



**CITY OF TUCSON, ARIZONA**  
**APPROVED CAPITAL IMPROVEMENT PROGRAM**  
**FISCAL YEARS 2016 - 2020**



Approved Five-Year Capital Improvement Program  
Fiscal Years 2016 through 2020  
*Effective July 1, 2015*

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**Mayor and Council**

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HONORABLE  
JONATHAN ROTHSCHILD  
Mayor



REGINA ROMERO  
Ward One



PAUL CUNNINGHAM  
Ward Two



KARIN UHLICH  
Ward Three



SHIRLEY SCOTT  
Ward Four



RICHARD FIMBRES  
Ward Five



STEVE KOZACHIK  
Ward Six

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**City Administration**

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MARTHA DURKIN  
City Manager

ALBERT ELIAS  
Assistant City Manager

JULIANNE HUGHES  
Assistant City Manager

RON LEWIS  
Assistant City Manager





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# Section A Overview



# OVERVIEW of the FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

It is the practice of the City of Tucson to develop, maintain, and revise when necessary a continuing Capital Improvement Program (CIP). The CIP covers a five-year planning horizon (Fiscal Years 2016-2020) and identifies infrastructure and facility projects the City will undertake during this timeframe as well as the funding sources available for projected expenditures.

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

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

## BUDGET HIGHLIGHTS

This proposed CIP totals \$1.0 billion; \$289.6 million is budgeted in the first year of the CIP and is a component of the Fiscal Year 2016 Adopted Budget. Notable projects include the following:

**Compressed Natural Gas (CNG) Plant.** Replace the existing aged CNG Plant with a new plant that has the equipment necessary to meet industry vehicle fueling standards and provide backup emergency generator power to sustain plant operations in the event of a power outage. The project, when complete, will better serve both Sun Tran and Environmental Services' planned expansion of the CNG Fleet. Total project costs are estimated to be \$13.4 million with \$12.3 million budgeted in Fiscal Year 2016. The project is funded with certificates of participation, Environmental Services user revenues, and federal grants.

**Hayden-Udall Prime Reservoir and Booster Upgrade.** Design and construct a new reservoir and booster station at the Hayden-Udall Water Treatment Plant to allow for redundant ability to move Clearwater source water into the central distribution system when the Snyder Hill Pump Station (SHPS) is not available. The current supply is provided through a single point, which includes the Hayden-Udall Plant, Snyder Hill Pump Station, and Clearwell Reservoir. Total project costs are estimated to be \$15.7 million. The project is funded from Tucson Water User Revenues and Water Obligation Bonds.

**Reid Park Zoo Health Center.** Design and construct an addition to the existing veterinary facility at the Reid Park Zoo. This project is necessary as the existing facility is extremely dated (approximately 40 years old) 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. Total project costs are estimated at \$3.5 million. The Reid Park Zoological Society is raising the funds for this project.

**Street Improvements: Proposition 409.** Restore, repair, and resurface streets inside Tucson City limits with the \$100 million bond program approved by voters in November 2012. Street resurfacing will be over a five-year period and approximately 85% of bond funds will be allocated to major streets and 15% will be allocated to neighborhood streets. All work will be competitively bid out to private sector contractors. Total project costs are estimated to be \$99.0 million with \$24.1 million budgeted in Fiscal Year 2016 (\$1.0 million is for the bond issuance costs).

# **OVERVIEW of the CAPITAL IMPROVEMENT PROGRAM**

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**Tenth Avenue Maintenance Facility.** Design and construct a new facility and make improvements at the Environmental Services Container Maintenance Facility located at South Tenth Avenue. Improvements include demolition, earthwork, infrastructure, and drainage. Project design began October 2013. The construction phase is scheduled Fiscal Year 2016 through Fiscal Year 2018. Safety improvements are necessary to the vacant, former transfer station building. A new facility is needed for the welding, storage, and operations maintenance staff. Total project costs are estimated to be \$4.9 million with \$3.0 million budgeted in Fiscal Year 2016. The project is funded from the Environmental Services Fund.

## **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 at 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 and Sun Van paratransit vans) 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 December 2014, the CIP process began with the Office of Budget and Internal Audit providing direction and guidelines to department liaisons. Departments were given approximately seven weeks to develop their CIP requests based on their assessment of needs, citizen committee input, and 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, 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 Office of Budget and Internal Audit and applicable revisions were made.

The proposed CIP was presented to the Mayor and Council on April 21, 2015, along with the Recommended Fiscal Year 2016 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 May. Two public hearings were held prior to the adoption of the Fiscal Year 2016 budget on June 9th.

## **SUMMARY of EXPENDITURES and FUNDING SOURCES**

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.

### **Expenditures**

The proposed Five-Year CIP for Fiscal Years 2016 through 2020 totals \$1.0 billion. The majority of the projects are in the Public Utilities category, which includes Environmental Services and Tucson Water.

# OVERVIEW of the CAPITAL IMPROVEMENT PROGRAM

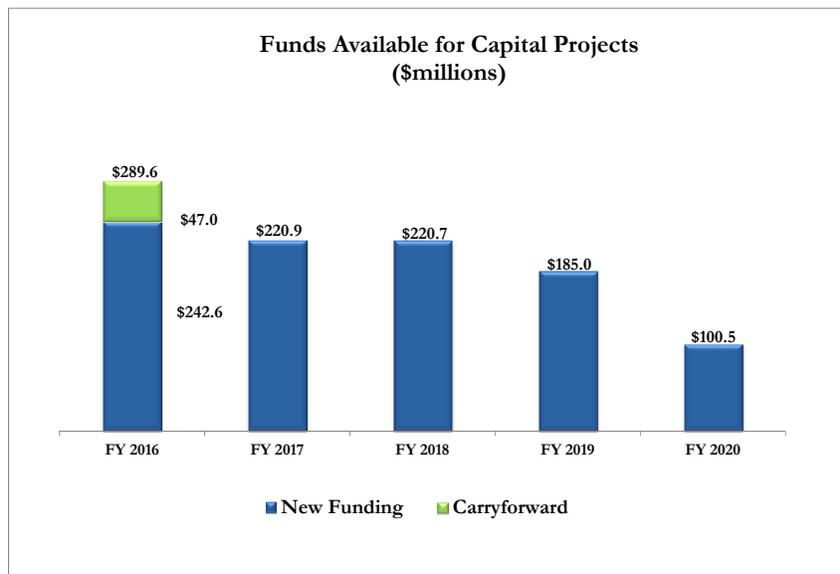
**Five-Year CIP Summary of Expenditures**

| (in \$000s)                          | Approved Year 1<br>FY 2016 | Approved Five-<br>Year Program |
|--------------------------------------|----------------------------|--------------------------------|
| Community Enrichment and Development | \$ 186,544.4               | \$ 658,433.5                   |
| Public Safety and Justice Services   | 2,600.0                    | 3,000.0                        |
| Public Utilities                     | 87,144.0                   | 340,939.0                      |
| Support Services                     | 12,302.5                   | 12,302.5                       |
| Non-Departmental: General Expense    | 1,031.8                    | 2,031.8                        |
| Total                                | \$ 289,622.7               | \$ 1,016,706.8                 |

This five-year CIP is \$458,000 more than the approved five-year CIP for Fiscal Years 2015 through 2019.

Fiscal Year 2016 includes \$47.0 million carried forward for project expenditures not made as planned during Fiscal Year 2015 and \$242.6 million in new funding. The CIP presumes that all of the Fiscal Year 2016 budget will be spent in that year.

CIP expenditures decrease significantly after Fiscal Year 2016 from \$289.6 million in Fiscal Year 2016 to \$100.5 million by Fiscal Year 2020.



For a summary of expenditures by department and fiscal year, see Table I, Five-Year CIP Summary by Department on page E-8.

# OVERVIEW of the CAPITAL IMPROVEMENT PROGRAM

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## Funding Sources

This five-year program of \$1.0 billion is funded primarily from Capital Projects Funds.

**Five-Year CIP Summary of Funding Sources**

| (in \$000s)            | Approved Year 1<br>FY 2016 | Approved Five-<br>Year Program |
|------------------------|----------------------------|--------------------------------|
| Capital Projects Funds | \$ 133,298.7               | \$ 513,833.8                   |
| Enterprise Funds       | 93,380.0                   | 347,175.0                      |
| General Fund           | 1,031.8                    | 2,031.8                        |
| Special Revenue Funds  | 61,912.2                   | 153,666.2                      |
| Total                  | \$ 289,622.7               | \$ 1,016,706.8                 |

**Capital Projects Funds.** This category, which includes the City bond funds, is 51% of the five-year CIP. These funds will provide \$513.8 million over the next five years. Regional Transportation Authority (RTA) funds of \$342.3 million account for the largest portion of this category. Next are General Obligation Street Bonds of \$62.3 million. Pima County bonds will provide \$39.1 million. Capacity of \$38.3 million was added for road and regional park improvements along with \$22.8 million from regional Highway User Revenue Funds (HURF) distributed by the Pima Association of Governments (PAG). Certificates of Participation (COPs) account for \$9.1 million.

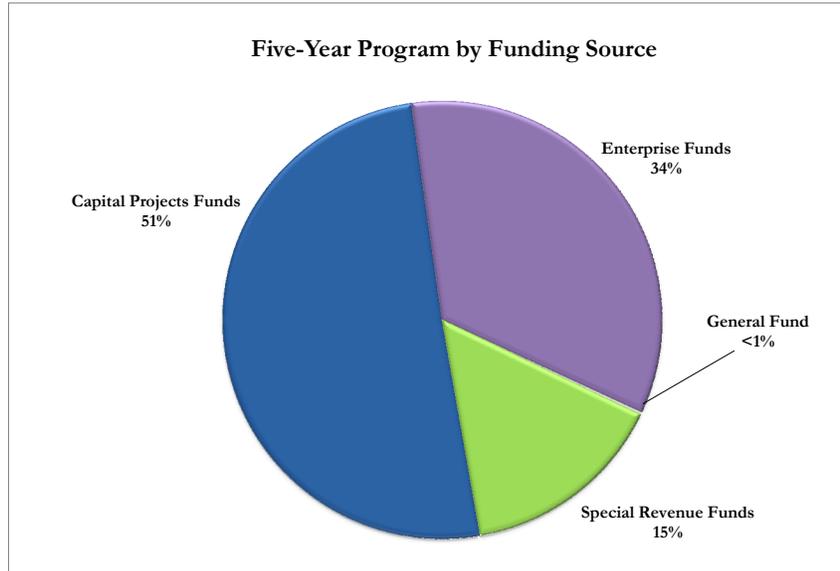
**Enterprise Funds.** Enterprise Funds total \$347.2 million or 34% of the five-year CIP. Environmental Services totals \$22.4 million. Tucson Water accounts for the remaining \$324.8 million: \$154.7 million from user revenues, \$47.4 million from Water’s Obligation funds, and \$122.7 million from future Water Revenue Bonds.

**General Fund.** This category totals \$1.0 million or less than 1% of the five-year CIP and is funding citywide technology upgrades.

**Special Revenue Funds.** This category totals \$153.7 million or 15% of the five-year CIP. Included in this category are federal grants of \$111.5 million. The General Fund provides \$15.2 million for Mass Transit. The City’s HURF allocation accounts for \$26.7 million, and \$0.3 million comes from civic contributions.

For more detail on funding sources, see Table II, Five-Year CIP Summary by Funding Source beginning on page E-9.

# OVERVIEW of the 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, Support Services, and Non-Departmental. For a further listing of the projects by departments see pages E-18 through E-31.

### Community Enrichment and Development

The Community Enrichment and Development category, which accounts for 65% 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 \$1.2 million consists of two projects. Funding is provided by the Community Development Block Grant Fund (CDBG).

**Parks and Recreation.** Parks' five-year CIP of \$8.4 million contains 16 projects. These projects are funded primarily from revenue from impact fees of \$4.6 million. Civic contributions and certificates of participation provide for the remaining \$3.8 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 \$648.8 million includes four program areas: Public Transit for \$73.7 million, Streets for \$557.1 million, Street Lighting for \$15.0 million, and Traffic Signals for \$3.0 million. Because there are insufficient funds to meet all of Transportation's needs, this CIP allocates available funding to the highest priority projects.

The largest funding source for Transportation's projects is the funding from the RTA plan which totals \$342.3 million. General Obligation Street Bonds total \$62.3 million. Federal funding provides another significant portion totaling \$106.8 million: \$58.4 million for transit projects and \$48.4 million for street projects. Other funding sources are Pima County bond funds of \$39.1 million, regional HURF from PAG of \$22.8 million, City HURF of \$26.7 million, and impact fee revenues of \$33.6 million. The remaining \$15.2 million is from the General Fund for Mass Transit, which is used as the local match for federal transit grants.

# **OVERVIEW of the CAPITAL IMPROVEMENT PROGRAM**

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## **Public Safety and Justice Services**

The Public Safety and Justice Services category, which accounts for less than 1% of the total five-year CIP, contains one project managed by City Court.

**City Court.** City Court's five-year program of \$3.0 million consists of one project, Court building remodel. This project is funded with certificates of participation in the Capital Improvement Fund.

## **Public Utilities**

The Public Utilities category, which accounts for 34% of the total five-year CIP, contains projects managed by Environmental Services and Tucson Water.

**Environmental Services.** The department's five-year program of five projects totals \$16.1 million. Environmental Services' CIP is funded from Environmental Service revenues.

**Tucson Water.** The five-year Tucson Water CIP of \$324.8 million includes \$297.9 million of improvements to the potable water system and \$26.9 million of improvements for the reclaimed water system. Tucson Water's CIP is funded with future water revenue bond authorization of \$122.7 million, operation funds of \$154.7 million, 2014 Revenue Obligation funds of \$18.1 million, and 2015 Revenue Obligation funds of \$29.3 million.

## **Support Services**

The Support Services category, which accounts for less than 2% of the total five-year CIP, contains one project managed by General Services.

**General Services.** The five-year General Services program of \$12.3 million consists of one project, CNG fueling upgrade. General Services' CIP is funded with certificates of participation in the Capital Improvement Fund, Environmental Services Funds, and Federal Grant Funds.

## **Non-Departmental**

The Non-Departmental category, which accounts for less than 1% of the total five-year CIP, contains two projects that are budgeted here because they are beyond the oversight scope of a single department. The Technology Upgrade Project will upgrade the City's multiple enterprise related systems to a current standard supported by the vendor. The Kronos Citywide System Project will implement an Enterprise Timekeeping management system to automate time keeping for all city departments. Both projects are funded by the General 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 \$43,300 for Fiscal Year 2016, increasing to a five-year total of \$1.7 million through Fiscal Year 2020. The General Fund O&M impacts in Fiscal Year 2016 are for the opening of new or expanded facilities.

## **OVERVIEW of the CAPITAL IMPROVEMENT PROGRAM**

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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 E-11.

### **SUMMARY TABLES**

Table I, Summary by Department (page E-8).

Table II, Summary by Funding Source (page E-9).

Table III, Summary of CIP Impact on the Operating Budget (page E-11).

Table IV, Projects with Pima County Bond Funding (E-15).

Table V, Projects with Development Impact Fee Funding (E-16).

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

**Table I. Summary by Department  
(\$000)**

|   | Adopted             |                     | Projected Requirements |                     |                     | Five<br>Year<br>Total |
|---|---------------------|---------------------|------------------------|---------------------|---------------------|-----------------------|
|   | Year 1<br>FY 2016   | Year 2<br>FY 2017   | Year 3<br>FY 2018      | Year 4<br>FY 2019   | Year 5<br>FY 2020   |                       |
| <b>Community Enrichment and Development</b> |                     |                     |                        |                     |                     |                       |
| Housing and Community Development           | \$ 1,160.2          | \$ -0-              | \$ -0-                 | \$ -0-              | \$ -0-              | \$ 1,160.2            |
| Parks and Recreation                        | 4,511.0             | 2,679.6             | 1,132.3                | 71.4                | 50.0                | 8,444.3               |
| Transportation                              | 180,873.2           | 155,188.7           | 144,319.4              | 123,558.1           | 44,889.6            | 648,829.0             |
| <b>Subtotal</b>                             | <b>\$ 186,544.4</b> | <b>\$ 157,868.3</b> | <b>\$ 145,451.7</b>    | <b>\$ 123,629.5</b> | <b>\$ 44,939.6</b>  | <b>\$ 658,433.5</b>   |
| <b>Public Safety and Justice Services</b>   |                     |                     |                        |                     |                     |                       |
| City Court                                  | \$ 2,600.0          | \$ 400.0            | \$ -0-                 | \$ -0-              | \$ -0-              | \$ 3,000.0            |
| <b>Subtotal</b>                             | <b>\$ 2,600.0</b>   | <b>\$ 400.0</b>     | <b>\$ -0-</b>          | <b>\$ -0-</b>       | <b>\$ -0-</b>       | <b>\$ 3,000.0</b>     |
| <b>Public Utilities</b>                     |                     |                     |                        |                     |                     |                       |
| Environmental Services                      | \$ 11,939.0         | \$ 4,200.0          | \$ -0-                 | \$ -0-              | \$ -0-              | \$ 16,139.0           |
| Tucson Water                                | 75,205.0            | 57,394.0            | 75,286.0               | 61,271.0            | 55,644.0            | 324,800.0             |
| <b>Subtotal</b>                             | <b>\$ 87,144.0</b>  | <b>\$ 61,594.0</b>  | <b>\$ 75,286.0</b>     | <b>\$ 61,271.0</b>  | <b>\$ 55,644.0</b>  | <b>\$ 340,939.0</b>   |
| <b>Support Services</b>                     |                     |                     |                        |                     |                     |                       |
| General Services                            | \$ 12,302.5         | \$ -0-              | \$ -0-                 | \$ -0-              | \$ -0-              | \$ 12,302.5           |
| <b>Subtotal</b>                             | <b>\$ 12,302.5</b>  | <b>\$ -0-</b>       | <b>\$ -0-</b>          | <b>\$ -0-</b>       | <b>\$ -0-</b>       | <b>\$ 12,302.5</b>    |
| <b>Non-Departmental</b>                     |                     |                     |                        |                     |                     |                       |
| General Expense                             | \$ 1,031.8          | \$ 1,000.0          | \$ -0-                 | \$ -0-              | \$ -0-              | \$ 2,031.8            |
| <b>Subtotal</b>                             | <b>\$ 1,031.8</b>   | <b>\$ 1,000.0</b>   | <b>\$ -0-</b>          | <b>\$ -0-</b>       | <b>\$ -0-</b>       | <b>\$ 2,031.8</b>     |
| <b>Total</b>                                | <b>\$ 289,622.7</b> | <b>\$ 220,862.3</b> | <b>\$ 220,737.7</b>    | <b>\$ 184,900.5</b> | <b>\$ 100,583.6</b> | <b>\$ 1,016,706.8</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## Table II. Summary by Funding Source (\$000)

|  | Adopted            |                    | Projected Requirements |                    |                    | Five<br>Year<br>Total |
|--|--------------------|--------------------|------------------------|--------------------|--------------------|-----------------------|
|  | Year 1<br>FY 2016  | Year 2<br>FY 2017  | Year 3<br>FY 2018      | Year 4<br>FY 2019  | Year 5<br>FY 2020  |                       |
| <b>Capital Projects Funds</b>                |                    |                    |                        |                    |                    |                       |
| Capital Agreement Fund: PAG                  | \$ 5,024.7         | \$ 1,500.0         | \$ 7,044.0             | \$ 9,214.0         | \$ -0-             | \$ 22,782.7           |
| Capital Agreement Fund: Pima<br>County Bonds | 2,878.2            | 24,180.0           | 12,000.0               | -0-                | -0-                | 39,058.2              |
| Capital Improvement Fund                     | 7,510.6            | 1,572.1            | -0-                    | -0-                | -0-                | 9,082.7               |
| General Obligation Street<br>Bonds           | 22,780.0           | 19,780.0           | 19,780.0               | -0-                | -0-                | 62,340.0              |
| Impact Fee Fund: Central District            | 3,108.0            | 2,058.8            | 4,500.0                | 3,313.6            | -0-                | 12,980.4              |
| Impact Fee Fund: East District               | 3,450.5            | 1,808.9            | 1,767.9                | -0-                | -0-                | 7,027.3               |
| Impact Fee Fund: Southeast<br>District       | 649.3              | 482.6              | 5,000.0                | 2,000.0            | 2,000.0            | 10,131.9              |
| Impact Fee Fund: Southlands<br>District      | 50.0               | 708.8              | 814.4                  | 21.4               | -0-                | 1,594.6               |
| Impact Fee Fund: West District               | 2,535.0            | 2,628.4            | 200.0                  | 1,200.0            | -0-                | 6,563.4               |
| Regional Transportation<br>Authority Fund    | 85,312.4           | 77,101.6           | 73,842.7               | 83,402.9           | 22,613.0           | 342,272.6             |
| <b>Subtotal</b>                              | <b>\$133,298.7</b> | <b>\$131,821.2</b> | <b>\$124,949.0</b>     | <b>\$ 99,151.9</b> | <b>\$ 24,613.0</b> | <b>\$ 513,833.8</b>   |
| <b>Enterprise Funds</b>                      |                    |                    |                        |                    |                    |                       |
| 2014 Water Revenue System<br>Obligation Fund | \$ 18,070.0        | \$ -0-             | \$ -0-                 | \$ -0-             | \$ -0-             | \$ 18,070.0           |
| 2015 Water Revenue System<br>Obligation Fund | 29,308.0           | -0-                | -0-                    | -0-                | -0-                | 29,308.0              |
| Environmental Services Fund                  | 18,175.0           | 4,200.0            | -0-                    | -0-                | -0-                | 22,375.0              |
| Future Water Revenue Bonds                   | -0-                | 32,632.0           | 40,673.0               | 33,831.0           | 15,611.0           | 122,747.0             |
| Tucson Water Revenue and<br>Operations Fund  | 27,827.0           | 24,762.0           | 34,613.0               | 27,440.0           | 40,033.0           | 154,675.0             |
| <b>Subtotal</b>                              | <b>\$ 93,380.0</b> | <b>\$ 61,594.0</b> | <b>\$ 75,286.0</b>     | <b>\$ 61,271.0</b> | <b>\$ 55,644.0</b> | <b>\$ 347,175.0</b>   |
| <b>General Fund</b>                          | <b>\$ 1,031.8</b>  | <b>\$ 1,000.0</b>  | <b>\$ -0-</b>          | <b>\$ -0-</b>      | <b>\$ -0-</b>      | <b>\$ 2,031.8</b>     |
| <b>Subtotal</b>                              | <b>\$ 1,031.8</b>  | <b>\$ 1,000.0</b>  | <b>\$ -0-</b>          | <b>\$ -0-</b>      | <b>\$ -0-</b>      | <b>\$ 2,031.8</b>     |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

