating Description: No additional O and M is needed for this project.

Project: 70805 - Heart Monitors (R) **Funding Source:** Other

Project Description: Purchase of 36 cardiac monitors. Currently, the department's heart monitors are adequate to provide service; however by FY 2019 they will be 14 to 15 years old and are expected to reach the end of their useful life. Heart monitors are considered a capital expenditure due to the type of equipment requiring to be updated all at the same time which cannot be phased in when replaced. Personnel must all be able to train and work on the same type, make and model of equipment. The department will continue to seek alternative funding mechanisms such as grants as they become available. Heart monitors are currently on a maintenance contract which will cover the cost to repair or replace a malfunctioned monitor through FY2013.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$0

Operating Description: O and M for the heart monitors would be needed starting in FY 2020. O and M will include two batteries a year per unit at (\$225 per battery x 60) and a 3% inflation has been added per year. A supplemental budget request will be submitted for once the project is near completion. O & M is currently budgeted in medical supplies.



PROJECT DETAIL: 2070-General Gov Capital Proj **Category: Other**

Project: 70806 - Replacement of Airpacks (R) **Funding Source: Other**

Project Description: Replacement of self-contained breathing apparatus (SCBAs) or air packs. The current supply is in compliance with National Fire Protection Association Standards through FY 2017. In FY 2017, 150 air packs will be outdated and in need of replacement. The useful life span of SCBAs is 7-10 years. Upgrades were completed in 2013 for all air packs. As components of the air packs fail, the department will repair or replace them using the department operating budget. Air packs are considered a capital expenditure due to the type of equipment requiring to be updated all at the same time; which cannot be phased in when replaced. Personnel must all be able to train and work on the same type, make and model of equipment. The department will continue to seek alternative funding mechanisms such as grants as they become available.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$836,000	\$813,850	\$0	\$0	\$0	\$0
TOTAL	\$0	\$836,000	\$813,850	\$0	\$0	\$0	\$0

Operating Description: O and M includes maintenance and repair at \$70,000 annually and an additional \$36,000 (once every 5 years) for 2 hydro tests on 300 bottles at \$60.00 per bottle that is performed every 5 years. The current SCBA budget is \$17,291 and does not cover the O and M identified; an additional \$350,000 is necessary. The \$70,000 for annual maintenance and repair will be needed the year after purchase. A supplemental budget request will be submitted once the project is near

Project: 70811 - CBR Scoreboard (R) **Funding Source: Other**

Project Description: Purchase of scoreboard for Camelback Ranch

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0
TOTAL	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$0

Operating Description:

Project: 77503* - Exterior Closure (Roofing) (R) **Funding Source: Other**

Project Description: This project provides funding in support of an annual roof repair and replacement program. Ongoing roofing repairs and replacements are required to improve the condition of City facilities and extend the useful life of the infrastructure. Citywide condition assessments will be conducted annually to evaluate roof conditions. In FY 20122, repairs or replacements to roofs at the Main Library, airport terminal, and Sahuaro Ranch Park buildings will be completed.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000

Operating Description:



PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**

Project: 81067 - Civic Ctr. Maintenance (R) **Funding Source: Other**

Project Description: The Civic Center's maintenance reserve annual allocation has been moved to operations as ongoing repair and maintenance of facility. The reserve will ensure that the Civic Center remains a competitive and high quality event venue and it is essential to the continued success of the facility.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$175,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$175,000

Operating Description: No additional O and M is needed.

Project: F0001* - HVAC Repair/Replacements (R) **Funding Source: Other**

Project Description: This project provides funding in support of an annual repair and replacement program for existing heating, ventilating and air conditioning (HVAC) systems at various city buildings, which have reached the end of their service life. The replacements and upgrades identified in the annual HVAC Repair/Replacement Program are estimated to cost \$500,000 annually. These HVAC system upgrades will improve air quality and renew life cycles of the replaced units. Projects in FY 2022 include the airport terminal, community center north, and equipment management.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$2,500,000

Operating Description:

Project: F0002* - Interior Repairs/Replacements (R) **Funding Source: Other**

Project Description: This project provides funding in support of an annual program for interior building repairs and replacements such as flooring, ceiling tiles, carpeting, painting, wall coverings, ADA compliance, plumbing, fire protection upgrades and carpentry. Interior repair to city buildings are estimated to cost \$300,000 annually and are needed to preserve, protect and extend the useful life of infrastructure.

