



CITY OF TUCSON, ARIZONA APPROVED FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM FOR FISCAL YEARS 2019-2023



CITY OF TUCSON, ARIZONA

Adopted Budget Fiscal Year 2019 through 2023 *Effective July 1, 2018*

Mayor and Council



HONORABLE
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Mayor



REGINA ROMERO
Ward One



PAUL CUNNINGHAM
Ward Two



PAUL DURHAM
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TABLE OF CONTENTS

SECTION A - Overview

Overview of the Five Year Capital Improvement Program	A-1
Table I: Summary by Department	A-7
Table II: Summary by Funding Source	A-8
Table III: Summary of CIP Impact on the Operating Budget	A-10
Table IV: Projects with Pima County Bond Funding	A-15
Table V: Projects with Development Impact Fees	A-16
Department Summary Budgets	A-18

SECTION B - Department Programs

Environmental and General Services	B-1
Housing and Community Development	B-9
Parks and Recreation	B-12
Transportation	B-24
Tucson Delivers: Better Streets	B-61
Tucson Delivers: Safer City (Public Safety)	B-64
Tucson Water	B-72
General Government	B-156

SECTION C - Acronyms

Acronyms	C-1
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Section A

Overview



OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

A Capital Improvement Plan (CIP) is a community planning and fiscal management tool used to coordinate the location, timing, and financing of capital improvements over a five year period. Capital improvements refer to major, non-recurring physical expenditures such as land, buildings, public infrastructure, and equipment, all with a cost of \$100,000 or more. The CIP is necessary to improve public facilities and infrastructure assets for the economic, aesthetic, and functional viability to our City. The plan identifies our City's specific capital needs based on various long-range plans, goals, and policies and also provides analysis for decision making for City officials and strategic capital planning efforts with City departments.

The City of Tucson's practice is to develop, maintain, and revise when necessary a continuing Capital Improvement Program that covers a Five-Year planning horizon. This budget document covers Fiscal Years 2018/19 through 2022/23 and identifies capital projects during this timeframe to include the funding sources available for projected expenditures.

The objective of this overview is to give the reader a brief look into the CIP which contains the following financial and narrative information:

- Capital Improvement Program Process
- Budget Highlights
- Summary of Expenditures and Funding Sources
- Department Programs
- Impact on the Operating Budget

CAPITAL IMPROVEMENT PROGRAM PROCESS

Defining a Capital Improvement

To be included in the CIP, projects need to meet one of the following criteria:

- Construction of a new City asset or expansion of an existing City-owned facility, including preliminary planning and surveys, cost of land, staff and contractual services for design and construction, and related furnishings and equipment.
- Initial acquisition of a major equipment system which will become a City asset, with a cost of \$100,000 or more and a useful life of at least six years.
- Major renovation or rehabilitation of an existing City-owned facility that requires an expenditure of \$100,000 or more and will extend the life of the original City asset.

Exceptions have been made for inclusion of a few projects that do not meet the above criteria (Sun Tran buses, Sun Van paratransit vans, street improvements, and public safety equipment and improvements) to make the planning, funding, and acquisition of these purchases more visible to the public and the governing body.

Steps from Submittal to Approval

In November 2017, the CIP process began with the Budget and Long-Term Financial Planning Division of the Business Services Department, providing direction and guidelines to department liaisons. Departments were given approximately seven weeks to develop their CIP requests based on their assessment of needs, existing bond authorizations, and grant awards. Departments were directed to include only projects with secured funding. Exceptions were made for annual federal grant appropriations from the Federal Transit Administration (FTA), other pending awards that would require budget capacity (e.g., any non-federal grant or contribution), and future enterprise revenue bonds. Department requests were reviewed by the Budget and Financial Planning Division and applicable revisions were made.

OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

The proposed CIP was presented to the Mayor and Council on April 17, 2018, along with the Recommended Fiscal Year 2018/19 Budget. The first year of the CIP was included as part of the City's Recommended Budget. The Mayor and Council reviewed and discussed both the operating and capital budgets at Study Sessions in April and May. Two public hearings were held prior to the adoption of the Fiscal Year 2018/19 budget on May 8, 2018 and June 5, 2018.

BUDGET HIGHLIGHTS

This proposed Five-Year CIP totals \$1.152 billion; \$353.7 million is budgeted in the first year of the CIP and is a component of the Fiscal Year 2018/19 Adopted Budget. Notable projects include the following:

Congress and Narmont Landfill Excavation. The landfills are located just south of Congress Street on the western bank of the Santa Cruz River. The project is to remove about 392,000 cubic yards of refuse material from the landfills, and eventually will promote the potential residential and commercial redevelopment of the area. The total project is estimated to be \$7.0 million with \$4.0 million budgeted in Fiscal Year 2018/19 and is funded by the Environmental Services Fund.

Broadway Improvement Project: Euclid to Country Club. This is a Regional Transportation Authority (RTA) Plan roadway improvement project managed by the City of Tucson. The improvement is to design and reconstruct the two-mile section of arterial roadway, to include widening from four-lanes to six-lanes with bike lanes, sidewalks, and landscaping. The total project cost is estimated to be \$83.3 million, \$34.7 million has been spent in prior years, \$20.5 million is budgeted in Fiscal Year 2018/19 and \$48.6 million for future years.

Reid Park Zoo Quality of Life Tax: Proposition 202 and 203. An estimated \$10.0 million annually is expected to be provided as a result of a voter approved tenth-of-a cent sales tax for a period of 10 years, from February 1, 2018 to December 31, 2027. The Reid Park Zoo Capital Improvement Fund is restricted to be used for capital improvements, operations and maintenance of the 50-year old Zoo. The plan is to improve and update the Zoo facilities to modern zoo standards by improving existing habitats and bringing in new species by building new habitats that will provide safer and healthier environments for the animals. Currently the Five-year CIP for this project is budgeted at \$35.0 million with \$7.0 million budgeted in Fiscal Year 2018/19.

Road Improvement Mainline Replacement Program. This is an ongoing project for the Tucson Water Department to relocate water mainlines during road improvement projects of the City of Tucson, Pima County, Arizona Department of Transportation and other agencies, including RTA projects. Intergovernmental agreements determine the City of Tucson cost allocation for each project. Replacing water mainlines during roadway projects allows Tucson Water to maintain system capacity while saving money on the cost of pavement removal and replacement. This is the largest CIP project for Fiscal Year 2018/19 budgeted to \$7.7 million, while Five-year CIP total is budgeted at \$30.7 million. The project is funded by the Tucson Water Revenue and Operation Fund and Future Water Bonds.

Tucson Delivers: Better Roads and Safer City. On May 16, 2017, the City of Tucson voters approved a new, Five-Year, half-cent sales tax to fund public safety capital needs and road repairs. The Five-year CIP is estimated to be \$100.0 million for the restoration, repair, and resurface of City streets, with \$30.0 million budgeted for Fiscal Year 2018/19. The Five-year CIP is estimated at \$135.8 million, with a total of project cost of \$150.0 million, will be spent on vehicles, equipment, and facilities for the Tucson Police Department and Tucson Fire Department, with \$34.6 million is budgeted in Fiscal Year 2018/19.

SUMMARY of EXPENDITURES and FINANCING PLANS

Only funded projects, except as noted earlier, are presented in this Five-Year CIP. The objective is to clarify for the community what the City can do to meet its needs with the limited funds available.

OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Expenditures

The proposed Five-Year CIP for Fiscal Years 2018/19 through 2022/23 totals \$1.152 billion. The majority of the projects are in the Transportation and Tucson Water Departments. The majority of expenditures are in the Community Enrichment and Development category, which includes Housing and Community Development, Parks and Recreation, Transportation and Tucson Delivers: Better Streets. The Public Safety and Justice Services category includes the Police and Fire equipment, technology upgrades, and improvement projects funded by Tucson Delivers: Safer City. The Public Utilities category includes Environmental and General Services and Tucson Water.

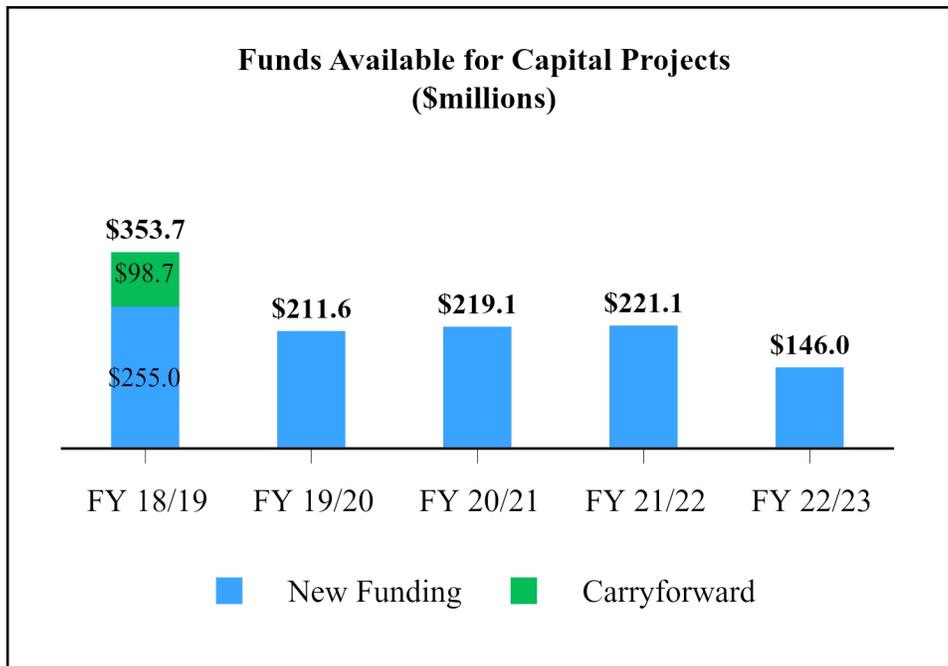
Five-Year CIP Summary of Expenditures

(in \$000)	Adopted Year 1 FY 18/19	Projected Five- Year Program
Community Enrichment and Development	\$ 217,333.5	\$ 651,715.3
Public Safety and Justice Services	34,647.5	135,823.0
Public Utilities	97,472.7	356,180.1
General Government	4,259.0	7,859.0
Total	\$ 353,712.7	\$ 1,151,577.4

This Five-Year CIP is \$36.5 million more than the approved Five-Year CIP for Fiscal Years 2017/18 through 2021/22.

Fiscal Year 2018/19 includes \$98.7 million carried forward for project expenditures not spent as planned during Fiscal Year 2017/18 and \$255.0 million in new funding. The CIP presumes that all of the Fiscal Year 2018/19 budget will be spent in that year.

CIP expenditures decrease significantly after Fiscal Year 2018/19 from \$353.7 million in Fiscal Year 2018/19 to \$146.0 million by Fiscal Year 2022/23.



For a summary of expenditures by department and fiscal year, see Table I, Five-Year CIP Summary by Department on page A-7.

OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Financing Plans

This Five-Year program of \$1.152 billion is funded primarily from Capital Projects Funds.

Five-Year CIP Summary of Financing Plan

(in \$000)	Adopted Year 1 FY 18/19	Projected Five- Year Program
Capital Projects Funds	\$ 144,238.3	\$ 427,046.1
Enterprise Funds	93,372.7	352,080.1
General Fund	7,217.0	10,817.0
Special Revenue Funds	108,884.7	361,634.2
Total	\$ 353,712.7	\$ 1,151,577.4

Capital Projects Funds. This category, which includes the City bond funds, is 37% of the Five-Year CIP. These funds will provide \$427.0 million over the next five years. Regional Transportation Authority (RTA) funds of \$222.5 million account for the largest portion of this category. Next are General Obligation Street Bonds of \$4.0 million. Pima County bonds will provide \$43.3 million. Capacity of \$48.4 million was added for road, regional park, and communications improvements along with \$108.8 million from regional Highway User Revenue Funds (HURF) distributed by the Pima Association of Governments (PAG).

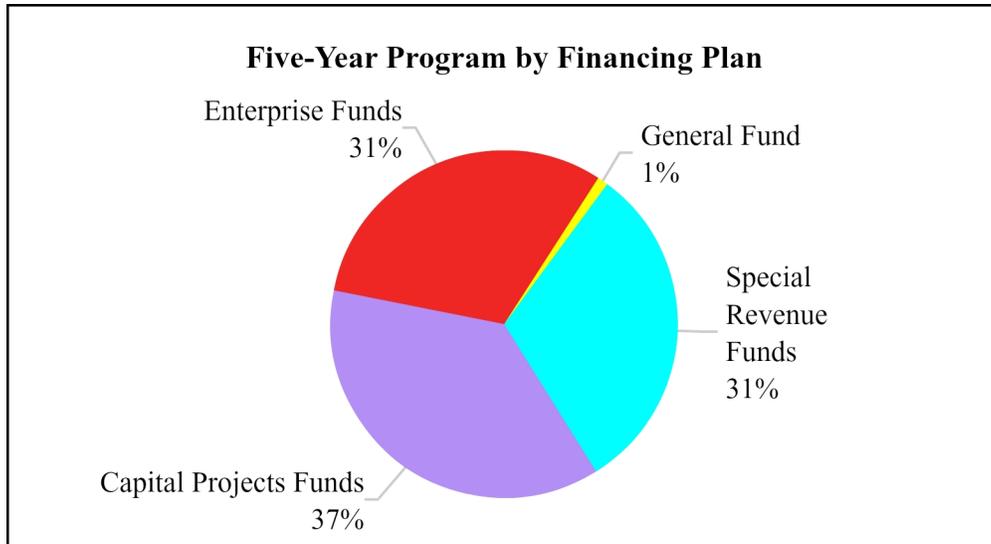
Enterprise Funds. Enterprise Funds total \$352.1 million or 31% of the Five-Year CIP. Environmental Services totals \$19.4 million. Tucson Water accounts for the remaining \$332.7 million: \$217.3 million from user revenues, \$34.4 million from Water’s Obligation Funds, and \$81.0 million from Future Water Revenue Bonds.

General Fund. This category totals \$10.8 million or less than 1% of the Five-Year CIP and is funding citywide technology upgrades, energy performance improvements, expansion of the energy plant, and a new permitting software system.

Special Revenue Funds. This category totals \$361.6 million or 31% of the Five-Year CIP. Included in this category are Safer City Improvement funds of \$135.8 million, Better Streets Improvement Fund of \$100.0 million, Reid Park Zoo Capital Improvement Fund of \$35.0 million and Federal Grants of \$75.1 million. The General Fund provides \$14.2 million for Mass Transit as local match for federal grants. The City’s HURF allocation accounts for \$1.3 million, and \$0.2 million comes from fees/charges and civic contributions.

For more detail on funding sources, see Table II, Five-Year CIP Summary by Funding Source beginning on page A-8.

OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM



DEPARTMENT PROGRAMS

Programs are briefly presented in this section by departments which are listed alphabetically within their budget reporting categories, also known as service areas: Community Enrichment and Development, Public Safety and Justice Services, Public Utilities, and General Government. A further listing of the projects by departments starts on page A-18.

Community Enrichment and Development

The Community Enrichment and Development category, which accounts for 57% of the total Five-Year CIP, contains projects managed by Housing and Community Development, Parks and Recreation, and Transportation.

Housing and Community Development. This department's Five-Year program of \$5.7 million consists of a master plan with funding provided by the Community Development Block Grant (CDBG).

Parks and Recreation. Parks' Five-Year CIP of \$39.9 million contains of 19 projects. These projects are funded primarily from Reid Park Zoo Capital Improvement Fund of \$35.0 million and impact fee revenues of \$4.6 million. Pima County bond funds and civic contributions provide for the remaining \$0.3 million. These funds provide for a wide range of projects: improvements at regional parks, urban greenway improvements, and amenities at neighborhood parks.

Transportation. The Five-Year Transportation program of \$506.1 million includes major program areas such as: Public Transit for \$71.8 million, Streets for \$432.8 million, and Traffic Signals for \$1.5 million.

The largest funding source for Transportation's projects is the funding from the RTA plan which totals \$222.5 million. General Obligation Street Bonds total \$4 million. Federal funding provides another significant portion totaling \$69.4 million: \$53.8 million for transit projects and \$15.6 million for street projects. Other funding sources are Pima County bond funds of \$43.3 million, regional HURF from PAG of \$108.8 million, City HURF of \$1.3 million, and impact fee revenues of \$29.5 million. The remaining \$27.3 million is from the General Fund for Mass Transit, which is used as the local match for federal transit grants.

In addition, the Better Street Improvement funding from the voter approved Proposition 101 will provide \$100.0 million to restore, repair, and resurface city streets.

OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Public Safety and Justice Services

The Public and Safety and Justice Services category, which accounts for 12% of the Five-Year CIP, contains projects managed by the City Manager’s office in partnership with the Fire and Police Department.

Public Safety. The Five-Year Public Safety Programs of \$135.8 million includes \$70.9 million on facility upgrades and building new facilities, \$48.4 million Public Safety vehicles, \$5.4 million personnel safety equipment and \$8.9 million in technology upgrades. Other projects include \$0.60 million Police Air Support equipment repairs and replacement, \$0.3 million Police Evidence Storage and \$1.3 million Public Safety Training Academy track replacement, operating and security upgrades. The program funding comes from a voter approved half-cent sales tax increase.

Public Utilities

The Public Utilities category, which accounts for 31% of the total Five-Year CIP, contains projects managed by Environmental and General Services and Tucson Water.

Environmental and General Services. The department's Five-Year program of 11 projects totals \$22.5 million. Environmental and General Services’ CIP is funded from Environmental Services and General Fund revenues.

Tucson Water. The Five-Year Tucson Water CIP of \$333.7 million includes \$316.2 million of improvements to the potable water system, \$1.0 million for customer service center renovation, and \$16.5 million of improvements for the reclaimed water system. Tucson Water's CIP is funded with Environmental Services Fund of \$1.0 million, Future Water Revenue Bond of \$81.0 million, operation funds of \$217.3 million, and 2018 Revenue Obligation Funds of \$34.4 million.

General Government

The General Government category, which accounts for less than 1% of the total Five-Year CIP, contains three projects that are budgeted here because it is beyond the oversight scope of a single department. The major projects are mainly Technology Projects. One of these projects is an upgrade to the City’s enterprise resource planning system to a current standard supported by the vendor and the implementation of a new multi-department Permitting System to replace the existing system. These projects are funded by the General Fund and Public Facilities Impact Fee Fund.

IMPACT on the OPERATING BUDGET

The completion of many capital projects is the beginning of recurring costs for the operating budget. Operating and Maintenance (O&M) impacts from projects in this Five-Year CIP total \$0.7 million for Fiscal Year 2018/19, increasing to a Five-Year total of \$4.0 million through Fiscal Year 2022/23. The General Fund O&M impacts in Fiscal Year 2018/19 are for the opening of new or expanded facilities.

For summaries and project detail of O&M impacts by department and funding source over the next five years, see Table III, Summary of CIP Impact on the Operating Budget on page A-10.

SUMMARY TABLES

Table I	Summary by Department	A -7
Table II	Summary by Funding Source	A -8
Table III	Summary of CIP Impact on the Operating Budget	A -10
Table IV	Projects with Pima County Bond Funding	A -15
Table V	Projects with Development Impact Fees	A -16

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table I. Summary by Department
(\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Community Enrichment and Development						
Housing and Community Development	\$ 5,695.2	\$ —	\$ —	\$ —	\$ —	\$ 5,695.2
Parks and Recreation	10,111.9	7,580.2	7,559.8	7,325.1	7,334.6	39,911.6
Transportation	171,526.4	99,114.7	86,766.9	92,856.3	55,844.2	506,108.5
Tucson Delivers: Better Roads	30,000.0	20,000.0	20,000.0	20,000.0	10,000.0	100,000.0
Subtotal	\$ 217,333.5	\$ 126,694.9	\$ 114,326.7	\$ 120,181.4	\$ 73,178.8	\$ 651,715.3
Public Safety and Justice Services						
Tucson Delivers: Safer City	\$ 34,647.5	\$ 25,408.9	\$ 41,566.1	\$ 33,432.8	\$ 767.7	\$ 135,823.0
Subtotal	\$ 34,647.5	\$ 25,408.9	\$ 41,566.1	\$ 33,432.8	\$ 767.7	\$ 135,823.0
Public Utilities						
Environmental and General Services	\$ 20,760.7	\$ 1,722.4	\$ —	\$ —	\$ —	\$ 22,483.1
Tucson Water	76,712.0	57,796.0	63,240.0	65,697.0	70,252.0	333,697.0
Subtotal	\$ 97,472.7	\$ 59,518.4	\$ 63,240.0	\$ 65,697.0	\$ 70,252.0	\$ 356,180.1
General Government						
General Expense	\$ 4,259.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 7,859.0
Subtotal	\$ 4,259.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 7,859.0
Total	\$ 353,712.7	\$ 211,622.2	\$ 219,132.8	\$ 221,111.2	\$ 145,998.5	\$ 1,151,577.4

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table II. Summary by Financing Plan (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Capital Projects Funds						
Capital Agreement Fund: PAG	\$ 27,114.5	\$ 24,973.0	\$ 22,860.0	\$ 33,832.0	\$ —	\$ 108,779.5
Capital Agreement Fund: Pima County Bonds	16,604.9	13,857.3	7,605.8	5,128.3	94.6	43,290.9
Capital Agreement Fund: Pima County Contribution	10,479.3	2,726.0	—	—	—	13,205.3
General Obligation Bonds: Series 2017	4,000.0	—	—	—	—	4,000.0
Impact Fee Fund: Central District	3,223.3	1,450.8	4,400.0	—	—	9,074.1
Impact Fee Fund: East District	3,392.2	—	—	—	—	3,392.2
Impact Fee Fund: Public Facilities	1,142.0	—	—	—	—	1,142.0
Impact Fee Fund: Southeast District	7,533.6	576.8	134.7	9,000.0	—	17,245.1
Impact Fee Fund: Southlands District	1,001.0	300.0	300.0	300.0	309.5	2,210.5
Impact Fee Fund: West District	2,235.4	—	—	—	—	2,235.4
Regional Transportation Authority	67,512.1	42,835.0	39,110.0	31,165.0	41,849.0	222,471.1
Subtotal	\$ 144,238.3	\$ 86,718.9	\$ 74,410.5	\$ 79,425.3	\$ 42,253.1	\$ 427,046.1
Enterprise Funds						
2018 Water Revenue System Obligation Fund	\$ 34,440.0	\$ —	\$ —	\$ —	\$ —	\$ 34,440.0
Environmental Services Fund	17,660.7	1,722.4	—	—	—	19,383.1
Future Water Revenue Bonds	—	21,816.0	25,251.0	16,400.0	17,501.0	80,968.0
Tucson Water Revenue and Operations Fund	41,272.0	35,980.0	37,989.0	49,297.0	52,751.0	217,289.0
Subtotal	\$ 93,372.7	\$ 59,518.4	\$ 63,240.0	\$ 65,697.0	\$ 70,252.0	\$ 352,080.1
General Fund	\$ 7,217.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 10,817.0
Subtotal	\$ 7,217.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 10,817.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

**Table II. Summary by Financing Plan
(\$000)**

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Special Revenue Funds						
Better Streets Improvement Fund	\$ 30,000.0	\$ 20,000.0	\$ 20,000.0	\$ 20,000.0	\$ 10,000.0	\$ 100,000.0
Civic Contributions Fund	175.0	25.0	25.0	25.0	25.0	275.0
Community Development Block Grant	5,695.2	—	—	—	—	5,695.2
Federal Highway Administration Grants	12,644.7	881.0	701.0	701.0	708.0	15,635.7
Highway User Revenue Fund	1,020.0	253.3	—	—	—	1,273.3
Mass Transit Fund: Federal Grants	14,525.1	9,019.2	9,318.2	10,390.2	10,520.2	53,772.9
Mass Transit Fund: General Fund	3,177.1	2,797.4	2,871.9	2,639.8	2,672.4	14,158.6
Reid Park Zoo Capital Improvement Fund	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	35,000.5
Safer City Improvement Fund	34,647.5	25,408.9	41,566.1	33,432.8	767.7	135,823.0
Subtotal	\$ 108,884.7	\$ 65,384.9	\$ 81,482.3	\$ 74,188.9	\$ 31,693.4	\$ 361,634.2
Total	\$ 353,712.7	\$ 211,622.2	\$ 219,132.8	\$ 221,111.2	\$ 145,998.5	\$ 1,151,577.4

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table III. Summary of CIP Impact on the Operating Budget (\$000)

SERVICE AREA/IMPACT	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Community Enrichment and Development						
Parks and Recreation	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5
Transportation	130.0	236.5	236.5	236.5	236.5	1,076.0
Subtotal	\$ 163.7	\$ 274.2	\$ 276.1	\$ 279.9	\$ 281.6	\$ 1,275.5
Public Utilities						
Environmental Services Fund	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Subtotal	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Total	\$ 709.7	\$ 820.2	\$ 822.1	\$ 825.9	\$ 827.6	\$ 4,005.5
SOURCE OF FUNDS SUMMARY						
General Fund						
	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5
Subtotal	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5
Enterprise Fund						
Environmental Services Fund	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Subtotal	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Special Revenue Funds						
Highway User Revenue Fund	\$ 110.0	\$ 216.5	\$ 216.5	\$ 216.5	\$ 216.5	\$ 976.0
Mass Transit Fund	20.0	20.0	20.0	20.0	20.0	100.0
Subtotal	\$ 130.0	\$ 236.5	\$ 236.5	\$ 236.5	\$ 236.5	\$ 1,076.0
Total	\$ 709.7	\$ 820.2	\$ 822.1	\$ 825.9	\$ 827.6	\$ 4,005.5

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

**Table III. Environmental Services: CIP Impact
on the Operating Budget
(\$000)**

The impact of this five-year CIP on future operating budgets is estimated to be \$546.0 every year from Fiscal Year 2018/19 to Fiscal Year 2022/23 for a five-year total of \$2,730.0. When the following projects in the CIP are completed, they will require funding for annual operations. The estimated impact of these projects on the operating budget over the next five years is shown in the table below.

	Adopted		Projected Requirements			Five
	Year 1	Year 2	Year 3	Year 4	Year 5	Year
Project Name	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Total
Silverbell Landfill Water Quality Assurance Treatment Facility	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Total	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
 Source of Funds Summary						
Environmental Services Fund	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0
Total	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 546.0	\$ 2,730.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table III. Parks and Recreation: CIP Impact on the Operating Budget (\$000)

The impact of this five-year CIP on future operating budgets is estimated to be \$33.7 in Fiscal Year 2018/19, increasing to \$45.1 by Fiscal Year 2022/23 for a five-year total of \$199.5. When the following projects in the CIP are completed, they will require funding for annual operations. The estimated impact of these projects on the operating budget over the next five years is shown in the table below.

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
A Mountain Improvements	\$ 1.6	\$ 1.7	\$ 1.7	\$ 1.8	\$ 2.0	\$ 8.8
Arroyo Chico Urban Path: Country Club to Treat	1.2	1.3	1.5	1.6	1.8	7.4
Barrio Santa Rosa-Viejo Ball Court	0.6	0.6	0.7	0.7	0.8	3.4
Cherry Avenue Improvements	0.6	0.6	0.7	0.7	0.8	3.4
Christopher Columbus Park Expansion	0.6	0.7	0.7	0.8	0.9	3.7
Groves Park Playground	1.2	1.3	1.5	1.6	1.8	7.4
Himmel Park Improvements	1.1	1.2	1.3	1.5	1.7	6.8
Lakeside Park Playground	1.2	1.3	1.5	1.6	1.7	7.3
Limberlost Family Park ADA Improvements and Walking Path	1.2	1.3	1.5	1.6	1.7	7.3
Lincoln Park Playground	1.2	1.3	1.5	1.6	1.7	7.3
Menlo Park Exercise Stations	0.6	0.6	0.7	0.7	0.8	3.4
Purple Heart Park Expansion	1.9	2.1	2.3	2.6	2.9	11.8
Reid Park Expansion, Phase I	—	2.0	2.1	2.4	—	6.5
Reid Park Zoo Health Center	6.6	7.2	7.3	8.0	8.8	37.9
Shade Structure Projects	0.6	0.7	0.7	0.8	0.9	3.7
South Central Community Park, Phase I	12.4	12.6	12.6	13.9	15.2	66.7
Sunnyside Airport Wash Multi-Use Path	1.1	1.2	1.3	1.5	1.6	6.7
Total	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5
Source of Funds Summary						
General Fund	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5
Total	\$ 33.7	\$ 37.7	\$ 39.6	\$ 43.4	\$ 45.1	\$ 199.5

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table III. Transportation: CIP Impact on the Operating Budget (\$000)

The impact of this five-year CIP on future operating budgets is estimated to be \$130.0 in Fiscal Year 2018/19, increasing to \$236.5 by Fiscal Year 2022/23 for a five-year total of \$1,076.0. When the following projects in the CIP are completed, they will require funding for annual operations. The estimated impact of these projects on the operating budget over the next five years is shown in the table below.