**Table II. Summary by Funding Source  
(\$000)**

|   | Adopted            |                    | Projected Requirements |                    |                    | Five<br>Year<br>Total |
|---|--------------------|--------------------|------------------------|--------------------|--------------------|-----------------------|
|   | Year 1<br>FY 2016  | Year 2<br>FY 2017  | Year 3<br>FY 2018      | Year 4<br>FY 2019  | Year 5<br>FY 2020  |                       |
| <b>Special Revenue Funds</b>              |                    |                    |                        |                    |                    |                       |
| Civic Contributions Fund                  | \$ 65.0            | \$ 50.0            | \$ 50.0                | \$ 50.0            | \$ 50.0            | \$ 265.0              |
| Community Development<br>Block Grant Fund | 1,160.2            | -0-                | -0-                    | -0-                | -0-                | 1,160.2               |
| Federal Highway Administration<br>Grants  | 33,876.3           | 4,432.0            | 100.0                  | 10,000.0           | -0-                | 48,408.3              |
| Highway User Revenue Fund                 | 3,298.6            | 15,079.5           | 1,225.1                | 5.0                | 7,100.0            | 26,708.2              |
| Mass Transit Fund: General Fund           | 3,717.1            | 1,890.4            | 3,974.4                | 2,778.4            | 2,885.4            | 15,245.7              |
| Mass Transit Fund: Federal<br>Grants      | 19,795.0           | 4,995.2            | 15,153.2               | 11,644.2           | 10,291.2           | 61,878.8              |
| <b>Subtotal</b>                           | <b>\$ 61,912.2</b> | <b>\$ 26,447.1</b> | <b>\$ 20,502.7</b>     | <b>\$ 24,477.6</b> | <b>\$ 20,326.6</b> | <b>\$ 153,666.2</b>   |
| <b>Total</b>                              | <b>\$289,622.7</b> | <b>\$220,862.3</b> | <b>\$220,737.7</b>     | <b>\$184,900.5</b> | <b>\$100,583.6</b> | <b>\$ 1,016,706.8</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

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

| SERVICE AREA/IMPACT                         | Adopted           |                   | Projected Requirements |                   |                   | Five<br>Year<br>Total |
|---|-------------------|-------------------|------------------------|-------------------|-------------------|-----------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018      | Year 4<br>FY 2019 | Year 5<br>FY 2020 |                       |
| <b>Community Enrichment and Development</b> |                   |                   |                        |                   |                   |                       |
| Parks and Recreation                        | \$ 4.5            | \$ 7.5            | \$ 19.6                | \$ 19.9           | \$ 20.2           | \$ 71.7               |
| Transportation                              | 38.8              | 303.0             | 375.0                  | 450.0             | 455.0             | 1,621.8               |
| <b>Total</b>                                | <b>\$ 43.3</b>    | <b>\$ 310.5</b>   | <b>\$ 394.6</b>        | <b>\$ 469.9</b>   | <b>\$ 475.2</b>   | <b>\$ 1,693.5</b>     |
| <b>SOURCE OF FUNDS SUMMARY</b>              |                   |                   |                        |                   |                   |                       |
| <b>General Fund</b>                         | \$ 4.5            | \$ 7.5            | \$ 19.6                | \$ 19.9           | \$ 20.2           | \$ 71.7               |
| <b>Subtotal</b>                             | \$ 4.5            | \$ 7.5            | \$ 19.6                | \$ 19.9           | \$ 20.2           | \$ 71.7               |
| <b>Special Revenue Funds</b>                |                   |                   |                        |                   |                   |                       |
| Highway User Revenue Fund                   | \$ 38.8           | \$ 243.0          | \$ 295.0               | \$ 370.0          | \$ 375.0          | \$ 1,321.8            |
| Mass Transit Fund                           | -0-               | -0-               | 20.0                   | 20.0              | 20.0              | 60.0                  |
| RTA Fund                                    | -0-               | 60.0              | 60.0                   | 60.0              | 60.0              | 240.0                 |
| <b>Subtotal</b>                             | <b>\$ 38.8</b>    | <b>\$ 303.0</b>   | <b>\$ 375.0</b>        | <b>\$ 450.0</b>   | <b>\$ 455.0</b>   | <b>\$ 1,621.8</b>     |
| <b>Total</b>                                | <b>\$ 43.3</b>    | <b>\$ 310.5</b>   | <b>\$ 394.6</b>        | <b>\$ 469.9</b>   | <b>\$ 475.2</b>   | <b>\$ 1,693.5</b>     |

## 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 \$4,500 in Fiscal Year 2016, increasing to \$20,100 by Fiscal Year 2020 for a five-year total of \$71,700. 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.

| <b>Project Name</b>                            | <b>Year 1<br/>FY 2016</b> | <b>Year 2<br/>FY 2017</b> | <b>Year 3<br/>FY 2018</b> | <b>Year 4<br/>FY 2019</b> | <b>Year 5<br/>FY 2020</b> | <b>Five<br/>Year<br/>Total</b> |
|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--------------------------------|
| A Mountain Improvement                         | \$ -0-                    | \$ 1.0                    | \$ 1.0                    | \$ 1.0                    | \$ 1.0                    | \$ 4.0                         |
| Arroyo Chico Urban Path: Country Club to Treat | 1.5                       | 1.5                       | 1.5                       | 1.5                       | 1.5                       | 7.6                            |
| Purple Heart Park Expansion                    | 1.0                       | 1.0                       | 1.0                       | 1.0                       | 1.0                       | 5.0                            |
| Reid Park Expansion, Phase I                   | 1.5                       | 1.5                       | 1.5                       | 1.5                       | 1.5                       | 7.5                            |
| Reid Park Zoo Health Center                    | -0-                       | 2.0                       | 2.0                       | 2.0                       | 2.0                       | 8.0                            |
| Shade Structure Projects                       | 0.5                       | 0.5                       | 0.5                       | 0.5                       | 0.5                       | 2.5                            |
| South Central Community Park, Phase I          | -0-                       | -0-                       | 12.1                      | 12.4                      | 12.6                      | 37.1                           |
| <b>Total</b>                                   | <b>\$ 4.5</b>             | <b>\$ 7.5</b>             | <b>\$ 19.6</b>            | <b>\$ 19.9</b>            | <b>\$ 20.1</b>            | <b>\$ 71.7</b>                 |
| <b>Source of Funds Summary</b>                 |                           |                           |                           |                           |                           |                                |
| General Fund                                   | \$ 4.5                    | \$ 7.5                    | \$ 19.6                   | \$ 19.9                   | \$ 20.1                   | \$ 71.7                        |
| <b>Total</b>                                   | <b>\$ 4.5</b>             | <b>\$ 7.5</b>             | <b>\$ 19.6</b>            | <b>\$ 19.9</b>            | <b>\$ 20.1</b>            | <b>\$ 71.7</b>                 |

# 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 (O&M) is estimated to be \$1.6 million over the five year period, with the majority of costs attributed to state shared HURF revenues. RTA revenues and Federal Transit Administrative grants are also expected to fund O&M costs. 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                                       | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Five<br>Year<br>Total |
|--|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|
| 22nd Avenida Sirio HAWK                            | \$ -0-            | \$ 4.0            | \$ 4.0            | \$ 4.0            | \$ 4.0            | \$ 16.0               |
| 4th/Congress/Toole Bike Pedestrian<br>Improvements | -0-               | -0-               | 5.0               | 5.0               | 5.0               | 15.0                  |
| Arroyo Chico Greenway                              | 0.3               | 0.5               | 0.5               | 0.5               | 0.5               | 2.3                   |
| Broadway: Camino Seco to<br>Houghton               | -0-               | -0-               | 7.5               | 7.5               | 7.5               | 22.5                  |
| Campbell and 9th HAWK                              | -0-               | 4.0               | 4.0               | 4.0               | 4.0               | 16.0                  |
| Campbell Avenue Revitalization                     | 2.5               | 5.0               | 5.0               | 5.0               | 5.0               | 22.5                  |
| CNG Fueling System                                 | -0-               | -0-               | 20.0              | 20.0              | 20.0              | 60.0                  |
| Columbus Corridor Pedestrian Path                  | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Communication System<br>Improvements               | 30.0              | 60.0              | 60.0              | 60.0              | 60.0              | 270.0                 |
| Copper Street Bike Boulevard                       | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Craycroft and Ft. Lowell Park<br>HAWK              | 2.0               | 4.0               | 4.0               | 4.0               | 4.0               | 18.0                  |
| El Paso and Southwestern Greenway                  | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Fifth Street Bike Boulevard                        | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Five Points Pedestrian Improvements                | -0-               | -0-               | 1.0               | 1.0               | 1.0               | 3.0                   |
| Five Points Transportation<br>Enhancement          | -0-               | 5.0               | 5.0               | 5.0               | 5.0               | 20.0                  |
| Gila Panther Tracks Safe Routes to<br>School       | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Glenn Street Transportation<br>Enhancement         | -0-               | 1.0               | 1.0               | 1.0               | 1.0               | 4.0                   |
| Grant and Sahuara HAWK                             | 2.0               | 4.0               | 4.0               | 4.0               | 4.0               | 18.0                  |
| Houghton Road: Bridge<br>Replacement               | -0-               | -0-               | -0-               | -0-               | 5.0               | 5.0                   |
| Houghton Road: Irvington to<br>Valencia            | -0-               | 20.0              | 20.0              | 20.0              | 20.0              | 80.0                  |
| Houghton Road: Union Pacific<br>Railroad to I-10   | -0-               | -0-               | 5.0               | 5.0               | 5.0               | 15.0                  |
| Houghton Road: Broadway to 22nd<br>Street          | -0-               | -0-               | 5.0               | 5.0               | 5.0               | 15.0                  |
| Kolb Road Connection to Sabino<br>Canyon           | -0-               | -0-               | 2.0               | 2.0               | 2.0               | 6.0                   |
| LED Street Light Conversion                        | -0-               | 7.5               | 15.0              | 15.0              | 15.0              | 52.5                  |
| Liberty Avenue Bicycle Boulevard                   | -0-               | 10.0              | 10.0              | 10.0              | 10.0              | 40.0                  |
| Pantano Repaving: Escalante to<br>Irvington        | -0-               | -0-               | -0-               | 50.0              | 50.0              | 100.0                 |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

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

| Project Name                                  | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Five<br>Year<br>Total |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------------|
| Park Avenue Transportation Enhancement        | \$ -0-            | \$ -0-            | \$ 0.5            | \$ 0.5            | \$ 0.5            | \$ 1.5                |
| Park-and-Ride Lot: Houghton                   | -0-               | 30.0              | 30.0              | 30.0              | 30.0              | 120.0                 |
| Park-and-Ride Lot: Rita Ranch                 | -0-               | 30.0              | 30.0              | 30.0              | 30.0              | 120.0                 |
| Pima Street Pedestrian Pathway Enhancements   | -0-               | -0-               | 1.0               | 1.0               | 1.0               | 3.0                   |
| Regional Transportation Data Network          | -0-               | 100.0             | 100.0             | 100.0             | 100.0             | 400.0                 |
| Rio Vista Safe Routes to School               | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Robison Safe Routes to School                 | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Speedway: Camino Seco to Houghton             | -0-               | -0-               | 7.5               | 7.5               | 7.5               | 22.5                  |
| Stone Ave: Drachman and Speedway Improvements | -0-               | 5.0               | 5.0               | 5.0               | 5.0               | 20.0                  |
| Street Improvements Proposition 409           | -0-               | -0-               | -0-               | 25.0              | 25.0              | 50.0                  |
| Treat Avenue Bike Boulevard                   | -0-               | 0.5               | 0.5               | 0.5               | 0.5               | 2.0                   |
| Tucson Blvd Multi-use Path                    | -0-               | -0-               | 10.0              | 10.0              | 10.0              | 30.0                  |
| Valencia/Hemisphere Loop Hawk                 | 2.0               | 4.0               | 4.0               | 4.0               | 4.0               | 18.0                  |
| Valencia: Alvernon to Kolb                    | -0-               | 5.0               | 5.0               | 5.0               | 5.0               | 20.0                  |
| <b>Total</b>                                  | <b>\$ 38.8</b>    | <b>\$ 303.0</b>   | <b>\$ 375.0</b>   | <b>\$ 450.0</b>   | <b>\$ 455.0</b>   | <b>\$ 1,621.8</b>     |
| <b>Source of Funds Summary</b>                |                   |                   |                   |                   |                   |                       |
| Highway User Revenue Fund                     | \$ 38.8           | \$ 243.0          | \$ 295.0          | \$ 370.0          | \$ 375.0          | \$ 1,321.8            |
| Mass Transit Fund                             | -0-               | -0-               | 20.0              | 20.0              | 20.0              | 60.0                  |
| Regional Transportation Authority Fund        | -0-               | 60.0              | 60.0              | 60.0              | 60.0              | 240.0                 |
| <b>Total</b>                                  | <b>\$ 38.8</b>    | <b>\$ 303.0</b>   | <b>\$ 375.0</b>   | <b>\$ 450.0</b>   | <b>\$ 455.0</b>   | <b>\$ 1,621.8</b>     |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

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

|   | Adopted           | Projected Requirements |                    |                   |                   | Five               |
|---|-------------------|------------------------|--------------------|-------------------|-------------------|--------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018  | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total      |
| <b>Transportation</b>                         |                   |                        |                    |                   |                   |                    |
| 22nd Street: I-10 to Tucson<br>Boulevard      | \$ -0-            | \$ 9,000.0             | \$ -0-             | \$ -0-            | \$ -0-            | \$ 9,000.0         |
| Broadway Boulevard: Euclid to<br>Country Club | -0-               | 12,000.0               | 12,000.0           | -0-               | -0-               | 24,000.0           |
| Five Points Transportation<br>Enhancement     | 408.2             | -0-                    | -0-                | -0-               | -0-               | 408.2              |
| Houghton Road: Bridge<br>Replacement          | 1,750.0           | 1,750.0                | -0-                | -0-               | -0-               | 3,500.0            |
| Houghton Road: Union Pacific                  | 720.0             | 1,430.0                | -0-                | -0-               | -0-               | 2,150.0            |
| <b>Total</b>                                  | <b>\$ 2,878.2</b> | <b>\$ 24,180.0</b>     | <b>\$ 12,000.0</b> | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 39,058.2</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

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

|   | Adopted           |                   | Projected Requirements |                   |                   | Five<br>Year<br>Total |
|---|-------------------|-------------------|------------------------|-------------------|-------------------|-----------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018      | Year 4<br>FY 2019 | Year 5<br>FY 2020 |                       |
| <b>Parks and Recreation</b>                       |                   |                   |                        |                   |                   |                       |
| <b>West District</b>                              |                   |                   |                        |                   |                   |                       |
| A Mountain Improvement                            | \$ -0-            | \$ 78.2           | \$ -0-                 | \$ -0-            | \$ -0-            | \$ 78.2               |
| Christopher Columbus Park<br>Expansion            | -0-               | 25.2              | -0-                    | -0-               | -0-               | 25.2                  |
| John F. Kennedy Park                              | 35.0              | -0-               | -0-                    | -0-               | -0-               | 35.0                  |
| San Juan Park                                     | -0-               | 25.0              | -0-                    | -0-               | -0-               | 25.0                  |
| <b>West District Subtotal</b>                     | <b>\$ 35.0</b>    | <b>\$ 128.4</b>   | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 163.4</b>       |
| <b>East District</b>                              |                   |                   |                        |                   |                   |                       |
| Arcadia Park, Phase I                             | \$ 145.5          | \$ 141.0          | \$ -0-                 | \$ -0-            | \$ -0-            | \$ 286.5              |
| Jesse Owens Park                                  | -0-               | 25.0              | -0-                    | -0-               | -0-               | 25.0                  |
| Palo Verde Park                                   | -0-               | 25.0              | -0-                    | -0-               | -0-               | 25.0                  |
| Parks Strategic Plan                              | 233.0             | -0-               | -0-                    | -0-               | -0-               | 233.0                 |
| South Central Community Park,<br>Phase I          | -0-               | 117.9             | 267.9                  | -0-               | -0-               | 385.8                 |
| <b>East District Subtotal</b>                     | <b>\$ 378.5</b>   | <b>\$ 308.9</b>   | <b>\$ 267.9</b>        | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 955.3</b>       |
| <b>Central District</b>                           |                   |                   |                        |                   |                   |                       |
| Arroyo Chico Urban Path:<br>Country Club to Treat | \$ 257.5          | \$ -0-            | \$ -0-                 | \$ -0-            | \$ -0-            | \$ 257.5              |
| Reid Park Expansion Phase I                       | 951.6             | 158.8             | -0-                    | -0-               | -0-               | 1,110.4               |
| <b>Central District Subtotal</b>                  | <b>\$ 1,209.1</b> | <b>\$ 158.8</b>   | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 1,367.9</b>     |
| <b>Southeast District</b>                         |                   |                   |                        |                   |                   |                       |
| Purple Heart Park Expansion                       | \$ 333.5          | \$ -0-            | \$ -0-                 | \$ -0-            | \$ -0-            | \$ 333.5              |
| South Central Community Park,<br>Phase I          | 95.8              | 152.6             | -0-                    | -0-               | -0-               | 248.4                 |
| <b>Southeast District Subtotal</b>                | <b>\$ 429.3</b>   | <b>\$ 152.6</b>   | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 581.9</b>       |
| <b>Southlands District</b>                        |                   |                   |                        |                   |                   |                       |
| Valencia and Alvernon Community<br>Park, Phase I  | \$ -0-            | \$ 253.3          | \$ 350.0               | \$ -0-            | \$ -0-            | \$ 603.3              |
| Valencia Corridor Land<br>Acquisition, Phase I    | 50.0              | 455.5             | 464.4                  | 21.4              | -0-               | 991.3                 |
| <b>Southlands District Subtotal</b>               | <b>\$ 50.0</b>    | <b>\$ 708.8</b>   | <b>\$ 814.4</b>        | <b>\$ 21.4</b>    | <b>\$ -0-</b>     | <b>\$ 1,594.6</b>     |
| <b>Parks and Recreation Total</b>                 | <b>\$ 2,101.9</b> | <b>\$ 1,457.5</b> | <b>\$ 1,082.3</b>      | <b>\$ 21.4</b>    | <b>\$ -0-</b>     | <b>\$ 4,663.1</b>     |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

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

|   | Adopted           |                   | Projected Requirements |                   |                   | Five<br>Year<br>Total |
|---|-------------------|-------------------|------------------------|-------------------|-------------------|-----------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018      | Year 4<br>FY 2019 | Year 5<br>FY 2020 |                       |
| <b>Transportation</b>                               |                   |                   |                        |                   |                   |                       |
| <b>West District</b>                                |                   |                   |                        |                   |                   |                       |
| Silverbell Road: Grant to Ina                       | \$ 800.0          | \$ 800.0          | \$ 200.0               | \$ 1,200.0        | \$ -0-            | \$ 3,000.0            |
| Sunset: Silverbell to I-10 to River                 | 1,700.0           | 1,700.0           | -0-                    | -0-               | -0-               | 3,400.0               |
| <b>West District Subtotal</b>                       | <b>\$ 2,500.0</b> | <b>\$ 2,500.0</b> | <b>\$ 200.0</b>        | <b>\$ 1,200.0</b> | <b>\$ -0-</b>     | <b>\$ 6,400.0</b>     |
| <b>East District</b>                                |                   |                   |                        |                   |                   |                       |
| Broadway: Camino Seco to Houghton                   | \$ -0-            | \$ 1,500.0        | \$ 1,500.0             | \$ -0-            | \$ -0-            | \$ 3,000.0            |
| Houghton Road: Broadway to 22nd Street              | 2,572.0           | -0-               | -0-                    | -0-               | -0-               | 2,572.0               |
| Houghton Road: Golf Links Intersection Improvements | 500.0             | -0-               | -0-                    | -0-               | -0-               | 500.0                 |
| <b>East District Subtotal</b>                       | <b>\$ 3,072.0</b> | <b>\$ 1,500.0</b> | <b>\$ 1,500.0</b>      | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 6,072.0</b>     |
| <b>Central District</b>                             |                   |                   |                        |                   |                   |                       |
| 22nd Street: I-10 to Tucson Boulevard               | \$ 298.9          | \$ 1,000.0        | \$ -0-                 | \$ 1,313.6        | \$ -0-            | \$ 2,612.5            |
| Broadway: Euclid to Country Club                    | 1,500.0           | -0-               | 1,500.0                | -0-               | -0-               | 3,000.0               |
| Grant: Oracle to Swan                               | 100.0             | 900.0             | 3,000.0                | 2,000.0           | -0-               | 6,000.0               |
| <b>Central District Subtotal</b>                    | <b>\$ 1,898.9</b> | <b>\$ 1,900.0</b> | <b>\$ 4,500.0</b>      | <b>\$ 3,313.6</b> | <b>\$ -0-</b>     | <b>\$ 11,612.5</b>    |
| <b>Southeast District</b>                           |                   |                   |                        |                   |                   |                       |
| Houghton Road: Union Pacific Railroad to I-10       | \$ 220.0          | \$ 330.0          | \$ -0-                 | \$ -0-            | \$ -0-            | \$ 550.0              |
| Valencia: Kolb to Houghton                          | -0-               | -0-               | 5,000.0                | 2,000.0           | 2,000.0           | 9,000.0               |
| <b>Southeast District Subtotal</b>                  | <b>\$ 220.0</b>   | <b>\$ 330.0</b>   | <b>\$ 5,000.0</b>      | <b>\$ 2,000.0</b> | <b>\$ 2,000.0</b> | <b>\$ 9,550.0</b>     |
| <b>Transportation Total</b>                         | <b>\$ 7,690.9</b> | <b>\$ 6,230.0</b> | <b>\$ 11,200.0</b>     | <b>\$ 6,513.6</b> | <b>\$ 2,000.0</b> | <b>\$ 33,634.5</b>    |
| <b>Total</b>  | <b>\$ 9,792.8</b> | <b>\$ 7,687.5</b> | <b>\$ 12,282.3</b>     | <b>\$ 6,535.0</b> | <b>\$ 2,000.0</b> | <b>\$ 38,297.6</b>    |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## CITY COURT