Capital Costs	Carryover	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FYs 23-27
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$1,500,000

Operating Description:

FY 2018-2027 CAPITAL IMPROVEMENT PLAN
Fund Summary and Project Detail



PROJECT DETAIL: 2070-General Gov Capital Proj **Category: Other**

Project: T4620 - Resurface Library Parking Lots (R) **Funding Source:** Other

Project Description: This is a request to fund the repaving and sealing of the 26-year old asphalt parking lot at the Main Library and slurry seal the 14-year old parking lot at the Foothills Branch Library. The Main Library's parking lot has deteriorated to the point that a 1 1/2" fabric overlay is needed. The estimated cost to repair this is \$97,283. A heavy grade slurry seal is recommended for the Foothills Branch Library in order to preserve the life span of the asphalt, which, with proper maintenance, should reach 20-30 years. The estimated cost for this is \$33,188.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000

Operating Description: O and M is required for asphalt maintenance starting in 2021. The industry standard for asphalt maintenance is to seal every 2-3 years from the completion date. This type of maintenance includes crack sealing and restriping of parking lots. A supplemental budget request will be submitted once the project is near completion. Adjusted for the future, the annual O and M would be \$30,479 for both lots (approximately \$15,240 for each lot/year).

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Bldg. Maint.	\$0	\$0	\$0	\$0	\$0	\$609,580

Project: T4730 - Fuel Sites Equipment Upgrade (R) **Funding Source:** Other

Project Description: This project reflects the replacement of all City of Glendale fuel dispensing equipment that will reach its maximum useful life over the next ten years. The project includes installation of new fuel dispensing pumps, monitoring and tank leak detection systems and replacement of the fuel tracking system at The Field Operations Center, Fire Station 153 and Fire Station 155. Completion of this project will ensure reporting accuracy, equipment stability and integrity, and improved customer service.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Design	\$0	\$0	\$0	\$0	\$0	\$0	\$5,357
Construction	\$0	\$0	\$0	\$0	\$0	\$0	\$518,397
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$2,872
Engineering Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$25,664
Arts	\$0	\$0	\$0	\$0	\$0	\$0	\$5,184
Contingency	\$0	\$0	\$0	\$0	\$0	\$0	\$25,000
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$582,474

Operating Description: The software is a one-time purchase and the yearly license agreement will be paid through the departments existing budget.. No annual maintenance is required, if repairs are required vendors will be paid through existing operational budgets. Contributions to the Technology Replacement Fund are being made for the hardware currently being used and no additional hardware would be needed at this time.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Supplies/Contr	\$0	\$0	\$0	\$0	\$0	\$10,000



PROJECT DETAIL: 2070-General Gov Capital Proje **Category: Other**

Project: T5320 - EOC Equipment Replacement (R) **Funding Source:** Other

Project Description: This project funds the replacement of the information technology based equipment in the City's Emergency Operations Center (EOC), and places the EOC equipment in the city's technology replacement fund (TRF) to ensure software and hardware updates occur in conjunction with normal city rollouts. The EOC was built in 2006 and EOC equipment was not funded for the TRF due to the annual cost. Equipment updates were to be funded through the capital improvement process as equipment reached the end of its service life. Not being part of the TRF, results in lack of timely equipment replacement and unfunded requirements each time there is a software update, modifications to hardware are required, or there are equipment failures. The frequency of these unfunded requirements continues to rise as the equipment ages. EOC equipment will be two and a half times past its typical service life in the year 2020.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$14,881
IT/Phone/Security	\$0	\$0	\$0	\$0	\$0	\$0	\$595,241
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$610,122

Operating Description: This project will replace existing equipment and systems at the EOC. This equipment will be placed in the technology replacement fund at a cost of \$152,530 annually, or \$610,122 over the four year replacement cycle. Approximately 1/4 of the equipment will be replaced each year. The equipment includes the audiovisual, software, hardware, and communications equipment used in the EOC to support emergency and special event operations.