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
4th/Congress/Toole Bike Pedestrian Improvements	\$ 5.0	\$ 5.0	\$ 5.0	\$ 5.0	\$ 5.0	\$ 25.0
Arroyo Chico Greenway	0.5	0.5	0.5	0.5	0.5	2.5
Broadway: Camino Seco to Houghton	7.5	7.5	7.5	7.5	7.5	37.5
Campbell and 9th HAWK	4.0	4.0	4.0	4.0	4.0	20.0
Campbell Avenue Revitalization	5.0	5.0	5.0	5.0	5.0	25.0
CNG Fueling System	20.0	20.0	20.0	20.0	20.0	100.0
Columbus Corridor Pedestrian Path	0.5	0.5	0.5	0.5	0.5	2.5
Copper Street Bike Boulevard	0.5	0.5	0.5	0.5	0.5	2.5
Craycroft and Fort Lowell Park HAWK	4.0	4.0	4.0	4.0	4.0	20.0
El Paso and Southwestern Greenway	0.5	0.5	0.5	0.5	0.5	2.5
Five Points Pedestrian Improvements	1.0	1.0	1.0	1.0	1.0	5.0
Glenn Street Transportation Enhancement	1.0	1.0	1.0	1.0	1.0	5.0
Grant and Sahuara HAWK	4.0	4.0	4.0	4.0	4.0	20.0
Houghton Road: Bridge Replacement	5.0	5.0	5.0	5.0	5.0	25.0
Houghton Road: Broadway to 22nd Street	5.0	5.0	5.0	5.0	5.0	25.0
Houghton Road: Irvington to Valencia	20.0	20.0	20.0	20.0	20.0	100.0
Houghton Road: Union Pacific Railroad to I-10	5.0	5.0	5.0	5.0	5.0	25.0
Liberty Avenue Bicycle Boulevard	10.0	10.0	10.0	10.0	10.0	50.0
Park Avenue Transportation Enhancement	—	0.5	0.5	0.5	0.5	2.0
Pima Street Pedestrian Pathway Enhancements	—	1.0	1.0	1.0	1.0	4.0
Regional Transportation Data Network	—	100.0	100.0	100.0	100.0	400.0
Rio Vista Safe Routes to School	0.5	0.5	0.5	0.5	0.5	2.5
Robinson Safe Routes to School	0.5	0.5	0.5	0.5	0.5	2.5
Stone Avenue: Drachman and Speedway Improvements	—	5.0	5.0	5.0	5.0	20.0
Street Improvements Proposition 409	25.0	25.0	25.0	25.0	25.0	125.0
Treat Avenue Bike Boulevard	0.5	0.5	0.5	0.5	0.5	2.5
Valencia Road: Alvernon to Kolb	5.0	5.0	5.0	5.0	5.0	25.0
Total	\$ 130.0	\$ 236.5	\$ 236.5	\$ 236.5	\$ 236.5	\$ 1,076.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

**Table III. Transportation: CIP Impact on the Operating Budget
(\$000)**

Source of Funds Summary	Adopted		Projected Requirements			Five
	Year 1	Year 2	Year 3	Year 4	Year 5	Year
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Total
Highway User Revenue Fund	\$ 110.0	\$ 216.5	\$ 216.5	\$ 216.5	\$ 216.5	\$ 976.0
Mass Transit Fund	20.0	20.0	20.0	20.0	20.0	100.0
Total	\$ 130.0	\$ 236.5	\$ 236.5	\$ 236.5	\$ 236.5	\$ 1,076.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table IV. Projects with Pima County Bond Funding (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Parks and Recreation						
Menlo Park Playground	\$ 0.6	\$ —	\$ —	\$ —	\$ —	\$ 0.6
Parks and Recreation Total	\$ 0.6	\$ —	\$ —	\$ —	\$ —	\$ 0.6
Transportation						
22nd Street: I-10 to Tucson Boulevard	\$ —	\$ 4,605.9	\$ 4,605.8	\$ —	\$ —	\$ 9,211.7
Broadway Boulevard: Euclid to Country Club	12,000.0	7,305.6	—	—	—	19,305.6
Country Glenn Neighborhood Improvements	50.0	—	—	—	—	50.0
Elvira Solar Street Lighting	2.0	—	—	—	—	2.0
Five Points Pedestrian Improvements	44.0	—	—	—	—	44.0
Five Points Transportation Enhancement	290.0	—	—	—	—	290.0
Houghton Road: 22nd to Irvington	—	1,945.8	—	3,000.0	94.6	5,040.4
Houghton Road: Bridge Replacement	2,100.0	—	—	—	—	2,100.0
Houghton Road: Valencia to Mary Ann Cleveland Way	—	—	3,000.0	2,128.3	—	5,128.3
Midvale Park Oak Tree Dr. Lighting	45.8	—	—	—	—	45.8
Santa Cruz Southwest Neighborhood Association Park Improvements	45.8	—	—	—	—	45.8
Silverbell Road: Grant to Ina	2,026.7	—	—	—	—	2,026.7
Transportation Total	\$ 16,604.3	\$ 13,857.3	\$ 7,605.8	\$ 5,128.3	\$ 94.6	\$ 43,290.3
Total	\$ 16,604.9	\$ 13,857.3	\$ 7,605.8	\$ 5,128.3	\$ 94.6	\$ 43,290.9

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table V. Projects with Development Impact Fees (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
General Government						
Public Facility Fees						
Permitting System	\$ 1,142.0	\$ —	\$ —	\$ —	\$ —	\$ 1,142.0
General Government Total	\$ 1,142.0	\$ —	\$ —	\$ —	\$ —	\$ 1,142.0
Parks and Recreation						
East District						
Jesse Owens Park Improvements	\$ 200.0	\$ —	\$ —	\$ —	\$ —	\$ 200.0
East District Subtotal	\$ 200.0	\$ —	\$ —	\$ —	\$ —	\$ 200.0
Central District						
Arroyo Chico Urban Path: Country Club to Treat	\$ 262.7	\$ —	\$ —	\$ —	\$ —	\$ 262.7
Himmel Park Improvements	264.0	—	—	—	—	264.0
Limberlost Family Park ADA Improvements and Walking Path	22.1	—	—	—	—	22.1
Reid Park Expansion, Phase 1	590.0	120.3	100.0	—	—	810.3
Silverlake Park Improvements	27.5	—	—	—	—	27.5
Central District Subtotal	\$ 1,166.3	\$ 120.3	\$ 100.0	\$ —	\$ —	\$ 1,386.6
Southeast District						
Lakeside Park Playground	\$ 50.0	\$ —	\$ —	\$ —	\$ —	\$ 50.0
Lincoln Park Playground	220.0	—	—	—	—	220.0
Purple Heart Park Expansion	485.4	—	—	—	—	485.4
South Central Community Park, Phase I	197.4	134.8	134.7	—	—	466.9
Southeast District Subtotal	\$ 952.8	\$ 134.8	\$ 134.7	\$ —	\$ —	\$ 1,222.3
Southlands District						
Valencia Corridor Land Acquisition, Phase I	\$ 401.0	\$ 300.0	\$ 300.0	\$ 300.0	\$ 309.5	\$ 1,610.5
Southlands District Subtotal	\$ 401.0	\$ 300.0	\$ 300.0	\$ 300.0	\$ 309.5	\$ 1,610.5
West District						
A Mountain Improvements	\$ 141.0	\$ —	\$ —	\$ —	\$ —	\$ 141.0
Cherry Avenue Improvements	50.0	—	—	—	—	50.0
Christopher Columbus Park Expansion	25.1	—	—	—	—	25.1
West District Subtotal	\$ 216.1	\$ —	\$ —	\$ —	\$ —	\$ 216.1
Parks and Recreation Total						
	\$ 2,936.2	\$ 555.1	\$ 534.7	\$ 300.0	\$ 309.5	\$ 4,635.5
Transportation						
East District						
Broadway: Camino Seco to Houghton	\$ 3,000.2	\$ —	\$ —	\$ —	\$ —	\$ 3,000.2
Houghton Road: Tanque Verde to 5th Street	50.0	—	—	—	—	50.0
Houghton Road: 22nd to Irvington	142.0	—	—	—	—	142.0
East District Subtotal	\$ 3,192.2	\$ —	\$ —	\$ —	\$ —	\$ 3,192.2

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

Table V. Projects with Development Impact Fees (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Central District						
22nd Street: I-10 to Tucson Boulevard	\$ 122.0	\$ 1,230.5	\$ —	\$ —	\$ —	\$ 1,352.5
Broadway: Euclid to Country Club	650.0	—	1,000.0	—	—	1,650.0
Congress Grande Intersection Improvements	35.0	100.0	400.0	—	—	535.0
First Avenue: Grant to River	150.0	—	2,900.0	—	—	3,050.0
Grant: Oracle to Swan	1,100.0	—	—	—	—	1,100.0
Central District Subtotal	\$ 2,057.0	\$ 1,330.5	\$ 4,300.0	\$ —	\$ —	\$ 7,687.5
Southeast District						
Houghton Road: 22nd to Irvington	\$ 0.8	\$ —	\$ —	\$ —	\$ —	\$ 0.8
Houghton Road: Valencia to Mary Ann Cleveland Way	3,500.0	—	—	—	—	3,500.0
Valencia Road: Alvernon to Kolb	80.0	—	—	—	—	80.0
Valencia Road: Kolb to Houghton	3,000.0	442.0	—	9,000.0	—	12,442.0
Southeast District Subtotal	\$ 6,580.8	\$ 442.0	\$ —	\$ 9,000.0	\$ —	\$ 16,022.8
Southlands District						
Houghton Road: I-10 to Andrada Road	\$ 600.0	\$ —	\$ —	\$ —	\$ —	\$ 600.0
Southlands District Subtotal	\$ 600.0	\$ —	\$ —	\$ —	\$ —	\$ 600.0
West District						
Silverbell Road: Grant to Ina	\$ 2,019.3	\$ —	\$ —	\$ —	\$ —	\$ 2,019.3
West District Subtotal	\$ 2,019.3	\$ —	\$ —	\$ —	\$ —	\$ 2,019.3
Transportation Total	\$ 14,449.3	\$ 1,772.5	\$ 4,300.0	\$ 9,000.0	\$ —	\$ 29,521.8
Total	\$ 18,527.5	\$ 2,327.6	\$ 4,834.7	\$ 9,300.0	\$ 309.5	\$ 35,299.3

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

ENVIRONMENTAL and GENERAL SERVICES (\$000)

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Congress and Nearmont Landfill Excavation	\$ 4,000.0	\$ —	\$ —	\$ —	\$ —	\$ 4,000.0
Container Maintenance Los Reales Relocation	3,858.5	562.4	—	—	—	4,420.9
Energy Performance Contract	3,000.0	—	—	—	—	3,000.0
Expansion of Energy Plant at the TCC	1,100.0	—	—	—	—	1,100.0
Household Hazardous Waste Los Reales Relocation	2,219.3	60.0	—	—	—	2,279.3
Los Reales Landfill Buffer-Northeastern Berm and Landscape	130.0	—	—	—	—	130.0
Los Reales Landfill Lined Cell 4	2,004.7	300.0	—	—	—	2,304.7
Los Reales Light Maintenance Facility	—	500.0	—	—	—	500.0
Los Reales Property Acquisition Phase 2	700.0	—	—	—	—	700.0
Silverbell Landfill Water Quality Assurance Treatment Facility	3,748.2	—	—	—	—	3,748.2
Tenth Avenue Maintenance Facility	—	300.0	—	—	—	300.0
Total	\$ 20,760.7	\$ 1,722.4	\$ —	\$ —	\$ —	\$ 22,483.1
Source of Funds Summary						
Environmental Services Fund	\$ 16,660.7	\$ 1,722.4	\$ —	\$ —	\$ —	\$ 18,383.1
General Fund	4,100.0	—	—	—	—	4,100.0
Total	\$ 20,760.7	\$ 1,722.4	\$ —	\$ —	\$ —	\$ 22,483.1

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

HOUSING and COMMUNITY DEVELOPMENT

(\$000)

Project Name	Adopted Year 1 FY 18/19	Year 2 FY 19/20	Projected Requirements			Year 5 FY 22/23	Five Year Total
			Year 3 FY 20/21	Year 4 FY 21/22			
Community Development Block Grant Masterplan CIP	\$ 5,695.2	\$ —	\$ —	\$ —	\$ —	\$ —	5,695.2
Total	\$ 5,695.2	\$ —	\$ —	\$ —	\$ —	\$ —	5,695.2
 Source of Funds Summary							
Community Development Block Grant Fund	\$ 5,695.2	\$ —	\$ —	\$ —	\$ —	\$ —	5,695.2
Total	\$ 5,695.2	\$ —	\$ —	\$ —	\$ —	\$ —	5,695.2

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

PARKS and RECREATION (\$000)

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
A Mountain Improvements	\$ 141.0	\$ —	\$ —	\$ —	\$ —	\$ 141.0
Arroyo Chico Urban Path: Country Club to Treat	262.7	—	—	—	—	262.7
Cherry Avenue Improvements	50.0	—	—	—	—	50.0
Christopher Columbus Park Expansion	25.1	—	—	—	—	25.1
Himmel Park Improvements	264.0	—	—	—	—	264.0
Jesse Owens Park Improvements	200.0	—	—	—	—	200.0
Lakeside Park Playground	50.0	—	—	—	—	50.0
Limberlost Family Park ADA Improvements and Walking Path	22.1	—	—	—	—	22.1
Lincoln Park Playground	220.0	—	—	—	—	220.0
Menlo Park Exercise Stations	0.6	—	—	—	—	0.6
Purple Heart Park Expansion	485.4	—	—	—	—	485.4
Reid Park Expansion, Phase 1	590.0	120.3	100.0	—	—	810.3
Reid Park Zoo Health Center	50.0	—	—	—	—	50.0
Reid Park Zoo Meerkat Expansion	75.0	—	—	—	—	75.0
Reid Park Zoo Quality of Life Tax	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	35,000.5
Shade Structure Projects	50.0	25.0	25.0	25.0	25.0	150.0
Silverlake Park Improvement	27.5	—	—	—	—	27.5
South Central Community Park, Phase I	197.4	134.8	134.7	—	—	466.9
Valencia Corridor Land Acquisition, Phase I	401.0	300.0	300.0	300.0	309.5	1,610.5
Total	\$ 10,111.9	\$ 7,580.2	\$ 7,559.8	\$ 7,325.1	\$ 7,334.6	\$ 39,911.6
Source of Funds Summary						
Capital Improvement Fund: Pima County Bond	\$ 0.6	\$ —	\$ —	\$ —	\$ —	\$ 0.6
Civic Contributions Fund	175.0	25.0	25.0	25.0	25.0	275.0
Reid Park Zoo Capital Improvement Fund	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	35,000.5
Impact Fee Fund: Central Benefit District	1,166.3	120.3	100.0	—	—	1,386.6
Impact Fee Fund: East Benefit District	200.0	—	—	—	—	200.0
Impact Fee Fund: Southeast Benefit District	952.8	134.8	134.7	—	—	1,222.3
Impact Fee Fund: Southlands Benefit District	401.0	300.0	300.0	300.0	309.5	1,610.5
Impact Fee Fund: West Benefit District	216.1	—	—	—	—	216.1
Total	\$ 10,111.9	\$ 7,580.2	\$ 7,559.8	\$ 7,325.1	\$ 7,334.6	\$ 39,911.6

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION (\$000)

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
22nd Street and Belvedere HAWK	\$ —	\$ 250.0	\$ —	\$ —	\$ —	\$ 250.0
22nd Street and Osborne HAWK	200.0	—	—	—	—	200.0
22nd Street: I-10 to Tucson Boulevard	127.0	18,736.4	19,005.8	14,397.0	—	52,266.2
ADA Connectivity	968.8	—	—	—	—	968.8
ADA Sidewalks	968.8	—	—	—	—	968.8
ADA Transition Plan	94.6	—	—	—	—	94.6
Arcadia and Timrod Bike Boulevards	1,198.0	—	—	—	—	1,198.0
Arroyo Chico Greenway	500.0	—	—	—	—	500.0
Associated Transit Improvements	182.0	177.0	177.0	177.0	177.0	890.0
Broadway Boulevard: Camino Seco to Houghton	12,362.7	3,500.0	—	—	—	15,862.7
Broadway Boulevard: Euclid to Country Club	20,510.0	22,355.6	5,687.0	—	—	48,552.6
Congress Grande Intersection Improvements	35.0	100.0	400.0	—	—	535.0
Copper Street Bike Boulevard	388.0	—	—	—	—	388.0
Country Glenn Neighborhood Improvements	50.0	—	—	—	—	50.0
Downtown Links Barraza-Aviation	29,902.0	21,050.0	—	—	—	50,952.0
El Paso and Southwestern Greenway	936.7	61.3	—	—	—	998.0
Elvira Solar Street Lighting	2.0	—	—	—	—	2.0
First Avenue: Grant to River	150.0	4,000.0	9,900.0	17,500.0	—	31,550.0
Five Points Pedestrian Improvements	555.8	—	—	—	—	555.8
Five Points Transportation Enhancement	290.0	—	—	—	—	290.0
Glenn Street Transportation Enhancement	1,104.7	—	—	—	—	1,104.7
Grant and Arcadia HAWK	—	—	200.0	—	—	200.0
Grant: Oracle to Swan	13,025.4	10,000.0	20,000.0	10,000.0	20,000.0	73,025.4
Houghton Road: 22nd to Irvington	1,947.0	2,158.8	2,500.0	12,000.0	11,094.6	29,700.4
Houghton Road: Bridge Replacement	2,717.9	2,300.0	—	—	—	5,017.9
Houghton Road: Broadway to 22nd Street	100.0	—	—	—	—	100.0
Houghton Road: I-10 to Andrada Road	600.0	—	—	—	—	600.0
Houghton Road: Tanque Verde to 5th Street	50.0	—	—	—	—	50.0
Houghton Road: Union Pacific Railroad to I-10	8,434.9	150.0	100.0	—	—	8,684.9
Houghton Road: Valencia to Mary Ann Cleveland Way	4,054.3	663.0	10,413.0	4,128.3	—	19,258.6
Houghton Road: Wildlife Crossing	3.3	—	—	—	—	3.3
Kolb Road Connection to Sabino Canyon	505.0	100.0	—	—	—	605.0
Kolb Road: Irvington to Valencia	68.0	—	—	—	—	68.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Liberty Avenue Bicycle Boulevard	\$ 1,046.0	\$ —	\$ —	\$ —	\$ —	\$ 1,046.0
Mary Ann Cleveland Way Atterbury Wash Way	250.0	—	—	—	—	250.0
Midvale Park Oak Tree Drive Lighting	45.8	—	—	—	—	45.8
Pima Street Pedestrian Pathway Enhancements	64.1	—	—	—	—	64.1
Regional Transportation Data Network	621.9	—	—	—	—	621.9
Rio Vista Safe Routes to School	540.2	—	—	—	—	540.2
Robinson Safe Routes to School	580.1	—	—	—	—	580.1
Safe Routes to School Program	103.0	122.0	—	—	—	225.0
Santa Cruz Southwest Neighborhood Association Park Improvements	45.8	—	—	—	—	45.8
Security for Transit	177.0	177.0	177.0	177.0	177.0	885.0
Silverbell: Ina to Grant Road	22,653.2	—	3,420.0	—	—	26,073.2
Speedway and Richey HAWK	—	—	200.0	—	—	200.0
Stone Avenue: Drachman and Speedway Improvements	488.7	—	—	—	—	488.7
Street Improvements: Proposition 409	4,000.0	—	—	—	—	4,000.0
Sun Tran Replacement Buses 40 feet	9,839.6	9,359.6	8,062.1	10,277.0	10,446.6	47,984.9
Sun Tran South Park Electrical System Repair	—	500.0	—	—	—	500.0
Sun Tran South Park Facility Bus Wash Replacement	450.0	—	—	—	—	450.0
Sun Van Fuel Tank Replacements	—	—	500.0	—	—	500.0
Sun Van Replacement Buses <30 feet	2,235.0	2,304.0	3,975.0	3,100.0	3,100.0	14,714.0
Transit Facility Improvements South Park Stormwater Yard	3,969.6	—	—	—	—	3,969.6
Treat Avenue Bike Boulevard	215.0	—	—	—	—	215.0
University of Arizona 2nd Bike Pedestrian Improvement	5.0	—	—	—	—	5.0
Valencia Road: Alvernon to Kolb	18,790.0	50.0	50.0	—	—	18,890.0
Valencia Road: Kolb to Houghton	3,374.5	1,000.0	2,000.0	21,100.0	10,849.0	38,323.5
Total	\$ 171,526.4	\$ 99,114.7	\$ 86,766.9	\$ 92,856.3	\$ 55,844.2	\$ 506,108.5

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TRANSPORTATION

(\$000)

Source of Funds Summary	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
2017 General Obligation Street Bonds	\$ 4,000.0	\$ —	\$ —	\$ —	\$ —	\$ 4,000.0
Capital Agreement Fund: PAG	27,114.5	24,973.0	22,860.0	33,832.0	—	108,779.5
Capital Agreement Fund: Pima County Bonds	16,604.3	13,857.3	7,605.8	5,128.3	94.6	43,290.3
Capital Agreement Fund: Pima County Contribution	10,479.3	2,726.0	—	—	—	13,205.3
Federal Highway Administration Grants	12,644.7	881.0	701.0	701.0	708.0	15,635.7
Highway User Revenue Fund	1,020.0	253.3	—	—	—	1,273.3
Impact Fee Fund: Central District	2,057.0	1,330.5	4,300.0	—	—	7,687.5
Impact Fee Fund: East District	3,192.2	—	—	—	—	3,192.2
Impact Fee Fund: Southeast District	6,580.8	442.0	—	9,000.0	—	16,022.8
Impact Fee Fund: Southlands District	600.0	—	—	—	—	600.0
Impact Fee Fund: West District	2,019.3	—	—	—	—	2,019.3
Mass Transit Fund: Federal Grants	14,525.1	9,019.2	9,318.2	10,390.2	10,520.2	53,772.9
Mass Transit Fund: General Fund	3,177.1	2,797.4	2,871.9	2,639.8	2,672.4	14,158.6
Regional Transportation Authority Fund	67,512.1	42,835.0	39,110.0	31,165.0	41,849.0	222,471.1
Total	\$ 171,526.4	\$ 99,114.7	\$ 86,766.9	\$ 92,856.3	\$ 55,844.2	\$ 506,108.5

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON DELIVERS: Better Streets¹ (\$000)

Project Name	Adopted		Projected Requirements			Five
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	Year Total
Arterial	\$ 18,000.0	\$ 12,000.0	\$ 12,000.0	\$ 12,000.0	\$ 6,000.0	\$ 60,000.0
Local	12,000.0	8,000.0	8,000.0	8,000.0	4,000.0	40,000.0
Total	\$ 30,000.0	\$ 20,000.0	\$ 20,000.0	\$ 20,000.0	\$ 10,000.0	\$ 100,000.0

Source of Funds Summary

Better Streets Improvement Fund	\$ 30,000.0	\$ 20,000.0	\$ 20,000.0	\$ 20,000.0	\$ 10,000.0	\$ 100,000.0
Total	\$ 30,000.0	\$ 20,000.0	\$ 20,000.0	\$ 20,000.0	\$ 10,000.0	\$ 100,000.0

¹ This program relates to the Transportation Department.

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON DELIVERS: SAFER CITY¹

(\$000)

Project Name	Adopted		Projected Requirements			Five
	Year 1	Year 2	Year 3	Year 4	Year 5	Year
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Total
Fire Facilities	\$ 8,840.0	\$ 5,962.1	\$ 10,079.8	\$ 7,232.4	\$ 767.7	\$ 32,882.0
Fire Fleet	11,582.7	8,521.3	6,992.3	4,819.2	—	31,915.5
Fire Personnel Safety Equipment	245.0	245.0	245.0	237.3	—	972.3
Fire Technology Upgrades	1,637.0	182.0	182.0	145.0	—	2,146.0
Police Air Support	150.0	150.0	150.0	150.0	—	600.0
Police Evidence Storage	90.0	90.0	90.0	90.0	—	360.0
Police Facilities	2,336.2	4,471.5	16,982.0	14,297.0	—	38,086.7
Police Fleet	4,427.9	3,948.0	4,256.0	3,833.0	—	16,464.9
Police Personnel Safety Equipment	890.9	886.0	886.0	1,733.3	—	4,396.2
Police Technology Upgrades	3,927.8	953.0	953.0	895.6	—	6,729.4
Public Safety Training Academy Improvements	520.0	—	750.0	—	—	1,270.0
Total	\$ 34,647.5	\$ 25,408.9	\$ 41,566.1	\$ 33,432.8	\$ 767.7	\$ 135,823.0
Source of Funds Summary						
Safer City Improvement Fund	\$ 34,647.5	\$ 25,408.9	\$ 41,566.1	\$ 33,432.8	\$ 767.7	\$ 135,823.0
Total	\$ 34,647.5	\$ 25,408.9	\$ 41,566.1	\$ 33,432.8	\$ 767.7	\$ 135,823.0

¹ This program relates to the Tucson Fire and Police Departments.

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON WATER (\$000)

Project Name	Adopted		Projected Requirements			Five
	Year 1	Year 2	Year 3	Year 4	Year 5	Year
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	Total
22nd Street to 36th Street, Kolb to Craycroft Distribution Main	\$ —	\$ —	\$ —	\$ 1,252.0	\$ 11,424.0	\$ 12,676.0
Advanced Metering Infrastructure	109.0	924.0	1,139.0	1,159.0	1,175.0	4,506.0
Annual Production Well Equipping	—	—	—	—	2,351.0	2,351.0
Arc Flash Service Upgrades	1,094.0	1,127.0	114.0	58.0	—	2,393.0
Bear Canyon South of Snyder Distribution Main	—	—	—	—	834.0	834.0
Billing System	—	563.0	7,976.0	17,390.0	1,763.0	27,692.0
Calle Santa Cruz Transmission Main Replacement	3,037.0	—	—	—	—	3,037.0
CAP Basin Collector Pipelines	—	—	—	58.0	1,352.0	1,410.0
CAP Basin Well 24" Transmission Main, Old Nogales Highway	—	—	115.0	41.0	1,721.0	1,877.0
Cathodic Protection for Critical Pipelines	891.0	993.0	1,033.0	1,094.0	1,143.0	5,154.0
CAVSARP Well Pump Improvements	328.0	338.0	342.0	3,478.0	3,526.0	8,012.0
Cherry Avenue Distribution Main, Silver Street to Well B-010	55.0	—	—	—	—	55.0
Clearwell Reservoir Rehabilitation	131.0	—	—	—	—	131.0
Control Panel Replacements: Potable	109.0	113.0	114.0	116.0	118.0	570.0
Control Panels: Reclaimed System	164.0	169.0	171.0	174.0	176.0	854.0
Craycroft Road D-E Booster Station	—	—	—	—	118.0	118.0
Developer-Financed Reclaimed Systems	66.0	68.0	68.0	70.0	71.0	343.0
Devine Reservoir Rehabilitation	66.0	2,929.0	—	—	—	2,995.0
Diamond Bell Production Facilities Improvement	273.0	620.0	—	—	—	893.0
Drexel I-19 Crossing 24 Main	—	56.0	1,082.0	—	—	1,138.0
Drill Production Wells	—	—	—	2,319.0	3,526.0	5,845.0
E-031A Well Equipping	350.0	—	—	—	—	350.0
E-031A Well 12-Inch Transmission Main	92.0	—	—	—	—	92.0
Emergency Main Replacement	438.0	451.0	456.0	464.0	470.0	2,279.0
Equip Wells SS-021 and SS-023	—	—	—	87.0	—	87.0
Escalante Reservoir	33.0	—	1,709.0	—	—	1,742.0
Excellence in Customer Care Center	2,422.0	2,141.0	—	—	—	4,563.0
Extensions for New Services	109.0	113.0	114.0	116.0	118.0	570.0
F-001 and F-003 Tank Rehabilitation	295.0	—	—	—	—	295.0
Facility Safety and Security Infrastructure	547.0	1,127.0	1,139.0	1,159.0	1,175.0	5,147.0
Filtration Modifications at Reclaimed Plant	1,094.0	1,547.0	—	—	—	2,641.0
Fire Hydrants in Annexation Areas	109.0	113.0	114.0	116.0	118.0	570.0
Fire Services	1,914.0	1,972.0	1,994.0	2,029.0	2,057.0	9,966.0
Gas Engines	820.0	845.0	855.0	869.0	—	3,389.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON WATER

(\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Glenn Street Reclaimed Maintenance, Craycroft to Swan	\$ 1,871.0	\$ —	\$ —	\$ —	\$ —	\$ 1,871.0
Goebel Ave Distribution Main	—	28.0	100.0	—	—	128.0
H-002A Well Re-Drilling	—	—	570.0	—	—	570.0
H-002A Well Re-Equipping	—	—	57.0	522.0	—	579.0
H-005 Well Collector Line	—	—	57.0	1,449.0	—	1,506.0
H-005 Well Drilling	—	—	1,139.0	—	—	1,139.0
H-005 Well Equipping	—	—	57.0	522.0	—	579.0
H-1 Ironwood PRV Station Bailey Valve Replacement	356.0	51.0	—	—	—	407.0
Harrison Road 12-Inch Transmission Main	719.0	—	—	—	—	719.0
Hayden Udall Fuel System	55.0	789.0	—	—	—	844.0
Houghton Road Reclaimed Reservoir	2,844.0	—	—	—	—	2,844.0
Iowa Distribution Main, Spencer Road to Sunset	55.0	—	—	—	—	55.0
Irvington Distribution Main, Cardinal to Moonstar	55.0	—	—	—	—	55.0
La Estancia 24-Inch Transmission Main Phase I	470.0	—	—	—	—	470.0
La Estancia 24-Inch Transmission Main Phase II	711.0	—	—	—	—	711.0
La Paloma Reclaimed Reservoir Rehabilitation	—	113.0	2,963.0	—	—	3,076.0
Magee Road (410E) PRV Replacement	—	—	85.0	—	—	85.0
Manzanita Tank Lining	720.0	—	—	—	—	720.0
Maryvale Manor Subdivision, Phase I	919.0	—	—	—	—	919.0
Maryvale Manor Subdivision, Phase III	55.0	530.0	—	—	—	585.0
Meter Upgrade and Replacement Program	4,332.0	4,507.0	3,418.0	3,478.0	—	15,735.0
Miscellaneous Land and Right-of-Way Acquisitions	11.0	11.0	11.0	12.0	12.0	57.0
Nebraska Road Distribution Main	—	282.0	—	—	—	282.0
New Metered Services	55.0	56.0	57.0	58.0	59.0	285.0
North Satellite Mustering Room Expansion	383.0	—	—	—	—	383.0
Old Vail 36-Inch Transmission Main Alvernon to Wilmot	—	—	—	—	118.0	118.0
Old Vail Steel Tank Upgrades (Rehabilitation)	34.0	—	—	—	—	34.0
Online Water Quality Monitoring Network Upgrade	438.0	451.0	456.0	464.0	—	1,809.0
Payments to Developers for Oversized Systems	109.0	113.0	114.0	116.0	118.0	570.0
Pima Mine Road Production Well Drilling	—	—	2,849.0	—	—	2,849.0
Pima Mine Road Well Equipping (3)	—	—	—	174.0	1,410.0	1,584.0
Plant 1 Building 3 Remodeling	219.0	169.0	—	—	—	388.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON WATER (\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
Plant 1 Miscellaneous Improvements	\$ 109.0	\$ 113.0	\$ 57.0	\$ —	\$ —	\$ 279.0
Plant 1 New Meter Shop	109.0	901.0	—	—	—	1,010.0
Pressure Tank Replacement	492.0	507.0	513.0	522.0	529.0	2,563.0
Production Well Sites	82.0	85.0	85.0	87.0	88.0	427.0
Pumping Plant Improvements	—	—	2,279.0	1,159.0	2,351.0	5,789.0
Relocate Anklam Road PRV	—	—	199.0	—	—	199.0
Relocate Camino De Los Ranchos PRV	191.0	—	—	—	—	191.0
Relocate Craycroft Shadow Ridge PRV	11.0	242.0	—	—	—	253.0
Relocate Spencer PRV	—	169.0	—	—	—	169.0
Relocate Via Velazquez PRV	164.0	—	—	—	—	164.0
Reservoir and Tank Rehabilitation	—	—	—	2,898.0	7,052.0	9,950.0
Responsive Meter Replacement	547.0	563.0	—	—	—	1,110.0
Review Developer-Financed Potable Projects	1,039.0	1,070.0	1,082.0	1,101.0	1,117.0	5,409.0
Rio De La Roma D-C PRV	164.0	—	—	—	—	164.0
Rita Road F2 to G2 Zone Booster Station	164.0	1,352.0	—	—	—	1,516.0
River Road 12-Inch Main	656.0	—	—	—	—	656.0
Road Improvement Main Replacements	7,657.0	5,634.0	5,697.0	5,797.0	5,876.0	30,661.0
Routine Main Replacements	—	—	—	3,478.0	3,526.0	7,004.0
Sahuarita Supply Line Slipliner	6,968.0	1,127.0	—	—	—	8,095.0
San Paulo Village Main Replacement Phase II	1,240.0	—	—	—	—	1,240.0
San Paulo Village Main Replacement Phase III	449.0	—	—	—	—	449.0
Santa Cruz River Heritage Project	1,641.0	2,253.0	—	—	—	3,894.0
Santa Cruz Wellfield Chemical Feed/ Monitoring Facility	3,610.0	—	—	—	—	3,610.0
Santa Cruz Well SC-001, SC-004, SC-014 Equipping	—	169.0	1,367.0	—	—	1,536.0
SC-001 and SC-004 Well Transmission Lines	66.0	126.0	556.0	—	—	748.0
SCADA Potable Upgrades	5,688.0	5,972.0	6,039.0	2,319.0	—	20,018.0
Santa Cruz Well Replacement SC-001, SC-004, SC-014	—	2,253.0	—	—	—	2,253.0
Silverbell Orange Grove 12" PRV 3SC-004, SC-014	197.0	—	—	—	—	197.0
Skyline Bel Air Tank Rehabilitation	131.0	—	—	—	—	131.0
Source Meter Replacement	241.0	248.0	251.0	255.0	259.0	1,254.0
Southeast Houghton Area Discharge Project	6,399.0	—	—	—	—	6,399.0
System Enhancements: Reclaimed	273.0	282.0	285.0	290.0	294.0	1,424.0
TARP AOP Settling Tank	109.0	—	—	—	—	109.0
TARP Wells R-001 - R-008 Drilling Replacement	547.0	—	1,139.0	—	1,175.0	2,861.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

TUCSON WATER

(\$000)

	Adopted		Projected Requirements			Five Year Total
	Year 1	Year 2	Year 3	Year 4	Year 5	
	FY 18/19	FY 19/20	FY 20/21	FY 21/22	FY 22/23	
TARP Wells R-001 - R-008 Re-Equipping	\$ 492.0	\$ 507.0	\$ 513.0	\$ 522.0	\$ 529.0	\$ 2,563.0
Technological Upgrades	—	—	—	—	7,052.0	7,052.0
Thornycastle Reclaimed Reservoir Rehabilitation	—	—	114.0	3,014.0	—	3,128.0
Thunderbird Old Spanish Trail Distribution Main	—	56.0	934.0	—	—	990.0
Thunderbird Old Spanish Trail PRV	—	56.0	251.0	—	—	307.0
Tierra Del Sol Main Replacement Phase II	55.0	473.0	—	—	—	528.0
Tierra Del Sol Main Replacement Phase III	55.0	699.0	—	—	—	754.0
Tierra Del Sol Main Replacement Phase IV	55.0	558.0	—	—	—	613.0
Tierra Del Sol Main Replacement Phase V	—	56.0	809.0	—	—	865.0
Tierra Del Sol Main Replacement Phase VI	—	56.0	1,538.0	—	—	1,594.0
Tierra Del Sol Main Replacement Phase VII	—	56.0	1,424.0	—	—	1,480.0
Trails End Reservoir Rehabilitation	184.0	1,042.0	—	—	—	1,226.0
Tucson Estates Parkway/Michigan Street PRV Relocate	164.0	—	—	—	—	164.0
University of Arizona Science Park 16-inch Transmission Main	55.0	1,408.0	—	—	—	1,463.0
University of Arizona Science and Tech Park F-G Booster Upgrade	109.0	1,014.0	—	—	—	1,123.0
Valencia Stand Pipe Rehabilitation	44.0	113.0	2,279.0	—	—	2,436.0
Valve Access Vault	547.0	563.0	570.0	580.0	588.0	2,848.0
W-004A and W-005A Well Replacement	2,188.0	—	—	—	—	2,188.0
W-004 Tank Rehabilitation	164.0	—	—	—	—	164.0
Water Infrastructure Incentive Program	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	12,500.0
Water Services	1,652.0	1,701.0	1,721.0	1,751.0	1,775.0	8,600.0
Wellfield Upgrades	547.0	563.0	570.0	580.0	588.0	2,848.0
Total	\$ 76,712.0	\$ 57,796.0	\$ 63,240.0	\$ 65,697.0	\$ 70,252.0	\$ 333,697.0

Source of Funds Summary

2018 Water Revenue System Obligation Fund	\$ 34,440.0	\$ —	\$ —	\$ —	\$ —	\$ 34,440.0
Environmental Services Fund	1,000.0	—	—	—	—	1,000.0
Future Water Revenue Bonds	—	21,816.0	25,251.0	16,400.0	17,501.0	80,968.0
Tucson Water Revenue and Operations Fund	41,272.0	35,980.0	37,989.0	49,297.0	52,751.0	217,289.0
Total	\$ 76,712.0	\$ 57,796.0	\$ 63,240.0	\$ 65,697.0	\$ 70,252.0	\$ 333,697.0

FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

GENERAL GOVERNMENT (\$000)

Project Name	Adopted		Projected Requirements			Five Year Total
	Year 1 FY 18/19	Year 2 FY 19/20	Year 3 FY 20/21	Year 4 FY 21/22	Year 5 FY 22/23	
Enterprise Timekeeping Management System	\$ 133.7	\$ —	\$ —	\$ —	\$ —	\$ 133.7
Enterprise Resource Planning System Upgrade	1,500.0	—	—	1,800.0	1,800.0	5,100.0
Permitting System	2,625.3	—	—	—	—	2,625.3
Total	\$ 4,259.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 7,859.0
Source of Funds Summary						
General Fund	\$ 3,117.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 6,717.0
Impact Fee Fund: Public Facilities	1,142.0	—	—	—	—	1,142.0
Total	\$ 4,259.0	\$ —	\$ —	\$ 1,800.0	\$ 1,800.0	\$ 7,859.0

Section B

Department Programs



Environmental and General Services



Capital Improvement Program Department Statement

FY 2018/19 through FY 2022/23

Department: Environmental and General Services

Five-Year Total: \$ 22,483,100

The Capital Improvement Plan (CIP) of \$22.5 million is Environmental and General Services' avenue to plan, establish and fund the City's need to safeguard the community from environmental impacts, improve department and landfill facilities, create future landfill capacity, and comply with environmental protection regulations. Projects directly reflect the City's efforts in meeting the long-term needs of the community such as enhancing neighborhoods and downtown by restoring the natural environment and by removing environmental barriers to redevelopment.