(\$000)

| Project Name                   | Adopted           | Projected Requirements |                   |                   |                   | Five              |
|--------------------------------|-------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
|                                | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total     |
| Court Building Remodel         | \$ 2,600.0        | \$ 400.0               | \$ -0-            | \$ -0-            | \$ -0-            | \$ 3,000.0        |
| <b>Total</b>                   | <b>\$ 2,600.0</b> | <b>\$ 400.0</b>        | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 3,000.0</b> |
| <b>Source of Funds Summary</b> |                   |                        |                   |                   |                   |                   |
| Capital Improvement Fund       | \$ 2,600.0        | \$ 400.0               | \$ -0-            | \$ -0-            | \$ -0-            | \$ 3,000.0        |
| <b>Total</b>                   | <b>\$ 2,600.0</b> | <b>\$ 400.0</b>        | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 3,000.0</b> |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**ENVIRONMENTAL SERVICES**  
(\$000)

| Project Name  | Adopted            | Projected Requirements |                   |                   |                   | Five               |
|---|--------------------|------------------------|-------------------|-------------------|-------------------|--------------------|
|   | Year 1<br>FY 2016  | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total      |
| Los Reales Landfill Administration Building           | \$ 53.0            | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 53.0            |
| Los Reales Landfill East Property Acquisition         | 1,136.0            | -0-                    | -0-               | -0-               | -0-               | 1,136.0            |
| Los Reales Landfill Self Hauler Facility              | 2,150.0            | 2,500.0                | -0-               | -0-               | -0-               | 4,650.0            |
| Silverbell Landfill Water Quality Revolving Fund Pump | 5,600.0            | -0-                    | -0-               | -0-               | -0-               | 5,600.0            |
| Tenth Avenue Maintenance Facility                     | 3,000.0            | 1,700.0                | -0-               | -0-               | -0-               | 4,700.0            |
| <b>Total</b>  | <b>\$ 11,939.0</b> | <b>\$ 4,200.0</b>      | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 16,139.0</b> |
| <b>Source of Funds Summary</b>                        |                    |                        |                   |                   |                   |                    |
| Environmental Services Fund                           | \$ 11,939.0        | \$ 4,200.0             | \$ -0-            | \$ -0-            | \$ -0-            | \$ 16,139.0        |
| <b>Total</b>  | <b>\$ 11,939.0</b> | <b>\$ 4,200.0</b>      | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 16,139.0</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## GENERAL SERVICES

(\$000)

| Project Name                      | Adopted            | Projected Requirements |                   |                   |                   | Five               |
|-----------------------------------|--------------------|------------------------|-------------------|-------------------|-------------------|--------------------|
|                                   | Year 1<br>FY 2016  | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total      |
| CNG Fueling Plant Upgrade         | \$ 12,302.5        | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 12,302.5        |
| <b>Total</b>                      | <b>\$ 12,302.5</b> | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 12,302.5</b> |
| <b>Source of Funds Summary</b>    |                    |                        |                   |                   |                   |                    |
| Capital Improvement Fund          | \$ 2,566.5         | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 2,566.5         |
| Environmental Services Fund       | 6,236.0            | -0-                    | -0-               | -0-               | -0-               | 6,236.0            |
| Mass Transit Fund: Federal Grants | 3,500.0            | -0-                    | -0-               | -0-               | -0-               | 3,500.0            |
| <b>Total</b>                      | <b>\$ 12,302.5</b> | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 12,302.5</b> |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**HOUSING and COMMUNITY DEVELOPMENT**  
(\$000)

| Project Name                                    | Adopted           | Projected Requirements |                   |                   |                   | Five              |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total     |
| Community Development Block<br>Grant Master CIP | \$ 1,000.0        | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 1,000.0        |
| Neighborhood Stabilization:<br>Program III      | 160.2             | -0-                    | -0-               | -0-               | -0-               | 160.2             |
| <b>Total</b>                                    | <b>\$ 1,160.2</b> | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 1,160.2</b> |
| <b>Source of Funds Summary</b>                  |                   |                        |                   |                   |                   |                   |
| Community Development<br>Block Grant Fund       | \$ 1,160.2        | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 1,160.2        |
| <b>Total</b>                                    | <b>\$ 1,160.2</b> | <b>\$ -0-</b>          | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 1,160.2</b> |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**PARKS and RECREATION**  
(\$000)

| Project Name                                      | Adopted           | Projected Requirements |                   |                   |                   | Five              |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total     |
| A Mountain Improvement                            | \$ -0-            | \$ 78.2                | \$ -0-            | \$ -0-            | \$ -0-            | \$ 78.2           |
| Arcadia Park, Phase I                             | 145.5             | 141.0                  | -0-               | -0-               | -0-               | 286.5             |
| Arroyo Chico Urban Path:<br>Country Club to Treat | 257.5             | -0-                    | -0-               | -0-               | -0-               | 257.5             |
| Christopher Columbus Park<br>Expansion            | -0-               | 25.2                   | -0-               | -0-               | -0-               | 25.2              |
| Jesse Owens Park                                  | -0-               | 25.0                   | -0-               | -0-               | -0-               | 25.0              |
| John F. Kennedy Park                              | 35.0              | -0-                    | -0-               | -0-               | -0-               | 35.0              |
| Palo Verde Park                                   | -0-               | 25.0                   | -0-               | -0-               | -0-               | 25.0              |
| Parks Strategic Plan                              | 233.0             | -0-                    | -0-               | -0-               | -0-               | 233.0             |
| Purple Heart Park Expansion                       | 333.5             | -0-                    | -0-               | -0-               | -0-               | 333.5             |
| Reid Park Expansion, Phase 1                      | 951.6             | 158.8                  | -0-               | -0-               | -0-               | 1,110.4           |
| Reid Park Zoo Health Center                       | 2,359.1           | 1,172.1                | -0-               | -0-               | -0-               | 3,531.2           |
| San Juan Park                                     | -0-               | 25.0                   | -0-               | -0-               | -0-               | 25.0              |
| Shade Structure Projects                          | 50.0              | 50.0                   | 50.0              | 50.0              | 50.0              | 250.0             |
| South Central Community Park,<br>Phase I          | 95.8              | 270.5                  | 267.9             | -0-               | -0-               | 634.2             |
| Valencia and Alvernon<br>Community Park, Phase I  | -0-               | 253.3                  | 350.0             | -0-               | -0-               | 603.3             |
| Valencia Corridor Land<br>Acquisition, Phase I    | 50.0              | 455.5                  | 464.4             | 21.4              | -0-               | 991.3             |
| <b>Total</b>                                      | <b>\$ 4,511.0</b> | <b>\$ 2,679.6</b>      | <b>\$ 1,132.3</b> | <b>\$ 71.4</b>    | <b>\$ 50.0</b>    | <b>\$ 8,444.3</b> |

**Source of Funds Summary**

|   |                   |                   |                   |                |                |                   |
|---|-------------------|-------------------|-------------------|----------------|----------------|-------------------|
| Capital Improvement Fund                        | \$ 2,344.1        | \$ 1,172          | \$ -0-            | \$ -0-         | \$ -0-         | \$ 3,516.2        |
| Civic Contributions Fund                        | 65.0              | 50.0              | 50.0              | 50.0           | 50.0           | 265.0             |
| Impact Fee Fund: Central<br>Benefit District    | 1,209.1           | 158.8             | -0-               | -0-            | -0-            | 1,367.9           |
| Impact Fee Fund: East Benefit<br>District       | 378.5             | 308.9             | 267.9             | -0-            | -0-            | 955.3             |
| Impact Fee Fund: Southeast<br>Benefit District  | 429.3             | 152.6             | -0-               | -0-            | -0-            | 581.9             |
| Impact Fee Fund: Southlands<br>Benefit District | 50.0              | 708.8             | 814.4             | 21.4           | -0-            | 1,594.6           |
| Impact Fee Fund: West Benefit<br>District       | 35.0              | 128.4             | -0-               | -0-            | -0-            | 163.4             |
| <b>Total</b>                                    | <b>\$ 4,511.0</b> | <b>\$ 2,679.6</b> | <b>\$ 1,132.3</b> | <b>\$ 71.4</b> | <b>\$ 50.0</b> | <b>\$ 8,444.3</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## TRANSPORTATION

(\$000)

| Project Name                                      | Adopted           | Projected Requirements |                   |                   |                   | Five          |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|---------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total |
| 22nd Street: Avenida Siro HAWK                    | \$ 10.0           | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 10.0       |
| 22nd Street: I-10 to Tucson<br>Boulevard          | 5,053.9           | 15,755.0               | 31,586.4          | 35,672.5          | -0-               | 88,067.8      |
| 4th/Congress/Toole Bike Pedestrian<br>Improvement | 43.0              | 338.0                  | -0-               | -0-               | -0-               | 381.0         |
| ADA Transit Enhancements                          | 662.3             | 170.8                  | 170.8             | 170.8             | 170.8             | 1,345.5       |
| ADA Transition Plan                               | 1,952.0           | 1,348.0                | -0-               | -0-               | -0-               | 3,300.0       |
| Administration Building Upgrades                  | 400.0             | -0-                    | 532.0             | 480.0             | 880.0             | 2,292.0       |
| Arroyo Chico Greenway                             | 546.3             | -0-                    | -0-               | -0-               | -0-               | 546.3         |
| Arroyo Chico Greenway Extension                   | 106.0             | -0-                    | -0-               | -0-               | -0-               | 106.0         |
| Barraza-Aviation Downtown Links,<br>Phase I       | 10,010.0          | 13,653.0               | 12,553.1          | 15,100.0          | 7,100.0           | 58,416.1      |
| Broadway Boulevard: Camino Seco<br>to Houghton    | 322.0             | 7,571.0                | 1,500.0           | -0-               | -0-               | 9,393.0       |
| Broadway Boulevard: Euclid to<br>Country Club     | 4,751.3           | 28,318.3               | 29,818.2          | -0-               | -0-               | 62,887.8      |
| Campbell and 9th HAWK                             | 15.0              | -0-                    | -0-               | -0-               | -0-               | 15.0          |
| Campbell Avenue Revitalization                    | 724.7             | -0-                    | -0-               | -0-               | -0-               | 724.7         |
| CNG Fueling System                                | 500.0             | 4,000.0                | 4,000.0           | -0-               | -0-               | 8,500.0       |
| Columbus Corridor Pedestrian<br>Path              | 201.7             | -0-                    | -0-               | -0-               | -0-               | 201.7         |
| Communication System<br>Improvements              | 566.0             | -0-                    | -0-               | -0-               | -0-               | 566.0         |
| Copper Street Bike Boulevard                      | 300.0             | 114.3                  | -0-               | -0-               | -0-               | 414.3         |
| Craycroft and Ft. Lowell Park HAWK                | 15.0              | -0-                    | -0-               | -0-               | -0-               | 15.0          |
| El Paso and Southwestern<br>Greenway              | 908.0             | 300.0                  | -0-               | -0-               | -0-               | 1,208.0       |
| Expansion Vans for Sun Van                        | 190.0             | -0-                    | -0-               | -0-               | -0-               | 190.0         |
| Facility Bus Wash                                 | -0-               | -0-                    | -0-               | 450.0             | -0-               | 450.0         |
| Fifth Street Bike Boulevard                       | 342.5             | -0-                    | -0-               | -0-               | -0-               | 342.5         |
| First Avenue: Grant to River                      | 500.0             | -0-                    | -0-               | -0-               | -0-               | 500.0         |
| Five Points Pedestrian Improvements               | 418.0             | -0-                    | -0-               | -0-               | -0-               | 418.0         |
| Five Points Transportation<br>Enhancement         | 1,533.2           | 200.0                  | -0-               | -0-               | -0-               | 1,733.2       |
| Gila Panther Tracks Safe Routes<br>to School      | 300.4             | -0-                    | -0-               | -0-               | -0-               | 300.4         |
| Glenn Street Transportation<br>Enhancement        | 604.2             | -0-                    | -0-               | -0-               | -0-               | 604.2         |
| Grant and Sahuara HAWK                            | 15.0              | -0-                    | -0-               | -0-               | -0-               | 15.0          |
| Grant: Oracle to Swan                             | 30,868.9          | 30,905.0               | 14,005.0          | 13,005.0          | 11,569.0          | 100,352.9     |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## TRANSPORTATION

(\$000)

| Project Name (Continued)                            | Adopted           | Projected Requirements |                   |                   |                   | Five          |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|---------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total |
| Houghton Road: Bridge Replacement                   | \$ 7,261.1        | \$ 7,250.5             | \$ -0-            | \$ 3,000          | \$ -0-            | \$ 17,511.6   |
| Houghton Road: Broadway to 22nd Street              | 12,642.0          | 5.0                    | -0-               | -0-               | -0-               | 12,647.0      |
| Houghton Road: Golf Links Intersection Improvements | 500.0             | 500.0                  | -0-               | -0-               | -0-               | 1,000.0       |
| Houghton Road: Irvington to Valencia                | 20.0              | 5.0                    | -0-               | -0-               | -0-               | 25.0          |
| Houghton Road: Union Pacific Railroad to I-10       | 7,507.3           | 1,760.0                | -0-               | -0-               | -0-               | 9,267.3       |
| Houghton: Valencia to Mary Ann Cleveland Way        | 700.0             | 300.0                  | -0-               | 10,000.0          | -0-               | 11,000.0      |
| Intermodal Center Projects                          | 1,800.0           | -0-                    | -0-               | -0-               | -0-               | 1,800.0       |
| Kolb Road Connection to Sabino Canyon               | 17,154.5          | -0-                    | -0-               | -0-               | -0-               | 17,154.5      |
| Kolb Road: Irvington to Valencia                    | 633.0             | 133.0                  | 105.1             | 2,114.0           | -0-               | 2,985.1       |
| Laos Transit Center                                 | 130.0             | -0-                    | -0-               | -0-               | -0-               | 130.0         |
| LED Street Light Conversion                         | 1,500.0           | 13,500.0               | -0-               | -0-               | -0-               | 15,000.0      |
| Liberty Avenue Bicycle Boulevard                    | 1,197.0           | -0-                    | -0-               | -0-               | -0-               | 1,197.0       |
| Pantano Repaving: Escalante to Irvington            | 2,128.8           | -0-                    | -0-               | -0-               | -0-               | 2,128.8       |
| Park-and-Ride Lot: Houghton                         | 20.0              | -0-                    | -0-               | -0-               | -0-               | 20.0          |
| Park-and-Ride Lot: Rita Ranch                       | 10.0              | -0-                    | -0-               | -0-               | -0-               | 10.0          |
| Park-and-Ride Lot Improvements for Sun Tran         | -0-               | 160.0                  | 380.0             | -0-               | -0-               | 540.0         |
| Park Avenue Transportation Enhancement              | 532.4             | -0-                    | -0-               | -0-               | -0-               | 532.4         |
| Pima Street Pedestrian Pathway Enhancements         | 636.0             | -0-                    | -0-               | -0-               | -0-               | 636.0         |
| Regional Transportation Data Network                | 2,181.2           | -0-                    | -0-               | -0-               | -0-               | 2,181.2       |
| Replacement Buses for Sun Tran                      | 6,030.0           | -0-                    | 11,696.0          | 10,907.0          | 8,280.0           | 36,913.0      |
| Replacement Vans for Sun Van                        | 5,784.0           | 1,824.0                | 2,178.0           | 2,244.0           | 3,675.0           | 15,705.0      |
| Rio Vista Safe Routes to School                     | 289.0             | -0-                    | -0-               | -0-               | -0-               | 289.0         |
| Robison Safe Routes to School                       | 370.0             | -0-                    | -0-               | -0-               | -0-               | 370.0         |
| Safe Routes to School Program                       | 265.0             | -0-                    | -0-               | -0-               | -0-               | 265.0         |
| Security for Transit                                | 170.8             | 170.8                  | 170.8             | 170.8             | 170.8             | 854.0         |
| Silverbell: Ina to Grant Road                       | 13,388.5          | 3,405.0                | 8,249.0           | 17,200.0          | -0-               | 42,242.5      |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## TRANSPORTATION

(\$000)

| Project Name (Continued)                      | Adopted             |                     | Projected Requirements |                     |                    | Five Year Total     |
|---|---------------------|---------------------|------------------------|---------------------|--------------------|---------------------|
|   | Year 1<br>FY 2016   | Year 2<br>FY 2017   | Year 3<br>FY 2018      | Year 4<br>FY 2019   | Year 5<br>FY 2020  |                     |
| Speedway Boulevard at Union Pacific Underpass | \$ 147.9            | \$ -0-              | \$ -0-                 | \$ -0-              | \$ -0-             | \$ 147.9            |
| Stone Ave: Drachman and Speedway Improvements | 2,861.1             | -0-                 | -0-                    | -0-                 | -0-                | 2,861.1             |
| Street Improvements: Proposition 409          | 24,080.0            | 21,080.0            | 20,980.0               | -0-                 | -0-                | 66,140.0            |
| Sunset: Silverbell to I-10 to River           | 1,700.0             | 1,700.0             | -0-                    | -0-                 | -0-                | 3,400.0             |
| Sun Tran Maintenance Equipment                | -0-                 | 200.0               | -0-                    | -0-                 | -0-                | 200.0               |
| Transit Centers Improvements                  | 475.0               | 360.0               | -0-                    | -0-                 | -0-                | 835.0               |
| Transit Facility Improvements                 | 4,000.0             | -0-                 | -0-                    | -0-                 | -0-                | 4,000.0             |
| Treat Avenue Bike Boulevard                   | 122.6               | -0-                 | -0-                    | -0-                 | -0-                | 122.6               |
| Tucson Boulevard Multi-use Path               | 342.6               | 12.0                | -0-                    | -0-                 | -0-                | 354.6               |
| Valencia/Hemisphere Loop HAWK                 | 30.0                | 145.0               | -0-                    | -0-                 | -0-                | 175.0               |
| Valencia: Kolb to Houghton                    | 2,404.0             | 5.0                 | 6,395.0                | 13,044.0            | 13,044.0           | 34,892.0            |
| <b>Total</b>                                  | <b>\$ 180,873.2</b> | <b>\$ 155,188.7</b> | <b>\$ 144,319.4</b>    | <b>\$ 123,558.1</b> | <b>\$ 44,889.6</b> | <b>\$ 648,829.0</b> |
| <b>Source of Funds Summary</b>                |                     |                     |                        |                     |                    |                     |
| 2014 General Obligation Street Bonds          | \$ 22,780.0         | \$ 19,780.0         | \$ 19,780.0            | \$ -0-              | \$ -0-             | \$ 62,340.0         |
| Capital Agreement Fund: PAG                   | 5,024.7             | 1,500.0             | 7,044.0                | 9,214.0             | -0-                | 22,782.7            |
| Capital Agreement Fund: Pima County Bonds     | 2,878.2             | 24,180.0            | 12,000.0               | -0-                 | -0-                | 39,058.2            |
| Federal Highway Administration Grants         | 33,876.3            | 4,432.0             | 100.0                  | 10,000.0            | -0-                | 48,408.3            |
| Highway User Revenue Fund                     | 3,298.6             | 15,079.5            | 1,225.1                | 5.0                 | 7,100.0            | 26,708.2            |
| Mass Transit Fund: Federal Grants             | 16,295.0            | 4,995.2             | 15,153.2               | 11,644.2            | 10,291.2           | 58,378.8            |
| Mass Transit Fund: General Fund               | 3,717.1             | 1,890.4             | 3,974.4                | 2,778.4             | 2,885.4            | 15,245.7            |
| Regional Transportation Authority Fund        | 85,312.4            | 77,101.6            | 73,842.7               | 83,402.9            | 22,613.0           | 342,272.6           |
| Impact Fee Fund: Central District             | 1,898.9             | 1,900.0             | 4,500.0                | 3,313.6             | -0-                | 11,612.5            |
| Impact Fee Fund: East District                | 3,072.0             | 1,500.0             | 1,500.0                | -0-                 | -0-                | 6,072.0             |
| Impact Fee Fund: Southeast District           | 220.0               | 330.0               | 5,000.0                | 2,000.0             | 2,000.0            | 9,550.0             |
| Impact Fee Fund: West District                | 2,500.0             | 2,500.0             | 200.0                  | 1,200.0             | -0-                | 6,400.0             |
| <b>Total</b>                                  | <b>\$ 180,873.2</b> | <b>\$ 155,188.7</b> | <b>\$ 144,319.4</b>    | <b>\$ 123,558.1</b> | <b>\$ 44,889.6</b> | <b>\$ 648,829.0</b> |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**TUCSON WATER**  
(\$000)

| Project Name  | Adopted           | Projected Requirements |                   |                   |                   |               | Five |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|---------------|------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total |      |
| 48" Aviation/3rd Ave Cathodic Protection System       | \$ 203.0          | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 203.0      |      |
| Academy Reservoir                                     | 743.0             | -0-                    | -0-               | -0-               | -0-               | 743.0         |      |
| Advanced Metering Infrastructure                      | 1,241.0           | 733.0                  | 726.0             | 756.0             | 780.0             | 4,236.0       |      |
| Arc Flash Service Upgrades                            | 457.0             | 282.0                  | 558.0             | 582.0             | 600.0             | 2,479.0       |      |
| Augmentation Surge Protection Facility                | -0-               | -0-                    | 112.0             | 814.0             | -0-               | 926.0         |      |
| AV-020B/SA-013A Recovery Well Drilling                | 350.0             | -0-                    | -0-               | -0-               | -0-               | 350.0         |      |
| Avra Valley Transmission Main Augmentation, Phase I   | -0-               | 965.0                  | 12,600.0          | 13,084.0          | -0-               | 26,649.0      |      |
| Avra Valley Transmission Main Augmentation, Phase II  | -0-               | -0-                    | -0-               | 1,512.0           | 9,842.0           | 11,354.0      |      |
| Avra Valley Transmission Main Augmentation, Phase III | -0-               | -0-                    | -0-               | -0-               | 1,116.0           | 1,116.0       |      |
| Bailey Sleeve Valve Replacement                       | 977.0             | -0-                    | -0-               | -0-               | -0-               | 977.0         |      |
| Bilby/Country Club Reservoir                          | -0-               | -0-                    | -0-               | 290.0             | 300.0             | 590.0         |      |
| Calle Santa Cruz Transmission Main Replacement        | 56.0              | 2,425.0                | -0-               | -0-               | -0-               | 2,481.0       |      |
| Camino de Oeste Pressure Reducing Valve at Thornydale | 150.0             | -0-                    | -0-               | -0-               | -0-               | 150.0         |      |
| Cathodic Protection for Critical Pipelines            | 677.0             | 677.0                  | 670.0             | 698.0             | 720.0             | 3,442.0       |      |
| Cavalier Estates Phase I                              | -0-               | 56.0                   | 400.0             | -0-               | -0-               | 456.0         |      |
| CAVSARP Well Pump Improvements                        | 677.0             | 677.0                  | 670.0             | 698.0             | 720.0             | 3,442.0       |      |
| Chlorine System Improvements                          | 56.0              | 56.0                   | 56.0              | 58.0              | 60.0              | 286.0         |      |
| Clearwell Reservoir Rehabilitation                    | 11.0              | 113.0                  | 6,698.0           | 5,817.0           | 120.0             | 12,759.0      |      |
| Cocio Road Main Replacement Phase I                   | 100.0             | -0-                    | -0-               | -0-               | -0-               | 100.0         |      |
| Cocio Road Main Replacement Phase II                  | 539.0             | -0-                    | -0-               | -0-               | -0-               | 539.0         |      |
| Control Panel Replacements: Potable                   | 113.0             | 113.0                  | 112.0             | 116.0             | 120.0             | 574.0         |      |
| Control Panels: Reclaimed System                      | 282.0             | 282.0                  | 279.0             | 291.0             | 300.0             | 1,434.0       |      |
| Country Club C-Zone Augmentation Transmission Main    | 343.0             | 9,022.0                | 8,261.0           | -0-               | -0-               | 17,626.0      |      |
| Craycroft Addition Subdivision, Phase I               | 1,280.0           | -0-                    | -0-               | -0-               | -0-               | 1,280.0       |      |
| Developer-Financed Reclaimed Systems                  | 68.0              | 68.0                   | 67.0              | 70.0              | 72.0              | 345.0         |      |
| Disinfection Equipment Upgrades                       | 135.0             | 135.0                  | 134.0             | 140.0             | 144.0             | 688.0         |      |
| Drexel Phase I Pressure Reducing Valve                | -0-               | -0-                    | -0-               | 175.0             | -0-               | 175.0         |      |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**TUCSON WATER**  
(\$000)