<u>Operating Costs</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
PC/Vehicle Replacement	\$0	\$0	\$0	\$0	\$0	\$8,177,030

Project: T5380 - Replace HazMat Vehicle (R) **Funding Source:** Other

Project Description: Replacement of a HazMat vehicle for the hazardous materials team. The current truck will have served its useful life of 10 years by FY 2019. This vehicle is supported by Fleet Management staff and anticipated mileage is 10,000 miles per year.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Finance Charges	\$0	\$0	\$0	\$0	\$0	\$0	\$12,321
Equipment	\$0	\$0	\$0	\$0	\$0	\$0	\$603,750
TOTAL	\$0	\$0	\$0	\$0	\$0	\$0	\$616,071

Operating Description: No additional O and M is needed since the Hazmat truck will be replacing the current vehicle, which will not be used as a reserve vehicle.

Project: 70808* - CBR Land IGA (N) **Funding Source:** Other

Project Description: This is an intergovernmental agreement with the City of Phoenix for repayment of land at Camelback Ranch Facility. The agree states the City will pay the following amounts: FY 17 and 18 \$668,646 - FY 20 \$1,086,822

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Land	\$0	\$668,646	\$0	\$1,086,822	\$0	\$0	\$0
TOTAL	\$0	\$668,646	\$0	\$1,086,822	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 2593 - City-Wide ERP Solution **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
New Assets							
0							
72000 City-Wide ERP Solution	0	2,862,221	1,132,837	0	0	0	0
Sub-Total - New Assets	0	2,862,221	1,132,837	0	0	0	0
Total Project Expenses:	\$0	\$2,862,221	\$1,132,837	\$0	\$0	\$0	\$0
Total FY 2018 Funding:		\$2,862,221					

PROJECT DETAIL: 2593 - City-Wide ERP Solution **Category: Other**

Project: 72000 - City-Wide ERP Solution (N) **Funding Source:** General Fund

Project Description: Replacement of the City's ERP system including modules for financials, procurement, budget, and HR. This a multi-year phased project. The current Peoplesoft system will be reaching it's end of life and vendor support within the next two years. This system will replace all PS applications.

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Miscellaneous/Other	\$0	\$2,862,221	\$1,132,837	\$0	\$0	\$0	\$0
TOTAL	\$0	\$2,862,221	\$1,132,837	\$0	\$0	\$0	\$0

Operating Description:



FUND SUMMARY: 1220-Arts Commission **Category: Other**

		<u>FY 2018:</u>	<u>FY 2019:</u>	<u>FY 2020:</u>	<u>FY 2021:</u>	<u>FY 2022:</u>	<u>FYs 23-27:</u>
Capital Project Expenses	<u>Carrvoer</u>	<u>New Funding</u>					
New Assets							
0							
84650 Municipal Arts Program	683,849	200,000	200,000	142,943	0	0	0
Sub-Total - New Assets	683,849	200,000	200,000	142,943	0	0	0
Total Project Expenses:	\$683,849	\$200,000	\$200,000	\$142,943	\$0	\$0	\$0
Total FY 2018 Funding:	\$883,849						

PROJECT DETAIL: 1220-Arts Commission **Category: Other**

Project: 84650 - Municipal Arts Program (N) **Funding Source:** Capital Plan

Project Description: City Council Ordinance No. 1226 created a Municipal Art Fund which provides for the purchase of works of art for public places. This consists of commissioned, non-commissioned and the performing arts, all reviewed and recommended by the Glendale Arts Commission (via the Annual Arts Plan).

<u>Capital Costs</u>	<u>Carryover</u>	<u>FY 2018</u>	<u>FY 2019</u>	<u>FY 2020</u>	<u>FY 2021</u>	<u>FY 2022</u>	<u>FYs 23-27</u>
Contingency	\$285,049	\$0	\$0	\$0	\$0	\$0	\$0
Miscellaneous/Other	\$0	\$200,000	\$200,000	\$142,943	\$0	\$0	\$0
Miscellaneous/Other	\$398,800	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL	\$683,849	\$200,000	\$200,000	\$142,943	\$0	\$0	\$0

Operating Description: Total O&M for maintaining the city art inventory is \$173,162.