The Los Reales Landfill is a regional facility serving residents and businesses of Tucson and Pima County. It is the only active landfill owned and managed by the City of Tucson. Improvements to the landfill were mater planned in phases and include perimeter fencing, utility infrastructure and site facilities for scales, landfill administration, self-haulers, recycling, household hazardous waste, and a learning center.

The Five-Year program is funded solely from the department's revenues.

The Environmental Services' CIP of \$18.4 million are funded by Environmental Services Fund. Projects are divided into the following categories:

Facilities and Landfill Construction: Projects in this category include improvements to the department's Container Maintenance Facility, construction of a household hazardous waste facility, construction of an additional facility for future disposal capacity, and a landfill buffer on the northeastern berm with landscaping at the Los Reales Landfill. The Congress and Nearmont Landfill Excavation project is another major project of the year. The landfills are located just south of Congress Street on the western bank of the Santa Cruz River. The project is to remove refuse material from the landfills, and eventually will promote the potential residential and commercial redevelopment of the area. The total project budgeted cost is estimated to be \$7.0 million with \$4.0 million budgeted in Fiscal Year 2018/19 and is funded by Environmental Services.

Remediation: The Silverbell Landfill Water Quality Assurance Treatment System are regulatory projects to remove landfill contamination from the groundwater, which will protect down gradient wells and the Sweetwater Recharge Facility.

The General Services CIP of \$4.1 million consists of two projects: The Energy Performance Contract and the Energy Expansion Plan at the Tucson Convention Center (TCC). These works are funded through the General Fund.

Energy Performance Contract: This is a pilot program that will realize a net savings in utility costs and will accomplish much needed repairs and upgrades of the facility's energy and water systems.

Expansion of Energy Plant: The expansion at the TCC to the Cathedral Square will provide the Catholic Diocese heating and cooling water to their facilities. The energy plant was originally designed and constructed with the intent to serve private entities. This project will save the City money by spreading overhead costs of operating the plant. This project may help pave the way to wider district energy uses in downtown, which is a known economic development driver.

Environmental and General Services

(\$000)

Congress and Nearmont Landfill Excavation Description: Remove about 392,000 cubic yards of refuse material from the Congress Landfill area and from the Nearmont Landfill. Justification: These landfills were active during the 1950s and 1960s, and were comprised of a single unlined cell. Removing the refuse material from these landfills will promote the potential residential and commercial redevelopment of the area. City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.										Project ID: U321 Start Date: 3/18 End Date: 6/19 Location: Ward 1	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	3,000.0	4,000.0	0.0	4,000.0	0.0	0.0	0.0	0.0	4,000.0	0.0	7,000.0
Total	3,000.0	4,000.0	0.0	4,000.0	0.0	0.0	0.0	0.0	4,000.0	0.0	7,000.0

Container Maintenance - Los Reales Relocation Description: Design and construct a Container Maintenance Facility to be located at the Los Reales Landfill site. The facility includes a welding area, painting area and maintenance shop area. Administration areas including offices, a conference room and storage and locker facilities. Justification: The current Container Maintenance Facility at 10th Avenue is inadequate to serve the needs of the City of Tucson. Improvements in building and facility design are needed to provide a safe and efficient working environment for the container maintenance activities. City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.										Project ID: Q422 Start Date: 7/17 End Date: 6/20 Location: Ward 5	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	510.0	2,120.0	1,738.5	3,858.5	562.4	0.0	0.0	0.0	4,420.9	0.0	4,930.9
Total	510.0	2,120.0	1,738.5	3,858.5	562.4	0.0	0.0	0.0	4,420.9	0.0	4,930.9

Energy Performance Contract (City Hall, Udall Park, Donna Liggins Park)

Description:

This project will ultimately result in energy and water efficiency upgrades in the above-mentioned facilities. These will come in the form of HVAC, lighting, controls, irrigation and potentially envelope upgrades of the subject facilities. The project is essentially budget neutral, using future utility savings to pay for the project.

Justification:

The facilities will realize a net savings in utility costs and will not have to find the cash to invest in much needed facility fixes and upgrades to energy and water systems. The facilities will be more comfortable and productive places to work and for the public to visit.

City-Wide Priorities: Balance Budget and Maintenance and Renovation of Existing City Assets.

Project ID: B815
Start Date: 7/17
End Date: 6/19
Location: Wards 1, 2 and 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund	1,000.0	3,000.0	0.0	3,000.0	0.0	0.0	0.0	0.0	3,000.0	0.0	4,000.0
Total	1,000.0	3,000.0	0.0	3,000.0	0.0	0.0	0.0	0.0	3,000.0	0.0	4,000.0

Expansion of Energy Plant at the Tucson Convention Center

Description:

This project will extend pipelines from the existing City owned energy plant to the Cathedral Square will provide the Catholic Diocese heating and cooling water within their facilities. The energy plant was originally designed and constructed with the intent to serve private entities.

Justification:

The project will ensure the Diocese uses an efficient and reliable source of energy downtown. The project may pave the way to wider district energy uses in downtown, which drives economic development.

City-Wide Priorities: Balanced Budget and Maintenance and Renovation of Existing City Assets.

Project ID: B814
Start Date: 6/17
End Date: 6/19
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund	0.0	650.0	0.0	650.0	0.0	0.0	0.0	0.0	650.0	0.0	650.0
General Services Internal Service Fund	200.0	450.0	0.0	450.0	0.0	0.0	0.0	0.0	450.0	0.0	650.0
Total	200.0	1,100.0	0.0	1,100.0	0.0	0.0	0.0	0.0	1,100.0	0.0	1,300.0

Household Hazardous Waste - Los Reales Relocation

Project ID: Q421
 Start Date: 10/17
 End Date: 7/20
 Location: Ward 5

Description:

Design and construct a facility to relocate Household Hazardous Waste to the Los Reales Landfill.

Justification:

Centralizing Household Hazardous Waste facilities into one location at Los Reales Landfill will increase efficiency and provide better service and operational hours for the public.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	521.3	636.7	1,582.6	2,219.3	60.0	0.0	0.0	0.0	2,279.3	0.0	2,800.6
Total	521.3	636.7	1,582.6	2,219.3	60.0	0.0	0.0	0.0	2,279.3	0.0	2,800.6

Los Reales Landfill Buffer - Northeastern Berm and Landscape

Project ID: Q334
 Start Date: 7/18
 End Date: 12/18
 Location: Ward 5

Description:

Design and construct an earthen berm to include desert landscaping for the northeastern buffer adjacent to the landfill entrance on Craycroft Road.

Justification:

The construction of the earthen berm with landscaping will provide a buffer along the Craycroft Road landfill entrance. The berm will provide a visual screen for undeveloped property to the east of the landfill entrance and act as a noise reduction barrier for traffic entering the landfill.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	0.0	130.0	0.0	130.0	0.0	0.0	0.0	0.0	130.0	0.0	130.0
Total	0.0	130.0	0.0	130.0	0.0	0.0	0.0	0.0	130.0	0.0	130.0

Los Reales Landfill Lined Cell 4

Description:

Design and construct a cell at the Los Reales landfill. This project includes construction of the base and sidewall liner systems, leachate collection system and modifications to the on-site basins, channels, and road.

Justification:

It is estimated that the current landfill areas will be filled by 2022 based on the current and expected waste accepted rates at the Los Reales landfill. The Cell 4 fill area is needed to provide continued waste disposal capacity at the landfill for the City of Tucson and surrounding areas.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: Q416
Start Date: 7/17
End Date: 6/20
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	500.0	600.0	1,404.7	2,004.7	300.0	0.0	0.0	0.0	2,304.7	0.0	2,804.7
Total	500.0	600.0	1,404.7	2,004.7	300.0	0.0	0.0	0.0	2,304.7	0.0	2,804.7

Los Reales Light Maintenance Facility

Description:

Design and construct a concrete pad and parking area for performing light vehicle maintenance work on collection fleet trucks while at Los Reales landfill.

Justification:

Reduction in tow truck request and shorten truck down time for light repairs.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: Q385
Start Date: 6/19
End Date: 6/20
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	0.0	0.0	0.0	0.0	500.0	0.0	0.0	0.0	500.0	0.0	500.0
Total	0.0	0.0	0.0	0.0	500.0	0.0	0.0	0.0	500.0	0.0	500.0

Los Reales Property Acquisition Phase 2

Description:

Purchase of 26.8 Acres-3 parcel located at Los Reales Landfill, Craycroft South of Interstate 10.

Justification:

The land will serve as a buffer for the landfill, drainage, and for future landfill expansion.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: Q414
 Start Date: 7/17
 End Date: 6/19
 Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	100.0	700.0	0.0	700.0	0.0	0.0	0.0	0.0	700.0	0.0	800.0
Total	100.0	700.0	0.0	700.0	0.0	0.0	0.0	0.0	700.0	0.0	800.0

Silverbell Landfill Water Quality Assurance Treatment Facility

Description:

Design and construct groundwater treatment facility and associated infrastructure at the closed Silverbell Landfill. Improvements include extraction wells, treatment plant and conveyance structures. Construction phase began in 2018, with facility operation spanning 20 years.

Justification:

This project will meet state regulatory requirements to remove landfill volatile organic compound contamination from the groundwater. In addition, it will protect downgradient wells and the City's Sweetwater Recharge Facility.

City-Wide Priorities: Balanced Budget, Health and Safety, and Maintenance and Renovation of Existing City Assets.

Project ID: U320
 Start Date: 7/15
 End Date: 6/19
 Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	1,251.8	1,477.0	2,271.2	3,748.2	0.0	0.0	0.0	0.0	3,748.2	0.0	5,000.0
Total	1,251.8	1,477.0	2,271.2	3,748.2	0.0	0.0	0.0	0.0	3,748.2	0.0	5,000.0

Tenth Avenue Maintenance Facility

Description:

Design and construct improvements at the Container Maintenance Facility located at South Tenth Avenue. Improvements include demolition, earthwork, infrastructure, drainage and installation of a new building.

Project ID: Q412
Start Date: 10/13
End Date: 6/20
Location: Ward 6

Justification:

Safety improvements are necessary to the vacant, former transfer station building. A new facility is needed for the welding, storage and operations of the container maintenance.

City-Wide Priorities: Balanced Budget and Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	1,043.4	0.0	0.0	0.0	300.0	0.0	0.0	0.0	300.0	0.0	1,343.4
Total	1,043.4	0.0	0.0	0.0	300.0	0.0	0.0	0.0	300.0	0.0	1,343.4

Housing and Community Development



**Capital Improvement Program
Department Statement**

FY 2018/19 through FY 2022/23

Department: Housing and Community Development

Five-Year Total: \$5,695,170

The Housing and Community Development Department's Five-Year Capital Improvement Program (CIP) is funded with \$5.7 million in Federal Grants.

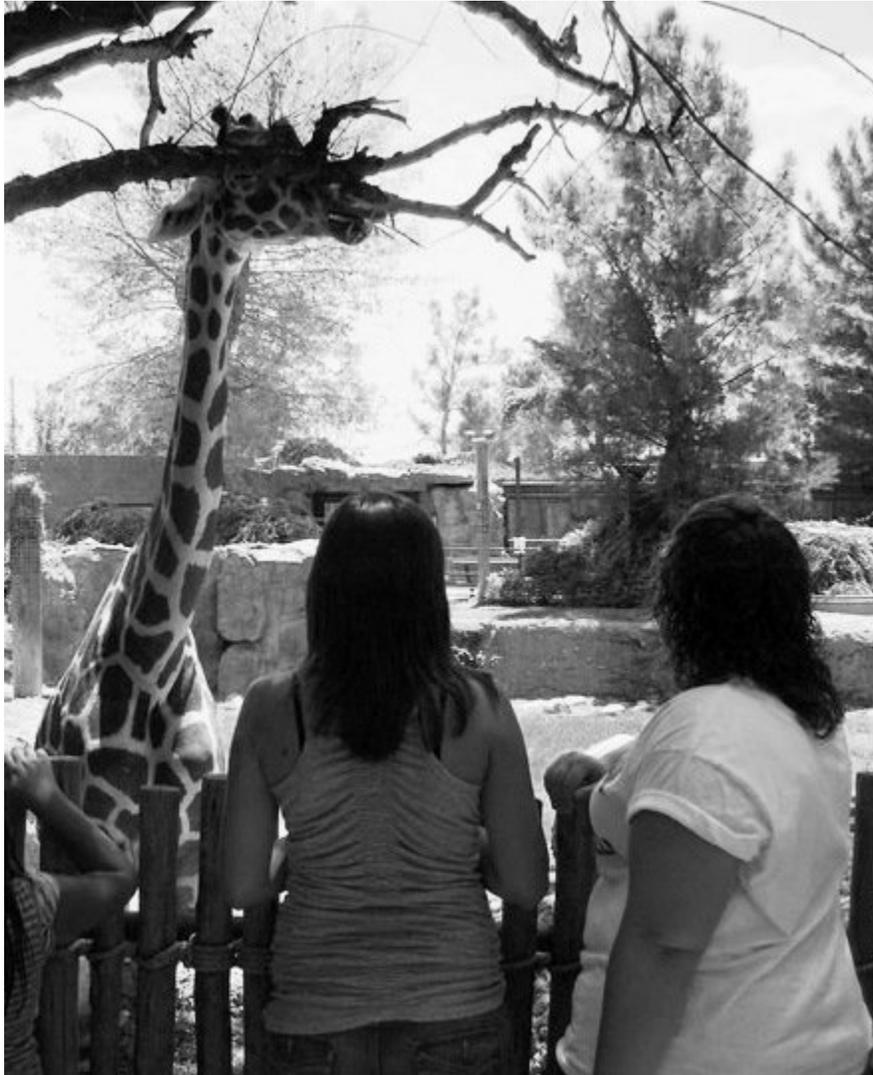
The Community Development Block Grant Master Plan CIP (CDBG) for Parks and Transportation projects enhance neighborhood recreation areas, addresses traffic and street issues, complies with the Americans with Disabilities Act (ADA), and meets the U.S. Department of Housing and Urban Development Consolidated Annual Action Plan.

Housing and Community Development

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Community Development Block Grant (CDBG) Master Plan CIP										Project ID: H158 Start Date: Annual End Date: Annual Location: Citywide	
Description: Community Development Block Grant (CDBG) Public Facilities Neighborhood Enhancements for Parks and/or Transportation provides and meets the Consolidated Annual Action Plan's objective of availability and accessibility as submitted to the U.S. Department of Housing and Urban Development.											
Justification: To enhance neighborhood recreation areas such as parks and walking paths and to address safety and access issues for streets such as bus shelters, traffic calming, street lighting and compliance with the American with Disabilities Act (ADA).											
City-Wide Priorities: Health and Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Community Development Block Grant	0.0	0.0	5,695.2	5,695.2	0.0	0.0	0.0	0.0	5,695.2	0.0	5,695.2
Total	0.0	0.0	5,695.2	5,695.2	0.0	0.0	0.0	0.0	5,695.2	0.0	5,695.2

Parks and Recreation



Capital Improvement Program Department Statement

FY 2018/19 through FY 2022/23

Department: Parks and Recreation

Five-Year Total: \$ 39,911,570

The Parks and Recreation Department's Capital Improvement Program (CIP) is based on the parks, recreation, and open space component of Plan Tucson; the adopted City of Tucson Parks and Recreation Ten-Year Strategic Service Plan; and Mayor and Council direction. The CIP implements Mayor and Council policy by developing facilities that provide for family, youth, and senior adult recreation, while supporting inner-city revitalization, public art, and using arid and semi-arid landscaping wherever possible to conserve water.

The CIP is separated into two major areas: Park improvement and Zoo improvement.

Reid Park Zoo Quality of Life Tax: Fiscal Year 2018/19 has new funding through the voter approved Propositions 202 and 203. An estimated \$10.0 million annually is expected to be provided as a result of imposing a tenth-of-a cent sales tax for a period of 10 years, from February 1, 2018 to December 31, 2027. The Reid Park Zoo Capital Improvement Fund is restricted to be used for capital improvements, operations and maintenance of the 50-year old Zoo. The plan is to improve and update the Zoo facilities to modern zoo standards by improving existing habitats and bringing in new species by building new habitats that will provide safer and healthier environments for the animals. Currently the Five-year CIP for this project is budgeted at \$35.0 million with \$7.0 million for Fiscal Year 2018/19.

The other Five-Year capital programs of \$4.9 million are funded from Impact Fees, Capital Improvement Funds, and Civic Contributions.

Parks and Recreation

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A Mountain Improvements										Project ID: R990	
Description: Design and construct Americans with Disabilities Act (ADA) and other improvements to public facilities in Sentinel Peak Park at A Mountain.										Start Date: 12/07	
Justification: A Mountain Park has regional significance, and this project will benefit and address the community's need for open space, passive recreation, and natural/historic resource preservation and interpretation.										End Date: 6/19	
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.										Location: Ward 1	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2000 General Obligation Bonds: Series F	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8
General Fund	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
General Fund: Restricted	195.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	195.0
Road & Park Impact Fee Fund: West District	89.0	3.0	0.0	3.0	0.0	0.0	0.0	0.0	3.0	0.0	92.0
West District Impact Fees	49.4	138.0	0.0	138.0	0.0	0.0	0.0	0.0	138.0	0.0	187.4
Total	449.3	141.0	0.0	141.0	0.0	0.0	0.0	0.0	141.0	0.0	590.3

Arroyo Chico Urban Path: Country Club to Treat

Description:

Design and construct urban greenway improvements along the Arroyo Chico Urban Path including a pedestrian/bicyclist activated street crossing. This project is in conjunction with Transportation Department project in the amount of \$600,000 which is funded by the Regional Transportation Authority (RTA).

Justification:

Development of these improvements will address the community's need for connectivity and a more complete urban pathway system.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: RP1C
Start Date: 7/14
End Date: 6/19
Location: Wards 5 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Central District Impact Fees	151.7	172.7	90.0	262.7	0.0	0.0	0.0	0.0	262.7	0.0	414.4
Total	151.7	172.7	90.0	262.7	0.0	0.0	0.0	0.0	262.7	0.0	414.4

Cherry Avenue Improvements

Description:

Design and construct improvements at Cherry Avenue Recreation Senior Center.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: RM25
Start Date: 7/18
End Date: 6/19
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Road & Park Impact Fee Fund: West District	0.0	36.9	0.0	36.9	0.0	0.0	0.0	0.0	36.9	0.0	36.9
West District Impact Fees	0.0	13.1	0.0	13.1	0.0	0.0	0.0	0.0	13.1	0.0	13.1
Total	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0

Christopher Columbus Park Expansion

Description:

Design and construct improvements to the north end of Christopher Columbus Park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: RM03
Start Date: 3/07
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Civic Contributions Fund	142.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	142.0
Road & Park Impact Fee Fund: West District	662.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	662.6
West District Impact Fees	18.5	25.1	0.0	25.1	0.0	0.0	0.0	0.0	25.1	0.0	43.6
Total	823.1	25.1	0.0	25.1	0.0	0.0	0.0	0.0	25.1	0.0	848.2

Himmel Park Improvements

Description:

Design and construct a new playground and shade structure in the west side of the park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: RM26
Start Date: 7/18
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Central District Impact Fees	0.0	264.0	0.0	264.0	0.0	0.0	0.0	0.0	264.0	0.0	264.0
Total	0.0	264.0	0.0	264.0	0.0	0.0	0.0	0.0	264.0	0.0	264.0

<p>Jesse Owens Park Improvements</p> <p>Description: Design and construction of new park amenities.</p> <p>Justification: This project is needed to increase capacity in our parks and recreation system to address the demands placed on it by new development.</p> <p>City-Wide Priorities: Customer Service.</p>	<p>Project ID: RM19 Start Date: 7/16 End Date: 6/19 Location: Ward 2</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
East District Impact Fees	266.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	266.2
Road & Park Impact Fee Fund: East District	529.4	200.0	0.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	729.4
Total	795.6	200.0	0.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	995.6

<p>Lakeside Park Improvements</p> <p>Description: Design and construct American Disability Act improvements to area surrounding the lake at Lakeside Park.</p> <p>Justification: This project is needed to increase capacity in our parks and recreation system to address the demands placed on it by new development.</p> <p>City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.</p>	<p>Project ID: RM20 Start Date: 7/16 End Date: 6/19 Location: Ward 4</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Southeast District Impact Fees	79.3	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	129.3
Total	79.3	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	129.3

Limberlost Family Park ADA Improvements and Walking Path

Description:

Design and construct a walking path around the perimeter of Limberlost Family Park including American Disability Act improvements.

Justification:

This project is needed to increase capacity in our parks and recreation system to meet future demands placed on it by new development.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: RM22
Start Date: 7/17
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Central District Impact Fees	104.9	22.1	0.0	22.1	0.0	0.0	0.0	0.0	22.1	0.0	127.0
Road & Park Impact Fee Fund: Central District	35.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.4
Total	140.3	22.1	0.0	22.1	0.0	0.0	0.0	0.0	22.1	0.0	162.4

Lincoln Park Playground

Description:

Design and construct a new playground at Abraham Lincoln Park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: RM21
Start Date: 7/16
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Southeast District Impact Fees	13.9	220.0	0.0	220.0	0.0	0.0	0.0	0.0	220.0	0.0	233.9
Total	13.9	220.0	0.0	220.0	0.0	0.0	0.0	0.0	220.0	0.0	233.9

<p>Menlo Park Exercise Stations</p> <p>Description: Develop and construct exercise stations at Menlo Park.</p> <p>Justification: This project is needed to expand the existing facilities to meet future needs.</p> <p>City-Wide Priorities: Customer Service.</p>	<p>Project ID: RP24 Start Date: 1/17 End Date: 6/19 Location: Ward 1</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	45.2	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.0	45.8
Total	45.2	0.6	0.0	0.6	0.0	0.0	0.0	0.0	0.6	0.0	45.8

<p>Purple Heart Park Expansion</p> <p>Description: Design and construct additional amenities outlined in the current masterplan for the park including two new shade structures over the playgrounds and a new restroom.</p> <p>Justification: This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.</p> <p>City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.</p>	<p>Project ID: RM08 Start Date: 7/07 End Date: 6/19 Location: Ward 4</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2000 General Obligation Bonds: Series F	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
General Fund	150.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	150.0
Road & Park Impact Fee Fund: Southeast District	1,023.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,023.4
Southeast District Impact Fees	467.0	485.4	0.0	485.4	0.0	0.0	0.0	0.0	485.4	0.0	952.4
Total	1,665.4	485.4	0.0	485.4	0.0	0.0	0.0	0.0	485.4	0.0	2,150.8

Reid Park Expansion, Phase I

Description:

Design and construct a grassy open space, a large-event venue and American Disability Act improvements. This project is part of a multi-phase development. Future phases will include capacity-building improvements to Reid Park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service and Health and Safety.

Project ID: RM09
Start Date: 7/07
End Date: 6/20
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2000 General Obligation Bonds: Series F	46.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	46.5
Central District Impact Fees	0.0	191.4	4.5	195.9	120.3	100.0	0.0	0.0	416.2	0.0	416.2
Road & Park Impact Fee Fund: Central District	378.4	358.8	35.3	394.1	0.0	0.0	0.0	0.0	394.1	0.0	772.5
Total	424.9	550.2	39.8	590.0	120.3	100.0	0.0	0.0	810.3	0.0	1,235.2

Reid Park Zoo Health Center

Description:

Design, permit and construct an addition to the existing veterinary facility at the Reid Park Zoo.

Justification:

This project is necessary as the existing 40-year old facility is extremely dated and is no longer large enough to accommodate the zoo's current collection of animals. The facility is also needed to help meet the standards set by the Association of Zoos and Aquariums.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: R994
Start Date: 7/14
End Date: 6/19
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Civic Contributions Fund	4,416.3	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	4,466.3
Total	4,416.3	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	4,466.3

Reid Park Zoo Meerkat Expansion

Description:

Design and construction of an expansion to the Reid Park Zoo's Meerkat exhibit to accommodate additional meerkats. The project is funded by donations.

Justification:

This project is funded by donations and will increase the livable area of the exhibit to accommodate additional meerkats.

City-Wide Priorities: Customer Service.

Project ID: RP26
Start Date: 7/18
End Date: 6/19
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Civic Contributions Fund	0.0	0.0	75.0	75.0	0.0	0.0	0.0	0.0	75.0	0.0	75.0
Total	0.0	0.0	75.0	75.0	0.0	0.0	0.0	0.0	75.0	0.0	75.0

Reid Park Zoo Quality of Life Tax

Description:

Design and construction of the capital projects at the Reid Park Zoo to include the Temple of Monkeys exhibit. This project is funded by the voter-approved Quality of Life sales tax initiative.

Justification:

Capital reinvestment at the Reid Park Zoo as park of the voter-approved Quality of Life Sales Tax. First project will be the Temple of Monkeys exhibit.

City-Wide Priorities: Customer Service, Maintenance and Renovation of Existing City Assets.

Project ID: RP27
Start Date: 7/18
End Date: 6/28
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Gene Reid Park Zoo Capital Improvement Fund	0.0	0.0	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	35,000.5	0.0	35,000.5
Total	0.0	0.0	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	7,000.1	35,000.5	0.0	35,000.5

Shade Structure Projects

Description:

Design and construct new shade structures within the City of Tucson parks system. Budget included for capacity purpose should funding become available.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: R112
Start Date: 7/12
End Date: 6/23
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Civic Contributions Fund	64.8	25.0	25.0	50.0	25.0	25.0	25.0	25.0	150.0	0.0	214.8
Miscellaneous Non-Federal Grants	49.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	49.3
Total	114.1	25.0	25.0	50.0	25.0	25.0	25.0	25.0	150.0	0.0	264.1

Silverlake Park Improvements

Description:

Design and construct new park amenities to include new lighting system within park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: R119
Start Date: 7/18
End Date: 6/19
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Central District Impact Fees	265.0	27.5	0.0	27.5	0.0	0.0	0.0	0.0	27.5	0.0	292.5
Total:	265.0	27.5	0.0	27.5	0.0	0.0	0.0	0.0	27.5	0.0	292.5

South Central Community Park/ Robert A. Price, Sr. Park, Phase I

Description:

Plan, design, and construct the initial development of a new community park along the Valencia Road Corridor. This project is part of a multiphase development. Future phases are contingent upon future bonds or other revenues. This park has been renamed Robert A. Price, Sr. Park.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: RM11
Start Date: 7/07
End Date: 6/20
Location: Wards 4 and 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Road & Park Impact Fee Fund: East District	24.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.4
Road & Park Impact Fee Fund: Southeast District	1.6	88.3	0.0	88.3	1.6	0.0	0.0	0.0	89.9	0.0	91.5
Southeast District Impact Fees	0.0	109.1	0.0	109.1	133.2	134.7	0.0	0.0	377.0	0.0	377.0
Total	26.0	197.4	0.0	197.4	134.8	134.7	0.0	0.0	466.9	0.0	492.9

Valencia Corridor Land Acquisition, Phase I

Description:

Acquire land identified in the Valencia Corridor Parks and Recreation Facilities Plan. This project is part of a multi-phase development. Future acquisitions are contingent upon future revenues.

Justification:

This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development.

City-Wide Priorities: Customer Service.

Project ID: RM13
Start Date: 7/07
End Date: 6/23
Location: Wards 4 and 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Road & Park Impact Fee Fund: Southlands District	2.1	0.0	300.0	300.0	300.0	300.0	300.0	309.5	1,509.5	0.0	1,511.6
Southlands District Impact Fees	0.0	101.0	0.0	101.0	0.0	0.0	0.0	0.0	101.0	0.0	101.0
Total	2.1	101.0	300.0	401.0	300.0	300.0	300.0	309.5	1,610.5	0.0	1,612.6

Transportation



Capital Improvement Program Department Statement

FY 2018/19 through 2022/23

Department: Transportation

Five-Year Total: \$506,108,500

Transportation's CIP of \$506.1 million funds improvements for a multi-modal transportation system and infrastructure designed to attract industry and protect neighborhoods. The program is divided into four areas: Public Transit, Streets, Street Lighting, and Traffic Signals.

Public Transit: The Public Transit Program of \$71.8 million replaces and upgrades Sun Tran and Sun Van fleet vehicles and constructs facilities to support transit operations, including Park-and-Ride facilities, Americans with Disabilities Act (ADA) access improvements, security improvements, and the Regional Seamless Fare system. Projects are primarily funded with federal grants, General Fund and RTA funds.

Streets: The Streets Program of \$432.8 million will upgrade the arterial, collector, and residential transportation network, including streets, sidewalks, and bikeways, with the primary goal of maintaining an arterial street system that permits a safe and unimpeded flow of traffic. The program is funded primarily with Regional Transportation Authority funds and general obligation street bonds. Other funding sources include capital agreement funds, federal highway grants, impact fees, Pima County bonds, and Highway User Revenue Fund (HURF) revenues.

Street Lighting: The Street Lighting Program of \$47,800 will convert the current lighting with light emitting diode (LED) technology which will save energy usage by 31% to 51% and install new solar lighting in areas of the City. This project will be funded by Pima County Bonds.

Traffic Signals: The Traffic Signals Program of \$1.5 million constructs traffic signals, improvements to the Intelligent Transportation System, pedestrian crossing improvements, signal upgrades, and the Regional Transportation Data Network (RTDN). Projects are primarily funded with federal grants, Highway User Revenue Fund and RTA funds.

Transportation

(\$000)

22nd and Belvedere High-intensity Activated Cross Walk (HAWK)										Project ID: SH33 Start Date: 1/17 End Date: 6/20 Location: Ward 6	
Description:											
Construct a bicycle High-intensity Activated Cross Walk (HAWK) signal at the intersection of 22nd Street and Belvedere Road.											
Justification:											
This project will improve pedestrian safety.											
City-Wide Priorities: Health & Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	0.0	0.0	0.0	0.0	250.0	0.0	0.0	0.0	250.0	0.0	250.0
Regional Transportation Authority Fund	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.3
Total	19.3	0.0	0.0	0.0	250.0	0.0	0.0	0.0	250.0	0.0	269.3

22nd St & Osborne High-intensity Activated Cross Walk (HAWK)										Project ID: SH34 Start Date: 1/18 End Date: 6/19 Location: Ward 5	
Description:											
Construct a HAWK pedestrian signal at the intersection of 22nd Street and Osborne Avenue.											
Justification:											
This project will improve pedestrian safety.											
City-Wide Priorities: Health & Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0

22nd Street: I-10 to Tucson Boulevard

Description:

This project includes widening 22nd Street to a six-lane, divided roadway with full urban amenities. Road improvements along the 22nd Street corridor are phased. Phase I, Kino Overpass, is complete. Construction of Phase II, Kino to Tucson Boulevard, begins July 2019 with anticipated completion in Fiscal Year 2022. The alignment of Phase III, I-10 to Kino, will be approved by Mayor and Council.