| Project Name (Continued)                            | Adopted           | Projected Requirements |                   |                   |                   | Five          |
|---|-------------------|------------------------|-------------------|-------------------|-------------------|---------------|
|   | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total |
| Effluent Pump Station Expansion                     | \$ 1,749.0        | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 1,749.0    |
| Emergency Main Replacement                          | 226.0             | 226.0                  | 223.0             | 233.0             | 240.0             | 1,148.0       |
| Equip Reclaimed Well EW-009                         | 508.0             | -0-                    | -0-               | -0-               | -0-               | 508.0         |
| Equip Well A-061                                    | -0-               | 56.0                   | 391.0             | -0-               | -0-               | 447.0         |
| Equip Well W-006                                    | 409.0             | -0-                    | -0-               | -0-               | -0-               | 409.0         |
| Escalante Reservoir                                 | 11.0              | 11.0                   | 11.0              | 175.0             | 780.0             | 988.0         |
| Extensions for New Services                         | 113.0             | 113.0                  | 112.0             | 116.0             | 120.0             | 574.0         |
| Facility Safety and Security<br>Infrastructure      | 1,128.0           | 1,128.0                | 1,116.0           | 1,163.0           | 1,200.0           | 5,735.0       |
| Fifth Street Distribution Main                      | 141.0             | -0-                    | -0-               | -0-               | -0-               | 141.0         |
| Filtration Modifications at<br>Reclaimed Plant      | 6,613.0           | -0-                    | -0-               | -0-               | -0-               | 6,613.0       |
| Fire Services                                       | 2,144.0           | 2,143.0                | 2,233.0           | 2,327.0           | 2,400.0           | 11,247.0      |
| Gas Engines   | 846.0             | 846.0                  | 837.0             | 873.0             | 900.0             | 4,302.0       |
| Golf Links Main Replacement<br>Phase II             | 418.0             | -0-                    | -0-               | -0-               | -0-               | 418.0         |
| Golf Links Phase V                                  | 56.0              | 564.0                  | -0-               | -0-               | -0-               | 620.0         |
| Hayden-Udall Prime Reservoir<br>and Booster Upgrade | -0-               | 564.0                  | 9,489.0           | 5,654.0           | -0-               | 15,707.0      |
| Houghton Road Reclaimed Reservoir                   | 56.0              | 2,819.0                | 28.0              | -0-               | -0-               | 2,903.0       |
| La Entrada Electrical Service<br>Modernization      | 339.0             | 262.0                  | -0-               | -0-               | -0-               | 601.0         |
| Line Replacement - 3/4"                             | 677.0             | 677.0                  | 670.0             | 698.0             | 720.0             | 3,442.0       |
| Manzanita Tank Lining                               | -0-               | 11.0                   | 11.0              | 35.0              | 780.0             | 837.0         |
| Maryvale Manor Subdivision,<br>Phase I              | 550.0             | -0-                    | -0-               | -0-               | -0-               | 550.0         |
| Maryvale Manor Subdivision,<br>Phase II             | 1,180.0           | -0-                    | -0-               | -0-               | -0-               | 1,180.0       |
| Meter Upgrade and Replacement<br>Program            | 5,105.0           | 6,793.0                | 6,725.0           | 6,864.0           | 4,681.0           | 30,168.0      |
| Miscellaneous Land and<br>Right-of-Way Acquisitions | 11.0              | 11.0                   | 11.0              | 12.0              | 12.0              | 57.0          |
| Monitor Wells                                       | 113.0             | -0-                    | -0-               | -0-               | -0-               | 113.0         |
| New Metered Services                                | 56.0              | 56.0                   | 56.0              | 58.0              | 60.0              | 286.0         |
| Northgate Subdivision, Phase I                      | 750.0             | -0-                    | -0-               | -0-               | -0-               | 750.0         |
| Northgate Subdivision, Phase II                     | 350.0             | -0-                    | -0-               | -0-               | -0-               | 350.0         |
| On-Call Valve Replacement<br>Program                | 903.0             | 902.0                  | 893.0             | 931.0             | 960.0             | 4,589.0       |
| Park Avenue B-Zone Augmentation<br>Main             | -0-               | -0-                    | -0-               | 873.0             | 5,521.0           | 6,394.0       |
| Payments to Developers for<br>Oversized Systems     | 113.0             | 113.0                  | 112.0             | 116.0             | 120.0             | 574.0         |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**TUCSON WATER**  
(\$000)

| Project Name (Continued)                               | Adopted           |                   | Projected Requirements |                   |                   | Five Year Total |
|--|-------------------|-------------------|------------------------|-------------------|-------------------|-----------------|
|  | Year 1<br>FY 2016 | Year 2<br>FY 2017 | Year 3<br>FY 2018      | Year 4<br>FY 2019 | Year 5<br>FY 2020 |                 |
| Pipeline Protection: Acoustic Monitoring               | \$ 226.0          | \$ 226.0          | \$ 223.0               | \$ 233.0          | \$ 240.0          | \$ 1,148.0      |
| Plant 2 Relocation                                     | 1,580.0           | 169.0             | -0-                    | -0-               | -0-               | 1,749.0         |
| Potable MOV at Thornydale Reclaimed Reservoir          | 50.0              | -0-               | -0-                    | -0-               | -0-               | 50.0            |
| Pressure Tank Replacement                              | 508.0             | 507.0             | 502.0                  | 524.0             | 540.0             | 2,581.0         |
| Production Well Sites                                  | 85.0              | 85.0              | 84.0                   | 87.0              | 90.0              | 431.0           |
| Pumping Facility Modifications                         | 350.0             | 350.0             | 346.0                  | 361.0             | 372.0             | 1,779.0         |
| Rauscher Reservoir Rehabilitation                      | 5,642.0           | 11.0              | -0-                    | -0-               | -0-               | 5,653.0         |
| Reclaimed Emergency Main Enhancements                  | 113.0             | 113.0             | 112.0                  | 116.0             | 120.0             | 574.0           |
| Reclaimed Pressure Reducing Valves                     | 56.0              | 56.0              | 56.0                   | 58.0              | 60.0              | 286.0           |
| Reclaimed Pumping Facility Modifications               | 56.0              | 56.0              | 56.0                   | 58.0              | 60.0              | 286.0           |
| Reclaimed Reservoir and Tank Rehabilitation            | 28.0              | 28.0              | 28.0                   | 29.0              | 30.0              | 143.0           |
| Recycled Water Master Plan                             | 1,016.0           | -0-               | -0-                    | -0-               | -0-               | 1,016.0         |
| Rehabilitation of Critical Transmission Mains          | 361.0             | 361.0             | 335.0                  | 349.0             | 360.0             | 1,766.0         |
| Reservoir and Tank Rehabilitation                      | 56.0              | 56.0              | 56.0                   | 58.0              | 6,001.0           | 6,227.0         |
| Responsive Meter Replacement                           | 564.0             | 564.0             | 558.0                  | 582.0             | 600.0             | 2,868.0         |
| Review Developer-Financed Potable Projects             | 1,072.0           | 1,071.0           | 1,061.0                | 1,105.0           | 1,140.0           | 5,449.0         |
| River Road 12-Inch Main                                | -0-               | -0-               | 33.0                   | 698.0             | -0-               | 731.0           |
| Road Improvement Main Replacements                     | 4,513.0           | 4,511.0           | 4,466.0                | 5,235.0           | 4,201.0           | 22,926.0        |
| SA-016A Recovery Well Drilling                         | -0-               | 677.0             | -0-                    | -0-               | -0-               | 677.0           |
| SA-019A/SA-021A Recovery Well Drilling                 | -0-               | 1,289.0           | -0-                    | -0-               | -0-               | 1,289.0         |
| SA-023A Recovery Well Drilling                         | -0-               | 677.0             | -0-                    | -0-               | -0-               | 677.0           |
| Sahuarita Supply Line Slip Liner                       | 7,264.0           | -0-               | -0-                    | -0-               | -0-               | 7,264.0         |
| San Paulo Village Main Replacement Phase I             | 56.0              | 169.0             | -0-                    | -0-               | -0-               | 225.0           |
| San Paulo Village Main Replacement Phase II            | -0-               | 307.0             | 924.0                  | -0-               | -0-               | 1,231.0         |
| San Paulo Village Main Replacement Phase III           | -0-               | -0-               | 56.0                   | 477.0             | -0-               | 533.0           |
| Santa Cruz SC-008 Well Collector Line                  | 225.0             | -0-               | -0-                    | -0-               | -0-               | 225.0           |
| Santa Cruz Wellfield Chemical Feed/Monitoring Facility | 2,975.0           | -0-               | -0-                    | -0-               | -0-               | 2,975.0         |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**TUCSON WATER**  
(\$000)

| Project Name (Continued)                            | Adopted            |                    | Projected Requirements |                    |                    | Five Year Total     |
|---|--------------------|--------------------|------------------------|--------------------|--------------------|---------------------|
|   | Year 1<br>FY 2016  | Year 2<br>FY 2017  | Year 3<br>FY 2018      | Year 4<br>FY 2019  | Year 5<br>FY 2020  |                     |
| Santa Cruz Wellfield Facility Pipeline              | \$ 610.0           | \$ -0-             | \$ -0-                 | \$ -0-             | \$ -0-             | \$ 610.0            |
| Santa Cruz Wells Re-Equipping                       | 1,097.0            | -0-                | -0-                    | -0-                | -0-                | 1,097.0             |
| Santa Rita Ranch/Houghton<br>Road 12" Main          | 550.0              | -0-                | -0-                    | -0-                | -0-                | 550.0               |
| SAVSARP Collector Lines, Phase II                   | 1,112.0            | -0-                | -0-                    | -0-                | -0-                | 1,112.0             |
| SAVSARP Raw Water Rcvrd<br>Cathodic Protection      | 489.0              | -0-                | -0-                    | -0-                | -0-                | 489.0               |
| SCADA Potable Upgrades                              | 4,563.0            | 4,016.0            | 3,371.0                | 1,186.0            | 1,764.0            | 14,900.0            |
| SCADA Reclaimed                                     | 793.0              | 273.0              | 480.0                  | -0-                | -0-                | 1,546.0             |
| Source Meter Replacement                            | 275.0              | 246.0              | 246.0                  | 256.0              | 264.0              | 1,287.0             |
| Southeast Houghton Area<br>Recharge Project (SHARP) | 226.0              | 2,650.0            | 4,466.0                | -0-                | -0-                | 7,342.0             |
| Southwest Turnout Pressure<br>Reducing Valve        | -0-                | -0-                | -0-                    | 407.0              | -0-                | 407.0               |
| System Enhancements: Reclaimed                      | 282.0              | 282.0              | 279.0                  | 291.0              | 300.0              | 1,434.0             |
| Tanque Verde to Wentworth 8-Inch<br>Main            | -0-                | 27.0               | 250.0                  | -0-                | -0-                | 277.0               |
| TARP R-009A Well                                    | 1,100.0            | -0-                | -0-                    | -0-                | -0-                | 1,100.0             |
| Third Avenue Pressure Reducing<br>Valve             | -0-                | -0-                | -0-                    | -0-                | 120.0              | 120.0               |
| Tierra Del Sol Main Replacement<br>Phase I          | -0-                | -0-                | 56.0                   | 489.0              | -0-                | 545.0               |
| Tierra Del Sol Main Replacement<br>Phase II         | -0-                | -0-                | -0-                    | 58.0               | 504.0              | 562.0               |
| Tierra Del Sol Main Replacement<br>Phase III        | -0-                | -0-                | -0-                    | 58.0               | 744.0              | 802.0               |
| Tierra Del Sol Main Replacement<br>Phase IV         | -0-                | -0-                | -0-                    | 58.0               | 594.0              | 652.0               |
| Trails End Reservoir Rehabilitation                 | -0-                | 11.0               | 11.0                   | 175.0              | 960.0              | 1,157.0             |
| Upgrade Corrosion Test Stations                     | 56.0               | 56.0               | 56.0                   | 58.0               | 60.0               | 286.0               |
| Valley View Reservoir Rehabilitation                | 23.0               | 2,707.0            | -0-                    | -0-                | -0-                | 2,730.0             |
| Valve Access Vault                                  | 113.0              | 113.0              | 112.0                  | 116.0              | 120.0              | 574.0               |
| Water Services                                      | 1,704.0            | 1,703.0            | 1,686.0                | 1,757.0            | 1,812.0            | 8,662.0             |
| Wellfield Upgrades                                  | 1,128.0            | 1,128.0            | 1,116.0                | 1,163.0            | 1,200.0            | 5,735.0             |
| Well W-006 Transmission Main                        | 318.0              | -0-                | -0-                    | -0-                | -0-                | 318.0               |
| Wilmot Main Replacement                             | 947.0              | -0-                | -0-                    | -0-                | -0-                | 947.0               |
| <b>Total</b>  | <b>\$ 75,205.0</b> | <b>\$ 57,394.0</b> | <b>\$ 75,286.0</b>     | <b>\$ 61,271.0</b> | <b>\$ 55,644.0</b> | <b>\$ 324,800.0</b> |

**FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM**  
**TUCSON WATER**  
(\$000)

|  | Adopted            | Projected Requirements |                    |                    |                    | Five                |
|--|--------------------|------------------------|--------------------|--------------------|--------------------|---------------------|
|  | Year 1<br>FY 2016  | Year 2<br>FY 2017      | Year 3<br>FY 2018  | Year 4<br>FY 2019  | Year 5<br>FY 2020  | Year<br>Total       |
| <b>Source of Funds Summary</b>               |                    |                        |                    |                    |                    |                     |
| 2014 Water Revenue System<br>Obligation Fund | \$ 18,070.0        | \$ -0-                 | \$ -0-             | \$ -0-             | \$ -0-             | \$ 18,070.0         |
| 2015 Water Revenue System<br>Obligation Fund | 29,308.0           | -0-                    | -0-                | -0-                | -0-                | 29,308.0            |
| Future Water Revenue Bonds                   | -0-                | 32,632.0               | 40,673.0           | 33,831.0           | 15,611.0           | 122,747.0           |
| Tucson Water Revenue and<br>Operations Fund  | 27,827.0           | 24,762.0               | 34,613.0           | 27,440.0           | 40,033.0           | 154,675.0           |
| <b>Total</b>                                 | <b>\$ 75,205.0</b> | <b>\$ 57,394.0</b>     | <b>\$ 75,286.0</b> | <b>\$ 61,271.0</b> | <b>\$ 55,644.0</b> | <b>\$ 324,800.0</b> |

# FIVE-YEAR CAPITAL IMPROVEMENT PROGRAM

## NON-DEPARTMENTAL

(\$000)

| Project Name                   | Adopted           | Projected Requirements |                   |                   |                   | Five              |
|--------------------------------|-------------------|------------------------|-------------------|-------------------|-------------------|-------------------|
|                                | Year 1<br>FY 2016 | Year 2<br>FY 2017      | Year 3<br>FY 2018 | Year 4<br>FY 2019 | Year 5<br>FY 2020 | Year<br>Total     |
| Kronos Citywide System         | \$ 531.8          | \$ -0-                 | \$ -0-            | \$ -0-            | \$ -0-            | \$ 531.8          |
| Technology Upgrades            | 500.0             | 1,000.0                | -0-               | -0-               | -0-               | 1,500.0           |
| <b>Total</b>                   | <b>\$ 1,031.8</b> | <b>\$ 1,000.0</b>      | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 2,031.8</b> |
| <b>Source of Funds Summary</b> |                   |                        |                   |                   |                   |                   |
| General Fund                   | \$ 1,031.8        | \$ 1,000               | \$ -0-            | \$ -0-            | \$ -0-            | \$ 2,031.8        |
| <b>Total</b>                   | <b>\$ 1,031.8</b> | <b>\$ 1,000</b>        | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ -0-</b>     | <b>\$ 2,031.8</b> |

## Section B Department Programs



## City Court



# Capital Improvement Program Department Statement

**FY 2016 through FY 2020**

**Department:** City Court

**Five-Year Total:** \$3,000,000

The City Court five-year Capital Improvement Program of \$3.0 million addresses the need of renovating and upgrading the City Court building. Renovations include resurfacing of all exterior walkways; exterior wall sealing of the entire building to eliminate water leaks during rain; improvements to the entrance of the building to facilitate traffic flow; interior painting and carpet replacement. Upgrades are being made to boiler systems and Public Service counters to meet Americans with Disabilities Act (ADA) compliance.

## City Court

(\$000)

| <p><b>Court Building Remodel</b></p> <p><b>Description:</b><br/>Renovate and upgrade the existing court building. Renovations would include resurfacing of all exterior walkways; exterior wall sealing of the entire building to eliminate water leaks during rain; improvements to the entrance of the building to facilitate traffic flow; interior painting and carpet replacement. Upgrading boiler systems and public service counters to meet ADA compliance.</p> <p><b>Justification:</b><br/>Repair and improve the existing city court building to keep it operational for the next 15 years.</p> |              |                          |                |                |                        |                |                |                |                 | <p><b>Project ID:</b> C106<br/><b>Start Date:</b> 7/14<br/><b>End Date:</b> 6/17<br/><b>Location:</b> Ward 1</p> |                |
|---|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--|----------------|
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|   |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |                |
| Capital Improvement Fund  | 800.0        | 200.0                    | 2,400.0        | 2,600.0        | 400.0                  | 0.0            | 0.0            | 0.0            | 3,000.0         | 0.0  | 3,800.0        |
| <b>Total</b>  | <b>800.0</b> | <b>200.0</b>             | <b>2,400.0</b> | <b>2,600.0</b> | <b>400.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>3,000.0</b>  | <b>0.0</b>   | <b>3,800.0</b> |

## Environmental Services



# Capital Improvement Program Department Statement

**FY 2016 through FY 2020**

**Department:** Environmental Services

**Five-Year Total:** \$16,139,000

The CIP is Environmental 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, enhancing neighborhoods and downtown by restoring the natural environment and 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 master 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. Phase I, Entrance Facilities, will be completed in FY 2016, with Phase II, Self-Hauler Facility, completed in Fiscal Year 2017.

The five-year program includes projects to design and complete Phases I and II and is funded solely from the department's revenues. Projects are divided into the following categories:

**Facilities and Landfill Construction.** Projects in this category include the improvements to the department's Container Maintenance Facility and construction of facilities for Phases I and II at the Los Reales Landfill.

**Environmental Capital.** The Silverbell Landfill Water Quality Revolving Fund Pump and Treat System is a regulatory project to remove landfill contamination from the groundwater and will protect down gradient wells and the Sweetwater Recharge Facility.

## Environmental Services

(\$000)

| <b>Los Reales Landfill Administration Building</b>  |                |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> Q381<br><b>Start Date:</b> 3/14<br><b>End Date:</b> 6/16<br><b>Location:</b> Ward 5 |                |
|---|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--|----------------|
| <b>Description:</b>   |                |                          |             |              |                        |                |                |                |                 |  |                |
| Install an approximately 5,000 square foot, pre-engineered metal building east of the proposed scale house facility (see Q313).                           |                |                          |             |              |                        |                |                |                |                 |  |                |
| <b>Justification:</b>   |                |                          |             |              |                        |                |                |                |                 |  |                |
| The building will be used by landfill administrative staff and field crews. The structure will include a conference room, locker rooms, and a break room. |                |                          |             |              |                        |                |                |                |                 |  |                |
| Source of Funds Summary   | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|   |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |                |
| Environmental Services Fund   | 1,232.7        | 53.0                     | 0.0         | 53.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 53.0            | 0.0  | 1,285.7        |
| <b>Total</b>  | <b>1,232.7</b> | <b>53.0</b>              | <b>0.0</b>  | <b>53.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>53.0</b>     | <b>0.0</b>   | <b>1,285.7</b> |

| <b>Los Reales Landfill East Property Acquisition</b>                       |                |                          |             |                |                        |                |                |                |                 | <b>Project ID:</b> Q413<br><b>Start Date:</b> 7/13<br><b>End Date:</b> 10/15<br><b>Location:</b> Ward 5 |                |
|--|----------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|---|----------------|
| <b>Description:</b>  |                |                          |             |                |                        |                |                |                |                 |   |                |
| Purchase land located south of Los Reales Road and east of Craycroft Road. |                |                          |             |                |                        |                |                |                |                 |   |                |
| <b>Justification:</b>  |                |                          |             |                |                        |                |                |                |                 |   |                |
| The land will serve as a buffer for neighboring homes.                     |                |                          |             |                |                        |                |                |                |                 |   |                |
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years  | Total Project  |
|  |                | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |   |                |
| Environmental Services Fund  | 1,864.5        | 1,045.0                  | 91.0        | 1,136.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,136.0         | 0.0   | 3,000.5        |
| <b>Total</b>   | <b>1,864.5</b> | <b>1,045.0</b>           | <b>91.0</b> | <b>1,136.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,136.0</b>  | <b>0.0</b>  | <b>3,000.5</b> |

**Los Reales Landfill Self Hauler Facility**

**Description:**  
Design and construct a residential self-hauler facility. The design will begin in Fiscal Year 2016, followed by construction in Fiscal Year 2017. This is the second phase of the 80-acre development.

**Justification:**  
Having a dedicated location for customer drop-off, away from the landfill's working face will increase landfill safety and efficiency, reduce litter and dust and accommodate future recycling programs.

**Project ID:** Q329  
**Start Date:** 7/15  
**End Date:** 6/17  
**Location:** Ward 5

| Source of Funds Summary     | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-----------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                             |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Environmental Services Fund | 0.0         | 0.0                      | 2,150.0        | 2,150.0        | 2,500.0                | 0.0            | 0.0            | 0.0            | 4,650.0         | 0.0          | 4,650.0        |
| <b>Total</b>                | <b>0.0</b>  | <b>0.0</b>               | <b>2,150.0</b> | <b>2,150.0</b> | <b>2,500.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>4,650.0</b>  | <b>0.0</b>   | <b>4,650.0</b> |

**Silverbell Landfill Water Quality Revolving Fund Pump**

**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 is scheduled for 2016, with facility operation spanning 20 years.

**Justification:**  
This project will meet state regulatory requirements to remove landfill volatile organic compound contamination from the groundwater and also protect down gradient wells and the city's Sweetwater Recharge Facility.

**Project ID:** U320  
**Start Date:** 7/15  
**End Date:** 6/16  
**Location:** Ward 1

| Source of Funds Summary     | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-----------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                             |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Environmental Services Fund | 0.0         | 0.0                      | 5,600.0        | 5,600.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 5,600.0         | 0.0          | 5,600.0        |
| <b>Total</b>                | <b>0.0</b>  | <b>0.0</b>               | <b>5,600.0</b> | <b>5,600.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>5,600.0</b>  | <b>0.0</b>   | <b>5,600.0</b> |

**Tenth Avenue Maintenance Facility**

**Project ID:** Q412  
**Start Date:** 10/13  
**End Date:** 6/17  
**Location:** Ward 6

**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.

**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 staff.

| Source of Funds Summary     | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-----------------------------|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                             |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Environmental Services Fund | 249.4        | 0.0                      | 3,000.0        | 3,000.0        | 1,700.0                | 0.0            | 0.0            | 0.0            | 4,700.0         | 0.0          | 4,949.4        |
| <b>Total</b>                | <b>249.4</b> | <b>0.0</b>               | <b>3,000.0</b> | <b>3,000.0</b> | <b>1,700.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>4,700.0</b>  | <b>0.0</b>   | <b>4,949.4</b> |

## General Services



**Capital Improvement Program  
Department Statement**

**FY 2016 through FY 2020**

**Department:** General Services

**Five-Year Total:** \$12,302,500

The General Services CIP of \$12.3 million consists of one project: Replacing the existing aged CNG Plant with a new plant that has the equipment necessary to meet industry vehicle fueling standards and provide for backup emergency generator power to sustain plant operations in the event of a power outage.

This work is funded through Environmental Services Funds, Capital Improvement Funds (COPs), and Federal Grant Funds.

## General Services

(\$000)

| <p><b>Compressed Natural Gas (CNG) Plant</b></p> <p><b>Description:</b><br/>                 This project will replace the existing aged CNG Plant with a new plant that has the equipment necessary to meet industry vehicle fueling standards and provide for backup emergency generator power to sustain plant operations in the event of a power outage. The project, when complete, will better serve both Sun Tran and Environmental Services' planned expansion of the CNG Fleet.</p> <p><b>Justification:</b><br/>                 An analysis of fuel types determined CNG-fueled buses and refuse trucks will cost less to operate over the life cycle compared to non-CNG fleet and will provide the reliability and stability needed to protect the integrity of public service.</p> |                |                          |                 |                 |                        |                |                |                |                 | <p><b>Project ID:</b> M896<br/> <b>Start Date:</b> 7/13<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> Ward 5</p> |                 |
|--|----------------|--------------------------|-----------------|-----------------|------------------------|----------------|----------------|----------------|-----------------|---|-----------------|
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                |                |                | Five Year Total | Future Years  | Total Project   |
|  |                | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |   |                 |
| Capital Improvement Fund   | 0.0            | 0.0                      | 2,566.5         | 2,566.5         | 0.0                    | 0.0            | 0.0            | 0.0            | 2,566.5         | 0.0   | 2,566.5         |
| Environmental Services Fund  | 380.1          | 0.0                      | 6,236.0         | 6,236.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 6,236.0         | 0.0   | 6,616.1         |
| Internal Service Fund  | 300.0          | 0.0                      | 0.0             | 0.0             | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0   | 300.0           |
| Mass Transit Fund  | 420.0          | 0.0                      | 3,500.0         | 3,500.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 3,500.0         | 0.0   | 3,920.0         |
| <b>Total</b>   | <b>1,100.1</b> | <b>0.0</b>               | <b>12,302.5</b> | <b>12,302.5</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>12,302.5</b> | <b>0.0</b>  | <b>13,402.6</b> |

# Housing and Community Development



# Capital Improvement Program Department Statement

**FY 2016 through FY 2020**

**Department:** Housing and Community Development

**Five-Year Total:** \$1,160,200

The Housing and Community Development Department's CIP consists of two projects:

- 1) CDBG Public Facilities Neighborhood Enhancements for Parks and/or Transportation to provide and meet objectives of the United States Department of Housing and Urban Development Consolidated Annual Action Plan.
- 2) To continue with acquisition, rehabilitation, and resale of eight single-family foreclosed homes located citywide. These homes will be rehabilitated in an environmentally-friendly manner. This project will stabilize neighborhoods with high foreclosure rates, increase affordable housing, and will benefit low-income families.

The Housing and Community Development Department's five-year CIP is funded with \$1,160,200 in federal grants.

## Housing and Community Development

(\$000)

| <b>Community Development Block Grant (CDBG) Master CIP</b>  |             |                          |                |                |                        |                |                |                | <b>Project ID:</b> H158<br><b>Start Date:</b> Annual<br><b>End Date:</b> Annual<br><b>Location:</b> City |              |                |
|---|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|--|--------------|----------------|
| <b>Description:</b><br>CDBG Public Facilities Neighborhood Enhancements for Parks and/or Transportation. Provide and meet the Consolidated Annual Action Plan's objective of availability and accessibility as submitted to the U.S. Department of Housing and Urban Development. |             |                          |                |                |                        |                |                |                |  |              |                |
| <b>Justification:</b><br>To enhance neighborhood recreation areas, such as parks and walking paths. To address safety and access issues for streets, such as bus shelters, traffic calming, street lighting and compliance with the Americans with Disabilities Act.              |             |                          |                |                |                        |                |                |                |  |              |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total  | Future Years | Total Project  |
|   |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |  |              |                |
| Community Development Block Grant   | 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        |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>1,000.0</b> | <b>1,000.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,000.0</b>   | <b>0.0</b>   | <b>1,000.0</b> |

| <b>Neighborhood Stabilization Program III</b>   |              |                          |              |              |                        |                |                |                | <b>Project ID:</b> H147<br><b>Start Date:</b> 10/11<br><b>End Date:</b> 6/16<br><b>Location:</b> City |              |               |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|---|--------------|---------------|
| <b>Description:</b><br>Purchase eight single-family foreclosed homes for rehabilitation, rental and resale from the Neighborhood Stabilization Program Income. These homes will be located in high foreclosure areas within the city limits, and the rehabilitations will be as environmentally friendly as possible. |              |                          |              |              |                        |                |                |                |   |              |               |
| <b>Justification:</b><br>This project will increase affordable housing and benefit low income families. By reducing the number of foreclosures, neighborhoods will be stabilized and property values are anticipated to increase.   |              |                          |              |              |                        |                |                |                |   |              |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total   | Future Years | Total Project |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |   |              |               |
| Community Development Block Grant   | 586.3        | 0.0                      | 160.2        | 160.2        | 0.0                    | 0.0            | 0.0            | 0.0            | 160.2   | 0.0          | 746.5         |
| <b>Total</b>  | <b>586.3</b> | <b>0.0</b>               | <b>160.2</b> | <b>160.2</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>160.2</b>  | <b>0.0</b>   | <b>746.5</b>  |

## Parks and Recreation



# Capital Improvement Program Department Statement

**FY 2016 through FY 2020**

**Department:** Parks and Recreation

**Five-Year Total:** \$8,444,300

The Parks and Recreation Department's 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 five-year capital program of \$8.4 million is funded from Impact Fees, Capital Improvement Funds (COPs), and civic contributions.

## Parks and Recreation

(\$000)

| <b>A Mountain Improvement</b><br><b>Description:</b><br>Develop a master plan, design, and construct ADA and safety improvements to public facilities in A Mountain Park. This project includes \$47,500 in Back to Basics/CDBG and \$56,060 in Highway User Revenue Funds (HURF) from Ward 1.<br><br><b>Justification:</b><br>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. |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> R990<br><b>Start Date:</b> 12/07<br><b>End Date:</b> 6/17<br><b>Location:</b> Ward 1 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---|---------------|
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years  | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |   |               |
| General Obligation Bonds  | 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         |
| Impact Fee Fund   | 89.0         | 0.0                      | 0.0         | 0.0          | 78.2                   | 0.0            | 0.0            | 0.0            | 78.2            | 0.0   | 167.2         |
| <b>Total</b>  | <b>399.8</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>78.2</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>78.2</b>     | <b>0.0</b>  | <b>478.0</b>  |

| <b>Arcadia Park, Phase I</b><br><b>Description:</b><br>Acquire land, plan, and design the initial phase of a multi-purpose path that provides connectivity between parks, schools, residential areas, workplaces, commercial districts and other destinations. This project is part of a multiphase development; construction is contingent upon future funding.<br><br><b>Justification:</b><br>This project is needed to increase capacity in our parks and recreation system and to address the demands placed on it by new development. |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> RM01<br><b>Start Date:</b> 7/08<br><b>End Date:</b> 6/17<br><b>Location:</b> Ward 6 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--|---------------|
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |               |
| Impact Fee Funds  | 505.5        | 145.5                    | 0.0         | 145.5        | 141.0                  | 0.0            | 0.0            | 0.0            | 286.5           | 0.0  | 792.0         |
| <b>Total</b>  | <b>505.5</b> | <b>145.5</b>             | <b>0.0</b>  | <b>145.5</b> | <b>141.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>286.5</b>    | <b>0.0</b>   | <b>792.0</b>  |

**Arroyo Chico Urban Path: Country Club to Treat**

**Description:**  
Design and construct urban greenway improvements along the Arroyo Chico Urban Greenway including a pedestrian/bicyclist activated street crossing. This project is in conjunction with a Transportation project in the amount of \$600,000 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.

**Project ID:** RP1C  
**Start Date:** 7/14  
**End Date:** 6/16  
**Location:** Wards 5 and 6

| Source of Funds Summary | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                         |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Impact Fee Funds        | 150.0        | 150.0                    | 107.5        | 257.5        | 0.0                    | 0.0            | 0.0            | 0.0            | 257.5           | 0.0          | 407.5         |
| <b>Total</b>            | <b>150.0</b> | <b>150.0</b>             | <b>107.5</b> | <b>257.5</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>257.5</b>    | <b>0.0</b>   | <b>407.5</b>  |

**Christopher Columbus Park Expansion**

**Description:**  
Design and construct improvements to the north end of Christopher Columbus Park. This project will complement and expand upon a Pima County 2004 Bond project.

**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.

**Project ID:** RM03  
**Start Date:** 3/07  
**End Date:** 6/17  
**Location:** Ward 3

| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|--------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                          |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| 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         |
| Impact Fee Funds         | 681.9        | 0.0                      | 0.0         | 0.0          | 25.2                   | 0.0            | 0.0            | 0.0            | 25.2            | 0.0          | 707.1         |
| <b>Total</b>             | <b>823.9</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>25.2</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>25.2</b>     | <b>0.0</b>   | <b>849.1</b>  |

| <b>Jesse Owens Park</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> RM19 |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Develop a park master plan to guide future park expansion needs.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| <b>Justification:</b><br>This project is needed to increase capacity in our parks and recreation system to meet future demands placed on it by new development. |             |                          |             |              |                        |                |                |                |                 |                         |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Impact Fee Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 25.0                   | 0.0            | 0.0            | 0.0            | 25.0            | 0.0                     | 25.0          |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>25.0</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>25.0</b>     | <b>0.0</b>              | <b>25.0</b>   |

| <b>John F. Kennedy Park</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> RM17 |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Develop a park master plan to guide future park expansion needs.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/15 |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 1 |               |
| <b>Justification:</b><br>This project is needed to increase capacity in our parks and recreation system to meet future demands placed on it by new development. |             |                          |             |              |                        |                |                |                |                 |                         |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Impact Fee Funds  | 0.0         | 0.0                      | 35.0        | 35.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 35.0            | 0.0                     | 35.0          |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>35.0</b> | <b>35.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>35.0</b>     | <b>0.0</b>              | <b>35.0</b>   |

| <b>Palo Verde Park</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> RM18 |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Develop a park master plan to guide future park expansion needs.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
| <b>Justification:</b><br>This project is needed to increase capacity in our parks and recreation system to meet future demands placed on it by new development. |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Impact Fee Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 25.0                   | 0.0            | 0.0            | 0.0            | 25.0            | 0.0                     | 25.0          |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>25.0</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>25.0</b>     | <b>0.0</b>              | <b>25.0</b>   |

| <b>Parks Strategic Plan</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> R111   |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|---------------|
| <b>Description:</b><br>Update the City of Tucson Parks and Recreation Department's 10-Year Strategic Plan including developing and utilizing geographic information systems (GIS) to support the plan update.                             |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12   |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16     |               |
| <b>Justification:</b><br>This project is needed to revise and update the Parks and Recreation Department's Strategic Plan in accordance with accreditation requirements and to meet the current and future demands for public recreation. |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Citywide |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |               |
| Impact Fee Funds  | 50.0        | 167.7                    | 65.3        | 233.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 233.0           | 0.0                       | 283.0         |
| <b>Total</b>  | <b>50.0</b> | <b>167.7</b>             | <b>65.3</b> | <b>233.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>233.0</b>    | <b>0.0</b>                | <b>283.0</b>  |

**Purple Heart Park Expansion**

**Description:**  
Design and construct additional amenities outlined in the current master plan for the park. Amenities for consideration with the current funding include a new playground, new shade structures, drinking fountain and related ADA access.

**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.

**Project ID:** RM08  
**Start Date:** 7/07  
**End Date:** 6/16  
**Location:** Ward 4

| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--------------------------|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                          |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| General Obligation Bonds | 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          |
| Impact Fee Funds         | 1,120.6        | 257.1                    | 76.4        | 333.5        | 0.0                    | 0.0            | 0.0            | 0.0            | 333.5           | 0.0          | 1,454.1        |
| <b>Total</b>             | <b>1,295.6</b> | <b>257.1</b>             | <b>76.4</b> | <b>333.5</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>333.5</b>    | <b>0.0</b>   | <b>1,629.1</b> |

**Reid Park Expansion, Phase I**

**Description:**  
Design and construct a grassy open space, a large-event venue and a new restroom. 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.

**Project ID:** RM09  
**Start Date:** 7/07  
**End Date:** 6/17  
**Location:** Ward 6

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| General Obligation Bond Funds | 46.5         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 46.5           |
| Impact Fee Funds              | 358.9        | 460.7                    | 490.9        | 951.6        | 158.8                  | 0.0            | 0.0            | 0.0            | 1,110.4         | 0.0          | 1,469.3        |
| <b>Total</b>                  | <b>405.4</b> | <b>460.7</b>             | <b>490.9</b> | <b>951.6</b> | <b>158.8</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,110.4</b>  | <b>0.0</b>   | <b>1,515.8</b> |

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| <p><b>Reid Park Zoo Health Center</b></p> <p><b>Description:</b><br/>Design, permit and construct an addition to the existing veterinary facility at the Reid Park Zoo.</p> <p><b>Justification:</b><br/>This project is necessary as the existing facility is extremely dated (approx. 40 years old) 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.</p> | <p><b>Project ID:</b> R994<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 12/16<br/> <b>Location:</b> Ward 6</p> |
|--|--|

| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                          |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Capital Improvement Fund | 0.0         | 0.0                      | 2,344.1        | 2,344.1        | 1,172.1                | 0.0            | 0.0            | 0.0            | 3,516.2         | 0.0          | 3,516.2        |
| Civic Contributions Fund | 0.0         | 0.0                      | 15.0           | 15.0           | 0.0                    | 0.0            | 0.0            | 0.0            | 15.0            | 0.0          | 15.0           |
| <b>Total</b>             | <b>0.0</b>  | <b>0.0</b>               | <b>2,359.1</b> | <b>2,359.1</b> | <b>1,172.1</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>3,531.2</b>  | <b>0.0</b>   | <b>3,531.2</b> |

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|---|---|
| <p><b>San Juan Park</b></p> <p><b>Description:</b><br/>Develop a park master plan to guide future park expansion needs.</p> <p><b>Justification:</b><br/>This project is needed to increase capacity in our parks and recreation system to meet future demands placed on it by new development.</p> | <p><b>Project ID:</b> RM16<br/> <b>Start Date:</b> 7/16<br/> <b>End Date:</b> 6/17<br/> <b>Location:</b> Ward 1</p> |
|---|---|

| Source of Funds Summary | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                         |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Impact Fee Funds        | 0.0         | 0.0                      | 0.0         | 0.0          | 25.0                   | 0.0            | 0.0            | 0.0            | 25.0            | 0.0          | 25.0          |
| <b>Total</b>            | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>25.0</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>25.0</b>     | <b>0.0</b>   | <b>25.0</b>   |

**Shade Structure Projects**

**Description:**  
Design and construct new shade structures within the City of Tucson parks system. Funding is contingent upon funding from the Tucson Parks Foundation and the Tohono O'odam Nation Proposition 202 Grant Program; budget included for capacity purpose should funding become available.

**Project ID:** R112  
**Start Date:** 7/12  
**End Date:** 6/19  
**Location:** Citywide

**Justification:**  
This project is needed to construct new and/or replace aged shade structures within the parks system.

| Source of Funds Summary          | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|----------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                                  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Civic Contributions Fund         | 114.8        | 0.0                      | 50.0        | 50.0         | 50.0                   | 50.0           | 50.0           | 50.0           | 250.0           | 0.0          | 364.8         |
| 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          |
| <b>Total</b>                     | <b>164.1</b> | <b>0.0</b>               | <b>50.0</b> | <b>50.0</b>  | <b>50.0</b>            | <b>50.0</b>    | <b>50.0</b>    | <b>50.0</b>    | <b>250.0</b>    | <b>0.0</b>   | <b>414.1</b>  |

**South Central Community Park/Robert A. Price Park**

**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.

**Project ID:** RM11  
**Start Date:** 7/07  
**End Date:** 6/18  
**Location:** Wards 4 and 5

**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.

| Source of Funds Summary | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                         |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Impact Fee Funds        | 26.0        | 95.8                     | 0.0         | 95.8         | 270.5                  | 267.9          | 0.0            | 0.0            | 634.2           | 0.0          | 660.2         |
| <b>Total</b>            | <b>26.0</b> | <b>95.8</b>              | <b>0.0</b>  | <b>95.8</b>  | <b>270.5</b>           | <b>267.9</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>634.2</b>    | <b>0.0</b>   | <b>660.2</b>  |

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| <p><b>Valencia and Alvernon Community Park, Phase I</b></p> <p><b>Description:</b><br/>Plan and design the initial phase of a new community park in the vicinity of Valencia and Alvernon. Construction of this project is a proposed partnership between the Pima County Flood Control District and the City of Tucson.</p> <p><b>Justification:</b><br/>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><b>Project ID:</b> RM12<br/> <b>Start Date:</b> 7/07<br/> <b>End Date:</b> 6/18<br/> <b>Location:</b> Ward 5</p> |
|--|---|

| Source of Funds Summary | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                         |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Impact Fee Funds        | 82.4        | 0.0                      | 0.0         | 0.0          | 253.3                  | 350.0          | 0.0            | 0.0            | 603.3           | 0.0          | 685.7         |
| <b>Total</b>            | <b>82.4</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>253.3</b>           | <b>350.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>603.3</b>    | <b>0.0</b>   | <b>685.7</b>  |

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| <p><b>Valencia Corridor Land Acquisition, Phase I</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>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><b>Project ID:</b> RM13<br/> <b>Start Date:</b> 7/07<br/> <b>End Date:</b> 6/19<br/> <b>Location:</b> Wards 4 and 5</p> |
|---|--|

| Source of Funds Summary | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                         |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Impact Fee Funds        | 2.1         | 50.0                     | 0.0         | 50.0         | 455.5                  | 464.4          | 21.4           | 0.0            | 991.3           | 0.0          | 993.4         |
| <b>Total</b>            | <b>2.1</b>  | <b>50.0</b>              | <b>0.0</b>  | <b>50.0</b>  | <b>455.5</b>           | <b>464.4</b>   | <b>21.4</b>    | <b>0.0</b>     | <b>991.3</b>    | <b>0.0</b>   | <b>993.4</b>  |

# Transportation



# Capital Improvement Program Department Statement

FY 2016 through FY 2020

**Department:** Transportation

**Five-Year Total:** \$648,829,000

Transportation's CIP of \$648.8 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 \$73.7 million replaces and upgrades Sun Tran and Sun Van fleet vehicles and constructs facilities to support transit operations, including Park-and-Ride facilities, ADA access improvements, security improvements, and the Regional Seamless Fare system.

**Streets.** The Streets Program of \$557.1 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 an unimpeded flow of traffic. The program is funded primarily with RTA funds and general obligation street bonds. Other funding sources include capital agreement funds, federal highway grants, impact fees, Pima County bonds, and HURF revenues.

**Street Lighting.** The Street Lighting Program of \$15.0 million will convert the current lighting with light emitting diode (LED) technology which will save energy usage by 31% to 51%. This project will be funded by HURF revenues.

**Traffic Signals.** The Traffic Signals Program of \$3.0 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 and RTA funds.