Project ID: SR5A
Start Date: 7/07
End Date: 6/22
Location: Wards 1 and 5

Justification:

This project was approved by Mayor and Council on December 5, 2006 for RTA funding to enhance the carrying capacity of the corridor. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 131.00.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: PAG	0.0	0.0	0.0	0.0	0.0	2,500.0	6,332.0	0.0	8,832.0	0.0	8,832.0
Capital Agreement Fund: Pima County Bonds	0.0	0.0	0.0	0.0	4,605.9	4,605.8	0.0	0.0	9,211.7	0.0	9,211.7
General Fund: Restricted	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.7
Highway User Revenue Fund	31.3	5.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0	36.3
Regional Transportation Authority Fund	45,119.3	0.0	0.0	0.0	12,900.0	11,900.0	8,065.0	0.0	32,865.0	0.0	77,984.3
Road & Park Impact Fee Fund: Central District	1,710.7	22.0	100.0	122.0	1,230.5	0.0	0.0	0.0	1,352.5	0.0	3,063.2
Total	46,866.0	27.0	100.0	127.0	18,736.4	19,005.8	14,397.0	0.0	52,266.2	0.0	99,132.2

ADA Connectivity

Description:

Based on recommendations from the Americans with Disabilities Act Transition Plan, construction of new ADA-compliant sidewalks and ramps along the west side of Stone Avenue between Grant Road and Ft. Lowell Road. The project also includes new ADA-compliant bus stop pads where needed.

Justification:

Federal Transit Administration (FTA) funds will be used for this project by way of a grant agreement between the City of Tucson and FTA by March 2018. These funds are matched with 20% local funds using the Highway User Revenue Fund.

City-Wide Priorities: Health and Safety.

Project ID: M101
Start Date: 7/18
End Date: 6/19
Location: Wards 1, 3 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	0.0	0.0	193.8	193.8	0.0	0.0	0.0	0.0	193.8	0.0	193.8
Mass Transit Fund: Federal Grant	0.0	0.0	775.0	775.0	0.0	0.0	0.0	0.0	775.0	0.0	775.0
Total	0.0	0.0	968.8	968.8	0.0	0.0	0.0	0.0	968.8	0.0	968.8

ADA Sidewalks

Description:

To support rehabilitation and repaving of Stone Avenue, construction of new ADA-compliant sidewalks and ramps along the east side of Stone Avenue between Grant Road and Ft. Lowell Road. The project also includes new ADA-compliant bus stop pads where needed.

Justification:

Federal Transit Administration (FTA) funds will be used for this project by way of a grant agreement between the City of Tucson and FTA by March 2018. These funds are matched with 20% local funds using the Highway User Revenue Fund.

City-Wide Priorities: Maintenance and Renovation of existing City Assets.

Project ID: M102
Start Date: 7/18
End Date: 6/19
Location: Wards 1, 3 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	0.0	0.0	193.8	193.8	0.0	0.0	0.0	0.0	193.8	0.0	193.8
Mass Transit Fund: Federal Grant	0.0	0.0	775.0	775.0	0.0	0.0	0.0	0.0	775.0	0.0	775.0
Total	0.0	0.0	968.8	968.8	0.0	0.0	0.0	0.0	968.8	0.0	968.8

ADA Transition Plan

Description:

Complete the data analysis, purchase and installation of a one terabyte server to establish a baseline inventory of facilities within the right-of-way to prioritize needed Americans with Disabilities Act (ADA) improvements.

Project ID: S112
Start Date: 7/12
End Date: 6/19
Location: Ward 6

Justification:

This plan is required by federal law.
 Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 27.11.

City-Wide Priorities: Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	1,992.1	87.2	2.0	89.2	0.0	0.0	0.0	0.0	89.2	0.0	2,081.3
Highway User Revenue Fund	125.2	5.3	0.1	5.4	0.0	0.0	0.0	0.0	5.4	0.0	130.6
Total	2,117.3	92.5	2.1	94.6	0.0	0.0	0.0	0.0	94.6	0.0	2,211.9

Arcadia and Timrod Bike Boulevards

Description:

Installation of 2 bike High Intensity Activated Crosswalk (HAWKS), upgrade of 5 pedestrian HAWKS and installation of 30 speed humps and chicanes.

Project ID: SA12
Start Date: 9/16
End Date: 6/19
Location: Ward 6

Justification:

This project improves safety for pedestrians and bicyclists.

City-Wide Priorities: Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	71.2	10.0	1,120.0	1,130.0	0.0	0.0	0.0	0.0	1,130.0	0.0	1,201.2
Highway User Revenue Fund	6.6	0.0	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	10.6
Regional Transportation Authority Fund	0.0	0.0	64.0	64.0	0.0	0.0	0.0	0.0	64.0	0.0	64.0
Total	77.8	10.0	1,188.0	1,198.0	0.0	0.0	0.0	0.0	1,198.0	0.0	1,275.8

Arroyo Chico Greenway										Project ID: SP09	
Description:										Start Date: 7/13	
This project will construct a High Intensity Activated Crosswalk (HAWK) at Country Club and Camino Campestre. The design is complete.										End Date: 6/19	
Justification:										Location: Wards 5 and 6	
Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 76.12.											
City-Wide Priorities: Health and Safety.											

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Regional Transportation Authority Fund	101.4	500.0	0.0	500.0	0.0	0.0	0.0	0.0	500.0	0.0	601.4
Total	101.4	500.0	0.0	500.0	0.0	0.0	0.0	0.0	500.0	0.0	601.4

Associated Transit Improvements										Project ID: M190	
Description:										Start Date: Annual	
Design and construct various transit improvements that are designed to enhance public transportation services. This is an annual project for the required 1% of Federal 5307 awards received by the city.										End Date: Annual	
Justification:										Location: Citywide	
Eligible improvements include bus shelters, bus benches, street lights, pedestrian access and walkways, bicycle access including bicycle storage and bicycle racks for buses, signage or enhanced access for persons with disabilities to public transportation.											
City-Wide Priorities: Customer Service and Health and Safety.											

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: Federal Grant	0.0	0.0	141.6	141.6	141.6	141.6	141.6	141.6	708.0	0.0	708.0
Mass Transit Fund: General Fund	0.0	5.0	35.4	40.4	35.4	35.4	35.4	35.4	182.0	0.0	182.0
Total	0.0	5.0	177.0	182.0	177.0	177.0	177.0	177.0	890.0	0.0	890.0

Broadway: Camino Seco to Houghton

Description:

Complete the construction of road improvements on Broadway Boulevard from Camino Seco to Houghton. Improvements include road widening to a four-lane, divided roadway with bike lanes and sidewalks. The design is 100% complete.

Justification:

This project was approved as part of the May 2006 RTA Plan and will improve the traffic-carrying capacity for Broadway Boulevard. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 36.00.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: SR10
Start Date: 7/14
End Date: 6/20
Location: Ward 2

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: PAG	1,434.5	1,227.5	1,442.0	2,669.5	3,500.0	0.0	0.0	0.0	6,169.5	0.0	7,604.0
Highway User Revenue Fund	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
Regional Transportation Authority Fund	1,819.1	1,137.0	5,556.0	6,693.0	0.0	0.0	0.0	0.0	6,693.0	0.0	8,512.1
Road & Park Impact Fee Fund: East District	0.0	773.5	2,226.7	3,000.2	0.0	0.0	0.0	0.0	3,000.2	0.0	3,000.2
Total	3,255.8	3,138.0	9,224.7	12,362.7	3,500.0	0.0	0.0	0.0	15,862.7	0.0	19,118.5

Broadway: Euclid to Country Club

Description:

Design and reconstruct Broadway Boulevard between Euclid to Country Club from four lanes to six lanes, including bus pull-outs.

Justification:

This project was approved by Mayor and Council on January 23, 2007 for RTA funding, and will enhance the carrying capacity of the corridor. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 22.05.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: SR3A
Start Date: 1/07
End Date: 6/21
Location: Wards 5 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: PAG	0.0	0.0	0.0	0.0	7,323.0	0.0	0.0	0.0	7,323.0	0.0	7,323.0
Capital Agreement Fund: Pima County Bonds	12,221.0	0.0	12,000.0	12,000.0	7,305.6	0.0	0.0	0.0	19,305.6	0.0	31,526.6
Highway User Revenue Fund	24.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24.5
Highway User Revenue Fund: In-Lieu Fees	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.2
Regional Transportation Authority Fund	20,910.9	7,810.0	50.0	7,860.0	7,727.0	4,687.0	0.0	0.0	20,274.0	0.0	41,184.9
Road & Park Impact Fee Fund: Central District	1,502.0	50.0	600.0	650.0	0.0	1,000.0	0.0	0.0	1,650.0		3,152.0
Total	34,702.6	7,860.0	12,650.0	20,510.0	22,355.6	5,687.0	0.0	0.0	48,552.6	0.0	83,255.2

Congress Grande Intersection Improvements

Description:

Reconstruct intersection at Congress and Grande to replace outdated traffic signals and improve traffic flow.

Justification:

This project will improve the traffic congestion at the intersection.

City-Wide Priorities: Customer Service and Health and Safety.

Project ID: SA22
Start Date: 1/17
End Date: 6/21
Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Central District Impact Fees	0.0	0.0	35.0	35.0	100.0	400.0	0.0	0.0	535.0	0.0	535.0
West District Impact Fees	40.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.0
Total	40.0	0.0	35.0	35.0	100.0	400.0	0.0	0.0	535.0	0.0	575.0

Copper Street Bike Boulevard

Description:

Reconstruct bicycle improvements along the Copper Street alignment, paralleling the Grant Road corridor. This will provide a low-stress bicycling alternative to Grant Road.

Justification:

This project was approved for RTA funds in December 2012.

Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 77.12.

City-Wide Priorities: Health and Safety.

Project ID: SP10
Start Date: 7/13
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Regional Transportation Authority Fund	113.7	388.0	0.0	388.0	0.0	0.0	0.0	0.0	388.0	0.0	501.7
Total	114.4	388.0	0.0	388.0	0.0	0.0	0.0	0.0	388.0	0.0	502.4

Country Glenn Neighborhood Improvements

Description:

Installation of 7 solar lights, traffic mitigation (speed humps & chicanes), sidewalk improvements and landscaping.

Justification:

Country Glenn neighborhood enhancements.

City-Wide Priorities: Health and Safety.

Project ID: S161
Start Date: 12/16
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	141.3	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	191.3
Total	141.3	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	191.3

Downtown Links Barraza-Aviation

Description:

Complete the construction of a four-lane roadway from 6th Street to Broadway Boulevard east of the railroad tracks.

Justification:

These improvements will support downtown revitalization, improve traffic flow, and support the Barraza-Aviation Parkway. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 81.04.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: S30N
Start Date: 7/06
End Date: 6/20
Location: Wards 1 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	425.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	425.7
Capital Agreement Fund: PAG	6,695.5	1,762.0	9,340.0	11,102.0	6,000.0	0.0	0.0	0.0	17,102.0	0.0	23,797.5
Federal Highway Administration Grants	163.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	163.0
General Fund	20.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.4
General Fund: Restricted	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
General Fund: Restricted Revenues	174.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	174.5
Highway User Revenue Fund	353.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	353.0
Regional Transportation Authority Fund	44,581.7	0.0	18,800.0	18,800.0	15,050.0	0.0	0.0	0.0	33,850.0	0.0	78,431.7
Total	52,416.1	1,762.0	28,140.0	29,902.0	21,050.0	0.0	0.0	0.0	50,952.0	0.0	103,368.1

El Paso and Southwestern Greenway

Description:

Complete a multi-use recreational greenway along the former El Paso and Southwestern Railroad tracks. Improvements will include a dual path system, landscaping, pedestrian-level lighting, and enhanced crossings at major streets.

Justification:

This project is intended to promote the use of alternative modes of transportation.
Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 72.07 and 83.07.

City-Wide Priorities: Health and Safety.

Project ID: SP01
Start Date: 7/08
End Date: 9/20
Location: Wards 1 and 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	0.0	0.0	700.0	700.0	58.0	0.0	0.0	0.0	758.0	0.0	758.0
Highway User Revenue Fund	9.3	4.9	40.0	44.9	3.3	0.0	0.0	0.0	48.2	0.0	57.5
Regional Transportation Authority Fund	1,993.8	178.8	13.0	191.8	0.0	0.0	0.0	0.0	191.8	0.0	2,185.6
Total	2,003.1	183.7	753.0	936.7	61.3	0.0	0.0	0.0	998.0	0.0	3,001.1

Elvira Solar Street Lighting

Description:

Complete the installation of 8 solar lights on Arcadia Drive between Santa Clara and 12th Avenue.

Justification:

This project is funded by Pima County bonds and will revitalizate the Elvira Neighborhood.

City-Wide Priorities: Health and Safety.

Project ID: S231
Start Date: 9/16
End Date: 6/19
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	45.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	47.0
Total	45.0	0.0	2.0	2.0	0.0	0.0	0.0	0.0	2.0	0.0	47.0

First Avenue: Grant to River

Description:

Design and construct the widening of First Avenue to a six-lane, divided roadway with bike lanes and sidewalks.

Justification:

This project was approved as part of the May 2006 RTA Plan and will improve the traffic carrying capacity for First Avenue. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 81.06.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR11
Start Date: 7/15
End Date: 6/22
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: PAG	562.0	0.0	0.0	0.0	4,000.0	0.0	17,500.0	0.0	21,500.0	0.0	22,062.0
Regional Transportation Authority Fund	0.0	0.0	0.0	0.0	0.0	7,000.0	0.0	0.0	7,000.0	0.0	7,000.0
Road & Park Impact Fee Fund: Central District	0.0	0.0	150.0	150.0	0.0	2,900.0	0.0	0.0	3,050.0	0.0	3,050.0
Total	562.0	0.0	150.0	150.0	4,000.0	9,900.0	17,500.0	0.0	31,550.0	0.0	32,112.0

Five Points Pedestrian Improvements

Description:

Complete pedestrian and streetscape improvements in the vicinity of the Stone Avenue/6th Avenue/18th Street intersection.

Justification:

A Federal Transportation Enhancement grant was awarded for this project.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: S355
Start Date: 7/09
End Date: 6/19
Location: Wards 5 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3
Capital Agreement Fund: Pima County Bonds	337.4	0.0	44.0	44.0	0.0	0.0	0.0	0.0	44.0	0.0	381.4
Capital Agreement Fund: Pima County Contribution	0.0	0.0	499.3	499.3	0.0	0.0	0.0	0.0	499.3	0.0	499.3
Federal Highway Administration Grants	843.2	12.5	0.0	12.5	0.0	0.0	0.0	0.0	12.5	0.0	855.7
Highway User Revenue Fund	57.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5
Regional Transportation Authority Fund	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0
Total	1,265.4	12.5	543.3	555.8	0.0	0.0	0.0	0.0	555.8	0.0	1,821.2

Five Points Transportation Enhancement

Description:

Design and construct an artistic gateway feature in the vicinity of the Stone Ave/6th Ave/18th St Intersection.

Justification:

A federal transportation enhancement grant was awarded for this project.

City-Wide Priorities: Economic Development.

Project ID: S196
Start Date: 7/08
End Date: 6/19
Location: Wards 5 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	10.1	290.0	0.0	290.0	0.0	0.0	0.0	0.0	290.0	0.0	300.1
Federal Highway Administration Grants	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0
Highway User Revenue Fund	35.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.5
Regional Transportation Authority Fund	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Total	67.1	290.0	0.0	290.0	0.0	0.0	0.0	0.0	290.0	0.0	357.1

Glenn Street Transportation Enhancement

Description:

Design and construct pedestrian improvements along Glenn Street from Columbus Boulevard to Country Club Road.

Justification:

A federal transportation enhancement grant was received to provide a major portion of the funding for these improvements. Regional Transportation Authority funding is being used as a local match and for expenditures not covered by the grant.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: S01H
Start Date: 7/10
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	359.4	658.0	400.0	1,058.0	0.0	0.0	0.0	0.0	1,058.0	0.0	1,417.4
Highway User Revenue Fund	3.3	0.0	46.7	46.7	0.0	0.0	0.0	0.0	46.7	0.0	50.0
Regional Transportation Authority Fund	124.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.9
Total	487.6	658.0	446.7	1,104.7	0.0	0.0	0.0	0.0	1,104.7	0.0	1,592.3

Grant and Arcadia High-Intensity Activated Cross Walk (HAWK)

Description:

Construct a High-Intensity Activated Cross Walk (HAWK) signal at the intersection of Grant Road and Arcadia Avenue.

Justification:

This project will improve pedestrian safety.

City-Wide Priorities: Health and Safety.

Project ID: SH31
Start Date: 7/20
End Date: 6/21
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Regional Transportation Authority Fund	0.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0	200.0	0.0	200.0
Total	0.0	0.0	0.0	0.0	0.0	200.0	0.0	0.0	200.0	0.0	200.0

Grant: Oracle to Swan**Description:**

Design and construct the improvements along Grant Road from Oracle Road to Swan Road. The phased improvements will include widening Grant Road to a six-lane, divided cross section with full urban amenities and will include the alignment approved by the Mayor and Council.

Justification:

This project was approved by Mayor and Council on January 23, 2007 for Regional Transportation Authority funding and it will improve the corridor's traffic-carrying capacity.

Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 55.06.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: SR2A
Start Date: 1/07
End Date: 6/26
Location: Wards 2, 3, and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	3,341.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3,341.0
Capital Agreement Fund: PAG	3,916.2	809.8	300.0	1,109.8	4,000.0	20,000.0	10,000.0	0.0	35,109.8	0.0	39,026.0
Highway User Revenue Fund	77.6	4.6	0.0	4.6	0.0	0.0	0.0	0.0	4.6	0.0	82.2
Highway User Revenue Fund: In-Lieu Fees	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Regional Transportation Authority Fund	62,568.2	8,811.0	2,000.0	10,811.0	6,000.0	0.0	0.0	20,000.0	36,811.0	61,471.0	160,850.2
Road & Park Impact Fee Fund: Central District	3,620.4	0.0	1,100.0	1,100.0	0.0	0.0	0.0	0.0	1,100.0	0.0	4,720.4
Total	73,523.5	9,625.4	3,400.0	13,025.4	10,000.0	20,000.0	10,000.0	20,000.0	73,025.4	61,471.0	208,019.9

Houghton Road: Tanque Verde to Fifth Street**Description:**

Study alternative roadway improvements for Regional Transportation Authority's Houghton Roadway Corridor Plan.

Justification:

Investigate alternative roadway cross-sections that will be compatible with Regional Transportation Authority's Houghton Road Corridor Plan.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: SA23
Start Date: 7/18
End Date: 6/19
Location: Ward 2

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
East District Impact Fees	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	0.0	50.0	0.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0

Houghton Road: Wildlife Crossing										Project ID: SR1W	
Description:										Start Date: 7/15	
Mitigate bats under the bridge prior to the demolition and replacement of the bridge.										End Date: 6/19	
Justification:										Location: Ward 4	
Remove bats from the existing bridge prior to demolition, test various types of bat boxes, provide new bat boxes on the new bridge, and analyze the data for future use.											
City-Wide Priorities: Health and Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Regional Transportation Authority Fund	84.8	0.5	2.8	3.3	0.0	0.0	0.0	0.0	3.3	0.0	88.1
Total	84.8	0.5	2.8	3.3	0.0	0.0	0.0	0.0	3.3	0.0	88.1

Houghton Road: 22nd to Irvington										Project ID: SR1J	
Description:										Start Date: 7/15	
Design and construct the widening of Houghton Road from 22nd Street to Irvington, to a six-lane, divided arterial in accordance with the Regional Transportation Authority plans. TIP #16.15										End Date: 6/23	
Justification:										Location: Ward 4	
This project will increase the traffic capacity to reduce roadway congestion and improve safety on this stretch of Houghton Road.											
City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	43.8	0.0	0.0	0.0	1,945.8	0.0	3,000.0	94.6	5,040.4	0.0	5,084.2
Capital Agreement Fund: Pima County Contribution	0.0	70.9	283.4	354.3	213.0	0.0	0.0	0.0	567.3	0.0	567.3
Regional Transportation Authority Fund	930.2	1,449.9	0.0	1,449.9	0.0	2,500.0	9,000.0	11,000.0	23,949.9	0.0	24,880.1
Road & Park Impact Fee Fund: East District	729.2	137.0	5.0	142.0	0.0	0.0	0.0	0.0	142.0	0.0	871.2
Southeast District Impact Fees	380.9	0.8	0.0	0.8	0.0	0.0	0.0	0.0	0.8	0.0	381.7
Total	2,084.1	1,658.6	288.4	1,947.0	2,158.8	2,500.0	12,000.0	11,094.6	29,700.4	0.0	31,784.5

Houghton Road: Bridge Replacement

Description:

Complete the replacement of the Houghton Bridge over the Union Pacific Railroad tracks with a widened structure. TIP #61.07

Justification:

This project will increase the traffic-carrying capacity of the bridge and reduce roadway congestion to improve motorist safety on this stretch of Houghton Road.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR1D
Start Date: 7/09
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	402.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	402.8
Capital Agreement Fund: Pima County Bonds	1,490.9	353.5	1,746.5	2,100.0	0.0	0.0	0.0	0.0	2,100.0	0.0	3,590.9
Capital Agreement Fund: Pima County Contribution	0.0	70.9	0.0	70.9	2,300.0	0.0	0.0	0.0	2,370.9	0.0	2,370.9
Federal Highway Administration Grants	12,523.0	562.0	-15.0	547.0	0.0	0.0	0.0	0.0	547.0	0.0	13,070.0
Highway User Revenue Fund	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.2
Regional Transportation Authority Fund	1,025.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,025.6
Total	15,448.5	986.4	1,731.5	2,717.9	2,300.0	0.0	0.0	0.0	5,017.9	0.0	20,466.4

Houghton Road: Broadway to 22nd Street

Description:

Complete the improvements to Houghton Road between Broadway Boulevard and 22nd Street, in accordance with the Regional Transportation Authority plan.

Justification:

Funding has been identified through the Regional Transportation Authority and impact fees.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR1F
Start Date: 7/12
End Date: 6/19
Location: Ward 2

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	77.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.9
East District Impact Fees	4,431.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,431.4
General Fund: Restricted	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	105.0
Highway User Revenue Fund	21.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21.7
Regional Transportation Authority Fund	27,668.7	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	27,768.7
Road & Park Impact Fee Fund: East District	498.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	498.0
Total	32,802.7	100.0	0.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	32,902.7

Houghton Road: I-10 to Andrada Road

Description:

Overseeing Pima County Department of Transportation who is completing road improvements along Houghton Road south of I-10 to Andrada Road.

Justification:

Spot improvements addressed in collaboration with Pima County Department of Transportation.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR17
Start Date: 7/16
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Southlands District Impact Fees	60.0	0.0	600.0	600.0	0.0	0.0	0.0	0.0	600.0	0.0	660.0
Total	60.0	0.0	600.0	600.0	0.0	0.0	0.0	0.0	600.0	0.0	660.0

Houghton Road: Union Pacific Railroad to I-10

Description:

Complete the widening of Houghton Road to a six-lane, divided arterial in accordance with the Regional Transportation Authority plan and Pima County impact fees.

Justification:

The funding has been identified through the Regional Transportation Authority.
Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 108.09.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR1G
Start Date: 7/11
End Date: 6/21
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: PAG	0.0	0.0	0.0	0.0	150.0	100.0	0.0	0.0	250.0	0.0	250.0
Capital Agreement Fund: Pima County Bonds	477.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	477.9
Capital Agreement Fund: Pima County Contribution	0.2	141.7	2,658.8	2,800.5	0.0	0.0	0.0	0.0	2,800.5	0.0	2,800.7
Federal Highway Administration Grants	594.1	1,017.6	4,615.0	5,632.6	0.0	0.0	0.0	0.0	5,632.6	0.0	6,226.7
Highway User Revenue Fund	10.9	1.8	0.0	1.8	0.0	0.0	0.0	0.0	1.8	0.0	12.7
Regional Transportation Authority Fund	795.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	795.6
Total	1,878.7	1,161.1	7,273.8	8,434.9	150.0	100.0	0.0	0.0	8,684.9	0.0	10,563.6

Houghton Road: Valencia to Mary Ann Cleveland Way

Description:

Design and construct capacity improvements to Valencia Road in accordance with the Regional Transportation Authority Plan.

Justification:

Funding has been identified through the Regional Transportation Authority.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR1H
Start Date: 7/15
End Date: 6/22
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	43.8	0.0	0.0	0.0	0.0	3,000.0	2,128.3	0.0	5,128.3	0.0	5,172.1
Capital Agreement Fund: Pima County Contribution	0.0	70.9	283.4	354.3	213.0	0.0	0.0	0.0	567.3	0.0	567.3
Regional Transportation Authority Fund	1,400.1	200.0	0.0	200.0	450.0	7,413.0	2,000.0	0.0	10,063.0	0.0	11,463.1
Road & Park Impact Fee Fund: Southeast District	54.7	0.3	3,499.7	3,500.0	0.0	0.0	0.0	0.0	3,500.0	0.0	3,554.7
Total	1,498.6	271.2	3,783.1	4,054.3	663.0	10,413.0	4,128.3	0.0	19,258.6	0.0	20,757.2

Kolb Road Connection to Sabino Canyon

Description:

Complete the landscape establishment component of the new road stretching from the intersection of Sabino Canyon and Tanque Verde to just north of the intersection at Kolb Road and Speedway Boulevard.

Justification:

This project was approved as part of the May 2006 Regional Transportation Authority Plan and will improve regional traffic circulation. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 787.00.

City-Wide Priorities: Economic Development.

Project ID: SR8A
Start Date: 7/09
End Date: 6/20
Location: Ward 2

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	795.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	795.8
Capital Agreement Fund: PAG	2,033.6	5.0	0.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0	2,038.6
General Fund: Restricted Revenues	193.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.8
Highway User Revenue Fund	30.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.8
Regional Transportation Authority Fund	19,398.8	0.0	500.0	500.0	100.0	0.0	0.0	0.0	600.0	0.0	19,998.8
Total	22,452.8	5.0	500.0	505.0	100.0	0.0	0.0	0.0	605.0	0.0	23,057.8

Kolb Road: Irvington to Valencia

Description:

Complete the widening of Kolb Road to six lanes between Irvington Road and Valencia Road.

Justification:

Federal Highway Association funds have been allocated to this project through the PAG TIP#83.04.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: SR15
Start Date: 1/15
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	226.2	55.0	0.0	55.0	0.0	0.0	0.0	0.0	55.0	0.0	281.2
Highway User Revenue Fund	18.0	13.0	0.0	13.0	0.0	0.0	0.0	0.0	13.0	0.0	31.0
Total	244.2	68.0	0.0	68.0	0.0	0.0	0.0	0.0	68.0	0.0	312.2

Liberty Avenue: Bicycle Boulevard**Description:**

Design and construct bicycle improvements along the Liberty Avenue alignment.

Justification:

Bicycle boulevards enhance safety and convenience for commuter bicyclists and encourage the use of alternate modes of transportation.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID:	SP04
Start Date:	7/10
End Date:	6/19
Location:	Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	185.4	981.5	40.3	1,021.8	0.0	0.0	0.0	0.0	1,021.8	0.0	1,207.2
Highway User Revenue Fund	9.5	0.0	1.2	1.2	0.0	0.0	0.0	0.0	1.2	0.0	10.7
Regional Transportation Authority Fund	88.4	23.0	0.0	23.0	0.0	0.0	0.0	0.0	23.0	0.0	111.4
Total	283.3	1,004.5	41.5	1,046.0	0.0	0.0	0.0	0.0	1,046.0	0.0	1,329.3

Mary Ann Cleveland Way - Atterbury Wash Way**Description:**

Construct a roundabout at Mary Ann Cleveland Way and Atterbury Wash Way to alleviate traffic congestion.

Justification:

Alleviate traffic congestion.

City-Wide Priorities: Health and Safety.

Project ID:	SA24
Start Date:	1/17
End Date:	6/19
Location:	Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	248.6	0.0	250.0	250.0	0.0	0.0	0.0	0.0	250.0	0.0	498.6
Total	248.6	0.0	250.0	250.0	0.0	0.0	0.0	0.0	250.0	0.0	498.6

<p>Midvale Park Oak Tree Drive Lighting</p> <p>Description: Complete the installation of 14 street lights along Oak Tree Drive between Chardonday and Valencia Road.</p> <p>Justification: This project will improve street lighting in the Midvale Neighborhood.</p> <p>City-Wide Priorities: Health and Safety.</p>	<p>Project ID: S232 Start Date: 9/16 End Date: 6/19 Location: Ward 1</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	91.2	15.9	29.9	45.8	0.0	0.0	0.0	0.0	45.8	0.0	137.0
Total	91.2	15.9	29.9	45.8	0.0	0.0	0.0	0.0	45.8	0.0	137.0

<p>Pima Street: Pedestrian Pathway Enhancements</p> <p>Description: Design and construct pedestrian improvements along Pima Street between Alvernon Way and Columbus Boulevard.</p> <p>Justification: The improvements will improve pedestrian safety and enjoyment.</p> <p>City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.</p>	<p>Project ID: S01J Start Date: 7/10 End Date: 6/19 Location: Ward 6</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	483.3	20.7	40.9	61.6	0.0	0.0	0.0	0.0	61.6	0.0	544.9
Highway User Revenue Fund	106.8	0.1	2.4	2.5	0.0	0.0	0.0	0.0	2.5	0.0	109.3
Total	590.1	20.8	43.3	64.1	0.0	0.0	0.0	0.0	64.1	0.0	654.2

Regional Transportation Data Network (RTDN)

Description:

Complete the construction of a regionally integrated data and communications network, the Regional Transportation Data Network (RTDN). This project will determine the new infrastructure needed to improve region-wide data exchange.

Justification:

Establishment of the Regional Transportation Data Network will facilitate the exchange of data and information between jurisdictions and improve traffic flow.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: S701
Start Date: 7/06
End Date: 6/19
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	2,562.5	51.0	433.0	484.0	0.0	0.0	0.0	0.0	484.0	0.0	3,046.5
Highway User Revenue Fund	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0
Regional Transportation Authority Fund	0.0	137.9	0.0	137.9	0.0	0.0	0.0	0.0	137.9	0.0	137.9
Total	2,576.5	188.9	433.0	621.9	0.0	0.0	0.0	0.0	621.9	0.0	3,198.4

Rio Vista Safe Routes to School

Description:

Design and construct pedestrian improvements near Rio Vista Elementary School including a shared-use path on Limberlost Road.

Justification:

A federal Safe Routes to School Grant has been received to fund these improvements, which will enhance pedestrian safety. PAG 5-Year Regional TIP 19.11.

City-Wide Priorities: Customer Service, Health and Safety, and Maintenance and Renovation of Existing City Assets.

Project ID: SP06
Start Date: 7/12
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	285.4	0.0	497.0	497.0	0.0	0.0	0.0	0.0	497.0	0.0	782.4
Highway User Revenue Fund	14.3	0.0	28.2	28.2	0.0	0.0	0.0	0.0	28.2	0.0	42.5
Regional Transportation Authority Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Total	299.7	0.0	540.2	540.2	0.0	0.0	0.0	0.0	540.2	0.0	839.9

Robinson Safe Routes to School

Description:

Complete the design and construct sidewalks and safe pedestrian crossings in the vicinity of Robinson Elementary School to encourage walking and biking activities.

Justification:

The city received a federal grant for these improvements.

City-Wide Priorities: Health and Safety.

Project ID: SP08
Start Date: 7/13
End Date: 6/19
Location: Wards 5 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	278.5	0.0	552.0	552.0	0.0	0.0	0.0	0.0	552.0	0.0	830.5
Highway User Revenue Fund	14.4	0.0	10.1	10.1	0.0	0.0	0.0	0.0	10.1	0.0	24.5
Regional Transportation Authority Fund	0.0	0.0	18.0	18.0	0.0	0.0	0.0	0.0	18.0	0.0	18.0
Total	292.9	0.0	580.1	580.1	0.0	0.0	0.0	0.0	580.1	0.0	873.0

Safe Routes to School Program

Description:

Develop a program that encourages and educates school-age children to walk and bike to school.

Justification:

Funding has been allocated by the Federal Highway Administration (FHWA) for this program.

City-Wide Priorities: Health and Safety.

Project ID: SP13
Start Date: 7/14
End Date: 6/20
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	448.4	103.0	0.0	103.0	122.0	0.0	0.0	0.0	225.0	0.0	673.4
Highway User Revenue Fund	35.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.3
Regional Transportation Authority Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total	483.7	103.0	0.0	103.0	122.0	0.0	0.0	0.0	225.0	0.0	708.7

Santa Cruz Southwest Neighborhood Association Park Improvements

Description:

This project will enhance the Santa Cruz Southwest Neighborhood Association's Cottonwood Lane Park to include walking pathways, installation of 7 solar lights, speed humps, chicanes and landscaping.

Justification:

This project will improve the neighborhood park.

City-Wide Priorities: Health and Safety.