## Transportation

(\$000)

| <b>22nd Avenida Sirio HAWK</b><br><b>Description:</b><br>Construct pedestrian and bicycle activated traffic signals at 22nd Street/Avenida Sirio, Grant Road/Sahuara Avenue, Campbell Avenue/Ninth Street, and Craycroft Road/Ft Lowell Park. |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SH26<br><b>Start Date:</b> 7/07<br><b>End Date:</b> 6/16<br><b>Location:</b> Ward 4 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--|---------------|
| <b>Justification:</b><br>This project was approved for RTA funds in December 2012. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 68.12.  |              |                          |             |              |                        |                |                |                |                 |  |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |               |
| Regional Transportation Authority Fund  | 140.0        | 10.0                     | 0.0         | 10.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 10.0            | 0.0  | 150.0         |
| <b>Total</b>  | <b>140.0</b> | <b>10.0</b>              | <b>0.0</b>  | <b>10.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>10.0</b>     | <b>0.0</b>   | <b>150.0</b>  |

| <b>22nd Street: I-10 to Tucson Boulevard</b><br><b>Description:</b><br>Design and construct improvements along this segment of the 22nd Street corridor. Improvements will include widening 22nd Street to a six-lane, divided roadway with full urban amenities. |                 |                          |                |                |                        |                 |                 |                |                 | <b>Project ID:</b> SR5A<br><b>Start Date:</b> 7/07<br><b>End Date:</b> 6/19<br><b>Location:</b> Wards 1 and 5 |                  |
|---|-----------------|--------------------------|----------------|----------------|------------------------|-----------------|-----------------|----------------|-----------------|---|------------------|
| <b>Justification:</b><br>This project was approved by Mayor and Council on December 5, 2006 for Regional Transportation Authority (RTA) funding and will enhance the carrying capacity of the corridor.   |                 |                          |                |                |                        |                 |                 |                |                 |   |                  |
| Source of Funds Summary   | Prior Years     | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                 |                 |                | Five Year Total | Future Years  | Total Project    |
|   |                 | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019  | Year 5 FY 2020 |                 |   |                  |
| Capital Agreement Fund  | 839.5           | 0.0                      | 0.0            | 0.0            | 9,000.0                | 0.0             | 0.0             | 0.0            | 9,000.0         | 0.0   | 9,839.5          |
| Federal Grant Funds   | 0.0             | 0.0                      | 1,000.0        | 1,000.0        | 0.0                    | 0.0             | 5,000.0         | 0.0            | 6,000.0         | 0.0   | 6,000.0          |
| 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   | 23.0            | 0.0                      | 5.0            | 5.0            | 5.0                    | 0.0             | 0.0             | 0.0            | 10.0            | 0.0   | 33.0             |
| Impact Fee Funds  | 387.5           | 298.9                    | 0.0            | 298.9          | 1,000.0                | 0.0             | 1,313.6         | 0.0            | 2,612.5         | 0.0   | 3,000.0          |
| Regional Transportation Authority Fund  | 34,506.7        | 0.0                      | 3,750.0        | 3,750.0        | 5,750.0                | 31,586.4        | 29,358.9        | 0.0            | 70,445.3        | 0.0   | 104,952.0        |
| <b>Total</b>  | <b>35,761.4</b> | <b>298.9</b>             | <b>4,755.0</b> | <b>5,053.9</b> | <b>15,755.0</b>        | <b>31,586.4</b> | <b>35,672.5</b> | <b>0.0</b>     | <b>88,067.8</b> | <b>0.0</b>  | <b>123,829.2</b> |

| <b>4th/Congress: Toole Bike Pedestrian Improvements</b>  |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> S211 |               |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Enhance the roadway elements within the 4th Avenue/Congress/Toole area to improve pedestrian and bicycle safety and motorist wayfinding.  |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |               |
| <b>Justification:</b><br>Federal safety funds have been allocated through the Pima Association of Governments (PAG) Transportation Improvement Program (TIP) process. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 3.12. |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
|  |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 6 |               |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 94.2         | 40.0                     | 0.0         | 40.0         | 320.0                  | 0.0            | 0.0            | 0.0            | 360.0           | 0.0                     | 454.2         |
| Highway User Revenue Fund  | 21.3         | 3.0                      | 0.0         | 3.0          | 18.0                   | 0.0            | 0.0            | 0.0            | 21.0            | 0.0                     | 42.3          |
| <b>Total</b>   | <b>115.5</b> | <b>43.0</b>              | <b>0.0</b>  | <b>43.0</b>  | <b>338.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>381.0</b>    | <b>0.0</b>              | <b>496.5</b>  |

| <b>ADA Transit Enhancements</b>   |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> M161   |                |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|----------------|
| <b>Description:</b><br>Design and construct Americans with Disabilities Act (ADA) pedestrian access improvements. These infrastructure improvements must be equal to a minimum of 1% of the Federal Grant Award.                            |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13   |                |
| <b>Justification:</b><br>The Federal Transit Administration (FTA) mandates that the City construct transit infrastructure improvements, which are projects that enhance service or are functionally related to existing transit facilities. |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/20     |                |
|   |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Citywide |                |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project  |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |                |
| Mass Transit Funds  | 200.6        | 0.0                      | 662.3        | 662.3        | 170.8                  | 170.8          | 170.8          | 170.8          | 1,345.5         | 0.0                       | 1,546.1        |
| Regional Transportation Authority Fund  | 31.3         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                       | 31.3           |
| <b>Total</b>  | <b>231.9</b> | <b>0.0</b>               | <b>662.3</b> | <b>662.3</b> | <b>170.8</b>           | <b>170.8</b>   | <b>170.8</b>   | <b>170.8</b>   | <b>1,345.5</b>  | <b>0.0</b>                | <b>1,577.4</b> |

| <b>ADA Transition Plan</b>   |              |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> S112 |                |
|--|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Develop a plan that categorizes all City right-of-ways and prioritizes needed ADA improvements.   |              |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |                |
| <b>Justification:</b><br>This plan is required by Federal law. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 27.11. |              |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/17   |                |
|  |              |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Ward 6 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Federal Grant Funds  | 454.7        | 561.0                    | 1,300.0        | 1,861.0        | 1,275.0                | 0.0            | 0.0            | 0.0            | 3,136.0         | 0.0                     | 3,590.7        |
| Highway User Revenue Fund  | 48.2         | 13.0                     | 78.0           | 91.0           | 73.0                   | 0.0            | 0.0            | 0.0            | 164.0           | 0.0                     | 212.2          |
| <b>Total</b>   | <b>502.9</b> | <b>574.0</b>             | <b>1,378.0</b> | <b>1,952.0</b> | <b>1,348.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>3,300.0</b>  | <b>0.0</b>              | <b>3,802.9</b> |

| <b>Administration Building Upgrades</b>   |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> M135 |                |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Major renovation and rehabilitation over the next five years includes replacing the elevator system, HVAC systems, roof repair, and repaving parking lots.   |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |                |
| <b>Justification:</b><br>Transit Maintenance and Administrative Facilities require continuous upgrade and improvements to prolong asset life. Facilities include Sun Tran's South Park Avenue, Northwest Maintenance and Administration facilities, and Sun Van's Maintenance and Administration facility located on Ajo Way. |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/20   |                |
|   |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 5 |                |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Mass Transit Funds  | 628.3        | 0.0                      | 400.0        | 400.0        | 0.0                    | 532.0          | 480.0          | 880.0          | 2,292.0         | 0.0                     | 2,920.3        |
| <b>Total</b>  | <b>628.3</b> | <b>0.0</b>               | <b>400.0</b> | <b>400.0</b> | <b>0.0</b>             | <b>532.0</b>   | <b>480.0</b>   | <b>880.0</b>   | <b>2,292.0</b>  | <b>0.0</b>              | <b>2,920.3</b> |

| <b>Arroyo Chico Greenway</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP09        |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------------|---------------|
| <b>Description:</b><br>Construct the portion of the Arroyo Chico Greenway between Reid Park and Robison Elementary School.   |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13        |               |
| <b>Justification:</b><br>This project was approved for RTA funds in December 2012. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 76.12. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16          |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Wards 5 and 6 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                   | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                |               |
| Regional Transportation Authority Fund   | 53.7        | 246.3                    | 300.0        | 546.3        | 0.0                    | 0.0            | 0.0            | 0.0            | 546.3           | 0.0                            | 600.0         |
| <b>Total</b>   | <b>53.7</b> | <b>246.3</b>             | <b>300.0</b> | <b>546.3</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>546.3</b>    | <b>0.0</b>                     | <b>600.0</b>  |

| <b>Arroyo Chico Greenway Extension</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP15        |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------------|---------------|
| <b>Description:</b><br>Plan for extension of the Arroyo Chico Urban Greenway west from Campbell Avenue into Downtown.   |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 1/15        |               |
| <b>Justification:</b><br>Federal Transportation Alternative Program funds have been allocated for this planning effort. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16          |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Wards 5 and 6 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                   | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                |               |
| Federal Grant Funds   | 0.0         | 0.0                      | 106.0        | 106.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 106.0           | 0.0                            | 106.0         |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>106.0</b> | <b>106.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>106.0</b>    | <b>0.0</b>                     | <b>106.0</b>  |

**Barraza-Aviation Downtown Links, Phase I**

**Description:**  
Design and construct a four-lane roadway from 6th to Broadway Boulevard east of the railroad tracks. The local match requirement for RTA funding has been satisfied by expenditures on other segments of the Barraza-Aviation Parkway.

**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.

**Project ID:** S30N  
**Start Date:** 7/06  
**End Date:** 6/21  
**Location:** Wards 1 and 6

| Source of Funds Summary                | Prior Years     | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                 |                 |                | Five Year Total | Future Years | Total Project   |
|--|-----------------|--------------------------|-----------------|-----------------|------------------------|-----------------|-----------------|----------------|-----------------|--------------|-----------------|
|  |                 | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019  | Year 5 FY 2020 |                 |              |                 |
| Capital Agreement Fund                 | 1,783.2         | 0.0                      | 0.0             | 0.0             | 500.0                  | 0.0             | 7,100.0         | 0.0            | 7,600.0         | 0.0          | 9,383.2         |
| General Fund                           | 22.7            | 0.0                      | 0.0             | 0.0             | 0.0                    | 0.0             | 0.0             | 0.0            | 0.0             | 0.0          | 22.7            |
| 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              | 301.4           | 0.0                      | 10.0            | 10.0            | 5.0                    | 5.0             | 0.0             | 7,100.0        | 7,120.0         | 0.0          | 7,421.4         |
| Regional Transportation Authority Fund | 32,446.5        | 0.0                      | 10,000.0        | 10,000.0        | 13,148.0               | 12,548.1        | 8,000.0         | 0.0            | 43,696.1        | 0.0          | 76,142.6        |
| <b>Total</b>                           | <b>34,728.3</b> | <b>0.0</b>               | <b>10,010.0</b> | <b>10,010.0</b> | <b>13,653.0</b>        | <b>12,553.1</b> | <b>15,100.0</b> | <b>7,100.0</b> | <b>58,416.1</b> | <b>0.0</b>   | <b>93,144.4</b> |

**Broadway: Camino Seco to Houghton**

**Description:**  
Widen Broadway to a four-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 Broadway Boulevard. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 36.00.

**Project ID:** SR10  
**Start Date:** 7/14  
**End Date:** 6/18  
**Location:** Ward 2

| Source of Funds Summary                | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Highway User Revenue Fund              | 0.0         | 5.0                      | 0.0         | 5.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 5.0             | 0.0          | 5.0            |
| Regional Transportation Authority Fund | 0.0         | 317.0                    | 0.0         | 317.0        | 6,071.0                | 0.0            | 0.0            | 0.0            | 6,388.0         | 0.0          | 6,388.0        |
| Impact Fee Funds                       | 0.0         | 0.0                      | 0.0         | 0.0          | 1,500.0                | 1,500.0        | 0.0            | 0.0            | 3,000.0         | 0.0          | 3,000.0        |
| <b>Total</b>                           | <b>0.0</b>  | <b>322.0</b>             | <b>0.0</b>  | <b>322.0</b> | <b>7,571.0</b>         | <b>1,500.0</b> | <b>0.0</b>     | <b>0.0</b>     | <b>9,393.0</b>  | <b>0.0</b>   | <b>9,393.0</b> |

**Broadway: Euclid to Country Club**

**Description:**  
Design and construct a corridor project that will widen Broadway to six lanes, plus bus lanes.

**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.

**Project ID:** SR3A  
**Start Date:** 1/07  
**End Date:** 6/18  
**Location:** Wards 5 and 6

| Source of Funds Summary                 | Prior Years    | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                 |                |                | Five Year Total | Future Years | Total Project   |
|---|----------------|--------------------------|----------------|----------------|------------------------|-----------------|----------------|----------------|-----------------|--------------|-----------------|
|   |                | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Capital Agreement Fund                  | 2,397.8        | 0.0                      | 0.0            | 0.0            | 12,000.0               | 12,000.0        | 0.0            | 0.0            | 24,000.0        | 0.0          | 26,397.8        |
| Highway User Revenue Fund               | 16.8           | 0.0                      | 5.0            | 5.0            | 5.0                    | 5.0             | 0.0            | 0.0            | 15.0            | 0.0          | 31.8            |
| 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            |
| Impact Fee Funds                        | 1.9            | 0.0                      | 1,500.0        | 1,500.0        | 0.0                    | 1,500.0         | 0.0            | 0.0            | 3,000.0         | 0.0          | 3,001.9         |
| Regional Transportation Authority Fund  | 5,998.5        | 0.0                      | 3,246.3        | 3,246.3        | 16,313.3               | 16,313.3        | 0.0            | 0.0            | 35,872.9        | 0.0          | 41,871.4        |
| <b>Total</b>                            | <b>8,459.2</b> | <b>0.0</b>               | <b>4,751.3</b> | <b>4,751.3</b> | <b>28,318.3</b>        | <b>29,818.3</b> | <b>0.0</b>     | <b>0.0</b>     | <b>62,887.9</b> | <b>0.0</b>   | <b>71,347.1</b> |

**Campbell and 9th HAWK**

**Description:**  
Design and construct HAWK signal at the intersection.

**Justification:**  
Improve pedestrian safety.

**Project ID:** SH27  
**Start Date:** 7/13  
**End Date:** 12/15  
**Location:** Ward 6

| Source of Funds Summary                | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Regional Transportation Authority Fund | 234.6        | 15.0                     | 0.0         | 15.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 15.0            | 0.0          | 249.6         |
| <b>Total</b>                           | <b>234.6</b> | <b>15.0</b>              | <b>0.0</b>  | <b>15.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>15.0</b>     | <b>0.0</b>   | <b>249.6</b>  |

| <b>Campbell Avenue Revitalization</b>  |              |                          |              |              |                        |                |                |                |                 | Project ID: S237 |                |
|--|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------|----------------|
| <b>Description:</b><br>Design and construct streetscape improvements along Campbell Avenue between Ft. Lowell and Grant Roads. |              |                          |              |              |                        |                |                |                |                 | Start Date: 7/06 |                |
| <b>Justification:</b><br>These improvements will promote the revitalization of this commercial corridor.                       |              |                          |              |              |                        |                |                |                |                 | End Date: 6/16   |                |
|  |              |                          |              |              |                        |                |                |                |                 | Location: Ward 3 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project  |
|  |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |                |
| Federal Grant Funds  | 344.4        | 161.9                    | 500.0        | 661.9        | 0.0                    | 0.0            | 0.0            | 0.0            | 661.9           | 0.0              | 1,006.3        |
| Highway User Revenue Fund  | 78.2         | 32.8                     | 30.0         | 62.8         | 0.0                    | 0.0            | 0.0            | 0.0            | 62.8            | 0.0              | 141.0          |
| Regional Transportation Authority Fund   | 2.7          | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0              | 2.7            |
| <b>Total</b>   | <b>425.3</b> | <b>194.7</b>             | <b>530.0</b> | <b>724.7</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>724.7</b>    | <b>0.0</b>       | <b>1,150.0</b> |

| <b>CNG Fueling System</b>   |             |                          |              |              |                        |                |                |                |                 | Project ID: M931 |                |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------|----------------|
| <b>Description:</b><br>Design and construct a Compressed Natural Gas (CNG) fueling facility at Sun Tran's northwest maintenance facility.   |             |                          |              |              |                        |                |                |                |                 | Start Date: 7/15 |                |
| <b>Justification:</b><br>To maximize operational flexibility and meet an eight hour window for fueling CNG buses due to the number of CNG fleet that will be replaced in Fiscal Year 2018 and to increase the number of CNG fleet as additional replacement and expansion buses are acquired. |             |                          |              |              |                        |                |                |                |                 | End Date: 6/18   |                |
|   |             |                          |              |              |                        |                |                |                |                 | Location: Ward 3 |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project  |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |                |
| Mass Transit Funds  | 0.0         | 0.0                      | 500.0        | 500.0        | 4,000.0                | 4,000.0        | 0.0            | 0.0            | 8,500.0         | 0.0              | 8,500.0        |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>500.0</b> | <b>500.0</b> | <b>4,000.0</b>         | <b>4,000.0</b> | <b>0.0</b>     | <b>0.0</b>     | <b>8,500.0</b>  | <b>0.0</b>       | <b>8,500.0</b> |

| <b>Columbus Boulevard: Corridor Pedestrian Path</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> S189 |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct an off-street pedestrian path along Columbus Boulevard between Timrod Street and 22nd Street.  |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/09 |               |
| <b>Justification:</b><br>A federal Transportation Enhancement grant was awarded for this project improving pedestrian safety. Funds from RTA are being used for local match and for expenditures not covered by the grant. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 105.08 |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 6 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 0.0         | 40.0                     | 150.0        | 190.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 190.0           | 0.0                     | 190.0         |
| Highway User Revenue Fund  | 11.2        | 2.7                      | 9.0          | 11.7         | 0.0                    | 0.0            | 0.0            | 0.0            | 11.7            | 0.0                     | 22.9          |
| Regional Transportation Authority Fund   | 27.3        | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 27.3          |
| <b>Total</b>   | <b>38.5</b> | <b>42.7</b>              | <b>159.0</b> | <b>201.7</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>201.7</b>    | <b>0.0</b>              | <b>240.2</b>  |

| <b>Communication System Improvements</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> S770   |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|---------------|
| <b>Description:</b><br>Construct communications improvements to the Intelligent Transportation System, including the purchase of traffic signal communication network equipment, traffic monitoring cameras, traffic signal data transmission equipment, and regional signal monitoring. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/06   |               |
| <b>Justification:</b><br>These improvements include several projects in the TIP for the development of a regionally-owned communications system. Traffic cameras will allow for the quick assessment of traffic conditions and accidents, supporting the Tucson Police Department.       |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16     |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Citywide |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |               |
| Federal Grant Funds  | 0.0         | 500.0                    | 0.0         | 500.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 500.0           | 0.0                       | 500.0         |
| Regional Transportation Authority Fund   | 0.0         | 66.0                     | 0.0         | 66.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 66.0            | 0.0                       | 66.0          |
| <b>Total</b>   | <b>0.0</b>  | <b>566.0</b>             | <b>0.0</b>  | <b>566.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>566.0</b>    | <b>0.0</b>                | <b>566.0</b>  |

| <b>Copper Street Bike Boulevard</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SP10 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Construct Bike Boulevard improvements along the Copper Street alignment, paralleling the Grant Road Corridor. This will provide a low-stress bicycling alternative to Grant Road. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
| <b>Justification:</b><br>This project was approved for RTA funds in December 2012. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 77.12.                 |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 3 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Regional Transportation Authority Fund   | 85.7        | 300.0                    | 0.0         | 300.0        | 114.3                  | 0.0            | 0.0            | 0.0            | 414.3           | 0.0                     | 500.0         |
| <b>Total</b>   | <b>85.7</b> | <b>300.0</b>             | <b>0.0</b>  | <b>300.0</b> | <b>114.3</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>414.3</b>    | <b>0.0</b>              | <b>500.0</b>  |

| <b>Craycroft and Ft. Lowell Park HAWK</b>                                    |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SH28 |               |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct HAWK signal at the intersection. |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
| <b>Justification:</b><br>Improve pedestrian safety.                          |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 12/15  |               |
|  |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Regional Transportation Authority Fund                                       | 234.9        | 15.0                     | 0.0         | 15.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 15.0            | 0.0                     | 249.9         |
| <b>Total</b>   | <b>234.9</b> | <b>15.0</b>              | <b>0.0</b>  | <b>15.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>15.0</b>     | <b>0.0</b>              | <b>249.9</b>  |

**El Paso and Southwestern Greenway**

**Description:**  
Design and construct 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.

**Project ID:** SP01  
**Start Date:** 7/08  
**End Date:** 6/18  
**Location:** Ward 1 and 5

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|  |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Federal Grant Funds                    | 0.0            | 458.0                    | 0.0          | 458.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 458.0           | 0.0          | 458.0          |
| Highway User Revenue Fund              | 6.7            | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 6.7            |
| Regional Transportation Authority Fund | 1,616.8        | 150.0                    | 300.0        | 450.0        | 300.0                  | 0.0            | 0.0            | 0.0            | 750.0           | 0.0          | 2,366.8        |
| <b>Total</b>                           | <b>1,623.5</b> | <b>608.0</b>             | <b>300.0</b> | <b>908.0</b> | <b>300.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,208.0</b>  | <b>0.0</b>   | <b>2,831.5</b> |

**Expansion Vans**

**Description:**  
Project funding will be used to purchase two, under 30 foot bus, expansion vehicles for paratransit service. This will include the purchase of security cameras and automated vehicle locator (AVL) equipment. These will be purchased using options on an existing contract.

**Justification:**  
To maximize operational efficiency, vans are scheduled for replacement at the end of their useful service life. This capital project, along with other replacement van capital projects, is part of an overall van replacement program.

**Project ID:** M240  
**Start Date:** 7/13  
**End Date:** 6/16  
**Location:** Citywide

| Source of Funds Summary                | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Mass Transit Funds                     | 136.6        | 190.0                    | 0.0         | 190.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 190.0           | 0.0          | 326.6         |
| Regional Transportation Authority Fund | 28.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 28.0          |
| <b>Total</b>                           | <b>164.6</b> | <b>190.0</b>             | <b>0.0</b>  | <b>190.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>190.0</b>    | <b>0.0</b>   | <b>354.6</b>  |

| <b>Facility Bus Wash</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> M952 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct a new automated bus wash at Sun Tran's South Park maintenance facility.  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/19   |               |
| <b>Justification:</b><br>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. In order to avoid an extended period of time without bus washing capabilities, we need to build a new wash while continuing to operate the existing one. |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 5 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Mass Transit Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 450.0          | 0.0            | 450.0           | 0.0                     | 450.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>450.0</b>   | <b>0.0</b>     | <b>450.0</b>    | <b>0.0</b>              | <b>450.0</b>  |

| <b>Fifth Street Bike Boulevard</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP11 |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Construct bike boulevard improvements along the Fifth Street alignment between Stone Avenue and Highland Avenue, paralleling the Sun Link Streetcar Corridor. This will provide a low-stress bicycling alternative to the Streetcar route. |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
| <b>Justification:</b><br>This project was approved for RTA Categorical funds in December 2012.  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 6 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Regional Transportation Authority Fund  | 32.5        | 84.1                     | 258.4        | 342.5        | 0.0                    | 0.0            | 0.0            | 0.0            | 342.5           | 0.0                     | 375.0         |
| <b>Total</b>  | <b>32.5</b> | <b>84.1</b>              | <b>258.4</b> | <b>342.5</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>342.5</b>    | <b>0.0</b>              | <b>375.0</b>  |

| <b>First Avenue: Grant to River</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SR11  |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------|---------------|
| <b>Description:</b><br>Widen First Avenue to a six-lane, divided roadway with bike lanes and sidewalks.  |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13  |               |
| <b>Justification:</b><br>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. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16    |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 30 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years             | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                          |               |
| Regional Transportation Authority Fund   | 0.0         | 0.0                      | 500.0        | 500.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 500.0           | 0.0                      | 500.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>500.0</b> | <b>500.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>500.0</b>    | <b>0.0</b>               | <b>500.0</b>  |

| <b>Five Points Pedestrian Improvements</b>  |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> S355        |               |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------------|---------------|
| <b>Description:</b><br>Design pedestrian and streetscape improvements in the vicinity of the Stone Avenue/6th Avenue/18th Street intersection. (Construction for this project will appear in project S196 - Five Points Transportation Enhancement) |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/08        |               |
| <b>Justification:</b><br>A federal Transportation Enhancement grant was awarded for this project, which will improve access to alternate modes of transportation.   |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16          |               |
|   |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Wards 5 and 6 |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                   | Total Project |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                |               |
| Federal Grant Funds   | 105.4        | 0.0                      | 418.0        | 418.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 418.0           | 0.0                            | 523.4         |
| Highway User Revenue Fund   | 21.2         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                            | 21.2          |
| Regional Transportation Authority Fund  | 17.2         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                            | 17.2          |
| <b>Total</b>  | <b>143.8</b> | <b>0.0</b>               | <b>418.0</b> | <b>418.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>418.0</b>    | <b>0.0</b>                     | <b>561.8</b>  |

| <b>Five Points Transportation Enhancement</b>  |              |                          |              |                |                        |                |                |                |                 | <b>Project ID:</b> S196        |                |
|--|--------------|--------------------------|--------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------------|----------------|
| <b>Description:</b><br>Construct pedestrian and streetscape improvements in the vicinity of the Stone Avenue/6th Avenue/18th Street intersection.                |              |                          |              |                |                        |                |                |                |                 | <b>Start Date:</b> 7/08        |                |
| <b>Justification:</b><br>A Federal Transportation Enhancement Grant was awarded for this project which will improve access to alternate modes of transportation. |              |                          |              |                |                        |                |                |                |                 | <b>End Date:</b> 6/17          |                |
|  |              |                          |              |                |                        |                |                |                |                 | <b>Location:</b> Wards 5 and 6 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |              |                | Projected Requirements |                |                |                | Five Year Total | Future Years                   | Total Project  |
|  |              | Carry Forward            | New Funding  | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                |                |
| Capital Agreement Fund   | 91.8         | 408.2                    | 0.0          | 408.2          | 0.0                    | 0.0            | 0.0            | 0.0            | 408.2           | 0.0                            | 500.0          |
| Federal Grant Funds  | 0.0          | 824.0                    | 300.0        | 1,124.0        | 200.0                  | 0.0            | 0.0            | 0.0            | 1,324.0         | 0.0                            | 1,324.0        |
| Highway User Revenue Fund  | 18.8         | 1.0                      | 0.0          | 1.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 1.0             | 0.0                            | 19.8           |
| Regional Transportation Authority Fund   | 0.2          | 0.0                      | 0.0          | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                            | 0.2            |
| <b>Total</b>   | <b>110.8</b> | <b>1,233.2</b>           | <b>300.0</b> | <b>1,533.2</b> | <b>200.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,733.2</b>  | <b>0.0</b>                     | <b>1,844.0</b> |

| <b>Gila Panther Tracks Safe Routes to School</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP07 |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct pedestrian improvements around Henry Elementary School including sidewalk improvements.  |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |               |
| <b>Justification:</b><br>A federal Safe-Routes-to-School Grant has been received to fund these improvements, which will enhance pedestrian safety. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 18.11. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 27.5        | 40.4                     | 260.0        | 300.4        | 0.0                    | 0.0            | 0.0            | 0.0            | 300.4           | 0.0                     | 327.9         |
| <b>Total</b>   | <b>27.5</b> | <b>40.4</b>              | <b>260.0</b> | <b>300.4</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>300.4</b>    | <b>0.0</b>              | <b>327.9</b>  |

| <b>Glenn Street Transportation Enhancement</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> S01H |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct pedestrian improvements along Glenn Street between Palo Verde Boulevard and Alvernon Way.  |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/10 |               |
| <b>Justification:</b><br>A federal Transportation Enhancement Grant was received to provide a major portion of the funding for these improvements. RTA funding is being used as a local match and for expenditures not covered by the grant. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 3 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 0.0         | 115.0                    | 425.0        | 540.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 540.0           | 0.0                     | 540.0         |
| Highway User Revenue Fund  | 0.2         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 0.2           |
| Regional Transportation Authority Fund   | 60.6        | 64.2                     | 0.0          | 64.2         | 0.0                    | 0.0            | 0.0            | 0.0            | 64.2            | 0.0                     | 124.8         |
| <b>Total</b>   | <b>60.8</b> | <b>179.2</b>             | <b>425.0</b> | <b>604.2</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>604.2</b>    | <b>0.0</b>              | <b>665.0</b>  |

| <b>Grant and Sahuara HAWK</b>  |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SH29 |               |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct HAWK signal at the intersection. |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
| <b>Justification:</b><br>Improve pedestrian safety.                          |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Regional Transportation Authority Fund                                       | 239.1        | 15.0                     | 0.0         | 15.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 15.0            | 0.0                     | 254.1         |
| <b>Total</b>   | <b>239.1</b> | <b>15.0</b>              | <b>0.0</b>  | <b>15.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>15.0</b>     | <b>0.0</b>              | <b>254.1</b>  |

**Grant: Oracle to Swan**

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

**Justification:**  
This project was approved by Mayor and Council on January 23, 2007 for RTA funding; it will improve the corridor's traffic-carrying capacity. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 55.06.

**Project ID:** SR2A  
**Start Date:** 1/07  
**End Date:** 6/21  
**Location:** Wards 2, 3, and 6

| Source of Funds Summary                 | Prior Years     | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                 |                 |                 | Five Year Total  | Future Years    | Total Project    |
|---|-----------------|--------------------------|-----------------|-----------------|------------------------|-----------------|-----------------|-----------------|------------------|-----------------|------------------|
|   |                 | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019  | Year 5 FY 2020  |                  |                 |                  |
| Capital Agreement Fund                  | 0.0             | 0.0                      | 100.0           | 100.0           | 1,000.0                | 0.0             | 0.0             | 0.0             | 1,100.0          | 0.0             | 1,100.0          |
| Highway User Revenue Fund               | 68.2            | 10.0                     | 5.0             | 15.0            | 5.0                    | 5.0             | 5.0             | 0.0             | 30.0             | 0.0             | 98.2             |
| 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              |
| Impact Fee Funds                        | 594.5           | 0.0                      | 100.0           | 100.0           | 900.0                  | 3,000.0         | 2,000.0         | 0.0             | 6,000.0          | 0.0             | 6,594.5          |
| Regional Transportation Authority Fund  | 47,627.1        | 153.9                    | 30,500.0        | 30,653.9        | 29,000.0               | 11,000.0        | 11,000.0        | 11,569.0        | 93,222.9         | 18,300.0        | 159,150.0        |
| <b>Total</b>                            | <b>48,289.9</b> | <b>163.9</b>             | <b>30,705.0</b> | <b>30,868.9</b> | <b>30,905.0</b>        | <b>14,005.0</b> | <b>13,005.0</b> | <b>11,569.0</b> | <b>100,352.9</b> | <b>18,300.0</b> | <b>166,942.8</b> |

**Houghton Road: Bridge Replacement**

**Description:**  
Design and construct the replacement of a widened Houghton Bridge over the Union Pacific Railroad tracks.

**Justification:**  
This project will increase the traffic carrying capacity of the bridge and reduce roadway congestion, which will improve motorist safety on this stretch of Houghton Road.

**Project ID:** SR1D  
**Start Date:** 7/09  
**End Date:** 6/19  
**Location:** Ward 4

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|--|----------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|  |                | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Capital Agreement Fund                 | 0.0            | 0.0                      | 1,750.0        | 1,750.0        | 1,750.0                | 0.0            | 0.0            | 0.0            | 3,500.0         | 0.0          | 3,500.0         |
| Federal Grant Funds                    | 1,325.4        | 324.6                    | 2,185.0        | 2,509.6        | 2,500.0                | 0.0            | 3,000.0        | 0.0            | 8,009.6         | 0.0          | 9,335.0         |
| Highway User Revenue Fund              | 5.1            | 1.0                      | 0.5            | 1.5            | 0.5                    | 0.0            | 0.0            | 0.0            | 2.0             | 0.0          | 7.1             |
| Regional Transportation Authority Fund | 160.5          | 0.0                      | 3,000.0        | 3,000.0        | 3,000.0                | 0.0            | 0.0            | 0.0            | 6,000.0         | 0.0          | 6,160.5         |
| <b>Total</b>                           | <b>1,491.0</b> | <b>325.6</b>             | <b>6,935.5</b> | <b>7,261.1</b> | <b>7,250.5</b>         | <b>0.0</b>     | <b>3,000.0</b> | <b>0.0</b>     | <b>17,511.6</b> | <b>0.0</b>   | <b>19,002.6</b> |

| <b>Houghton Road: Broadway to 22nd Street</b>  |                 |                          |                 |                 |                        |                |                |                |                 | Project ID: SR1F |                 |
|--|-----------------|--------------------------|-----------------|-----------------|------------------------|----------------|----------------|----------------|-----------------|------------------|-----------------|
| <b>Description:</b><br>Design and construct capacity improvements at the Broadway/Houghton intersection in accordance with the RTA plan. |                 |                          |                 |                 |                        |                |                |                |                 | Start Date: 7/12 |                 |
| <b>Justification:</b><br>Funding has been identified through the RTA.  |                 |                          |                 |                 |                        |                |                |                |                 | End Date: 6/17   |                 |
|  |                 |                          |                 |                 |                        |                |                |                |                 | Location: Ward 2 |                 |
| Source of Funds Summary  | Prior Years     | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project   |
|  |                 | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |                 |
| 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            |
| 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  | 11.0            | 0.0                      | 5.0             | 5.0             | 5.0                    | 0.0            | 0.0            | 0.0            | 10.0            | 0.0              | 21.0            |
| Impact Fee Funds   | 0.0             | 180.0                    | 2,392.0         | 2,572.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 2,572.0         | 0.0              | 2,572.0         |
| Regional Transportation Authority Fund   | 11,553.3        | 65.0                     | 10,000.0        | 10,065.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 10,065.0        | 0.0              | 21,618.3        |
| <b>Total</b>   | <b>11,747.2</b> | <b>245.0</b>             | <b>12,397.0</b> | <b>12,642.0</b> | <b>5.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>12,647.0</b> | <b>0.0</b>       | <b>24,394.2</b> |

| <b>Houghton Road: Golf Links Intersection Improvements</b>   |             |                          |              |              |                        |                |                |                |                 | Project ID: SR1J |                |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------|----------------|
| <b>Description:</b><br>Design and construct capacity improvements at the Broadway/Houghton intersection in accordance with the RTA plan. |             |                          |              |              |                        |                |                |                |                 | Start Date: 7/15 |                |
| <b>Justification:</b><br>Funding has been identified through the RTA.  |             |                          |              |              |                        |                |                |                |                 | End Date: 6/16   |                |
|  |             |                          |              |              |                        |                |                |                |                 | Location: Ward 4 |                |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project  |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |                |
| Impact Fee Funds   | 0.0         | 0.0                      | 500.0        | 500.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 500.0           | 0.0              | 500.0          |
| Regional Transportation Authority Fund   | 0.0         | 0.0                      | 0.0          | 0.0          | 500.0                  | 0.0            | 0.0            | 0.0            | 500.0           | 0.0              | 500.0          |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>500.0</b> | <b>500.0</b> | <b>500.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,000.0</b>  | <b>0.0</b>       | <b>1,000.0</b> |

| <b>Houghton Road: Irvington to Valencia</b>   |                 |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SR1E |                 |
|---|-----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|-----------------|
| <b>Description:</b><br>Widen Houghton Road to a six-lane, divided arterial in accordance with the RTA plan.   |                 |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |                 |
| <b>Justification:</b><br>Funding has been identified through the RTA. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 17.12. |                 |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |                 |
|   |                 |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |                 |
| Source of Funds Summary   | Prior Years     | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project   |
|   |                 | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                 |
| Capital Agreement Fund  | 6,878.8         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 6,878.8         |
| General Fund: Restricted Revenues   | 49.3            | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 49.3            |
| Highway User Revenue Fund   | 935.5           | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 935.5           |
| Highway User Revenue Fund: In-Lieu Fees   | 2,007.8         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 2,007.8         |
| Impact Fee Funds  | 1,395.6         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 1,395.6         |
| Regional Transportation Authority Fund  | 9,250.6         | 0.0                      | 20.0        | 20.0         | 5.0                    | 0.0            | 0.0            | 0.0            | 25.0            | 0.0                     | 9,275.6         |
| <b>Total</b>  | <b>20,517.6</b> | <b>0.0</b>               | <b>20.0</b> | <b>20.0</b>  | <b>5.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>25.0</b>     | <b>0.0</b>              | <b>20,542.6</b> |

| <b>Houghton Road: Union Pacific Railroad to I-10</b>   |              |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> SR1G |                |
|--|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Widen Houghton Road to a six-lane, divided arterial in accordance with the RTA plan.  |              |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/11 |                |
| <b>Justification:</b><br>Funding has been identified through the RTA. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 108.09. |              |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/17   |                |
|  |              |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Ward 4 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Capital Agreement Fund   | 0.0          | 0.0                      | 720.0          | 720.0          | 1,430.0                | 0.0            | 0.0            | 0.0            | 2,150.0         | 0.0                     | 2,150.0        |
| Federal Grant Funds  | 311.2        | 324.3                    | 2,860.0        | 3,184.3        | 0.0                    | 0.0            | 0.0            | 0.0            | 3,184.3         | 0.0                     | 3,495.5        |
| Highway User Revenue Fund  | 2.5          | 0.0                      | 0.0            | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 2.5            |
| Impact Fee Funds   | 0.0          | 0.0                      | 220.0          | 220.0          | 330.0                  | 0.0            | 0.0            | 0.0            | 550.0           | 0.0                     | 550.0          |
| Regional Transportation Authority Fund   | 414.3        | 0.0                      | 3,383.0        | 3,383.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 3,383.0         | 0.0                     | 3,797.3        |
| <b>Total</b>   | <b>728.0</b> | <b>324.3</b>             | <b>7,183.0</b> | <b>7,507.3</b> | <b>1,760.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>9,267.3</b>  | <b>0.0</b>              | <b>9,995.3</b> |

| <b>Houghton Road: Valencia to Mary Ann Cleveland Way</b>   |             |                          |              |              |                        |                |                 |                |                 | <b>Project ID:</b> SR1H |                 |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|-----------------|----------------|-----------------|-------------------------|-----------------|
| <b>Description:</b><br>Design and construction capacity improvements to Valencia Road in accordance with the RTA Plan. |             |                          |              |              |                        |                |                 |                |                 | <b>Start Date:</b> 7/15 |                 |
| <b>Justification:</b><br>Funding has been identified through the RTA.  |             |                          |              |              |                        |                |                 |                |                 | <b>End Date:</b> 6/21   |                 |
|  |             |                          |              |              |                        |                |                 |                |                 | <b>Location:</b> Ward 4 |                 |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                 |                | Five Year Total | Future Years            | Total Project   |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019  | Year 5 FY 2020 |                 |                         |                 |
| Regional Transportation Authority Fund   | 0.0         | 0.0                      | 700.0        | 700.0        | 300.0                  | 0.0            | 10,000.0        | 0.0            | 11,000.0        | 0.0                     | 11,000.0        |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>700.0</b> | <b>700.0</b> | <b>300.0</b>           | <b>0.0</b>     | <b>10,000.0</b> | <b>0.0</b>     | <b>11,000.0</b> | <b>0.0</b>              | <b>11,000.0</b> |

| <b>Intermodal Center Projects</b>  |                |                          |              |                |                        |                |                |                |                 | <b>Project ID:</b> M528 |                |
|--|----------------|--------------------------|--------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>The Intermodal Center Projects are two phases that encompass bus access and pedestrian safety improvements. Phase 1 involves the upgrade of two intersections on 6th Avenue including new signals, ADA corner ramps and sidewalk connections, and new asphalt paving and striping on 6th Avenue between Toole Avenue and Congress Street. Phase 2 involves the realignment of the Pennington and Toole intersection; as well as, new signals, paving and striping at that intersection. |                |                          |              |                |                        |                |                |                |                 | <b>Start Date:</b> 7/05 |                |
| <b>Justification:</b><br>The improvements on 6th Avenue between Toole Avenue and Congress Street and the intersection at Pennington and Toole will greatly improve bus access and pedestrian safety around the Ronstadt Transit Center and establish improved connectivity with the historic Downtown Intermodal Center.   |                |                          |              |                |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
|  |                |                          |              |                |                        |                |                |                |                 | <b>Location:</b> Ward 6 |                |
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |              |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |                | Carry Forward            | New Funding  | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| General Fund   | 237.4          | 0.0                      | 0.0          | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 237.4          |
| Mass Transit Funds   | 2,304.4        | 900.0                    | 900.0        | 1,800.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,800.0         | 0.0                     | 4,104.4        |
| <b>Total</b>   | <b>2,541.8</b> | <b>900.0</b>             | <b>900.0</b> | <b>1,800.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,800.0</b>  | <b>0.0</b>              | <b>4,341.8</b> |

**Kolb Road Connection to Sabino Canyon**

**Description:**  
Design and construct a 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 RTA Plan and will improve regional traffic circulation. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 787.00.

**Project ID:** SR8A  
**Start Date:** 7/09  
**End Date:** 6/16  
**Location:** Ward 2

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|--|----------------|--------------------------|-----------------|-----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|  |                | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Capital Agreement Fund                 | 0.0            | 0.0                      | 350.0           | 350.0           | 0.0                    | 0.0            | 0.0            | 0.0            | 350.0           | 0.0          | 350.0           |
| Federal Grant Funds                    | 500.0          | 611.2                    | 12,980.0        | 13,591.2        | 0.0                    | 0.0            | 0.0            | 0.0            | 13,591.2        | 0.0          | 14,091.2        |
| 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              | 23.8           | 6.7                      | 5.0             | 11.7            | 0.0                    | 0.0            | 0.0            | 0.0            | 11.7            | 0.0          | 35.5            |
| Regional Transportation Authority Fund | 7,861.6        | 1,766.6                  | 1,435.0         | 3,201.6         | 0.0                    | 0.0            | 0.0            | 0.0            | 3,201.6         | 0.0          | 11,063.2        |
| <b>Total</b>                           | <b>8,579.2</b> | <b>2,384.5</b>           | <b>14,770.0</b> | <b>17,154.5</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>17,154.5</b> | <b>0.0</b>   | <b>25,733.7</b> |

**Kolb Road: Irvington to Valencia**

**Description:**  
Widen Kolb Road to six lanes between Irvington Road and Valencia Road.

**Justification:**  
FHWA funds have been allocated to this project through the PAG TIP. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 83.04.

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

| Source of Funds Summary                | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Capital Agreement Fund                 | 0.0         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 114.0          | 0.0            | 114.0           | 0.0          | 114.0          |
| Federal Grant Funds                    | 0.0         | 0.0                      | 475.0        | 475.0        | 125.0                  | 100.0          | 2,000.0        | 0.0            | 2,700.0         | 0.0          | 2,700.0        |
| Highway User Revenue Fund              | 0.0         | 0.0                      | 53.0         | 53.0         | 8.0                    | 5.1            | 0.0            | 0.0            | 66.1            | 0.0          | 66.1           |
| Regional Transportation Authority Fund | 0.0         | 0.0                      | 105.0        | 105.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 105.0           | 0.0          | 105.0          |
| <b>Total</b>                           | <b>0.0</b>  | <b>0.0</b>               | <b>633.0</b> | <b>633.0</b> | <b>133.0</b>           | <b>105.1</b>   | <b>2,114.0</b> | <b>0.0</b>     | <b>2,985.1</b>  | <b>0.0</b>   | <b>2,985.1</b> |

**Laos Transit Center**

**Description:**  
 This project involves the planning, design, construction and long-term maintenance of a new bus bay at the Laos Transit Center for use by the Regional Transit Authority (RTA) Sun Shuttle Express service from Green Valley and Ajo, as well as local routes. There will be space for two vans, a new passenger shelter, and separate ingress and egress for vans to safely utilize the center.

**Justification:**  
 The City is required to fund this traffic signal as part of a previously approved development agreement.

**Project ID:** MRC5  
**Start Date:** 2/15  
**End Date:** 1/16  
**Location:** Ward 5

| Source of Funds Summary                | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Regional Transportation Authority Fund | 0.0         | 0.0                      | 130.0        | 130.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 130.0           | 0.0          | 130.0         |
| <b>Total</b>                           | <b>0.0</b>  | <b>0.0</b>               | <b>130.0</b> | <b>130.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>130.0</b>    | <b>0.0</b>   | <b>130.0</b>  |

**LED Lighting Conversion**

**Description:**  
 Design and install light emitting diode (LED) technology for existing Tucson street and garage lights, including adaptive controls to create a network to remotely operate the lighting.

**Justification:**  
 LED lighting provides a 31%-51% reduction in energy usage and LED lights have a life expectancy five times greater than existing lighting. Additional energy savings are made possible with adaptive controls to remotely monitor each light for on/off and dimming control. LED's white light provides optimal color rendering to improve visibility and public safety.