Project ID: S162
Start Date: 9/16
End Date: 6/19
Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund: Pima County Bonds	247.0	33.0	12.8	45.8	0.0	0.0	0.0	0.0	45.8	0.0	292.8
Total	247.0	33.0	12.8	45.8	0.0	0.0	0.0	0.0	45.8	0.0	292.8

Security for Transit

Description:

This Federal Transit Administration (FTA) grant provides safety and security equipment for buses including partitions, closed-captioning televisions, security cameras, automatic vehicle locator systems, radio equipment and digital video recorders.

Justification:

To pursue innovative approaches to eliminate or mitigate safety hazards.

City-Wide Priorities: Health and Safety.

Project ID: M023
Start Date: Annual
End Date: Annual
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: Federal Grant	0.0	0.0	141.6	141.6	141.6	141.6	141.6	141.6	708.0	0.0	708.0
Mass Transit Fund: General Fund	0.0	0.0	35.4	35.4	35.4	35.4	35.4	35.4	177.0	0.0	177.0
Total	0.0	0.0	177.0	177.0	177.0	177.0	177.0	177.0	885.0	0.0	885.0

Silverbell Road: Grant to Ina**Description:**

Design and construct improvements to this segment of Silverbell Road by widening the street to a four-lane divided roadway from Grant Road to Ina Road.

Justification:

This project was approved as part of the May 2006 RTA Plan and will improve the traffic carrying capacity of Silverbell Road. PAG 5-Year Regional TIP# 56.06.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID:	SR6A
Start Date:	7/08
End Date:	6/22
Location:	City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	20.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.8
Capital Agreement Fund: PAG	2,627.8	3,189.2	9,000.0	12,189.2	0.0	260.0	0.0	0.0	12,449.2	0.0	15,077.0
Capital Agreement Fund: Pima County Bonds	0.0	2,026.7	0.0	2,026.7	0.0	0.0	0.0	0.0	2,026.7	0.0	2,026.7
Capital Agreement Fund: Pima County Contribution	0.0	0.0	6,400.0	6,400.0	0.0	0.0	0.0	0.0	6,400.0	0.0	6,400.0
Highway User Revenue Fund	17.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.1
Regional Transportation Authority Fund	13,160.3	18.0	0.0	18.0	0.0	3,160.0	0.0	0.0	3,178.0	0.0	16,338.3
Road & Park Impact Fee Fund: West District	2,298.3	1,973.5	0.0	1,973.5	0.0	0.0	0.0	0.0	1,973.5	0.0	4,271.8
West District Impact Fees	1,394.3	45.8	0.0	45.8	0.0	0.0	0.0	0.0	45.8	0.0	1,440.1
Total	19,518.6	7,253.2	15,400.0	22,653.2	0.0	3,420.0	0.0	0.0	26,073.2	0.0	45,591.8

Speedway and Richey High-intensity Activated Cross Walk (HAWK)

Description:

Construct a High-intensity Activated Cross Walk (HAWK) signal at the intersection of Speedway Boulevard and Richey Boulevard.

Justification:

This project will improve pedestrian safety.

City-Wide Priorities: Health & Safety.

Project ID: SH32
Start Date: 1/17
End Date: 6/20
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Regional Transportation Authority Fund	25.1	0.0	0.0	0.0	0.0	200.0	0.0	0.0	200.0	0.0	225.1
Total	25.1	0.0	0.0	0.0	0.0	200.0	0.0	0.0	200.0	0.0	225.1

Stone Avenue: Drachman and Speedway Improvements

Description:

Complete gateway and intersection improvements along Stone Avenue from Drachman to Speedway Boulevard.

Justification:

This improvement will enhance this northern gateway into downtown.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: S14W
Start Date: 7/00
End Date: 6/19
Location: Wards 1, 3, and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Capital Agreement Fund	237.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	237.5
Capital Agreement Fund: PAG	4,756.5	39.0	0.0	39.0	0.0	0.0	0.0	0.0	39.0	0.0	4,795.5
Highway User Revenue Fund	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Regional Transportation Authority Fund	4.9	248.2	201.5	449.7	0.0	0.0	0.0	0.0	449.7	0.0	454.6
Total	4,999.0	287.2	201.5	488.7	0.0	0.0	0.0	0.0	488.7	0.0	5,487.7

Street Improvements: Proposition 409

Description:

Complete the final efforts of the 5-year plan to restore, repair, and resurface streets inside Tucson City limits with the \$100 million bond program. This project resurfaced streets with approximately 85% of bond funds allocated to major streets and 15% allocated to neighborhood streets. All work was competitively bid out to private sector contractors. The budgeted cost include applicable premium and interest payments.

Justification:

Approximately 755 lane miles of major streets and 207 lane miles of neighborhood streets were resurfaced as part of the bond program.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: S409
Start Date: 7/13
End Date: 9/19
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Obligation Bonds: Series 2014	24,955.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	24,955.1
General Obligation Bonds: Series 2015	19,966.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,966.7
General Obligation Bonds: Series 2016	26,632.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26,632.4
General Obligation Bonds: Series 2017	15,300.0	4,000.0	0.0	4,000.0	0.0	0.0	0.0	0.0	4,000.0	0.0	19,300.0
General Obligation Street Bonds: Series 2013	19,551.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19,551.9
Total	106,406.1	4,000.0	0.0	4,000.0	0.0	0.0	0.0	0.0	4,000.0	0.0	110,406.1

Sun Tran Replacement Buses 40 Feet

Description:

Purchase replacement vehicles for fixed-route fleet for Sun Tran.

Justification:

To continue to provide the required service levels buses are replaced after exceeding their useful service life. Failure to replace buses that have outlived their useful service life results in increased maintenance and operational costs.

City-Wide Priorities: Customer Service.

Project ID: M150
Start Date: Annual
End Date: Annual
Location: Citywide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	0.0	0.0	701.0	701.0	701.0	701.0	701.0	708.0	3,512.0	0.0	3,512.0
Mass Transit Fund: Federal Grant	0.0	0.0	7,368.2	7,368.2	6,893.0	5,855.0	7,627.0	7,757.0	35,500.2	0.0	35,500.2
Mass Transit Fund: General Fund	0.0	0.0	1,770.4	1,770.4	1,765.6	1,506.1	1,949.0	1,981.6	8,972.7	0.0	8,972.7
Total	0.0	0.0	9,839.6	9,839.6	9,359.6	8,062.1	10,277.0	10,446.6	47,984.9	0.0	47,984.9

Sun Tran South Park Electrical System Repair

Description:

Renovation and rehabilitation includes improving the electrical system at Sun Tran's South Park Maintenance Facility. Maintaining the transit system in a state of good repair is essential for delivering safe and reliable service to thousands of riders and is a collaborative effort between the Federal Transit Administration and local governments.

Justification:

Transit maintenance and administrative facilities require continuous necessary repairs and improvements to prolong asset life.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: M506
Start Date: 7/19
End Date: 6/20
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: General Fund	0.0	0.0	0.0	0.0	500.0	0.0	0.0	0.0	500.0	0.0	500.0
Total	0.0	0.0	0.0	0.0	500.0	0.0	0.0	0.0	500.0	0.0	500.0

Sun Tran South Park Facility Bus Wash Replacement

Description:

Design and construct a new automated bus wash at Sun Tran's South Park Maintenance Facility. Maintaining the transit system in a state of good repair is essential for delivering safe and reliable service to thousands of daily riders and is a collaborative effort between the Federal Transit Administration (FTA) and local governments.

Justification:

Existing bus wash at the Sun Tran's South Park maintenance facility was built in 1995 and is nearing the end of its useful life. This project focuses on the replacement of the existing bus wash.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: M952
Start Date: 7/18
End Date: 6/19
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: Federal Grant	0.0	0.0	360.0	360.0	0.0	0.0	0.0	0.0	360.0	0.0	360.0
Mass Transit Fund: General Fund	0.0	0.0	90.0	90.0	0.0	0.0	0.0	0.0	90.0	0.0	90.0
Total	0.0	0.0	450.0	450.0	0.0	0.0	0.0	0.0	450.0	0.0	450.0

Sun Van Fuel Tank Replacements

Description:

The above ground fuel tanks located at the Sun Van facility were installed in 1997. They are located in a storm water drain field, which is causing the supports to rust, leading to potential failure of the supports. This project, will allow for replacement of the tanks and relocation closer to the fueling station and install a fuel management and monitoring system.

Justification:

Transit maintenance and administrative facilities require continuous necessary repair and improvements to prolong asset life. This project replaces the above ground fuel tanks at the Sun Van facility.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: M507
Start Date: 7/20
End Date: 6/21
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: General Fund	0.0	0.0	0.0	0.0	0.0	500.0	0.0	0.0	500.0	0.0	500.0
Total	0.0	0.0	0.0	0.0	0.0	500.0	0.0	0.0	500.0	0.0	500.0

Sun Van Replacement Buses <30 Feet										Project ID: M140	
Description: Purchase replacement vehicles for paratransit fleet for Sun Van.										Start Date: 7/18	
This project's TIP ID is 27.03.										End Date: 6/23	
Justification: To maximize operational efficiency, vehicles are scheduled for replacement at the end of their useful service life. Useful life has been defined as five years or 150,000 miles.										Location: Citywide	
City-Wide Priorities: Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: Federal Grant	0.0	0.0	1,788.0	1,788.0	1,843.0	3,180.0	2,480.0	2,480.0	11,771.0	0.0	11,771.0
Mass Transit Fund: General Fund	0.0	0.0	447.0	447.0	461.0	795.0	620.0	620.0	2,943.0	0.0	2,943.0
Total	0.0	0.0	2,235.0	2,235.0	2,304.0	3,975.0	3,100.0	3,100.0	14,714.0	0.0	14,714.0

Transit Facility Improvements (South Park Storm Water Yard)										Project ID: M951	
Description: Design and construct a stormwater conveyance system to capture stormwater flows entering the bus storage yard from adjacent east and south properties with additional catch basins throughout the South yard. Repave the yard with concrete.										Start Date: 7/15	
Justification: Significantly reduce surface flow of stormwater through the storage yard and eliminate ponding which has degraded the existing asphalt pavement. Replace existing degraded asphalt pavement in bus storage yard.										End Date: 6/19	
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.										Location: Ward 5	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Mass Transit Fund: Federal Grant	72.4	2,535.8	639.9	3,175.7	0.0	0.0	0.0	0.0	3,175.7		3,248.1
Mass Transit Fund: General Fund	18.1	510.3	283.6	793.9	0.0	0.0	0.0	0.0	793.9	0.0	812.0
Total	90.5	3,046.1	923.5	3,969.6	0.0	0.0	0.0	0.0	3,969.6	0.0	4,060.1

<p>Treat Avenue Bike Boulevard</p> <p>Description: Construct bike boulevard improvements along the Treat Avenue alignment providing a low stress north/south bicycle route through midtown.</p> <p>Justification: This project was approved for RTA funds in December 2012.</p> <p>City-Wide Priorities: Health and Safety.</p>	<p>Project ID: SP12 Start Date: 7/13 End Date: 12/19 Location: Wards 3, 5, and 6</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Highway User Revenue Fund	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Regional Transportation Authority Fund	216.4	215.0	0.0	215.0	0.0	0.0	0.0	0.0	215.0	0.0	431.4
Total	220.0	215.0	0.0	215.0	0.0	0.0	0.0	0.0	215.0	0.0	435.0

<p>University of Arizona: 2nd Bike / Pedestrian Improvements</p> <p>Description: This is a joint project between the City of Tucson and the University of Arizona to improve bike safety on 2nd Street between Olive and Highland.</p> <p>Justification: Improve bike and pedestrian safety for crossing over modern streetcar tracks.</p> <p>City-Wide Priorities: Health and Safety.</p>	<p>Project ID: SP14 Start Date: 1/12 End Date: 6/19 Location: Ward 6</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Federal Highway Administration Grants	118.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.5
Highway User Revenue Fund	10.1	0.7	4.3	5.0	0.0	0.0	0.0	0.0	5.0	0.0	15.1
Total	128.6	0.7	4.3	5.0	0.0	0.0	0.0	0.0	5.0	0.0	133.6

Valencia Road: Alvernon to Kolb**Description:**

This project widens Valencia to a six-lane, divided roadway with bike lanes and sidewalks.

Justification:

This project was approved as part of the May 2006 RTA Plan.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR13
Start Date: 7/13
End Date: 6/21
Location: Wards 4 and 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund: Restricted	51.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.5
Highway User Revenue Fund	18.0	10.0	0.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0	28.0
Regional Transportation Authority Fund	4,000.0	0.0	18,700.0	18,700.0	50.0	50.0	0.0	0.0	18,800.0	0.0	22,800.0
Road & Park Impact Fee Fund: East District	3,000.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3,000.7
Southeast District Impact Fees	0.1	80.0	0.0	80.0	0.0	0.0	0.0	0.0	80.0	0.0	80.1
Total	7,070.3	90.0	18,700.0	18,790.0	50.0	50.0	0.0	0.0	18,890.0	0.0	25,960.3

Valencia Road: Kolb to Houghton**Description:**

Widen Valencia to a six-lane, divided roadway with bike lanes and sidewalks.

Justification:

This project was approved as part of the May 2006 RTA Plan. PAG 5-Year Regional TIP 59.06.

City-Wide Priorities: Health and Safety and Maintenance and Renovation of Existing City Assets.

Project ID: SR14
Start Date: 7/15
End Date: 6/23
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Regional Transportation Authority Fund	0.6	374.5	0.0	374.5	558.0	2,000.0	12,100.0	10,849.0	25,881.5	0.0	25,882.1
Road & Park Impact Fee Fund: Southeast District	0.0	0.0	0.0	0.0	0.0	0.0	9,000.0	0.0	9,000.0	0.0	9,000.0
Southeast District Impact Fees	4,366.0	634.0	2,366.0	3,000.0	442.0	0.0	0.0	0.0	3,442.0	0.0	7,808.0
Total	4,366.6	1,008.5	2,366.0	3,374.5	1,000.0	2,000.0	21,100.0	10,849.0	38,323.5	0.0	42,690.1

Tucson Delivers: Better Streets



**Capital Improvement Program
Department Statement**

FY 2018/19 through FY 2022/23

Department: Tucson Delivers: Better Street

Five-Year Total: \$10,000,000

Tucson Delivers: Better Streets: This is a Road Improvement Program of \$100.0 million for road repairs will be managed by citizens' oversight commission, which also will oversee the road work for the half-cent sales tax program. Streets will be selected for repair based on a comprehensive engineering analysis of the condition of city streets. This program is funded by Better Streets Improvement Fund which is raised by the half-cent, five-year sales tax increase, approved by voters on May 16, 2017.

Tucson Delivers: Better Streets

(\$000)

Better Streets: Proposition 101 - Arterial										Project ID: S102 Start Date: 7/17 End Date: 6/23 Location: Citywide	
Description:											
Repair streets based on a comprehensive engineering analysis of the condition of city streets.											
Justification:											
This project was approved by voters on May 16, 2017 to provide road repairs and maintenance.											
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Better Streets Improvements	0.0	12,000.0	6,000.0	18,000.0	12,000.0	12,000.0	12,000.0	6,000.0	60,000.0	0.0	60,000.0
Total	0.0	12,000.0	6,000.0	18,000.0	12,000.0	12,000.0	12,000.0	6,000.0	60,000.0	0.0	60,000.0

Better Streets: Proposition 101 - Local										Project ID: S101 Start Date: 7/17 End Date: 6/23 Location: Citywide	
Description:											
Repair streets based on a comprehensive engineering analysis of the condition of city streets.											
Justification:											
This project was approved by voters on May 16, 2017 to provide road repairs and maintenance.											
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Better Streets Improvements	0.0	8,000.0	4,000.0	12,000.0	8,000.0	8,000.0	8,000.0	4,000.0	40,000.0	0.0	40,000.0
Total	0.0	8,000.0	4,000.0	12,000.0	8,000.0	8,000.0	8,000.0	4,000.0	40,000.0	0.0	40,000.0

Tucson Delivers: Safer City Public Safety



Capital Improvement Program Department Statement

FY 2018/19 through FY 2022/23

Department: Tucson Delivers: Safer City (Public Safety)

Five-Year Total: \$135,823,000

The Tucson Delivers: Safer City Program of \$135.8 million includes projects or acquisition areas that will address the replacement or upgrade of public safety vehicles, equipment, and facilities for the Tucson Fire and Police Departments. This program is funded by a half-cent, five-year sales tax increase, approved by voters on May 16, 2017. The progress related to all projects and acquisitions under this program will be monitored by the Public Safety Tax Oversight Commission to insure they adhere to the voter approved Public Safety Improvements Plan.

Facilities:

- \$34.1 M: Fire facilities consists of the remodeling of 9 fire stations and the fire warehouse, and 5 fire stations rebuilds.
- \$38.1 M: Police facilities consists of rebuilding the Police's South Side substation and the construction of a new Eastside annex, the upgrade of security systems at the Police Headquarters building, Police substations and ancillary support facilities.
- Both departments also share the cost for reinvesting the facilities of the Public Safety Training Academy Campus, such as the replacement of the driver training track, reinvestment in campus buildings to address deferred maintenance items.

Fleet:

- \$31.9 M: Fire fleet acquisitions for replacing fire apparatus and nonspecialized public safety vehicles.
- \$16.5 M: Police fleet acquisitions include the replacement of patrol units, unmarked units, and specialized units.

Personnel Safety:

- \$1.0 M: Replacing the firefighter protective gear
- \$4.4 M: Replacing the police officers' ballistic vests, the electronic control devices, firearms and the deployment of body worn camera technology.

Technology Upgrade:

- \$2.2 M: Fire technology upgrade acquisitions include the replacement of cardiac monitors, electronic patient care reporting computers, and mobile data terminals.
- \$6.7 M: Police technology upgrade acquisitions includes the purchase of desktop computers and laptops, to replace outdated failing units, the purchase and deployment of in car vehicle camera systems.
- Also include an upgrade of the computer aided dispatch system for both departments.

Additional Purchases:

- \$0.9 M: For acquisition of police air support equipment and police evidence storage.

Tucson Delivers: Safer City (Public Safety)

(\$000)

Fire Facilities Description: Renovate and expand Fire Department facilities in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan. Justification: The Fire Maintenance Logistics Facility and multiple Fire Stations will be renovated or rebuilt to better meet the needs of our first responders and the communities they serve. City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.										Project ID: F101 Start Date: 7/17 End Date: 6/23 Location: City Wide	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	350.0	1,463.4	7,376.6	8,840.0	5,962.1	10,079.8	7,232.4	767.6	32,881.9	0.0	33,231.9
Total	350.0	1,463.4	7,376.6	8,840.0	5,962.1	10,079.8	7,232.4	767.6	32,881.9	0.0	33,231.9

Fire Fleet Description: Purchase fire apparatus and support vehicles for the Tucson Fire Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan. Justification: Support vehicles and fire apparatus including fire engines, ladder trucks and paramedic units will be purchased to replace existing fleet that is beyond recommended service life. Replacement of these vehicles will increase fleet reliability and better meet the needs of our first responders and the communities that they serve. City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.										Project ID: F101 Start Date: 7/17 End Date: 6/22 Location: City Wide	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	2,196.5	5,660.5	5,922.2	11,582.7	8,521.3	6,992.3	4,819.2	0.0	31,915.5	0.0	34,112.0
Total	2,196.5	5,660.5	5,922.2	11,582.7	8,521.3	6,992.3	4,819.2	0.0	31,915.5	0.0	34,112.0

Fire Personnel Safety Equipment

Description:

Purchase personnel safety equipment for the Tucson Fire Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

Firefighter replacement turnout gear will be purchased for firefighters. Turnout gear is the primary garment used to protect firefighters during entry into fires and other hazardous environments.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: F101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	252.7	0.0	245.0	245.0	245.0	245.0	237.3	0.0	972.3	0.0	1,225.0
Total	252.7	0.0	245.0	245.0	245.0	245.0	237.3	0.0	972.3	0.0	1,225.0

Fire Technology Upgrades

Description:

Purchase technology upgrades for the Tucson Fire Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

The Fire Department relies on multiple types of technology to provide service to the community. Many of these systems are beyond their useful life. Electronic patient care reporting computers, mobile data terminals, and cardiac monitors will be replaced and the fire alerting system that supports the dispatch of first responders will be replaced.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: F101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	2,760.0	1,455.0	182.0	1,637.0	182.0	182.0	145.0	0.0	2,146.0	0.0	4,906.0
Total	2,760.0	1,455.0	182.0	1,637.0	182.0	182.0	145.0	0.0	2,146.0	0.0	4,906.0

Police Air Support Equipment

Description:

Invest in the maintenance of the Tucson Police Department's Air Support capabilities in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

The Tucson Police Department relies on air support to provide service to the community. Existing air support equipment requires engine rebuild and equipment replacement at prescribed intervals to meet industry standards.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	0.0	0.0	150.0	150.0	150.0	150.0	150.0	0.0	600.0	0.0	600.0
Total	0.0	0.0	150.0	150.0	150.0	150.0	150.0	0.0	600.0	0.0	600.0

Police Evidence Storage

Description:

Purchase additional bins for the storage of evidentiary material in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

As part of supporting the prosecution of criminal cases, the Tucson Police Department must store and track evidentiary items. Additional bins are needed to continue to accommodate the need for storage of evidentiary items.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	90.0	0.0	90.0	90.0	90.0	90.0	90.0	0.0	360.0	0.0	450.0
Total	90.0	0.0	90.0	90.0	90.0	90.0	90.0	0.0	360.0	0.0	450.0

Police Facilities**Description:**

Renovate and expand facilities for the Tucson Police Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

The Police Department's facilities need reinvestment to continue to meet the needs of our first responders and the communities that they serve. The Police Department's Southside Substation will be rebuilt, a new Eastside Annex will be constructed and all substations will receive security upgrades. Other ancillary support locations such as the Firearms Training Academy and the driver training track will be invested in to support officer training.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	204.3	299.5	2,036.7	2,336.2	4,471.5	16,982.0	14,297.0	0.0	38,086.7	0.0	38,291.0
Total	204.3	299.5	2,036.7	2,336.2	4,471.5	16,982.0	14,297.0	0.0	38,086.7	0.0	38,291.0

Police Fleet**Description:**

Purchase vehicles and specialized fleet for the Tucson Police Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

Patrol, unmarked and specialized fleet vehicles will be purchased to replace existing fleet that is beyond recommended service life. Replacement of these vehicles will increase fleet reliability and better meet the needs of our first responders and the communities that they serve.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	4,195.1	596.0	3,831.9	4,427.9	3,948.0	4,256.0	3,833.0	0.0	16,464.9	0.0	20,660.0
Total	4,195.1	596.0	3,831.9	4,427.9	3,948.0	4,256.0	3,833.0	0.0	16,464.9	0.0	20,660.0

Police Personnel Safety Equipment

Description:

Purchase safety equipment for the Tucson Police Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

Ballistic vests, body worn cameras, electronic control devices and firearms will be purchased. This replacement equipment is needed to keep officers and the community safe.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	444.8	14.9	876.0	890.9	886.0	886.0	1,733.3	0.0	4,396.2	0.0	4,841.0
Total	444.8	14.9	876.0	890.9	886.0	886.0	1,733.3	0.0	4,396.2	0.0	4,841.0

Police Technology Upgrades

Description:

Purchase technology upgrades for the Tucson Police Department in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Justification:

The Police Department relies on multiple types of technology to provide service to the community. Many of these systems are beyond their useful life. Laptops, desktop computers, vehicle printers and cameras will be replaced. Additionally, the system that supports the dispatch of first responders to calls for service will be upgraded.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Project ID: P101
Start Date: 7/17
End Date: 6/22
Location: City Wide

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	1,427.6	1,450.0	2,477.8	3,927.8	953.0	953.0	895.6	0.0	6,729.4	0.0	8,157.0
Total	1,427.6	1,450.0	2,477.8	3,927.8	953.0	953.0	895.6	0.0	6,729.4	0.0	8,157.0

Public Safety Training Academy

Description:

Replace the Public Safety Training Academy Driver Training Track and reinvest in campus facilities in accordance with Proposition 101 and the voter approved Public Safety Improvements Plan.

Project ID: P101
Start Date: 7/17
End Date: 6/21
Location: City Wide

Justification:

The Public Safety Training Academy facilities are in need of reinvestment and the Driver Training Track at the Public Safety Training Academy is need of replacement. The existing asphalt is beyond it's useful life and has significant cracking that presents a safety concern for public safety personnel and community members who use the track as part of driver training programs.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Public Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Public Safety Improvement Fund	2,224.0	0.0	520.0	520.0	0.0	750.0	0.0	0.0	1,270.0	0.0	3,494.0
Total	2,224.0	0.0	520.0	520.0	0.0	750.0	0.0	0.0	1,270.0	0.0	3,494.0

Tucson Water



Capital Improvement Program Department Statement

FY 2018/19 through FY 2022/23

Department: Tucson Water

Five-Year Total: \$333,697,000

Tucson Water's Capital Improvement Program (CIP) is a cornerstone in a long-term water supply plan for the community. Major areas of focus include advanced metering; Regional Transportation Authority (RTA) and other roadway agency work relocating water facilities; Santa Cruz Wellfield and Water Infrastructure Incentive Program - Aerospace/Sonoran Corridor construction; control system upgrades; reservoir rehabilitation; and necessary infrastructure replacement.

The Tucson Water CIP is divided into two program groups: Potable Water System and Reclaimed Water System. Improvements to both water systems will ensure that:

- Potable and reclaimed customers are provided with high quality water,
- The water supply is reliable, and
- The safe yield and assured water supply requirements of the Arizona State Groundwater Management Act are met.

The program will be funded with a combination of Environmental Services Fund, water revenues, Water Revenue System Obligation Fund, and is contingent on the utility's ability to obtain debt financing.

Potable Water System - These projects total \$317.2 million over the next five years. The focus of the potable system program is construction of projects needed to secure, store, recover, and deliver long term renewable water resources for the community. Projects include:

- **\$75.2M Potable Distribution:** Distribution System Mainline replacement, routine Mainline Replacement and Transmission Mainline Replacement. Major projects include 22nd Street to 36th Street, Kolb to Craycroft Distribution Main Replacement and Tierra Del Sol Mainline Replacement. \$30.6 M Road Improvement Main Replacement projects allow replacing water mains during roadway projects by other agencies allows Tucson Water to maintain system capacity while saving money on the cost of pavement removal and replacement.
- **\$70.0M Potable General Plant:** Replacement and upgrade Meters system and corresponding meter infrastructure expenses. Implementation of \$5.0M Safety and Security System, \$7.0M technology upgrades. \$27.7M for improvement of Billing System and \$4.6M of customer care center with the ultimate goal is to improve customer service.
- **\$19.1M Potable New Services:** Installation of new fire hydrants, fire sprinkler service and new meters upon customer request.
- **\$24.8M Potable Process Controls:** Upgrade multiple water systems, for e.g. \$20.0M SCADA Potable upgrades infrastructure hardware software.
- **\$11.8M Potable Pumping Plant:** Improvement by upgrading and replacing booster station, plumbing plants and pressure reducing valve (PRV).
- **\$54.9M Potable Source Development:** Drilling of new Production Wells and the corresponding cost such as new Equipment and Pumping. Replacement or upgrade existing Wells Field. Major projects include Central and Southern Avra Valley Storage and Recovery Project Well Pump Improvement, Santa Cruz-River Heritage Project, and Tucson Airport Remediation Project (TARP).
- **\$19.8M Potable Storage:** Mainly Rehabilitation of pipeline, tank and reservoirs, such as the Clearwell Reservoir, the Devine Reservoir and the Escalante Reservoir.

- **\$37.9M Portable Transmission:** Replacing transmission mainlines and critical pipelines, major projects include Calle Santa Cruz Transmission Main Replacement, Sahuarita Supply Line Slipliner. And the Water Infrastructure Incentive Program all through the City particular along the Sonoran corridor and Aerospace Parkway.
- **\$3.7M Portable Treatment:** Construction of a Chemical Feed and Quality Facility to provide quality water such as Santa Cruz Wellfield Chemical Feed / Monitoring Facility.

Reclaimed Water System - These projects total \$16.5 million over the next five years. The proposed CIP reclaimed projects include:

- \$0.9 M for Reclaimed Process: Control Panels System.
- \$0.3 M for Reclaimed Distribution: Developer-Financed Reclaimed Systems.
- \$2.6 M for Reclaimed Treatment: Filtration Modifications at Reclaimed Plant.
- \$9.1 M for Reclaimed Storage: Such as \$2.9 M Houghton Road Reclaimed Reservoir, \$3.1M La Paloma Reclaimed Reservoir Rehabilitation and \$3.1 M Thornydale Reclaimed Reservoir Rehabilitation.
- \$0.3 M for Reclaimed New Metered Services.
- \$1.9 M for Reclaimed Transmission.
- \$1.4 M for System Enhancements: Reclaimed.

Tucson Water

(\$000)

22nd Street to 36th Street, Kolb to Craycroft Distribution Mains

Description:

Design and install approximately 1 mile of 16-inch transmission main replacement on South Kolb Road from 22nd Street to 36th Street. The new main will replace the existing 6-inch cement asbestos pipeline. Design and install approximately 2 miles of 16-inch main replacement on E. Golf Links Rd from S. Kolb Road to South Craycroft Road. The new pipeline will replace the existing 12-inch cement asbestos.

Justification:

The new pipeline will provide reliable customer service.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID:	W348
Start Date:	07/21
End Date:	6/23
Location:	Wards 2 and 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	1,252.0	582.0	1,834.0	0.0	1,834.0
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,842.0	10,842.0	0.0	10,842.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	1,252.0	11,424.0	12,676.0	0.0	12,676.0

Advanced Metering Infrastructure

Description:

This project will set up the network software and cost of the repeaters and collectors needed to read meters.

Justification:

This project will increase meter reading efficiency and reduce energy/fuel consumption and provide customers with timely data to assist them with managing their water use and will notify customers that they may have a leak.

City-Wide Priorities: Customer Service.

Project ID: W138
Start Date: 07/15
End Date: 6/23
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	10.0	0.0	59.0	59.0	924.0	1,139.0	1,159.0	1,175.0	4,456.0	0.0	4,466.0
Water Revenue System Obligation Fund 2017	103.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.0
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	113.0	0.0	109.0	109.0	924.0	1,139.0	1,159.0	1,175.0	4,506.0	0.0	4,619.0

Annual Production Well Equipping

Description:

Equipping of production wells in wellfields other than the Central Avra Valley Storage and Recovery Project (CAVSARP), Southern Avra Valley Storage and Recovery Project (SAVSARP) and Tucson Airport Remediation Project (TARP). Focus will be on aging wells, determining which are beyond repair, or are more economical to replace by installing stainless steel constructed wells.

Justification:

This on-going project is complementary to Capital Improvement Program W101 (well drilling) and will equip wells to pump historic production levels; or more than the original wells and contribute to maintaining redundant wellfield pumping capacity.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing city Assets and Customer Service.

Project ID: W342
Start Date: 07/22
End Date: 6/23
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10,000.0	10,000.0
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,351.0	2,351.0	0.0	2,351.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,351.0	2,351.0	10,000.0	12,351.0

Arc Flash Service Upgrades

Description:

Purchase and install on-site power interrupt switches, new label plates warning of potential arc flash hazard, and new protective equipment for personnel visiting water sites.

Justification:

Occupational Safety and Health Administration (OSHA) regulation NFPA-70E on electrical safety, requires all non-occupied Water Department sites containing electrical breakers or switchgear to be brought into compliance.

City-Wide Priorities: Health and Safety.

Project ID: W668
Start Date: 7/06
End Date: 6/22
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2009 Water Revenue System Obligation Fund	130.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	130.6
2010 Water Revenue System Obligation Fund	188.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	188.0
2011 Water Revenue System Obligation Fund	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	184.0	22.8	11.6	0.0	218.4	0.0	218.4
Tucson Water Revenue and Operations Fund	2,505.5	0.0	294.0	294.0	943.0	91.2	46.4	0.0	1,374.6	0.0	3,880.1
Water Revenue System Obligation Fund 2012	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Water Revenue System Obligation Fund 2013	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Water Revenue System Obligation Fund 2014	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.9
Water Revenue System Obligation Fund 2015	40.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	40.6
Water Revenue System Obligation Fund 2018	233.9	0.0	800.0	800.0	0.0	0.0	0.0	0.0	800.0	0.0	1,033.9
Total	3,117.8	0.0	1,094.0	1,094.0	1,127.0	114.0	58.0	0.0	2,393.0	0.0	5,511.0

Bear Canyon South of Snyder Distribution Main									Project ID: W349		
Description:									Start Date: 7/22		
Design and install approximately 2 miles of 16-inch transmission main replacement on North Bear Canyon south of East Snyder Road. The project will replace the existing 4-inch and 6-inch cement asbestos main.									End Date: 6/23		
Justification:									Location: County		
The new pipeline will provide reliable customer service and improved fire protection.											
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	834.0	834.0	6,390.0	7,224.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	834.0	834.0	6,390.0	7,224.0

Billing System									Project ID: W270		
Description:									Start Date: 7/19		
This CIP will evaluate the options available for a billing system for a utility this size and begin the process of building a business case for evaluating, planning, implementation and training of upgrading or purchasing a new billing system.									End Date: 6/23		
Justification:									Location: City and County		
A new or upgraded billing system is imperative to ensure the utility's ability to account for and bill customers accurately.											
City-Wide Priorities: Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	563.0	7,976.0	17,390.0	1,763.0	27,692.0	0.0	27,692.0
Total	0.0	0.0	0.0	0.0	563.0	7,976.0	17,390.0	1,763.0	27,692.0	0.0	27,692.0

Calle Santa Cruz Transmission Main Replacement

Description:

Design and construct 2 miles of 24-inch transmission main replacement on Calle Santa Cruz between Valencia and Irvington. The main will be in City of Tucson property B1 water service area.

Project ID: W151
Start Date: 10/14
End Date: 6/19
Location: Ward 1

Justification:

This replacement maintains existing water pressure in emergency situations.

City-Wide Priorities: Customer Service, Health and Safety, and Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	38.6	0.0	3,037.0	3,037.0	0.0	0.0	0.0	0.0	3,037.0	0.0	3,075.6
Water Revenue System Obligation Fund 2014	29.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4
Water Revenue System Obligation Fund 2015	31.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.2
Water Revenue System Obligation Fund 2016	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Water Revenue System Obligation Fund 2017	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	56.0
Total	158.7	0.0	3,037.0	3,037.0	0.0	0.0	0.0	0.0	3,037.0	0.0	3,195.7

CAP Basin Collector Pipelines

Description:

Install 1/2 mile of 24-inch collection main on Old Nogales Highway Right-Of-Way and install 1/2 mile of 16-inch collection main on Central Arizona Project (CAP) Basin land. This project is dependent upon CIP W796 (Sahuarita Supply Line Slip Liner).

Project ID: W160
Start Date: 7/21
End Date: 6/23
Location: County

Justification:

This pipeline will collect well water from the CAP Basin wells near Old Nogales Highway and Pima Mine Road.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	58.0	1,352.0	1,410.0	0.0	1,410.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	58.0	1,352.0	1,410.0	0.0	1,410.0

CAP Basin Well 24" Transmission Main, Old Nogales Hwy

Description:

Design and install 1.75 miles of 24-inch transmission main on Old Nogales Highway Right-Of-Way or purchased/leased easement.

Justification:

This main will convey water from the Central Arizona Project Basin wells along Old Nogales Highway starting 0.75 miles north of Pima Mine Road to Lumber Street.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W161
Start Date: 7/20
End Date: 6/23
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	115.0	41.0	1,721.0	1,877.0	0.0	1,877.0
Total	0.0	0.0	0.0	0.0	0.0	115.0	41.0	1,721.0	1,877.0	0.0	1,877.0

Cathodic Protection (CP) for Critical Pipelines

Description:

Design and construct Cathodic Protection (CP) and corrosion monitoring facilities. These critical pipelines range from 16 to 96-inches in diameter and are located throughout Tucson Water's service area.

Justification:

This project is necessary to prevent corrosion related failures of the City of Tucson's largest and most critical potable water pipelines.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W320
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	676.0	684.0	696.0	705.0	2,761.0	3.0	2,764.0
Tucson Water Revenue and Operations Fund	0.0	0.0	691.0	691.0	317.0	349.0	398.0	438.0	2,193.0	0.0	2,193.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	0.0	0.0	891.0	891.0	993.0	1,033.0	1,094.0	1,143.0	5,154.0	3.0	5,157.0

CAVSARP Well Pump Improvements

Description:
Upgrade existing line shafts on Central Avra Valley Storage and Recovery Project (CAVSARP) wells, upgrade well pumps, change product lubrication systems, and re-equip wells with new materials.

Justification:
Evaluating and upgrading wells will reduce maintenance costs and improve operating efficiency and reliability.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W553
Start Date: Annual
End Date: Annual
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	228.0	228.0	338.0	342.0	3,478.0	3,526.0	7,912.0	15,000.0	22,912.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	0.0	0.0	328.0	328.0	338.0	342.0	3,478.0	3,526.0	8,012.0	15,000.0	23,012.0

Cherry Ave Distribution Main, Silver St to Well B-010

Description:
Install approximately 400 feet of 6-inch main on Cherry Avenue from Silver Street to Copper Street. Connect to both the existing 8-inch main and the 3-inch main on Cherry Avenue at Copper Street. The area high school, which is divided by the A1 and B1 water service areas, has experienced increased building in recent years. This project will strengthen the B1 fire flow capacity in the area.

Justification:
This will improve the distribution system reliability and fire flow reliability in the area.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W322
Start Date: 7/18
End Date: 6/19
Location: Ward 3

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	0.0	0.0	0.0	0.0	55.0	0.0	55.0

Clearwell Reservoir Rehabilitation

Description:

Design and construct new interior shear walls, roof and interior lining at Clearwell Reservoir. The work will be performed on one cell at a time to minimize disruption to water system operation.

Justification:

Review of the reservoir revealed a need for structural improvements to comply with seismic code requirements; and the liner and roof have reached the end of their service life and are in need of replacement.

City-Wide Priorities: Customer Service and Maintenance and Renovation of Existing City Assets.

Project ID: W056
Start Date: 7/14
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.0
2011 Water Revenue System Obligation Fund	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0
Tucson Water Revenue and Operations Fund	2,765.7	0.0	81.0	81.0	0.0	0.0	0.0	0.0	81.0	0.0	2,846.7
Water Revenue System Obligation Fund 2012	481.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	481.0
Water Revenue System Obligation Fund 2013	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.7
Water Revenue System Obligation Fund 2014	59.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.8
Water Revenue System Obligation Fund 2015	750.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	750.9
Water Revenue System Obligation Fund 2016	7,021.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,021.0
Water Revenue System Obligation Fund 2017	8,388.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,388.4
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	19,542.5	0.0	131.0	131.0	0.0	0.0	0.0	0.0	131.0	0.0	19,673.5

Control Panel Replacements: Potable**Description:**

Install new control panels and electronic equipment at existing production facilities such as wells, boosters, reservoirs, and pressure reducing valve facilities.

Justification:

The existing control panels are approaching the end of their service life and need to be replaced to ensure system reliability.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W045
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	113.0	114.0	116.0	118.0	461.0	500.0	961.0
Tucson Water Revenue and Operations Fund	0.0	0.0	59.0	59.0	0.0	0.0	0.0	0.0	59.0	0.0	59.0
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	0.0	0.0	109.0	109.0	113.0	114.0	116.0	118.0	570.0	500.0	1,070.0

Control Panels: Reclaimed System**Description:**

Design and construct controls for reclaimed water facilities, and modify existing controls at booster stations, reservoirs, and storage facilities.

Justification:

These controls are needed to electronically monitor and transmit pressure, flow rates, and other site condition data to the reclaimed water treatment plant where it is used to make operational decisions.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W959
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	169.0	171.0	174.0	176.0	690.0	750.0	1,440.0
Tucson Water Revenue and Operations Fund	0.0	0.0	64.0	64.0	0.0	0.0	0.0	0.0	64.0	0.0	64.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	0.0	0.0	164.0	164.0	169.0	171.0	174.0	176.0	854.0	750.0	1,604.0

Craycroft Rd D-E Booster Station

Description:

Build new D to E booster station at Craycroft & Old Vail Road with booster capacity up to 10 million gallons per day and storage capacity of 5 million gallons. Land will need to be purchased.

Justification:

This project will allow water to be conveyed to the Old Vail booster station, helping provide water availability for economic development in the area.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W308
Start Date: 7/22
End Date: 6/24
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.0	118.0	8,900.0	9,018.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.0	118.0	8,900.0	9,018.0

Developer-Financed Reclaimed Systems

Description:

Review plans and inspect developer constructed reclaimed water systems. These systems are donated to the City of Tucson upon completion. Associated costs are recovered from developer fees.

Justification:

The review and inspection ensure compliance with Tucson Water's standards.

City-Wide Priorities: Economic Development and Customer Service.

Project ID: W130
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	300.0	300.0
Tucson Water Revenue and Operations Fund	0.0	0.0	26.0	26.0	68.0	68.0	70.0	71.0	303.0	0.0	303.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	66.0	66.0	68.0	68.0	70.0	71.0	343.0	300.0	643.0

Devine Reservoir Rehabilitation

Description:

Remove and replace membrane liner and metal roof. Repair any structural deficiencies found, clean and re-coat structural steel. The rehabilitation of this critical potable reservoir is a priority.

Justification:

Reservoir liner has been identified as requiring replacement. Recent inspection of metal roof has identified accelerated deterioration requiring replacement as soon as reasonably possibly.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W312
Start Date: 7/17
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	2,929.0	0.0	0.0	0.0	2,929.0	0.0	2,929.0
Tucson Water Revenue and Operations Fund	64.0	0.0	56.0	56.0	0.0	0.0	0.0	0.0	56.0	0.0	120.0
Water Revenue System Obligation Fund 2018	0.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0	10.0
Total	64.0	0.0	66.0	66.0	2,929.0	0.0	0.0	0.0	2,995.0	0.0	3,059.0

Diamond Bell Production Facilities Improvements

Description:

Upgrade boosters and controls to bring the system up to Tucson Water Standards and provide much better response and service to customers. The Diamond Bell area includes water service areas G5, H5, I5 and J5 and currently consists of 2 wells, 3 booster stations and 3 above-ground storage tanks which are generally old antiquated equipment and controls. Most facilities cannot be monitored or controlled by SCADA.

Justification:

Due to its isolated location, without upgrades, failures cannot be remedied quickly.

City-wide Priorities: Maintenance and Renovation of Existing City Assets, Customer Service, Health and Safety

Project ID: W264
Start Date: 7/17
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	620.0	0.0	0.0	0.0	620.0	0.0	620.0
Tucson Water Revenue and Operations Fund	10.3	0.0	173.0	173.0	0.0	0.0	0.0	0.0	173.0	0.0	183.3
Water Revenue System Obligation Fund 2016	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.3
Water Revenue System Obligation Fund 2017	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	112.6	0.0	273.0	273.0	620.0	0.0	0.0	0.0	893.0	0.0	1,005.6

Drexel I-19 Crossing 24 Main

Description:

Install 800 feet of 24-inch main on Drexel under I-19, replacing the existing 8-inch main. Install 50 feet of 6-inch main on Calle Pinta and connect to the 24-inch main.

Justification:

The existing 8-inch main provides insufficient back-up capability to customers. Increasing this main to a 24-inch line will provide sufficient alternate sources of water to customers in the area if we experience a supply failure from another source. Failures can include main breaks, well failures, booster pump failures, etc.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W187
Start Date: 7/19
End Date: 6/21
Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	1,082.0	0.0	0.0	1,138.0	0.0	1,138.0
Total	0.0	0.0	0.0	0.0	56.0	1,082.0	0.0	0.0	1,138.0	0.0	1,138.0

Drill Production Wells

Description:

Drilling of 2 replacement production wells per year in wellfields other than the Central Avra Valley Storage and Recovery Project, Southern Avra Valley Storage and Recovery Project and Tucson Airport Remediation Project. Replacements will be focused on wells beyond repair, or which are more economical to replace by installing stainless steel constructed wells.

Justification:

This on-going project will equip wells to pump historic production levels of the original wells and will contribute to maintaining 90 MGD of redundant wellfield pumping capacity in the event of a failure of the 96-inch Clearwell pipeline.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W101
Start Date: 7/13
End Date: 6/23
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	100.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.5
2011 Water Revenue System Obligation Fund	464.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	464.2
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15,000.0	15,000.0
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	0.0	2,319.0	3,526.0	5,845.0	0.0	5,845.0
Water Revenue System Obligation Fund 2012	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total	564.9	0.0	0.0	0.0	0.0	0.0	2,319.0	3,526.0	5,845.0	15,000.0	21,409.9

E-031A Well Equipping										Project ID: W292	
Description: Design and equip well E-031A to provide an additional water resource to the southeast portion of the water system.										Start Date: 7/17	
										End Date: 6/19	
Justification: To provide an additional water resource to the southeast portion of the water system.										Location: County	
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	55.0	0.0	250.0	250.0	0.0	0.0	0.0	0.0	250.0	0.0	305.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	55.0	0.0	350.0	350.0	0.0	0.0	0.0	0.0	350.0	0.0	405.0

E-031 Well 12-Inch Transmission Main										Project ID: W307	
Description: Install 700 feet of 12-inch main from well E-031A to the 36-inch main in Wilmot Rd. This project will allow well E-031A to supply water to the E water service area.										Start Date: 7/17	
										End Date: 6/19	
Justification: The new infrastructure will convey water produced by well E-031 into Tucson Water's Eastside water service area.										Location: County	
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	55.7	0.0	52.0	52.0	0.0	0.0	0.0	0.0	52.0	0.0	107.7
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	55.7	0.0	92.0	92.0	0.0	0.0	0.0	0.0	92.0	0.0	147.7

Emergency Main Replacement

Description:

Replace approximately 3,000 feet of 2-inch, 4-inch, and 6-inch mains on an as-needed, emergency basis.

Justification:

Immediate response to requests for emergency main replacements is required to reduce water loss, ensure system reliability, and maintain water quality.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W186
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	451.0	456.0	464.0	470.0	1,841.0	2,000.0	3,841.0
Tucson Water Revenue and Operations Fund	0.0	0.0	238.0	238.0	0.0	0.0	0.0	0.0	238.0	0.0	238.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	0.0	0.0	438.0	438.0	451.0	456.0	464.0	470.0	2,279.0	2,000.0	4,279.0

Equip Wells SS-021 and SS-023

Description:

Re-equip or replace pumps for wells SS-021 and SS-023 to pump water into the B1 water service area. Existing well discharge mains will be connected to the B1 mains.

Justification:

Wells SS-021 and SS-023 are needed to supply water in the west portion of Tucson Water's system.

City-Wide Priorities: Customer Service, Health and Safety, and Maintenance and Renovation of Existing City Assets.

Project ID: W216
Start Date: 7/21
End Date: 6/22
Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	87.0	0.0	87.0	0.0	87.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	87.0	0.0	87.0	0.0	87.0

Escalante Reservoir**Description:**

Design and construct improvements as developed through the condition assessment to bring this reservoir up to current standards.

Justification:

This project must be completed to continue to provide long-term reliability and prevent water loss.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W051
Start Date: 7/14
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	1,709.0	0.0	0.0	1,709.0	0.0	1,709.0
Tucson Water Revenue and Operations Fund	375.1	0.0	29.7	29.7	0.0	0.0	0.0	0.0	29.7	0.0	404.8
Water Revenue System Obligation Fund 2014	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
Water Revenue System Obligation Fund 2015	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3
Water Revenue System Obligation Fund 2016	44.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	44.0
Water Revenue System Obligation Fund 2018	0.0	0.0	3.3	3.3	0.0	0.0	0.0	0.0	3.3	0.0	3.3
Total	426.0	0.0	33.0	33.0	0.0	1,709.0	0.0	0.0	1,742.0	0.0	2,168.0

Excellence in Customer Care Center

Description:

Relocation of Customer Service Representatives (CSRs) to enhanced work environment. Excellence in customer service includes a reduction in call answer times, reduced customer hold times and a decrease in the number of customer complaints. There is significant proof that the physical layout of a call center actually creates a significant impact on its overall and individual performances. This project is needed so the performance of staff can be maximized.

Justification:

The Mayor and Council, City Manager, City Staff and customer agree that achieving excellence in customer service is a priority.

City-Wide Priorities: Customer Service, and Health and Safety.

Project ID: W220
Start Date: 7/16
End Date: 6/20
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Environmental Services Fund	0.0	1,000.0	0.0	1,000.0	0.0	0.0	0.0	0.0	1,000.0	0.0	1,000.0
Tucson Water Revenue and Operations Fund	69.1	0.0	1,407.6	1,407.6	2,141.0	0.0	0.0	0.0	3,548.6	0.0	3,617.7
Water Revenue System Obligation Fund 2017	381.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	381.0
Water Revenue System Obligation Fund 2018	0.0	0.0	14.4	14.4	0.0	0.0	0.0	0.0	14.4	0.0	14.4
Total	450.1	1,000.0	1,422.0	2,422.0	2,141.0	0.0	0.0	0.0	4,563.0	0.0	5,013.1

Extensions for New Services

Description:
Design and install minor extensions from the distribution system as requested by customers and upon customer payment of associated costs. This project ensures that piping is suitable in strength and durability and is available to connect to the distribution system.

Justification:
Extensions allow Tucson Water to install (or upgrade piping in order to install) new services in an expedient manner.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W107
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0
Tucson Water Revenue and Operations Fund	0.0	0.0	39.0	39.0	113.0	114.0	116.0	118.0	500.0	0.0	500.0
Water Revenue System Obligation Fund 2018	0.0	0.0	70.0	70.0	0.0	0.0	0.0	0.0	70.0	0.0	70.0
Total	0.0	0.0	109.0	109.0	113.0	114.0	116.0	118.0	570.0	500.0	1,070.0

F-001 & F-003 Tank Rehab

Description:
Rehabilitate steel storage tanks and well sites F-001 & F-003. Re-line and re-coat both existing steel storage tanks.

Justification:
Modify and improve safety, control and operational features as required.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W313
Start Date: 7/17
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	22.0	0.0	195.0	195.0	0.0	0.0	0.0	0.0	195.0	0.0	217.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	22.0	0.0	295.0	295.0	0.0	0.0	0.0	0.0	295.0	0.0	317.0

Facility Safety and Security Infrastructure

Description:

Implementation of an enterprise-wide security system for Tucson Water. This project will include ongoing security analysis, acquisition and installation of security system hardware and software, video cameras, and sensor equipment, as well as building modifications including wiring, access card reader installations and remodel work.

Justification:

This long-range project will provide security for approximately 794 parcels owned by Tucson Water.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Health and Safety.

Project ID: W381
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5,000.0	5,000.0
Tucson Water Revenue and Operations Fund	0.0	0.0	247.0	247.0	1,127.0	1,139.0	1,159.0	1,175.0	4,847.0	0.0	4,847.0
Water Revenue System Obligation Fund 2018	0.0	0.0	300.0	300.0	0.0	0.0	0.0	0.0	300.0	0.0	300.0
Total	0.0	0.0	547.0	547.0	1,127.0	1,139.0	1,159.0	1,175.0	5,147.0	5,000.0	10,147.0

Filtration Modifications at Reclaimed Plant

Description:

Expansion of filters for the Roger Road Reclaimed Water Plant, required because Pima County permitted its new "Agua Nueva" wastewater treatment plant as a B+ facility. The existing filter plant will be reconfigured, increasing capacity from 10 million gallons per day (MGD) to 15 MGD with a provision to expand to 20 MGD. The wetwell will be expanded as a separate project (W049).

Justification:

This will provide additional reliability for the reclaimed plant. Needed programming upgrades will be coordinated with ongoing Supervisory Control and Data Acquisition (SCADA) work.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W774
Start Date: 7/10
End Date: 6/20
Location: Ward 1

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	193.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	193.9
2011 Water Revenue System Obligation Fund	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.4
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,547.0	0.0	0.0	0.0	1,547.0	0.0	1,547.0
Tucson Water Revenue and Operations Fund	236.0	0.0	194.0	194.0	0.0	0.0	0.0	0.0	194.0	0.0	430.0
Water Revenue System Obligation Fund 2012	12.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.4
Water Revenue System Obligation Fund 2013	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
Water Revenue System Obligation Fund 2014	118.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.7
Water Revenue System Obligation Fund 2015	422.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	422.3
Water Revenue System Obligation Fund 2016	121.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.8
Water Revenue System Obligation Fund 2017	1,290.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,290.0
Water Revenue System Obligation Fund 2018	0.0	0.0	900.0	900.0	0.0	0.0	0.0	0.0	900.0	0.0	900.0
Total	2,409.0	0.0	1,094.0	1,094.0	1,547.0	0.0	0.0	0.0	2,641.0	0.0	5,050.0

Fire Hydrants in Annexation Areas

Description:

On-going installation of fire hydrants in areas of annexation. The City of Tucson is annexing various adjacent and outlying areas, some of which do not have fire service.

Justification:

The City of Tucson is annexing various adjacent and outlying areas, some of which do not have fire service. As a condition of annexation, fire service may be required and 6-inch fire hydrants will need to be installed at locations specified by the Tucson Fire Department.

City-Wide Priorities: Economic Development, Customer Service and Health and Safety.

Project ID: W163
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0
Tucson Water Revenue and Operations Fund	0.0	0.0	109.0	109.0	113.0	114.0	116.0	118.0	570.0	0.0	570.0
Total	0.0	0.0	109.0	109.0	113.0	114.0	116.0	118.0	570.0	500.0	1,070.0

Fire Services

Description:

Design and install fire hydrants and fire sprinkler service connections in areas needed upon customer request and payment of connection fees. This project is required to provide for the installation of new fire hydrants and fire services to customers upon request.

Justification:

As a condition of annexation, fire service may be required and 6-inch fire hydrants will need to be installed at locations specified by the Tucson Fire Department.

City-Wide Priorities: Customer Service and Health and Safety.

Project ID: W124
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8,750.0	8,750.0
Tucson Water Revenue and Operations Fund	0.0	0.0	1,014.0	1,014.0	1,972.0	1,994.0	2,029.0	2,057.0	9,066.0	0.0	9,066.0
Water Revenue System Obligation Fund 2018	0.0	0.0	900.0	900.0	0.0	0.0	0.0	0.0	900.0	0.0	900.0
Total	0.0	0.0	1,914.0	1,914.0	1,972.0	1,994.0	2,029.0	2,057.0	9,966.0	8,750.0	18,716.0

Gas Engines

Description:

This project will install five natural gas engines per year in the CAVSARP wellfield area. The current engines are approaching the 100,000 hour service life span.

Justification:

The upgraded engines will have the latest technology needed to meet the emissions control permit requirements, making it more cost effective and advantageous to upgrade to new engines rather than rebuild the existing engines.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W140
Start Date: 7/14
End Date: 6/22
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	869.0	0.0	869.0	0.0	869.0
Tucson Water Revenue and Operations Fund	849.7	0.0	720.0	720.0	845.0	855.0	0.0	0.0	2,420.0	0.0	3,269.7
Water Revenue System Obligation Fund 2014	656.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	656.2
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	1,505.9	0.0	820.0	820.0	845.0	855.0	869.0	0.0	3,389.0	0.0	4,894.9

Glenn Street Reclaimed Main, Craycroft to Swan

Description:

Removal and replacement of 3,850 feet of the deteriorated 30-inch reclaimed main and line two drop sections. Replacement pipe will be 24-inch ductile iron pipe.

Justification:

The Glenn Street main has seen multiple failures over the last decade. In 2017 alone, there were three major breaks and repairs. The replacement is necessary.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W330
Start Date: 7/17
End Date: 6/19
Location: Ward 6

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	321.2	0.0	371.0	371.0	0.0	0.0	0.0	0.0	371.0	0.0	692.2
Water Revenue System Obligation Fund 2017	2,110.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,110.0
Water Revenue System Obligation Fund 2018	0.0	0.0	1,500.0	1,500.0	0.0	0.0	0.0	0.0	1,500.0	0.0	1,500.0
Total	2,431.2	0.0	1,871.0	1,871.0	0.0	0.0	0.0	0.0	1,871.0	0.0	4,302.2

Goebel Avenue Distribution Main

Description:

Tap existing 24-inch distribution main with a new 6-inch main. Install 6-inch main across Speedway on Goebel, approximately 400 feet. Connect two existing potable water services to new 6-inch main. Connect existing fire service to new main. All services are for a 3-story apartment complex. Speedway is under moratorium until June 2020.

Justification:

The pipeline is required to remedy inadequate system pressure in the area. Presently, the water system is hobbled and operating very inefficiently.

City-wide Priorities: Economic Development, Customer Service and Health and Safety.

Project ID: W211
Start Date: 7/19
End Date: 6/21
Location: Ward 2

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Obligation Bonds	0.0	0.0	0.0	0.0	28.0	100.0	0.0	0.0	128.0	0.0	128.0
Total	0.0	0.0	0.0	0.0	28.0	100.0	0.0	0.0	128.0	0.0	128.0

H-002A Well Re-Drilling**Description:**

Drill and case a replacement for well H-002A in order to provide reliability to the Corona de Tucson isolated system. The existing well casing has already been patched and a latex liner installed. The replacement well will be drilled and cased to 1,000 feet below land surface with stainless steel to prevent corrosion.

Justification:

A gradual deterioration of well H-002A has been observed due to the end of its useful life cycle.

City-Wide Priorities: Economic Development, Improves Operating Efficiency and Reliability and Customer Service.

Project ID: W271
Start Date: 7/20
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	570.0	0.0	0.0	570.0	0.0	570.0
Total	0.0	0.0	0.0	0.0	0.0	570.0	0.0	0.0	570.0	0.0	570.0

H-002A Well Re-Equipping**Description:**

Design and re-equip well H-002A, replacing electrical and control equipment and all necessary upgrades.

Justification:

All replacing and upgrades are necessary.

City-Wide Priorities: Economic Development, Improve Operating Efficiency and Reliability, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W272
Start Date: 7/20
End Date: 6/22
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	57.0	522.0	0.0	579.0	0.0	579.0
Total	0.0	0.0	0.0	0.0	0.0	57.0	522.0	0.0	579.0	0.0	579.0

H-005 Well Collector Line										Project ID: W263	
Description:										Start Date: 7/20	
Design and install approximately 5,280 linear feet of 24-inch pipeline including appurtenances to convey water from well H-005 into the Santa Rita Bel Air isolated system.										End Date: 6/22	
Justification:										Location: County	
The project is to convey water from well H-005 into the Santa Rita Bel Air isolated system.											
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	57.0	1,449.0	0.0	1,506.0	0.0	1,506.0
Total	0.0	0.0	0.0	0.0	0.0	57.0	1,449.0	0.0	1,506.0	0.0	1,506.0

H-005 Well Drilling										Project ID: W261	
Description:										Start Date: 7/20	
Drill and case well H-005 to 1,000 feet below land surface with stainless steel in order to prevent corrosion.										End Date: 6/21	
Justification:										Location: County	
Well H-005 will provide additional water supply to the Santa Rita Bel Air isolated system and will allow a level of redundancy in the event of failure or maintenance of other wells of the system.											
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	1,139.0	0.0	0.0	1,139.0	0.0	1,139.0
Total	0.0	0.0	0.0	0.0	0.0	1,139.0	0.0	0.0	1,139.0	0.0	1,139.0

H-005 Well Equipping										Project ID: W262	
Description:										Start Date: 7/20	
Design and equip well H-005 to pump 1,000 gallons per minute, providing all necessary electrical and control equipment. Well H-005 will be located in the Santa Rita Bel Air isolated system.										End Date: 6/22	
Justification:										Location: County	
It will be drilled and equipped in order to provide additional water supply and reliability to the Corona de Tucson isolated system.											
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	57.0	522.0	0.0	579.0	0.0	579.0
Total	0.0	0.0	0.0	0.0	0.0	57.0	522.0	0.0	579.0	0.0	579.0

H-1 Ironwood PRV Station Bailey Valve Replacements										Project ID: W255	
Description:										Start Date: 7/18	
Replace two (2) PRVs which are more than 35 years old and beyond their operating service life expectancy. These are the last of the four (4) high PRVs that deliver renewable water supplies to our system, wheeling Central Arizona Project (CAP) water to Inter-Governmental Agency (IGA) customers.										End Date: 6/20	
Justification:										Location: County	
Deliver renewable water supplies.											
City-wide Priorities: Maintenance and Renovation of Existing City Assets, Customer Service, and Health and Safety.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	51.0	0.0	0.0	0.0	51.0	0.0	51.0
Tucson Water Revenue and Operations Fund	0.1	0.0	156.0	156.0	0.0	0.0	0.0	0.0	156.0	0.0	156.1
Water Revenue System Obligation Fund 2016	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	0.5	0.0	356.0	356.0	51.0	0.0	0.0	0.0	407.0	0.0	407.5

Harrison Road 12-Inch Transmission Main

Description:

Install 4,600 feet of 12-inch main along Harrison Road connecting near Camino Aurelia and near Grantham. The current transmission main from Sycamore Canyon reservoir to Santa Rita Ranch booster is undersized. During high flow events, head losses through this main can reach over 80 feet. This new 12-inch transmission main loop will decrease losses by about 20 feet and stabilize suction pressure at the booster station. This main will also improve water quality by improving turnover in Sycamore Canyon Reservoir.

Project ID: W295
Start Date: 7/17
End Date: 6/19
Location: County

Justification:

Decrease losses and stabilized suction pressure at the booster station.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	55.0	0.0	369.0	369.0	0.0	0.0	0.0	0.0	369.0	0.0	424.0
Water Revenue System Obligation Fund 2018	0.0	0.0	350.0	350.0	0.0	0.0	0.0	0.0	350.0	0.0	350.0
Total	55.0	0.0	719.0	719.0	0.0	0.0	0.0	0.0	719.0	0.0	774.0

Hayden Udall Fuel System

Description:

Install a new fueling system at Hayden Udall site. The new system will support the needs of over 96 vehicles permanently assigned to Hayden Udall site. Currently the closest fuel station is located approximately 10 miles from Hayden Udall.

Project ID: W352
Start Date: 7/19
End Date: 6/20
Location: City

Justification:

The new system will provide convenience and easy accessibility, eliminating driver down time.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	789.0	0.0	0.0	0.0	789.0	0.0	789.0
Tucson Water Revenue and Operations Fund	0.0	0.0	25.0	25.0	0.0	0.0	0.0	0.0	25.0	0.0	25.0
Water Revenue System Obligation Fund 2018	0.0	0.0	30.0	30.0	0.0	0.0	0.0	0.0	30.0	0.0	30.0
Total	0.0	0.0	55.0	55.0	789.0	0.0	0.0	0.0	844.0	0.0	844.0

Houghton Road Reclaimed Reservoir

Description:

Design and construct solutions to increase site security, redesign the reservoir roof for water-tightness, add a new roof and structural upgrades.

Justification:

Site work will be performed to address access road repairs and general site renewal.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W135
Start Date: 7/14
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	126.2	0.0	844.0	844.0	0.0	0.0	0.0	0.0	844.0	0.0	970.2
Water Revenue System Obligation Fund 2014	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Water Revenue System Obligation Fund 2015	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7
Water Revenue System Obligation Fund 2016	55.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.7
Water Revenue System Obligation Fund 2018	0.0	0.0	2,000.0	2,000.0	0.0	0.0	0.0	0.0	2,000.0	0.0	2,000.0
Total	184.7	0.0	2,844.0	2,844.0	0.0	0.0	0.0	0.0	2,844.0	0.0	3,028.7

Iowa Distribution Main, Spencer Rd to Sunset

Description:

Install approximately 450 feet of 6-inch main on Iowa Street between Spencer Road and Sunset Boulevard to connect a critical main in the CZ Water Service Area (WSA).

Justification:

The project will improve the CZ WSA distribution system and fire flow capacity.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W324
Start Date: 7/18
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	0.0	0.0	0.0	0.0	55.0	0.0	55.0

Irvington Distribution Main, Cardinal to Moonstar

Description:

Install approximately 400 feet of 6-inch main on Irvington Road from Cardinal Avenue to Moonstar Trail and a 2-inch air release valve on Irvington to Cardinal.

Justification:

This project will improve distribution system reliability and fire flow reliability in the area and will address air accumulation in the water mains.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W329
Start Date: 7/18
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	0.0	0.0	0.0	0.0	55.0	0.0	55.0

La Estancia 24-Inch Transmission Main Phase I

Description:

Install 200 feet of 12-inch main and 200 feet of 16-inch main to replace existing 8-inch main which will be abandoned. Jack and bore 400 feet of 24-inch main across I-10 which will extend into a common area on the North side of I-10. These mains will be connected to existing mains to provide water availability for economic development in three water service areas.

Justification:

The project will provide needed water reliability to the G2 water service area.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W286
Start Date: 7/17
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	22.0	0.0	170.0	170.0	0.0	0.0	0.0	0.0	170.0	0.0	192.0
Water Revenue System Obligation Fund 2018	0.0	0.0	300.0	300.0	0.0	0.0	0.0	0.0	300.0	0.0	300.0
Total	22.0	0.0	470.0	470.0	0.0	0.0	0.0	0.0	470.0	0.0	492.0

La Estancia 24-Inch Transmission Main Phase II

Description:

Install approximately 2,300 linear feet of 24-inch transmission main through the La Estancia De Tucson subdivision to provide additional flow to the Kolb E zone reservoir and E to F zone booster station. The 24-inch transmission main from phase I will connect the Kolb booster station. Some easement land will need to be purchased. An existing communication easement and common area can be used.

Justification:

The project will provide needed water reliability to the G2 water service area.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W287
Start Date: 7/17
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	55.0	0.0	211.0	211.0	0.0	0.0	0.0	0.0	211.0	0.0	266.0
Water Revenue System Obligation Fund 2018	0.0	0.0	500.0	500.0	0.0	0.0	0.0	0.0	500.0	0.0	500.0
Total	55.0	0.0	711.0	711.0	0.0	0.0	0.0	0.0	711.0	0.0	766.0

La Paloma Reclaimed Reservoir Rehabilitation

Description:

Inspection of the existing reservoir show indication of deterioration, structural deficiencies and water tightness concerns which need to be addressed. The primary concern is cracking and spalling of the pre-stressed concrete roof panels and bearing area for these panels.

Justification:

Maintenance of the reservoir is necessary.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W310
 Start Date: 7/21
 End Date: 6/21
 Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	113.0	2,963.0	0.0	0.0	3,076.0	0.0	3,076.0
Total	0.0	0.0	0.0	0.0	113.0	2,963.0	0.0	0.0	3,076.0	0.0	3,076.0

Magee Road (410E) PRV Replacement

Description:

Installation of solar SCADA to monitor flow and water pressures of the new 8-inch PRV which is the sole source of water for approximately 1,300 customers.

Justification:

SCADA will allow quicker response to maintenance issues.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W181
 Start Date: 7/20
 End Date: 6/21
 Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	85.0	0.0	0.0	85.0	0.0	85.0
Total	0.0	0.0	0.0	0.0	0.0	85.0	0.0	0.0	85.0	0.0	85.0

Manzanita Tank Lining

Description:

Design and construct a new liner at the Manzanita steel tank.

Justification:

The coatings and linings of the tank have reached the end of their service life and require replacement to prevent accelerated deterioration of the tank.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W054
Start Date: 7/16
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	38.6	0.0	670.0	670.0	0.0	0.0	0.0	0.0	670.0	0.0	708.6
Water Revenue System Obligation Fund 2012	58.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	58.7
Water Revenue System Obligation Fund 2014	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	98.7	0.0	720.0	720.0	0.0	0.0	0.0	0.0	720.0	0.0	818.7

Maryvale Manor Subdivision, Phase I

Description:

Design and install 6,000 feet of 6-inch water main in alleyways, replacing the 3-inch mains in the Maryvale Manor Subdivision bordered by Craycroft Road, 29th Street, Sahuara Avenue and Golf Links Road. This area has been identified as having an average amount of main break records by Tucson Water's Customer Service and Maintenance Divisions. This project will replace approximately 300 water service lines.

Justification:

Much of the pipe in this neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W791
Start Date: 7/12
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	33.8	0.0	319.0	319.0	0.0	0.0	0.0	0.0	319.0	0.0	352.8
Water Revenue System Obligation Fund 2012	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.3
Water Revenue System Obligation Fund 2013	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
Water Revenue System Obligation Fund 2014	5.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7
Water Revenue System Obligation Fund 2017	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Water Revenue System Obligation Fund 2018	0.0	0.0	600.0	600.0	0.0	0.0	0.0	0.0	600.0	0.0	600.0
Total	99.7	0.0	919.0	919.0	0.0	0.0	0.0	0.0	919.0	0.0	1,018.7

Maryvale Manor Subdivision, Phase III

Description:

Design and install approximately 4,450 feet of 6-inch pipe and 1,000 feet of 8-inch pipe in 34th, 35th, 36th Street, Van Buren and Sahuara Avenue. This project will relocate 58 water meters from alleys into streets.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in this neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Customer Service, Health and Safety, and Maintenance and Renovation of Existing City Assets.

Project ID: W846
Start Date: 7/11
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2011 Water Revenue System Obligation Fund	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.5
Tucson Water Revenue and Operations Fund	6.9	0.0	15.0	15.0	530.0	0.0	0.0	0.0	545.0	0.0	551.9
Water Revenue System Obligation Fund 2012	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.0
Water Revenue System Obligation Fund 2013	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.3
Water Revenue System Obligation Fund 2014	29.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.9
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	76.6	0.0	55.0	55.0	530.0	0.0	0.0	0.0	585.0	0.0	661.6

Meter Upgrade and Replacement Program

Description:

Upgrade and install replacement meters system-wide on an annual basis. New meters include advanced technology which improves efficiencies in collecting data and customer service.

Justification:

Older meters become inefficient and tend to under-read water usage and affect compliance with water loss regulations.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W435
Start Date: 7/04
End Date: 6/22
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	332.0	332.0	4,507.0	3,418.0	3,478.0	0.0	11,735.0	0.0	11,735.0
Water Revenue System Obligation Fund 2018	0.0	0.0	4,000.0	4,000.0	0.0	0.0	0.0	0.0	4,000.0	0.0	4,000.0
Total	0.0	0.0	4,332.0	4,332.0	4,507.0	3,418.0	3,478.0	0.0	15,735.0	0.0	15,735.0

Miscellaneous Land and Right-of-Way Acquisitions

Description:

Budget capacity for preliminary real estate services necessary prior to determining the feasibility of a well, booster station, reservoir, or pipeline project. Services include the determination of the need for, and acquisition of, right-of-way or easements.

Justification:

This project saves public money by determining the suitability of particular sites or routes prior to investing money in place-based design.

City-Wide Priorities: Economic Development.

Project ID: W126
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0
Tucson Water Revenue and Operations Fund	38.7	0.0	6.0	6.0	11.0	11.0	12.0	12.0	52.0	0.0	90.7
Water Revenue System Obligation Fund 2018	0.0	0.0	5.0	5.0	0.0	0.0	0.0	0.0	5.0	0.0	5.0
Total	38.7	0.0	11.0	11.0	11.0	11.0	12.0	12.0	57.0	50.0	145.7

Nebraska Road Distribution Main										Project ID: W175	
Description: Install 2,100 feet of 8-inch main on Nebraska Road from Sunset to 800 feet west of Spencer, connecting to the existing 2-inch main.										Start Date: 7/19	
Justification: This distribution main will replace two vault PRVs (Spencer and Sheridan). The main will be in the Nebraska Road (unpaved) Right-of-Way. New customers will be added to this main.										End Date: 6/20	
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.										Location: County	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	282.0	0.0	0.0	0.0	282.0	0.0	282.0
Tucson Water Revenue and Operations Fund	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
Total	0.8	0.0	0.0	0.0	282.0	0.0	0.0	0.0	282.0	0.0	282.8

New Metered Services										Project ID: W131	
Description: Install new metered reclaimed water services upon customer request and payment of connection fees.										Start Date: Annual	
Justification: This project allows for the installation of new metered reclaimed water services upon customer request.										End Date: Annual	
City-Wide Priorities: Economic Development and Customer Service.										Location: City and County	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	250.0	250.0
Tucson Water Revenue and Operations Fund	161.5	0.0	15.0	15.0	56.0	57.0	58.0	59.0	245.0	0.0	406.5
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	161.5	0.0	55.0	55.0	56.0	57.0	58.0	59.0	285.0	250.0	696.5

North Satellite Mustering Room Expansion

Description:

Assess, design and construct an expansion of the North Satellite Mustering Room. A new 9 feet by 8 feet porch entry will be created, and the existing 8 foot by 23 foot porch will be enclosed, building East 25 feet by 32 feet.

Justification:

The North Satellite Maintenance building has very limited space for the employees assigned to the North area. When management staff meet with the group or when training is provided it is standing room only

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W259
Start Date: 7/17
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	165.0	0.0	133.0	133.0	0.0	0.0	0.0	0.0	133.0	0.0	298.0
Water Revenue System Obligation Fund 2018	0.0	0.0	250.0	250.0	0.0	0.0	0.0	0.0	250.0	0.0	250.0
Total	165.0	0.0	383.0	383.0	0.0	0.0	0.0	0.0	383.0	0.0	548.0

Old Vail 36-Inch Transmission Main Alvernon to Wilmot

Description:

Install 3.5 miles of 36-inch main from Alvernon and Aerospace to Wilmot Road with two tapping sleeves and valves, a zone boundary valve for a new D-E booster station and air release valves on both sides of all wash crossings. This main will be connected to the existing E zone 36-inch main in Wilmot Road.

Justification:

This project will allow water to be conveyed from Alvernon and Aerospace to the Old Vail booster station, helping to provide water availability for economic development in the area.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W301
Start Date: 7/22
End Date: 6/24
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.0	118.0	6,700.0	6,818.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.0	118.0	6,700.0	6,818.0

Old Vail Steel Tank Upgrades (Rehabilitation)

Description:

Design and construct improvements to the Old Vail Steel Tank which include the design and construction of a back-up storage tank. The interior and exterior of the 200,000 gallon tank will also be relined and relocated.

Justification:

Failure to rehabilitate this tank, and provide back-up storage will result in failure of the tanks ability to hold water. This will result in the inability to adequately serve customers in the area, as we will be unable to provide needed fire flow to customers.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W168
Start Date: 7/15
End Date: 6/19
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	348.1	0.0	24.0	24.0	0.0	0.0	0.0	0.0	24.0	0.0	372.1
Water Revenue System Obligation Fund 2015	108.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.7
Water Revenue System Obligation Fund 2016	183.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	183.8
Water Revenue System Obligation Fund 2017	1,058.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,058.0
Water Revenue System Obligation Fund 2018	0.0	0.0	10.0	10.0	0.0	0.0	0.0	0.0	10.0	0.0	10.0
Total	1,698.6	0.0	34.0	34.0	0.0	0.0	0.0	0.0	34.0	0.0	1,732.6

Online Water Quality Monitoring Network Upgrade

Description:

The current water quality monitoring system consists of 30 stations that measure chlorine, pH, temperature, conductivity and total dissolved solids. These measurements are readily accessible to Tucson Water customers at any time. The project will allow to replace equipment continuously and as needed.

Justification:

The majority of the equipment needs upgrading since maintaining aging assets is challenging due to lack of spare parts and materials.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W354
Start Date: 7/19
End Date: 6/22
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	238.0	238.0	451.0	456.0	464.0	0.0	1,609.0	0.0	1,609.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	0.0	0.0	438.0	438.0	451.0	456.0	464.0	0.0	1,809.0	0.0	1,809.0

Payments to Developers for Oversized Systems

Project ID: W108
Start Date: Annual
End Date: Annual
Location: City and County

Description:

Reimburse developers for the cost of oversizing water system components (pipes, mains, and boosters) when Tucson Water requests a capacity greater than needed by the development.

Justification:

Oversizing is sometimes required to supply future projected demands consistent with Tucson Water's long range planning and to avoid more expensive replacement in the future, after buildings and streets are constructed.

City-Wide Priorities: Economic Development and Customer Service.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0
Tucson Water Revenue and Operations Fund	205.7	0.0	49.0	49.0	113.0	114.0	116.0	118.0	510.0	0.0	715.7
Water Revenue System Obligation Fund 2018	0.0	0.0	60.0	60.0	0.0	0.0	0.0	0.0	60.0	0.0	60.0
Total	211.3	0.0	109.0	109.0	113.0	114.0	116.0	118.0	570.0	500.0	1,281.3

Pima Mine Road Production Well Drilling

Project ID: W166
Start Date: 7/20
End Date: 6/21
Location: County

Description:

Drilling of three production wells at Pima Mine Road, which will assist the utility in reaching its goal of 20 million gallons a day of production capacity from the Santa Cruz Wellfield.

Justification:

These wells will ensure water levels remain below the alert levels for the underground storage facility permit and help resolve water quality issues in the Santa Cruz Well Field. Each well will be between 500 and 600 feet below land surface and eventually be equipped to pump approximately 1,500 gallons per minute.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	2,849.0	0.0	0.0	2,849.0	0.0	2,849.0
Total	0.0	0.0	0.0	0.0	0.0	2,849.0	0.0	0.0	2,849.0	0.0	2,849.0

Pima Mine Road Well Equipping (3)

Description:

Design and install three production well pumps, control buildings and surface piping in production wells drilled at the Pima Mine Road Recharge Project. Estimated production is 1,500 gallons per minute per well.

Justification:

These wells will ensure water levels remain below the alert levels for the underground storage facility permit and help resolve water quality issues in the Santa Cruz Wellfield.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W195
Start Date: 7/21
End Date: 6/23
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	174.0	1,410.0	1,584.0	0.0	1,584.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	174.0	1,410.0	1,584.0	0.0	1,584.0

Plant 1 Building 3 Remodeling

Description:

Remodel and renovate all 4,000 interior square feet of Building 3 at Plant 1, expanding office square footage and meeting technology and growth of a changing workforce. Remodeling plans in Building 1 (W156) include a new larger assembly room to seat 200 people, have WI-FI and internet capabilities to allow routine meetings, emergency response and large training venue.

Justification:

This project is needed to meet standards for mustering and technology office environments.

City-wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W201
Start Date: 7/17
End Date: 6/20
Location: Ward 5

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	169.0	0.0	0.0	0.0	169.0	0.0	169.0
Tucson Water Revenue and Operations Fund	5.0	0.0	197.1	197.1	0.0	0.0	0.0	0.0	197.1	0.0	202.1
Water Revenue System Obligation Fund 2017	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Water Revenue System Obligation Fund 2018	0.0	0.0	21.9	21.9	0.0	0.0	0.0	0.0	21.9	0.0	21.9
Total	55.0	0.0	219.0	219.0	169.0	0.0	0.0	0.0	388.0	0.0	443.0

Plant 1 Miscellaneous Improvements

Description:

Professional services to design metal shade canopies for buildings 10 and 11. New parking lot layouts will be configured with secured vehicle and pedestrian gates, a women's restroom will be added, men's restroom updated and cooling efficiencies accomplished. ADA deficiencies will be corrected for compliance. Professional services are also required for construction documents and construction oversight. Other costs include permitting and construction.

Project ID: W202
Start Date: 7/18
End Date: 6/21
Location: Wards 5 and 6

Justification:

This project is needed to correct ADA deficiencies and meet the technology and growth of a changing work force.

City-wide Priorities: Maintenance and Renovation of Existing City Assets, and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	113.0	57.0	0.0	0.0	170.0	0.0	170.0
Tucson Water Revenue and Operations Fund	2.4	0.0	34.0	34.0	0.0	0.0	0.0	0.0	34.0	0.0	36.4
Water Revenue System Obligation Fund 2018	0.0	0.0	75.0	75.0	0.0	0.0	0.0	0.0	75.0	0.0	75.0
Total	2.4	0.0	109.0	109.0	113.0	57.0	0.0	0.0	279.0	0.0	281.4

Plant 1 New Meter Shop

Description:

Design and construct a new building structure of approximately 4,800 square feet for properly sized meter shop offices, repair and testing areas, support spaces and ADA compliant restrooms. Project costs include professional services to design the new building, provide construction documents and construction oversight. Other costs include permitting, construction, furniture and equipment.

Project ID: W203
Start Date: 7/17
End Date: 6/20
Location: Ward 5

Justification:

The existing 2,700 square foot Meter Shop in Building 2 at Plant 1 is cramped and undersized for staff and essential activities.

City-wide Priorities: Customer Service, and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	901.0	0.0	0.0	0.0	901.0	0.0	901.0
Tucson Water Revenue and Operations Fund	10.0	0.0	59.0	59.0	0.0	0.0	0.0	0.0	59.0	0.0	69.0
Water Revenue System Obligation Fund 2017	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	110.0	0.0	109.0	109.0	901.0	0.0	0.0	0.0	1,010.0	0.0	1,120.0

Pressure Tank Replacement

Description:

Design and construct replacement pressure tanks at water wells and booster stations. As funds become available, on an annual basis, uncertified tanks will be replaced and the remaining uncertified tanks prioritized.

Justification:

Safety requirements mandate tank replacement for those not meeting code or lacking certification from the American Society of Mechanical Engineers.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W075
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	342.0	342.0	507.0	513.0	522.0	529.0	2,413.0	2,250.0	4,663.0
Water Revenue System Obligation Fund 2018	0.0	0.0	150.0	150.0	0.0	0.0	0.0	0.0	150.0	0.0	150.0
Total	0.0	0.0	492.0	492.0	507.0	513.0	522.0	529.0	2,563.0	2,250.0	4,813.0

Production Well Sites

Description:

Acquire property for new production well sites.

Justification:

Well sites are needed to meet future demand and to replace obsolete wells.

City-Wide Priorities: Economic Development and Customer Service.

Project ID: W087
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	82.0	82.0	85.0	85.0	87.0	88.0	427.0	375.0	802.0
Total	0.0	0.0	82.0	82.0	85.0	85.0	87.0	88.0	427.0	375.0	802.0

Pumping Plant Improvements										Project ID: W343	
Description:										Start Date: 7/20	
This is on-going project that will allow to repair and/or replace pumping facilities including pressure reducing valves and controls of potable and reclaimed water systems.										End Date: 6/23	
Justification:										Location: City and County	
The repair and replacement is necessary for the function of the water system.											
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	1,782.0	1,159.0	0.0	2,941.0	4,000.0	6,941.0
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	497.0	0.0	2,351.0	2,848.0	0.0	2,848.0
Total	0.0	0.0	0.0	0.0	0.0	2,279.0	1,159.0	2,351.0	5,789.0	4,000.0	9,789.0

Relocate Anklam Road (2000 W) PRV										Project ID: W170	
Description:										Start Date: 7/20	
Relocate the current pressure reducing valve (PRV) and construct an above ground 6-inch C-A PRV at the La Cholla Booster Station. The supply and discharge mains will be 8-inch.										End Date: 6/21	
Justification:										Location: Ward 1	
The current PRV is located in a vault and the site has access issues. Relocating will improve operating efficiency, improve reliability, improve public service and resolve safety issues.											
City-Wide Priorities: Customer Service.											
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	199.0	0.0	0.0	199.0	0.0	199.0
Total	0.0	0.0	0.0	0.0	0.0	199.0	0.0	0.0	199.0	0.0	199.0

Relocate Camino De Los Ranchos PRV

Description:

Relocate the current pressure reducing valve (PRV) and construct an above ground 6-inch D-B PRV at the B-094 well site. Additionally, four private PRVs will be installed on Camino Real between B-094 and Camino de Los Ranchos.

Justification:

The current PRV is located in a vault and the site has access and safety issues. Relocating will improve operating efficiency, improve reliability, improve public service and resolve safety issues.

City-Wide Priorities: Customer Service.

Project ID: W171
Start Date: 7/18
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	111.0	111.0	0.0	0.0	0.0	0.0	111.0	0.0	111.0
Water Revenue System Obligation Fund 2018	0.0	0.0	80.0	80.0	0.0	0.0	0.0	0.0	80.0	0.0	80.0
Total	0.0	0.0	191.0	191.0	0.0	0.0	0.0	0.0	191.0	0.0	191.0

Relocate Craycroft Shadow Ridge PRV

Description:

Relocate the current pressure reducing valve (PRV) and construct an above ground 6-inch I-H PRV at the Craycroft Booster Station. Supply and discharge mains will be 8-inch. Approximately 300 feet of "H4" discharge main will be needed on Craycroft.

Justification:

The current PRV is located in a vault and the site has access and safety issues. Relocating will improve operating efficiency, reliability, public service and resolve safety issues.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W172
Start Date: 7/18
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	242.0	0.0	0.0	0.0	242.0	0.0	242.0
Tucson Water Revenue and Operations Fund	0.3	0.0	4.0	4.0	0.0	0.0	0.0	0.0	4.0	0.0	4.3
Water Revenue System Obligation Fund 2018	0.0	0.0	7.0	7.0	0.0	0.0	0.0	0.0	7.0	0.0	7.0
Total	0.3	0.0	11.0	11.0	242.0	0.0	0.0	0.0	253.0	0.0	253.3

Relocate Spencer PRV**Description:**

Construct a 6-inch D-C pressure reducing valve (PRV) to replace the PRV at the current site.

Justification:

The current PRV is located in a vault and the site has safety issues. Relocating and upgrading will improve operating efficiency, reliability, public service and resolves safety issues.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W198
Start Date: 7/17
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	169.0	0.0	0.0	0.0	169.0	0.0	169.0
Tucson Water Revenue and Operations Fund	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4
Total	3.4	0.0	0.0	0.0	169.0	0.0	0.0	0.0	169.0	0.0	172.4

Relocate Via Velazquez PRV**Description:**

Relocate and upgrade the current pressure reducing valve (PRV) to an above ground 6-inch F-D PRV near the current Via Velazquez site. Supply and discharge mains will be 8-inch. They will be connected to the 12-inch main in Via Velazquez Road. This site will need to have walls.

Justification:

The current PRV is located in a vault and the site has safety issues. Relocating and upgrading will improve operating efficiency, reliability, public service and resolves safety issues.

City-Wide Priorities: Customer Service and Health and Safety.

Project ID: W174
Start Date: 7/17
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	3.0	0.0	147.6	147.6	0.0	0.0	0.0	0.0	147.6	0.0	150.6
Water Revenue System Obligation Fund 2017	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Water Revenue System Obligation Fund 2018	0.0	0.0	16.4	16.4	0.0	0.0	0.0	0.0	16.4	0.0	16.4
Total	33.0	0.0	164.0	164.0	0.0	0.0	0.0	0.0	164.0	0.0	197.0

Reservoir and Tank Rehabilitation

Description:

Sequenced rehabilitation of 32 concrete reservoirs and 29 steel storage tanks varying in age and condition. All-inclusive rehabilitation of these vessels will ensure structural and foundation integrity, sanitary, safety and security compliance.

Justification:

This on-going comprehensive rehabilitation program will extend the life of Tucson Water's existing reservoir assets, prioritize rehabilitation activities, reduce water loss and protect water quality and public health.

City-wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W736
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	2,898.0	0.0	2,898.0	25,000.0	27,898.0
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,052.0	7,052.0	0.0	7,052.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	2,898.0	7,052.0	9,950.0	25,000.0	34,950.0

Responsive Meter Replacement

Description:

Budget capacity to replace meters that are not included in the ongoing residential meter replacement program.

Justification:

This project will increase efficiency and revenues by replacing meters that under-read or fail to read consumption properly, as they are discovered.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W716
Start Date: 7/07
End Date: 6/20
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	1,339.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,339.3
2011 Water Revenue System Obligation Fund	1,277.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,277.4
Tucson Water Revenue and Operations Fund	5,990.0	0.0	147.0	147.0	563.0	0.0	0.0	0.0	710.0	0.0	6,700.0
Water Revenue System Obligation Fund 2012	1,478.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,478.7
Water Revenue System Obligation Fund 2013	1,269.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,269.8
Water Revenue System Obligation Fund 2014	1,120.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,120.9
Water Revenue System Obligation Fund 2015	637.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	637.0
Water Revenue System Obligation Fund 2018	0.0	0.0	400.0	400.0	0.0	0.0	0.0	0.0	400.0	0.0	400.0
Total	13,113.1	0.0	547.0	547.0	563.0	0.0	0.0	0.0	1,110.0	0.0	14,223.1

Review Developer-Financed Potable Projects

Description:

Conduct plan reviews and construction inspection of developer financed water system infrastructure projects. Associated costs are recovered by fees paid by the developer. These systems are donated to Tucson Water upon completion.

Justification:

The review and inspection of developer-financed water system infrastructure projects ensure compliance with Tucson Water requirements.

City-Wide Priorities: Economic Development and Customer Service.

Project ID: W109
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4,750.0	4,750.0
Tucson Water Revenue and Operations Fund	0.0	0.0	339.0	339.0	1,070.0	1,082.0	1,101.0	1,117.0	4,709.0	0.0	4,709.0
Water Revenue System Obligation Fund 2018	0.0	0.0	700.0	700.0	0.0	0.0	0.0	0.0	700.0	0.0	700.0
Total	0.0	0.0	1,039.0	1,039.0	1,070.0	1,082.0	1,101.0	1,117.0	5,409.0	4,750.0	10,159.0

Rio De La Roma D-C PRV

Description:

Construct an 8-inch D-C pressure relief valve (PRV) on City of Tucson property near Rio de la Roma Street. It will allow part of the D4 WSA to become part of the CD WSA.

Justification:

This PRV is needed to address high water main pressure issues in the D4 Water Service Area (WSA). It will also add more fire protection to the area.

City-Wide Priorities: Customer Service, Economic Development, Maintenance and Renovation of Existing City Assets and Health and Safety.

Project ID: W267
Start Date: 7/18
End Date: 6/19
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	147.6	147.6	0.0	0.0	0.0	0.0	147.6	0.0	147.6
Water Revenue System Obligation Fund 2018	0.0	0.0	16.4	16.4	0.0	0.0	0.0	0.0	16.4	0.0	16.4
Total	0.0	0.0	164.0	164.0	0.0	0.0	0.0	0.0	164.0	0.0	164.0

Rita Road "F2" to "G2" Zone Booster Station

Description:

Construct a booster station of 1.5 million gallons per day capacity to provide renewable resources to meet water system demand in the Rita Ranch G-Zone area and to provide renewable water resources to wheel water to Vail. This project involves land acquisition, design, permitting, procurement and testing of pumps and associated equipment. Work includes, but is not limited to, pumps, motors, meters, valves, monitoring and controlling equipment, tank, control center rack, below and above ground pipe and other appurtenances.

Justification:

This booster station will provide renewable resources to meet water system demand in the Rita Ranch G-zone area and to provide renewable water resources to wheel water to Vail.

City-Wide Priorities: Economic Development and Customer Service.

Project ID: W200
Start Date: 7/18
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,352.0	0.0	0.0	0.0	1,352.0	0.0	1,352.0
Tucson Water Revenue and Operations Fund	0.0	0.0	147.6	147.6	0.0	0.0	0.0	0.0	147.6	0.0	147.6
Water Revenue System Obligation Fund 2018	0.0	0.0	16.4	16.4	0.0	0.0	0.0	0.0	16.4	0.0	16.4
Total	0.0	0.0	164.0	164.0	1,352.0	0.0	0.0	0.0	1,516.0	0.0	1,516.0

River Road 12-Inch Main

Description:

Design and install 5,500 feet of 12-inch pipe on River Road between Craycroft and Avenida Del Cazador. This main will connect to three existing main segments on River Road in its distribution capacity. In an emergency, this main will deliver C-zone well water to the Valley View Booster Station.

Justification:

This water main will serve as a redundancy C-zone distribution main and as an emergency transmission main when the Columbus 54-inch main is out of service.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W146
Start Date: 7/17
End Date: 6/19
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	3.0	0.0	256.0	256.0	0.0	0.0	0.0	0.0	256.0	0.0	259.0
Water Revenue System Obligation Fund 2017	30.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0
Water Revenue System Obligation Fund 2018	0.0	0.0	400.0	400.0	0.0	0.0	0.0	0.0	400.0	0.0	400.0
Total	33.0	0.0	656.0	656.0	0.0	0.0	0.0	0.0	656.0	0.0	689.0

Road Improvement Main Replacements

Description:

Relocate water mains during road improvement projects of the City of Tucson, Pima County, Arizona Department of Transportation and other agencies, including Regional Transportation Authority (RTA) projects. Intergovernmental agreements determine the City of Tucson cost allocation for each project.

Justification:

Replacing water mains during roadway projects allows Tucson Water to maintain system capacity while saving money on the cost of pavement removal and replacement.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W111
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	91.2	1,246.4	0.0	1,337.6	25,000.0	26,337.6
Tucson Water Revenue and Operations Fund	0.0	0.0	7,657.0	7,657.0	5,634.0	5,605.8	4,550.6	5,876.0	29,323.4	0.0	29,323.4
Total	0.0	0.0	7,657.0	7,657.0	5,634.0	5,697.0	5,797.0	5,876.0	30,661.0	25,000.0	55,661.0

Routine Main Replacements

Description:

Design and construct previously unidentified minor main replacements.

Justification:

The project will improve customer service.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W252
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	0.0	0.0	0.0	0.0	3,478.0	3,526.0	7,004.0	0.0	7,004.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	3,478.0	3,526.0	7,004.0	0.0	7,004.0

Sahuarita Supply Line Slipliner

Description:

Increase production from the Santa Cruz wellfields and provide additional flow conveyance to the Santa Cruz treatment facility, high-density polyethylene (HDPE) liner will be installed as follows: 1,430 feet of 32-inch from Martin Reservoir to Medina Street. and South Nogales Highway, 4,100 feet of 32-inch from Medina Street to Los Reales Road, 2,100 feet of 28-inch along Old Nogales Highway from connection point 32-inch HDPE Slipliner South to existing 30-inch line and 28,700 feet of 32-inch along South Nogales Highway from Los Reales Road to the abandoned 30-inch line along Old Nogales Highway.

Project ID: W796
Start Date: 7/12
End Date: 6/20
Location: Ward 1

Justification:

This project will increase the capacity available from the Santa Cruz Well Field.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,127.0	0.0	0.0	0.0	1,127.0	0.0	1,127.0
Tucson Water Revenue and Operations Fund	354.8	0.0	1,208.9	1,208.9	0.0	0.0	0.0	0.0	1,208.9	0.0	1,563.7
Water Revenue System Obligation Fund 2013	14.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.7
Water Revenue System Obligation Fund 2014	75.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.5
Water Revenue System Obligation Fund 2015	103.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	103.7
Water Revenue System Obligation Fund 2016	67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.0
Water Revenue System Obligation Fund 2017	1,760.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,760.7
Water Revenue System Obligation Fund 2018	0.0	0.0	5,759.1	5,759.1	0.0	0.0	0.0	0.0	5,759.1	0.0	5,759.1
Total	2,376.4	0.0	6,968.0	6,968.0	1,127.0	0.0	0.0	0.0	8,095.0	0.0	10,471.4

San Paulo Village Main Replacement Phase II

Description:

Design and install 12,200 feet of 6-inch pipe in Sahuara, 28th Street, 22nd Street, and Wilmot Road.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in the neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W041
Start Date: 7/17
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	10.0	0.0	540.0	540.0	0.0	0.0	0.0	0.0	540.0	0.0	550.0
Water Revenue System Obligation Fund 2017	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Water Revenue System Obligation Fund 2018	0.0	0.0	700.0	700.0	0.0	0.0	0.0	0.0	700.0	0.0	700.0
Total	110.0	0.0	1,240.0	1,240.0	0.0	0.0	0.0	0.0	1,240.0	0.0	1,350.0

San Paulo Village Main Replacement Phase III

Description:

Design and install 4,800 feet of 6-inch pipe in alleys near Alamo, 25th Street, 22nd Street, and Wilmot Road. This project will replace 3-inch water mains in alleys and 113 water service lines.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in the neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W071
Start Date: 7/17
End Date: 6/19
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	34.0	0.0	149.0	149.0	0.0	0.0	0.0	0.0	149.0	0.0	183.0
Water Revenue System Obligation Fund 2015	45.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.3
Water Revenue System Obligation Fund 2016	33.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	33.9
Water Revenue System Obligation Fund 2017	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Water Revenue System Obligation Fund 2018	0.0	0.0	300.0	300.0	0.0	0.0	0.0	0.0	300.0	0.0	300.0
Total	163.2	0.0	449.0	449.0	0.0	0.0	0.0	0.0	449.0	0.0	612.2

Santa Cruz River Heritage Project

Description:

Reclaimed water will move through existing infrastructure, providing for effluent discharges to the Santa Cruz River in the downtown area (a building block to allow riparian habitat creation). Water from the reclaimed distribution system will move through a motor operated valve and de-chlorination station to be deposited into the Santa Cruz River and the recharge aquifer.

Justification:

Providing a resource that will create a public amenity to enhance economic development and cultural and historical preservation while ensuring the long term viability of our water resources.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W350
Start Date: 7/17
End Date: 6/20
Location: City

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	2.0	0.0	891.0	891.0	2,253.0	0.0	0.0	0.0	3,144.0	0.0	3,146.0
Water Revenue System Obligation Fund 2017	158.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	158.0
Water Revenue System Obligation Fund 2018	0.0	0.0	750.0	750.0	0.0	0.0	0.0	0.0	750.0	0.0	750.0
Total	160.0	0.0	1,641.0	1,641.0	2,253.0	0.0	0.0	0.0	3,894.0	0.0	4,054.0

Santa Cruz Wellfield Chemical Feed/ Monitoring Facility

Description:

This project consists of land acquisition, design and construction of a Chemical Feed and Water Quality Monitoring Facility to provide pH adjustment, disinfection, and water quality monitoring through Supervisory Control and Data Acquisition (SCADA).

Justification:

This facility will ensure pH adjustment, disinfection, and water quality monitoring are performed in an integrated way in providing water to approximately 50,000 customers.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets.

Project ID: W759
Start Date: 7/09
End Date: 6/19
Location: City

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2009 Water Revenue System Obligation Fund	178.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	178.2
2010 Water Revenue System Obligation Fund	322.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	322.0
2011 Water Revenue System Obligation Fund	400.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.1
Tucson Water Revenue and Operations Fund	814.7	0.0	1,110.0	1,110.0	0.0	0.0	0.0	0.0	1,110.0	0.0	1,924.7
Water Revenue System Obligation Fund 2012	345.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	345.7
Water Revenue System Obligation Fund 2013	496.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	496.9
Water Revenue System Obligation Fund 2014	91.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.7
Water Revenue System Obligation Fund 2015	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0
Water Revenue System Obligation Fund 2016	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Water Revenue System Obligation Fund 2017	2,568.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,568.1
Water Revenue System Obligation Fund 2018	0.0	0.0	2,500.0	2,500.0	0.0	0.0	0.0	0.0	2,500.0	0.0	2,500.0
Total	5,220.3	0.0	3,610.0	3,610.0	0.0	0.0	0.0	0.0	3,610.0	0.0	8,830.3

Santa Cruz Well SC-001, SC-004, SC-014 Equipping

Description:

Equip production wells SC-001/SC-004/SC-014. Wells will be 16-inch diameter, stainless steel louvered screen and blank casing construction. Total depth will be between 500 and 600 feet.

Justification:

These wells will be equipped to pump approximately 1,000 gallons per minute each and will assist the utility's goal of reaching 20 million gallons per day of production capacity from the Santa Cruz Wellfield.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W189
Start Date: 7/17
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	169.0	1,367.0	0.0	0.0	1,536.0	0.0	1,536.0
Tucson Water Revenue and Operations Fund	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Total	0.1	0.0	0.0	0.0	169.0	1,367.0	0.0	0.0	1,536.0	0.0	1,536.1

SC-001 & SC-004 Well Transmission Lines

Project ID: W183
Start Date: 7/17
End Date: 6/21
Location: Ward 5

Description:

Install 2,400 feet of 12-inch and 200 feet of 16-inch PVC collector line, connecting to the 30-inch existing main.

Justification:

This collector line will allow wells SC-001 and SC-004 to convey water into the Tucson Water system.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	126.0	556.0	0.0	0.0	682.0	0.0	682.0
Tucson Water Revenue and Operations Fund	5.1	0.0	36.0	36.0	0.0	0.0	0.0	0.0	36.0	0.0	41.1
Water Revenue System Obligation Fund 2015	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
Water Revenue System Obligation Fund 2017	50.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0
Water Revenue System Obligation Fund 2018	0.0	0.0	30.0	30.0	0.0	0.0	0.0	0.0	30.0	0.0	30.0
Total	55.5	0.0	66.0	66.0	126.0	556.0	0.0	0.0	748.0	0.0	803.5

Supervisory Control and Data Acquisition (SCADA) Potable Upgrades

Description:

This SCADA project provides for the installation of field instrumentation, controllers, and communication equipment necessary to communicate water system flows, levels, and pressures to system operators. The existing Master Station hardware and software will be replaced with improved technology. The budget includes construction of a new control center in an existing Tucson Water facility which will allow control operations of the water system from a central location.

Justification:

The SCADA communication infrastructure is obsolete and needs to be updated.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W782
Start Date: 7/12
End Date: 6/22
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
2010 Water Revenue System Obligation Fund	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6
2011 Water Revenue System Obligation Fund	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9
Tucson Water Revenue and Operations Fund	6,897.0	0.0	688.0	688.0	5,972.0	6,039.0	2,319.0	0.0	15,018.0	0.0	21,915.0
Water Revenue System Obligation Fund 2012	124.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.3
Water Revenue System Obligation Fund 2013	882.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	882.0
Water Revenue System Obligation Fund 2014	1,871.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,871.7
Water Revenue System Obligation Fund 2015	699.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	699.8
Water Revenue System Obligation Fund 2016	2,677.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,677.7
Water Revenue System Obligation Fund 2017	6,192.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6,192.4
Water Revenue System Obligation Fund 2018	0.0	0.0	5,000.0	5,000.0	0.0	0.0	0.0	0.0	5,000.0	0.0	5,000.0
Total	19,351.4	0.0	5,688.0	5,688.0	5,972.0	6,039.0	2,319.0	0.0	20,018.0	0.0	39,369.4

SC Well Replacement SC-001, SC-004, SC-014

Description:

Drilling for the replacement of inactive wells SC-001, SC-004 and SC-014.

Justification:

These replacement wells will add to the collective production capacity necessary to meet the utility's goal of 20 million gallons per day from the Santa Cruz Wellfield. Additionally, these wells will help resolve water quality issues in the Santa Cruz Wellfield.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W167
Start Date: 7/19
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	2,253.0	0.0	0.0	0.0	2,253.0	0.0	2,253.0
Total	0.0	0.0	0.0	0.0	2,253.0	0.0	0.0	0.0	2,253.0	0.0	2,253.0

Silverbell/Orange Grove 12-inch PRV

Description:

Construct a 12-inch A-Z pressure reducing valve (PRV) at the current Silverbell/Orange Grove site to replace the two 8-inch PRVs at this location. The supply main and the discharge main will be 16-inches.

Justification:

Both existing 8-inch PRVs have reliability and maintenance issues and one is located in a vault.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W159
Start Date: 7/17
End Date: 6/19
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	2.0	0.0	177.3	177.3	0.0	0.0	0.0	0.0	177.3	0.0	179.3
Water Revenue System Obligation Fund 2017	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0
Water Revenue System Obligation Fund 2018	0.0	0.0	19.7	19.7	0.0	0.0	0.0	0.0	19.7	0.0	19.7
Total	22.0	0.0	197.0	197.0	0.0	0.0	0.0	0.0	197.0	0.0	219.0

Skyline Bel Air Tank Rehabilitation										Project ID: W314	
Description: Rehabilitate existing steel storage tank.Re-line and re-coat existing storage tank.										Start Date: 7/17	
Justification: Modify and improve safety, control and operational features as required.										End Date: 6/19	
City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.										Location: County	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	11.0	0.0	101.0	101.0	0.0	0.0	0.0	0.0	101.0	0.0	112.0
Water Revenue System Obligation Fund 2018	0.0	0.0	30.0	30.0	0.0	0.0	0.0	0.0	30.0	0.0	30.0
Total	11.0	0.0	131.0	131.0	0.0	0.0	0.0	0.0	131.0	0.0	142.0

Source Meter Replacement										Project ID: W715	
Description: Install new magnetic meters at the wellheads to improve the accounting of how much potable water is produced.										Start Date: Annual	
Justification: This project will assist in determining the amount of real losses versus apparent losses of water, and improve compliance with water loss regulations.										End Date: Annual	
City-Wide Priorities: Maintenance and Renovation of Existing City Assets.										Location: Citywide	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	248.0	251.0	255.0	259.0	1,013.0	1,100.0	2,113.0
Tucson Water Revenue and Operations Fund	0.0	0.0	141.0	141.0	0.0	0.0	0.0	0.0	141.0	0.0	141.0
Water Revenue System Obligation Fund 2018	0.0	0.0	100.0	100.0	0.0	0.0	0.0	0.0	100.0	0.0	100.0
Total	0.0	0.0	241.0	241.0	248.0	251.0	255.0	259.0	1,254.0	1,100.0	2,354.0

Southeast Houghton Area Discharge Project

Description:

This water recharge project is in the southeast Houghton Road area.

Justification:

The project is planned to provide the capability to recharge reclaimed water that would ordinarily be discharged into the Santa Cruz River, resulting in beneficial use of this water within the metropolitan area.

City-wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W282
Start Date: 7/10
End Date: 6/19
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	77.4	0.0	6,399.0	6,399.0	0.0	0.0	0.0	0.0	6,399.0	0.0	6,476.4
Water Revenue System Obligation Fund 2016	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5
Water Revenue System Obligation Fund 2017	687.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	687.9
Total	768.8	0.0	6,399.0	6,399.0	0.0	0.0	0.0	0.0	6,399.0	0.0	7,167.8

System Enhancements: Reclaimed

Description:

Design and construct reclaimed water mains during city, county, state, and other agency road improvement projects, including RTA funded projects. Intergovernmental agreements determine the City of Tucson cost allocated for each project.

Justification:

This project will increase system capacity while reducing the cost of pavement removal and replacement by coordinating construction with the roadway projects.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W645
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	282.0	285.0	290.0	294.0	1,151.0	1,250.0	2,401.0
Tucson Water Revenue and Operations Fund	0.0	0.0	123.0	123.0	0.0	0.0	0.0	0.0	123.0	0.0	123.0
Water Revenue System Obligation Fund 2018	0.0	0.0	150.0	150.0	0.0	0.0	0.0	0.0	150.0	0.0	150.0
Total	0.0	0.0	273.0	273.0	282.0	285.0	290.0	294.0	1,424.0	1,250.0	2,674.0

Tucson Airport Remediation Project (TARP) - Advanced Oxidation Process (AOP) Settling Tank

Project ID: W152
Start Date: 7/16
End Date: 6/18
Location: County

Description:

Modify existing plant inlet piping to route flow through a new pressure tank and back to plant inlet pumps. The decreased velocity of the flow through the tank will allow debris to settle out prior to feed into the UV reactors.

Justification:

Currently the sediment and debris in the raw water from the TARP wells is damaging the ultra-violet reactors in the new TARP - AOP plant. This debris is of too large of volume and size to be efficiently removed by existing in-line filters, but has a sufficiently high density that it will be removed by settling.

City-wide Priorities: Maintenance and Renovation of Existing City Assets, and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	284.3	0.0	59.0	59.0	0.0	0.0	0.0	0.0	59.0	0.0	343.3
Water Revenue System Obligation Fund 2014	338.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	338.6
Water Revenue System Obligation Fund 2015	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	624.1	0.0	109.0	109.0	0.0	0.0	0.0	0.0	109.0	0.0	733.1

Tucson Airport Remediation Project (TARP) Well R-001 - R-008 Drilling Replacement

Project ID: W244
Start Date: 7/17
End Date: 6/25
Location: Wards 1 and 5

Description:

Design and construct replacement wells R-001 through R-008 at the Tucson Airport Remediation Project (TARP). Tucson Water operates the remediation system in accordance with the 1991 Consent Decree with the US Environmental Protection Agency (EPA) to contain and treat groundwater contaminated with trichloroethylene (TCE). Each replacement well will have a 20-inch diameter, a stainless steel casing and will pump a minimum of 1,000 GPM.

Justification:

In order to maintain the remediation process, these wells need to be replaced. A gradual deterioration of the wells has been observed, due to the end of their useful life.

City-wide Priorities: Maintenance, Renovation of Existing City Assets, Customer Service and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	1,139.0	0.0	1,175.0	2,314.0	1,000.0	3,314.0
Tucson Water Revenue and Operations Fund	50.1	0.0	347.0	347.0	0.0	0.0	0.0	0.0	347.0	0.0	397.1
Water Revenue System Obligation Fund 2017	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	550.1	0.0	547.0	547.0	0.0	1,139.0	0.0	1,175.0	2,861.0	1,000.0	4,411.1

Tucson Airport Remediation Project (TARP) Well R-001 - R-008 Re-Equipping

Project ID: W247
Start Date: 7/17
End Date: 6/26
Location: Wards 1 and 5

Description:

Design and equip replacement wells R-001 through R-008 at the Tucson Airport Remediation Project (TARP), replacing electrical and control equipment and all necessary upgrades. Tucson Water operates the remediation system in accordance with the 1991 Consent Decree with the US EPA to contain and treat groundwater contaminated with trichloroethylene (TCE). Each well will pump a minimum of 1,000 GPM.

Justification:

In order to maintain the remediation process, these wells need to be replaced. A gradual deterioration of the wells has been observed, due to the end of their useful life.

City-wide Priorities: Maintenance and Renovation of Existing City Assets, Customer Service, and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	507.0	513.0	522.0	529.0	2,071.0	1,350.0	3,421.0
Tucson Water Revenue and Operations Fund	10.2	0.0	292.0	292.0	0.0	0.0	0.0	0.0	292.0	0.0	302.2
Water Revenue System Obligation Fund 2016	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
Water Revenue System Obligation Fund 2017	100.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	110.5	0.0	492.0	492.0	507.0	513.0	522.0	529.0	2,563.0	1,350.0	4,023.5

Technological Upgrades

Project ID: W336
Start Date: 7/23
End Date: 6/29
Location: City

Description:

Upgrades to Tucson Water's software, hardware and supporting infrastructure as existing technology becomes obsolete with better products.

Justification:

This on-going expense will optimize Tucson Water operations and work efficiency to reduce maintenance costs and improve customer service.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,052.0	7,052.0	30,000.0	37,052.0
Total	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,052.0	7,052.0	30,000.0	37,052.0

Thornsdale Reclaimed Reservoir Rehabilitation

Description:

Design and construct replacement of roofing elements and address other areas of concern including structural deficiencies and water tightness. Solar panels from roof will be removed and the feasibility of ground installation will be evaluated.

Justification:

Of primary concern is the double tee located in the southeast corner of the reservoir, which was damaged by direct contact with hypochlorite.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W311
Start Date: 7/17
End Date: 6/22
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	114.0	3,014.0	0.0	3,128.0	0.0	3,128.0
Tucson Water Revenue and Operations Fund	55.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0
Total	55.0	0.0	0.0	0.0	0.0	114.0	3,014.0	0.0	3,128.0	0.0	3,183.0

Thunderbird Old Spanish Trail Distribution Main

Description:

Install 1-mile of 8-inch potable water main on Old Spanish Trail from Saguaro Crest to Thunderhead Ranch. This project is needed to supply the Thunderhead customers with central system water. An above ground pressure reducing valve (PRV) is also needed. Water flow in this subdivision will be reversed. New customers can be added. If water is wheeled to Old Spanish Trail Water Co., a larger main will be needed. A companion PRV (CIP W235) will also be constructed.

Justification:

A gradual deterioration of the well has been observed due to the end of its useful life.

City-wide Priorities: Customer Service and Health and Safety.

Project ID: W236
Start Date: 7/19
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	934.0	0.0	0.0	990.0	0.0	990.0
Total	0.0	0.0	0.0	0.0	56.0	934.0	0.0	0.0	990.0	0.0	990.0

Thunderbird Old Spanish Trail Pressure Reducing Valve (PRV)

Description:

Purchase land, design and construct a 6-inch PRV at Thunderhead and Old Spanish Trail. The flow in the subdivision will be reversed when it is connected to Tucson Water's central system.

Justification:

This PRV, along with the Thunderhead Main CIP, will keep the Thunderhead Subdivision at its current water pressure of 60 PSI. The site will also serve as a chlorination point.

City-wide Priorities: Customer Service and Health and Safety.

Project ID: W235
Start Date: 7/19
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	251.0	0.0	0.0	307.0	0.0	307.0
Total	0.0	0.0	0.0	0.0	56.0	251.0	0.0	0.0	307.0	0.0	307.0

Tierra Del Sol Main Replacement Phase II

Description:

Design and install 3,177 feet of 8-inch pipe and 3,832 feet of 6-inch pipe in Calle Bellatrix, Avenida Regulo, Avenida Planeta, and Calle Marte.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in the neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W147
Start Date: 7/18
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	473.0	0.0	0.0	0.0	473.0	0.0	473.0
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	473.0	0.0	0.0	0.0	528.0	0.0	528.0

Tierra Del Sol Main Replacement Phase III

Description:

Design and install 1,682 feet of 8-inch pipe and 10,000 feet of 6-inch pipe in Calle Betelgeux, Calle Canis, Avenida Planeta, and Kolb Road.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in the neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W148
Start Date: 7/18
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	699.0	0.0	0.0	0.0	699.0	0.0	699.0
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	699.0	0.0	0.0	0.0	754.0	0.0	754.0

Tierra Del Sol Main Replacement Phase IV

Description:

Design and install 3,742 feet of 8-inch pipe and 1,200 feet of 6-inch pipe in Calle Marte, Calle Denebola, Avenida Planeta, and Kolb Road.

Justification:

This area has been identified as having an above average amount of main breaks according to records from Tucson Water's Customer Service and Maintenance Divisions. Much of the pipe in the neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance, Renovation of Existing City Assets, Customer Service and Health and Safety.

Project ID: W149
Start Date: 7/18
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	558.0	0.0	0.0	0.0	558.0	0.0	558.0
Tucson Water Revenue and Operations Fund	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Water Revenue System Obligation Fund 2018	0.0	0.0	40.0	40.0	0.0	0.0	0.0	0.0	40.0	0.0	40.0
Total	0.0	0.0	55.0	55.0	558.0	0.0	0.0	0.0	613.0	0.0	613.0

Tierra del Sol Main Replacement Phase V

Description:

Design and install 7,500 feet of 6-inch pipe in the Tierra del Sol Subdivision on Calle Marte, Avenida Planeta and Kolb Road.

Justification:

This area has been identified as having an above average amount of main breaks according to records by Tucson Water's System Planning Division. Much of the pipe in this neighborhood was installed in the 1950s and 1960s and has reached the end of its useful life.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W190
Start Date: 7/19
End Date: 6/21
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	809.0	0.0	0.0	865.0	0.0	865.0
Total	0.0	0.0	0.0	0.0	56.0	809.0	0.0	0.0	865.0	0.0	865.0

Tierra del Sol Main Replacement Phase VI

Description:

Replace existing 3-inch alleyway mains with 14,800 feet of 6-inch main and replace 331 residential service lines. install 2,000 feet of 8-inch main on Calle Mercurio between Calle Marte and Avenida Regulo. Replace 3 existing fire hydrants on Calle Mercurio.

Justification:

Much of the pipe in this neighborhood was installed in the 1950's and 1960's and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance, Renovation of Existing City Assets, and Customer Service.

Project ID: W191
Start Date: 7/19
End Date: 6/21
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	1,538.0	0.0	0.0	1,594.0	0.0	1,594.0
Total	0.0	0.0	0.0	0.0	56.0	1,538.0	0.0	0.0	1,594.0	0.0	1,594.0

Tierra del Sol Main Replacement Phase VII

Description:

Replace existing 3-inch alleyway mains with 16,840 feet of 6-inch main and replace 268 residential service lines between Calle Marte, Calle Bellatrix, Avenida Regulo and Wilmot.

Justification:

Much of the pipe in this neighborhood was installed in the 1950's and 1960's and has reached the end of its useful life.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W193
Start Date: 7/19
End Date: 6/21
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	56.0	1,424.0	0.0	0.0	1,480.0	0.0	1,480.0
Total	0.0	0.0	0.0	0.0	56.0	1,424.0	0.0	0.0	1,480.0	0.0	1,480.0

Trails End Reservoir Rehabilitation

Description:

Design and construct improvements as developed through the condition assessment to bring this reservoir up to current standards.

Justification:

This project must be completed to continue to provide long-term reliability and prevent water loss.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets.

Project ID: W050
Start Date: 7/16
End Date: 6/20
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,042.0	0.0	0.0	0.0	1,042.0	0.0	1,042.0
Tucson Water Revenue and Operations Fund	19.2	0.0	154.0	154.0	0.0	0.0	0.0	0.0	154.0	0.0	173.2
Water Revenue System Obligation Fund 2018	0.0	0.0	30.0	30.0	0.0	0.0	0.0	0.0	30.0	0.0	30.0
Total	19.2	0.0	184.0	184.0	1,042.0	0.0	0.0	0.0	1,226.0	0.0	1,245.2

<p>Tucson Estates Parkway/Michigan Street PRV Relocate</p> <p>Description: Relocate the existing vault Pressure Relief Valve (PRV) above ground. It is currently located in a confined space vault.</p> <p>Justification: This PRV has failed twice in the last six months. It is the primary fire protection source for the area.</p> <p>City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service and Health and Safety.</p>	<p>Project ID: W276 Start Date: 7/18 End Date: 6/19 Location: County</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	147.6	147.6	0.0	0.0	0.0	0.0	147.6	0.0	147.6
Water Revenue System Obligation Fund 2018	0.0	0.0	16.4	16.4	0.0	0.0	0.0	0.0	16.4	0.0	16.4
Total	0.0	0.0	164.0	164.0	0.0	0.0	0.0	0.0	164.0	0.0	164.0

<p>University of Arizona Science Park 16-inch Transmission Main</p> <p>Description: Install 4,700 feet of 16-inch main in the F2 water service area (WSA). This G2 transmission main will connect to an existing 16-inch main in Rita Road and includes a 12-inch stub out for the University of Arizona (UA) Science Center water tank. Installation will be in an existing roadway.</p> <p>Justification: This project will provide service to the UA Science Center and allow more water to be conveyed into the G2 WSA, affording water availability for economic development.</p> <p>City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.</p>	<p>Project ID: W279 Start Date: 7/18 End Date: 6/20 Location: Ward 4</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,408.0	0.0	0.0	0.0	1,408.0	0.0	1,408.0
Tucson Water Revenue and Operations Fund	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	1.0	0.0	1.0
Water Revenue System Obligation Fund 2018	0.0	0.0	54.0	54.0	0.0	0.0	0.0	0.0	54.0	0.0	54.0
Total	0.0	0.0	55.0	55.0	1,408.0	0.0	0.0	0.0	1,463.0	0.0	1,463.0

University of Arizona Science & Tech Park F-G Booster Upgrade

Description:

Upgrade the existing booster station to 2,000 gallons per minute capacity. This station will boost to the G zone high water. If needed, re-line the existing tank. Install a MOV for flow control, a flow meter, control building and 300 feet of 24-inch G zone main. The project will help provide water availability for economic development in the area.

Justification:

This project will allow water to be conveyed from the existing University of Arizona Science Park booster station to the Old Vail booster station.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service

Project ID: W309
Start Date: 7/18
End Date: 6/20
Location: Ward 4

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	1,014.0	0.0	0.0	0.0	1,014.0	0.0	1,014.0
Tucson Water Revenue and Operations Fund	0.0	0.0	59.0	59.0	0.0	0.0	0.0	0.0	59.0	0.0	59.0
Water Revenue System Obligation Fund 2018	0.0	0.0	50.0	50.0	0.0	0.0	0.0	0.0	50.0	0.0	50.0
Total	0.0	0.0	109.0	109.0	1,014.0	0.0	0.0	0.0	1,123.0	0.0	1,123.0

Valencia Stand Pipe Rehab

Description:

Rehabilitation of the surge control facility located near high point of the 42-inch pipe line from Plant 9 to the distribution system near Martin Reservoir. Due to height of tank, inspection, maintenance and repair is very difficult. Part of the scope is to evaluate functionality of the tank and look at cost/benefit alternatives.

Justification:

The exterior coating is in poor condition. Inspections show near complete failure of the interior liner near the bottom of the tank.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W317
Start Date: 7/17
End Date: 6/21
Location: County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	113.0	2,279.0	0.0	0.0	2,392.0	0.0	2,392.0
Tucson Water Revenue and Operations Fund	22.0	0.0	29.0	29.0	0.0	0.0	0.0	0.0	29.0	0.0	51.0
Water Revenue System Obligation Fund 2018	0.0	0.0	15.0	15.0	0.0	0.0	0.0	0.0	15.0	0.0	15.0
Total	22.0	0.0	44.0	44.0	113.0	2,279.0	0.0	0.0	2,436.0	0.0	2,458.0

Valve Access Vault

Description:

Design and construct vaults over butterfly valve (BFV) actuators to allow safe access for BFV actuator repair, refurbishment or replacement. The project will install up to 5 vaults per year prioritizing the largest and most critical BFV actuators.

Project ID: W060
Start Date: 7/13
End Date: 6/27
Location: City and County

Justification:

Installing vaults to grade will eliminate the need to excavate roadways, reduce overall maintenance costs, and improve safety.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Health and Safety.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	563.0	570.0	580.0	588.0	2,301.0	2,500.0	4,801.0
Tucson Water Revenue and Operations Fund	721.1	0.0	347.0	347.0	0.0	0.0	0.0	0.0	347.0	0.0	1,068.1
Water Revenue System Obligation Fund 2013	200.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	200.2
Water Revenue System Obligation Fund 2014	89.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.7
Water Revenue System Obligation Fund 2015	162.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	162.4
Water Revenue System Obligation Fund 2016	159.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.0
Water Revenue System Obligation Fund 2017	500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0
Water Revenue System Obligation Fund 2018	0.0	0.0	200.0	200.0	0.0	0.0	0.0	0.0	200.0	0.0	200.0
Total	1,832.4	0.0	547.0	547.0	563.0	570.0	580.0	588.0	2,848.0	2,500.0	7,180.4

W-004A & W-005A Well Replacement

Description:

Drill, install and develop two replacement production wells W-004 & W-005. Land adjacent to existing well W-005A will be purchased. Wells W-004 & W-005 were acquired from the Cactus Water Company in 1974. The wells form isolated water system W1.

Project ID: W334
Start Date: 7/17
End Date: 6/19
Location: County

Justification:

Both wells are older (1960 & 1951), are poor producers of less than 400 gallons per minute and have damaged casings. If one or both of these wells fail, we will be unable to serve the Rancho Del Sol Lindo & White Farms subdivisions unless we transport water in.

City-Wide Priorities: Maintenance and Renovation of Existing City Assets and Customer Service.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.2	0.0	1,438.0	1,438.0	0.0	0.0	0.0	0.0	1,438.0	0.0	1,438.2
Water Revenue System Obligation Fund 2017	422.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	422.5
Water Revenue System Obligation Fund 2018	0.0	0.0	750.0	750.0	0.0	0.0	0.0	0.0	750.0	0.0	750.0
Total	422.7	0.0	2,188.0	2,188.0	0.0	0.0	0.0	0.0	2,188.0	0.0	2,610.7

W-004 Tank Rehab

Description:

Rehabilitation of the steel storage tank at well site W-004. Re-line and re-coat existing steel storage tank.

Project ID: W318
Start Date: 7/17
End Date: 6/19
Location: County

Justification:

The project will modify and improve safety, control and operational features as needed.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	11.0	0.0	164.0	164.0	0.0	0.0	0.0	0.0	164.0	0.0	175.0
Total	11.0	0.0	164.0	164.0	0.0	0.0	0.0	0.0	164.0	0.0	175.0

Water Infrastructure Incentive Program

Description:

This program is to provide a mechanism for the City of Tucson to offset the cost component of the installation of water infrastructure. This program has an annual limit of \$2,500,000 which can be spread out among numerous economic development projects. The cost of the water infrastructure up to and including the water meter will be reimbursed upon evidence of successful adherence to the program criteria.

Justification:

This project will render City sites more competitive in attracting large scale economic development projects, particularly along the Sonoran corridor and Aerospace Parkway.

City-Wide Priorities: Economic Development.

Project ID: W280
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12,500.0	12,500.0
Tucson Water Revenue and Operations Fund	0.0	0.0	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	12,500.0	0.0	12,500.0
Total	0.0	0.0	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	2,500.0	12,500.0	12,500.0	25,000.0

Water Services

Description:

Install new metered potable water services upon customer request and payment of connection fees. These services include minor main connections, extensions, and meters to new services.

Justification:

This project is required to provide for the installation of new metered services to customers upon request.

City-Wide Priorities: Economic Development, Maintenance and Renovation of Existing City Assets and Customer Service.

Project ID: W114
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Future Water Revenue Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7,550.0	7,550.0
Tucson Water Revenue and Operations Fund	0.0	0.0	652.0	652.0	1,701.0	1,721.0	1,751.0	1,775.0	7,600.0	0.0	7,600.0
Water Revenue System Obligation Fund 2018	0.0	0.0	1,000.0	1,000.0	0.0	0.0	0.0	0.0	1,000.0	0.0	1,000.0
Total	0.0	0.0	1,652.0	1,652.0	1,701.0	1,721.0	1,751.0	1,775.0	8,600.0	7,550.0	16,150.0

Wellfield Upgrades

Description:

Upgrade pumps and motors at production wells.

Justification:

This project will maximize efficiency and production capacity, and minimize repair and maintenance costs.

City-Wide Priorities: Economic Development and Customer Service.

Project ID: W077
Start Date: Annual
End Date: Annual
Location: City and County

Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
Tucson Water Revenue and Operations Fund	0.0	0.0	547.0	547.0	563.0	570.0	580.0	588.0	2,848.0	2,500.0	5,348.0
Total	0.0	0.0	547.0	547.0	563.0	570.0	580.0	588.0	2,848.0	2,500.0	5,348.0

General Government



Capital Improvement Program Department Statement

FY 2018/19 through FY 2022/23

Department: General Government

Five-Year Total: \$7,859,000

The General Expense Five-Year CIP of \$7.9 million has three projects in FY2018/19. These projects are funded by the General Fund and Public Facilities Impact Fee Fund.

- Enterprise Timekeeping Management System.
- Enterprise Resource Planning (ERP) System Technology Project that will upgrade the City's multiple enterprise related systems to a current standard supported by the vendor.
- New Multi-Department Permitting System to replace the existing system which will be used by all departments.

General Government

(\$000)

Enterprise Resource Planning System Description: Technology upgrade to the City's Enterprise Resource Planning (ERP) System to a current standard supported by a single vendor. Justification: The ERP vendor's contract dictates the City must stay on with two versions of their current release in order to be supported. City-Wide Priorities: Customer Service.										Project ID: N118 Start Date: 7/15 End Date: 6/23 Location: Citywide	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund	2,010.0	0.0	1,500.0	133.7	0.0	0.0	1,800.0	1,800.0	5,100.0	0.0	7,110.0
Total	2,010.0	0.0	1,500.0	133.7	0.0	0.0	1,800.0	1,800.0	5,100.0	0.0	7,110.0

Enterprise Timekeeping Management System Description: Implement an Enterprise Timekeeping management system (KRONOS) to automate time keeping for all city departments with the goal of significantly reducing manual processes, increasing efficiencies and assuring better accuracy of payroll data. Justification: The City's Timekeeping and Payroll processes are manual and subject to error, putting the City at risk for non compliance from State and Federal Department of Labor policies. Implementing KRONOS will enable the city to better manage these risks. City-Wide Priorities: Customer Service.										Project ID: N117 Start Date: 7/14 End Date: 6/19 Location: Citywide	
Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund	1,606.0	0.0	133.7	133.7	0.0	0.0	0.0	0.0	133.7	0.0	1,740.3
Total	1,606.0	0.0	133.7	133.7	0.0	0.0	0.0	0.0	133.7	0.0	1,740.3

<p>Permitting System</p> <p>Description: Implement a multi-department permit, planning, licensing, and regulatory management system to support the planning and permitting functions.</p> <p>Justification: The current permitting system is near-obsolete and will no longer be maintained by the vendor. The current system is at risk of complete near-term failure which would greatly impact the City's ability to review and approve development plans, track code violations, and collect associated revenues.</p> <p>City-Wide Priorities: Customer Service.</p>	<p>Project ID: N117 Start Date: 7/18 End Date: 6/19 Location: Citywide</p>
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Source of Funds Summary	Prior Years	Adopted Fiscal Year 2018/19			Projected Requirements				Five Year Total	Future Years	Total Project
		Carry Forward	New Funding	Year 1 Total	Year 2 FY 2019/20	Year 3 FY 2020/21	Year 4 FY 2021/22	Year 5 FY 2022/23			
General Fund	0.0	0.0	1,483.3	1,483.3	0.0	0.0	0.0	0.0	1,483.3	0.0	1,483.3
Public Facilities Impact Fee Fund	0.0	0.0	1,142.0	1,142.0	0.0	0.0	0.0	0.0	1,142.0	0.0	1,142.0
Total	0.0	0.0	2,625.3	2,625.3	0.0	0.0	0.0	0.0	2,625.3	0.0	2,625.3

ACRONYMS and INITIALISMS



ACRONYMS and INITIALISMS

Acronym/Initialisms	Definitions
ADA	Americans with Disabilities Act
ADEQ	Arizona Department of Environmental Quality
AFG	Assistance to Firefighters Grant
AMI	Advanced Metering Infrastructure
AMR	Advanced Meter Reading
AVL	Automatic Vehicle Locator
BFV	Butterfly Valves
CAP	Central Arizona Project
CAVSARP	Central Avra Valley Storage and Recovery Project
CDBG	Community Development Block Grant
CIP	Capital Improvement Plan
CNG	Compressed Natural Gas
COPs	Certificates of Participation
CP	Cathodic Protection
CSR	Customer Service Representative
DIP	Ductile Iron Pipe
DVR	Digital Video Recorder
ERP	Enterprise Resource Program
FHWA	Federal Highway Association
FTA	Federal Transit Administration
GIS	Geographic Information Systems
GPM	Gallons Per Minute
HAWK	High-Intensity Activated Crosswalk
HDPE	High-Density Polyethylene Pipe
HURF	Highway User Revenue Fund
HVAC	Heating, Ventilating, and Air Conditioning
LED	Light Emitting Diode
MGD	Million Gallons per Day
MOV	Motor Operated Valve
MUP	Multi-Use Path
NEC	National Electrical Code
NFPA	National Fire Protection Association
O&M	Operating and Maintenance
OSHA	Occupational Safety and Health Administration
PAG	Pima Association of Governments
PRV	Pressure Reducing Valve
RTA	Regional Transportation Authority
RTDN	Regional Transportation Data Network

Acronym/Initialisms

SAVSARP
SC
SCADA
SGR
SHARP

TARP
TCC
TCE
TIP

USEPA

WC
WSA

Definitions

Southern Avra Valley Storage and Recovery Project
Security Certified
Supervisory Control and Data Acquisition
State of Good Repair
Southeast Houghton Area Recharge Project

Tucson Airport Remediation Project
Tucson Convention Center
Trichlorethylene
Transportation Improvement Program

United States Environmental Protection Agency

Water Column
Water Service Area



tucsonaz.gov/finance/budget