**Project ID:** S604  
**Start Date:** 7/15  
**End Date:** 6/17  
**Location:** Citywide

| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|---------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|                           |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Highway User Revenue Fund | 0.0         | 0.0                      | 1,500.0        | 1,500.0        | 13,500.0               | 0.0            | 0.0            | 0.0            | 15,000.0        | 0.0          | 15,000.0        |
| <b>Total</b>              | <b>0.0</b>  | <b>0.0</b>               | <b>1,500.0</b> | <b>1,500.0</b> | <b>13,500.0</b>        | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>15,000.0</b> | <b>0.0</b>   | <b>15,000.0</b> |

| <b>Liberty Avenue: Bicycle Boulevard</b>   |             |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> SP04 |                |
|--|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and build bicycle boulevard improvements along the Liberty Avenue alignment.   |             |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/10 |                |
| <b>Justification:</b><br>Bicycle boulevards enhance safety and convenience for commuter bicyclists and encourage the use of alternate modes of transportation. |             |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
|  |             |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Ward 5 |                |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Federal Grant Funds  | 0.1         | 42.0                     | 1,050.0        | 1,092.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,092.0         | 0.0                     | 1,092.1        |
| Highway User Revenue Fund  | 1.7         | 0.0                      | 0.0            | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 1.7            |
| Regional Transportation Authority Fund   | 76.2        | 55.0                     | 50.0           | 105.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 105.0           | 0.0                     | 181.2          |
| <b>Total</b>   | <b>78.0</b> | <b>97.0</b>              | <b>1,100.0</b> | <b>1,197.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,197.0</b>  | <b>0.0</b>              | <b>1,275.0</b> |

| <b>Pantano Repaving: Escalante to Irvington</b>  |              |                          |             |                |                        |                |                |                |                 | <b>Project ID:</b> S10T |                |
|--|--------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Reconstruct the failed pavement section along this segment of Pantano Road. |              |                          |             |                |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |                |
| <b>Justification:</b><br>Federal funds have been allocated through the PAG TIP process.            |              |                          |             |                |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
|  |              |                          |             |                |                        |                |                |                |                 | <b>Location:</b> Ward 4 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |              | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Capital Agreement Fund   | 0.0          | 120.4                    | 0.0         | 120.4          | 0.0                    | 0.0            | 0.0            | 0.0            | 120.4           | 0.0                     | 120.4          |
| Federal Grant Funds  | 222.1        | 1,982.3                  | 0.0         | 1,982.3        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,982.3         | 0.0                     | 2,204.4        |
| General Fund: Restricted   | 13.0         | 0.0                      | 0.0         | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 13.0           |
| Highway User Revenue Fund  | 34.2         | 26.1                     | 0.0         | 26.1           | 0.0                    | 0.0            | 0.0            | 0.0            | 26.1            | 0.0                     | 60.3           |
| <b>Total</b>   | <b>269.3</b> | <b>2,128.8</b>           | <b>0.0</b>  | <b>2,128.8</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,128.8</b>  | <b>0.0</b>              | <b>2,398.1</b> |

| <b>Park-and-Ride Lot: Houghton</b>   |                |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> MRC1 |                |
|--|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and construct a park-and-ride lot located on the eastside of the Houghton Road Corridor in the vicinity of Broadway Boulevard.   |                |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/08 |                |
| <b>Justification:</b><br>The project is included in the Transit Element of the Regional Transportation Plan approved by voters in May 2006 and by the Mayor and Council on October 16, 2007. The park-and-ride lot will promote the use of public transit. |                |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
|  |                |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |                |
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Regional Transportation Authority Fund   | 2,639.6        | 0.0                      | 20.0        | 20.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 20.0            | 0.0                     | 2,659.6        |
| <b>Total</b>   | <b>2,639.6</b> | <b>0.0</b>               | <b>20.0</b> | <b>20.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>20.0</b>     | <b>0.0</b>              | <b>2,659.6</b> |

| <b>Park-and-Ride Lot Improvements for Sun Tran</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> M923 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Improvements during this period include repaving of Golf Links/Kolb and the Speedway/Harrison locations.  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |               |
| <b>Justification:</b><br>The project is included in the Transit Element of the Regional Transportation Plan approved by voters in May 2006 and by the Mayor and Council on October 16, 2007. The park-and-ride lot will promote the use of public transit. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/18   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 2 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Mass Transit Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 160.0                  | 380.0          | 0.0            | 0.0            | 540.0           | 0.0                     | 540.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>160.0</b>           | <b>380.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>540.0</b>    | <b>0.0</b>              | <b>540.0</b>  |

| <b>Park-and-Ride Lot: Rita Ranch</b>  |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> MRC4 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct a Park-and Ride facility located on the southeast side along Houghton Road corridor. The facility will accommodate 100 to 150 parking spaces with turn-around space for Sun Tran buses. |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/08 |               |
| <b>Justification:</b><br>This project is included in the Transit Element of the Regional Transportation Plan approved by voters in May 2006 and by Mayor and Council on October 16, 2007.   |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|   |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Regional Transportation Authority Fund  | 748.4        | 0.0                      | 10.0        | 10.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 10.0            | 0.0                     | 758.4         |
| <b>Total</b>  | <b>748.4</b> | <b>0.0</b>               | <b>10.0</b> | <b>10.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>10.0</b>     | <b>0.0</b>              | <b>758.4</b>  |

| <b>Park Avenue: Transportation Enhancements</b>   |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> S194 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Construct various pedestrian and streetscape improvements along Park Avenue between Glenn Street and Speedway Boulevard.       |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/09 |               |
| <b>Justification:</b><br>A Federal Transportation Enhancement Grant was awarded for this project, which will enhance pedestrian safety and enjoyment. |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|   |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 3 |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds   | 98.2         | 499.4                    | 0.0         | 499.4        | 0.0                    | 0.0            | 0.0            | 0.0            | 499.4           | 0.0                     | 597.6         |
| Highway User Revenue Fund   | 18.6         | 33.0                     | 0.0         | 33.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 33.0            | 0.0                     | 51.6          |
| Regional Transportation Authority Fund  | 25.6         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 25.6          |
| <b>Total</b>  | <b>142.4</b> | <b>532.4</b>             | <b>0.0</b>  | <b>532.4</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>532.4</b>    | <b>0.0</b>              | <b>674.8</b>  |

| <b>Pima Street: Pedestrian Pathway Enhancements</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> S01J |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct pedestrian improvements along Pima Street between Alvernon Way and Columbus Boulevard.                          |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/10 |               |
| <b>Justification:</b><br>A Federal Transportation Enhancement Grant was awarded for these improvements, which will improve pedestrian safety and enjoyment. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 6 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds   | 0.0         | 150.0                    | 442.0        | 592.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 592.0           | 0.0                     | 592.0         |
| Highway User Revenue Fund   | 63.1        | 20.0                     | 24.0         | 44.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 44.0            | 0.0                     | 107.1         |
| <b>Total</b>  | <b>63.1</b> | <b>170.0</b>             | <b>466.0</b> | <b>636.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>636.0</b>    | <b>0.0</b>              | <b>699.1</b>  |

| <b>Regional Transportation Data Network</b>  |                |                          |              |                |                        |                |                |                |                 | <b>Project ID:</b> S701   |                |
|--|----------------|--------------------------|--------------|----------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|----------------|
| <b>Description:</b><br>Plan, design, and construct a regionally integrated data and communications network to be known as the Regional Transportation Data Network (RTDN). This project will determine the new infrastructure needed to improve region-wide data exchange. |                |                          |              |                |                        |                |                |                |                 | <b>Start Date:</b> 7/06   |                |
| <b>Justification:</b><br>Establishment of the RTDN will facilitate the exchange of data and information between jurisdictions, improve traffic flow, and reduce future utility costs.  |                |                          |              |                |                        |                |                |                |                 | <b>End Date:</b> 6/16     |                |
|  |                |                          |              |                |                        |                |                |                |                 | <b>Location:</b> Citywide |                |
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |              |                | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project  |
|  |                | Carry Forward            | New Funding  | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |                |
| Federal Grant Funds  | 1,538.3        | 1,412.8                  | 0.0          | 1,412.8        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,412.8         | 0.0                       | 2,951.1        |
| Highway User Revenue Fund  | 14.0           | 18.4                     | 0.0          | 18.4           | 0.0                    | 0.0            | 0.0            | 0.0            | 18.4            | 0.0                       | 32.4           |
| Regional Transportation Authority Fund   | 0.0            | 0.0                      | 750.0        | 750.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 750.0           | 0.0                       | 750.0          |
| <b>Total</b>   | <b>1,552.3</b> | <b>1,431.2</b>           | <b>750.0</b> | <b>2,181.2</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,181.2</b>  | <b>0.0</b>                | <b>3,733.5</b> |

| <b>Replacement Buses for Sun Tran</b>   |                |                          |                |                |                        |                 |                 |                |                 | <b>Project ID:</b> M145   |                 |
|---|----------------|--------------------------|----------------|----------------|------------------------|-----------------|-----------------|----------------|-----------------|---------------------------|-----------------|
| <b>Description:</b><br>Purchase replacement vehicles for fixed-route fleet for Sun Tran. The vehicles being replaced will have exceeded Federal Transit Administration guidelines for replacement. It takes 12 to 24 months to build heavy duty transit buses. Funds are programmed in the year of expenditure. |                |                          |                |                |                        |                 |                 |                |                 | <b>Start Date:</b> Annual |                 |
|   |                |                          |                |                |                        |                 |                 |                |                 | <b>End Date:</b> Annual   |                 |
| <b>Justification:</b><br>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.   |                |                          |                |                |                        |                 |                 |                |                 | <b>Location:</b> Citywide |                 |
| Source of Funds Summary   | Prior Years    | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                 |                 |                | Five Year Total | Future Years              | Total Project   |
|   |                | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019  | Year 5 FY 2020 |                 |                           |                 |
| Mass Transit Funds  | 3,343.9        | 0.0                      | 6,030.0        | 6,030.0        | 0.0                    | 11,696.0        | 10,907.0        | 8,280.0        | 36,913.0        | 0.0                       | 40,256.9        |
| <b>Total</b>  | <b>3,343.9</b> | <b>0.0</b>               | <b>6,030.0</b> | <b>6,030.0</b> | <b>0.0</b>             | <b>11,696.0</b> | <b>10,907.0</b> | <b>8,280.0</b> | <b>36,913.0</b> | <b>0.0</b>                | <b>40,256.9</b> |

| <b>Replacement Vans for Sun Van</b>   |             |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> M110   |                 |
|---|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|-----------------|
| <b>Description:</b><br>Purchase replacement vehicles for paratransit fleet for Sun Van. The vehicles being replaced will have exceeded Federal Transit Administration guidelines for replacement.         |             |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> Annual |                 |
|   |             |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> Annual   |                 |
| <b>Justification:</b><br>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. |             |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Citywide |                 |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project   |
|   |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |                 |
| Mass Transit Funds  | 0.0         | 3,180.0                  | 2,604.0        | 5,784.0        | 1,824.0                | 2,178.0        | 2,244.0        | 3,675.0        | 15,705.0        | 0.0                       | 15,705.0        |
| <b>Total</b>  | <b>0.0</b>  | <b>3,180.0</b>           | <b>2,604.0</b> | <b>5,784.0</b> | <b>1,824.0</b>         | <b>2,178.0</b> | <b>2,244.0</b> | <b>3,675.0</b> | <b>15,705.0</b> | <b>0.0</b>                | <b>15,705.0</b> |

| <b>Rio Vista Safe Routes to School</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SP06 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct pedestrian improvements near Rio Vista Elementary School including a shared-use path on Limberlost Road.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |               |
| <b>Justification:</b><br>A federal Safe-Routes-to-School Grant has been received to fund these improvements, which will enhance pedestrian safety. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 19.11. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 3 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 76.3        | 289.0                    | 0.0         | 289.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 289.0           | 0.0                     | 365.3         |
| Highway User Revenue Fund  | 0.4         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 0.4           |
| <b>Total</b>   | <b>76.7</b> | <b>289.0</b>             | <b>0.0</b>  | <b>289.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>289.0</b>    | <b>0.0</b>              | <b>365.7</b>  |

| <b>Robinson Safe Routes to School</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP08        |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------------|---------------|
| <b>Description:</b><br>Construct sidewalks and safe pedestrian crossings in the vicinity of Robison Elementary School to encourage walking and biking activities. |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13        |               |
| <b>Justification:</b><br>The City received a Federal Safe Routes to School grant for these improvements.  |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16          |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Wards 5 and 6 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                   | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                |               |
| Federal Grant Funds   | 10.1        | 45.0                     | 325.0        | 370.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 370.0           | 0.0                            | 380.1         |
|   | <b>10.1</b> | <b>45.0</b>              | <b>325.0</b> | <b>370.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>370.0</b>    | <b>0.0</b>                     | <b>380.1</b>  |

| <b>Safe Routes to School Program</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> SP06   |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|---------------|
| <b>Description:</b><br>Develop a program that encourages and educates school-age children to walk and bike to school. |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/14   |               |
| <b>Justification:</b><br>Funding has been allocated by the Federal Highway Administration for this program.           |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16     |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Citywide |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |               |
| Federal Grant Funds   | 11.8        | 0.0                      | 250.0        | 250.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 250.0           | 0.0                       | 261.8         |
| Highway User Revenue Fund   | 0.7         | 0.0                      | 15.0         | 15.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 15.0            | 0.0                       | 15.7          |
| <b>Total</b>  | <b>12.5</b> | <b>0.0</b>               | <b>265.0</b> | <b>265.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>265.0</b>    | <b>0.0</b>                | <b>277.5</b>  |

| <b>Security for Transit</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> M023   |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---------------------------|---------------|
| <b>Description:</b><br>Security equipment for new replacement buses, including security cameras, automatic vehicle locator (AVL) systems, radio equipment and digital video recorder (DVR) upgrades.                     |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12   |               |
| <b>Justification:</b><br>In order to comply with Federal Transit Administration (FTA) terms and conditions, the City must spend at least 1% of Urbanized Area formula funds on security projects for the transit system. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/20     |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Citywide |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years              | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                           |               |
| Mass Transit Funds   | 0.0         | 0.0                      | 170.8        | 170.8        | 170.8                  | 170.8          | 170.8          | 170.8          | 854.0           | 0.0                       | 854.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>170.8</b> | <b>170.8</b> | <b>170.8</b>           | <b>170.8</b>   | <b>170.8</b>   | <b>170.8</b>   | <b>854.0</b>    | <b>0.0</b>                | <b>854.0</b>  |

**Silverbell: Ina to Grant Road**

**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. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 56.06.

**Project ID:** SR6A  
**Start Date:** 7/08  
**End Date:** 6/21  
**Location:** City and County

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                |                 |                | Five Year Total | Future Years    | Total Project   |
|--|----------------|--------------------------|-----------------|-----------------|------------------------|----------------|-----------------|----------------|-----------------|-----------------|-----------------|
|  |                | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019  | Year 5 FY 2020 |                 |                 |                 |
| Capital Agreement Fund                 | 7.2            | 0.0                      | 2,079.0         | 2,079.0         | 0.0                    | 7,044.0        | 2,000.0         | 0.0            | 11,123.0        | 4,000.0         | 15,130.2        |
| Highway User Revenue Fund              | 6.4            | 4.0                      | 5.0             | 9.0             | 5.0                    | 5.0            | 0.0             | 0.0            | 19.0            | 0.0             | 25.4            |
| Impact Fee Funds                       | 290.0          | 0.0                      | 800.0           | 800.0           | 800.0                  | 200.0          | 1,200.0         | 0.0            | 3,000.0         | 8,000.0         | 11,290.0        |
| Regional Transportation Authority Fund | 4,754.9        | 1,178.5                  | 9,322.0         | 10,500.5        | 2,600.0                | 1,000.0        | 14,000.0        | 0.0            | 28,100.5        | 10,000.0        | 42,855.4        |
| <b>Total</b>                           | <b>5,058.5</b> | <b>1,182.5</b>           | <b>12,206.0</b> | <b>13,388.5</b> | <b>3,405.0</b>         | <b>8,249.0</b> | <b>17,200.0</b> | <b>0.0</b>     | <b>42,242.5</b> | <b>22,000.0</b> | <b>69,301.0</b> |

**Speedway Boulevard at Union Pacific Underpass**

**Description:**  
Replace the existing bridge structure for the Speedway Boulevard underpass at the Union Pacific Railroad crossing.

**Justification:**  
Replacement of the bridge structure will improve motorist safety.

**Project ID:** S190  
**Start Date:** 7/09  
**End Date:** 6/16  
**Location:** Ward 1

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|  |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Federal Grant Funds                    | 1,201.9        | 124.2                    | 0.0         | 124.2        | 0.0                    | 0.0            | 0.0            | 0.0            | 124.2           | 0.0          | 1,326.1        |
| Highway User Revenue Fund              | 3.0            | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 3.0            |
| Regional Transportation Authority Fund | 75.3           | 23.7                     | 0.0         | 23.7         | 0.0                    | 0.0            | 0.0            | 0.0            | 23.7            | 0.0          | 99.0           |
| <b>Total</b>                           | <b>1,280.2</b> | <b>147.9</b>             | <b>0.0</b>  | <b>147.9</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>147.9</b>    | <b>0.0</b>   | <b>1,428.1</b> |

**Stone Ave: Drachman and Speedway Improvements**

**Description:**  
Design and construct gateway and intersection improvements along Stone Avenue from Drachman to Speedway Boulevard.

**Justification:**  
This improvement will enhance this northern gateway into downtown.

**Project ID:** S14W  
**Start Date:** 7/00  
**End Date:** 6/16  
**Location:** Wards 1, 3, and 6

| Source of Funds Summary                | Prior Years    | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|--|----------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|  |                | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Capital Agreement Fund                 | 1,545.7        | 2,375.3                  | 0.0         | 2,375.3        | 0.0                    | 0.0            | 0.0            | 0.0            | 2,375.3         | 0.0          | 3,921.0        |
| 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 | 0.0            | 485.8                    | 0.0         | 485.8          | 0.0                    | 0.0            | 0.0            | 0.0            | 485.8           | 0.0          | 485.8          |
| <b>Total</b>                           | <b>1,545.8</b> | <b>2,861.1</b>           | <b>0.0</b>  | <b>2,861.1</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,861.1</b>  | <b>0.0</b>   | <b>4,406.9</b> |

**Street Improvements: Proposition 409**

**Description:**  
Restore, repair, and resurface streets inside Tucson City limits with the \$100 million bond program. Street resurfacing will be over a 5-year period and approximately 85% of bond funds will be allocated to major streets and 15% will be allocated to neighborhood streets. All work will be competitively bid out to private sector contractors.

**Justification:**  
Approximately 130 miles of major streets and 114 miles of neighborhood streets will be resurfaced as part of the bond program.

**Project ID:** S409  
**Start Date:** 7/13  
**End Date:** 6/18  
**Location:** Citywide

| Source of Funds Summary   | Prior Years     | Adopted Fiscal Year 2016 |                 |                 | Projected Requirements |                 |                |                | Five Year Total | Future Years | Total Project    |
|---------------------------|-----------------|--------------------------|-----------------|-----------------|------------------------|-----------------|----------------|----------------|-----------------|--------------|------------------|
|                           |                 | Carry Forward            | New Funding     | Year 1 Total    | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                  |
| General Obligation Bonds  | 36,089.4        | 3,000.0                  | 19,780.0        | 22,780.0        | 19,780.0               | 19,780.0        | 0.0            | 0.0            | 62,340.0        | 0.0          | 98,429.4         |
| Highway User Revenue Fund | 281.3           | 0.0                      | 1,300.0         | 1,300.0         | 1,300.0                | 1,200.0         | 0.0            | 0.0            | 3,800.0         | 0.0          | 4,081.3          |
| <b>Total</b>              | <b>36,370.7</b> | <b>3,000.0</b>           | <b>21,080.0</b> | <b>24,080.0</b> | <b>21,080.0</b>        | <b>20,980.0</b> | <b>0.0</b>     | <b>0.0</b>     | <b>66,140.0</b> | <b>0.0</b>   | <b>102,510.7</b> |

| <b>Sunset: Silverbell to I-10 to River</b>   |             |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> SR12 |                |
|--|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Construct a new three-lane roadway between Silverbell Road and River Road, including a new bridge over the Santa Cruz River.  |             |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/15 |                |
|  |             |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/17   |                |
| <b>Justification:</b><br>This project was approved as part of the May 2006 RTA Plan and will re-establish Sunset Road. Pima County has been identified as the lead agency and this funding will provide the City of Tucson's local contribution. |             |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Ward 1 |                |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Impact Fee Funds   | 0.0         | 0.0                      | 1,700.0        | 1,700.0        | 1,700.0                | 0.0            | 0.0            | 0.0            | 3,400.0         | 0.0                     | 3,400.0        |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>1,700.0</b> | <b>1,700.0</b> | <b>1,700.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>3,400.0</b>  | <b>0.0</b>              | <b>3,400.0</b> |

| <b>Sun Tran Maintenance Equipment</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> M929 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Replacement of Dynamometer at South Park Garage due to the current equipment being non supported, thus there are no longer parts available to maintain or repair the current equipment. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
| <b>Justification:</b><br>Equipment is utilized in the maintenance of revenue vehicles.   |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 5 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Mass Transit Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 200.0                  | 0.0            | 0.0            | 0.0            | 200.0           | 0.0                     | 200.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>200.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>200.0</b>    | <b>0.0</b>              | <b>200.0</b>  |

| <b>Transit Centers Improvements for Sun Tran</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> M925            |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------------------------|---------------|
| <b>Description:</b><br>Major Renovation and rehabilitation over the next two years includes refurbishing the restrooms at Laos Transit Center and Ronstadt Transit Center, as well as replacing degraded pavement at Tohono Tadaï Transit Center.  |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/15            |               |
| <b>Justification:</b><br>Transit Centers require continuous upgrade and improvements to prolong asset life. Transit Centers include: Laos Transit Center located at 205 W. Irvington, Ronstadt Transit Center located at 215 E. Congress St. and Tohono Tadaï Transit Center located at 4540 N. Stone Ave. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/17              |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Wards 3, 5, and 6 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                       | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                    |               |
| Mass Transit Funds   | 0.0         | 0.0                      | 475.0        | 475.0        | 360.0                  | 0.0            | 0.0            | 0.0            | 835.0           | 0.0                                | 835.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>475.0</b> | <b>475.0</b> | <b>360.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>835.0</b>    | <b>0.0</b>                         | <b>835.0</b>  |

| <b>Transit Facility Improvements (South Park Stormwater Yard)</b>  |             |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> M951 |                |
|--|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>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 new asphalt. |             |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/15 |                |
| <b>Justification:</b><br>Significantly reduce surface flow of stormwater through the storage yard and eliminate ponding which has degraded the existing asphalt pavement.  |             |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
|  |             |                          |                |                |                        |                |                |                |                 | <b>Location:</b> Ward 5 |                |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Mass Transit Funds   | 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        |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>4,000.0</b> | <b>4,000.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>4,000.0</b>  | <b>0.0</b>              | <b>4,000.0</b> |

| <b>Treat Avenue Bike Boulevard</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SP12            |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------------------------|---------------|
| <b>Description:</b><br>Construct bike boulevard improvements along the Treat Avenue alignment, providing a low stress north/south bicycle route through midtown. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13            |               |
| <b>Justification:</b><br>This project was approved for RTA funds in December 2012.   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16              |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Wards 3, 5, and 6 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years                       | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                    |               |
| Regional Transportation Authority Fund   | 51.6        | 122.6                    | 0.0         | 122.6        | 0.0                    | 0.0            | 0.0            | 0.0            | 122.6           | 0.0                                | 174.2         |
| <b>Total</b>   | <b>51.6</b> | <b>122.6</b>             | <b>0.0</b>  | <b>122.6</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>122.6</b>    | <b>0.0</b>                         | <b>174.2</b>  |

| <b>Tucson Boulevard: Multi-Use Path</b>  |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> S01G |               |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct an off-road multi-use path along Tucson Boulevard from Prince Road to the Rio Vista Natural Resource Park. |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/09 |               |
| <b>Justification:</b><br>These improvements will make access to the park safer for pedestrians and bicyclists.   |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|  |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 5 |               |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Federal Grant Funds  | 155.6        | 293.2                    | 12.0        | 305.2        | 12.0                   | 0.0            | 0.0            | 0.0            | 317.2           | 0.0                     | 472.8         |
| Highway User Revenue Fund  | 13.1         | 35.4                     | 2.0         | 37.4         | 0.0                    | 0.0            | 0.0            | 0.0            | 37.4            | 0.0                     | 50.5          |
| <b>Total</b>   | <b>168.7</b> | <b>328.6</b>             | <b>14.0</b> | <b>342.6</b> | <b>12.0</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>354.6</b>    | <b>0.0</b>              | <b>523.3</b>  |

| <b>Valencia/Hemisphere Loop HAWK</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> SH30 |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct a HAWK signal at the Valencia/Hemisphere Loop intersection. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/15 |               |
| <b>Justification:</b><br>This work is being performed to fulfill an annexation agreement.               |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |               |
|   |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 5 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Highway User Revenue Fund   | 0.0         | 0.0                      | 30.0        | 30.0         | 145.0                  | 0.0            | 0.0            | 0.0            | 175.0           | 0.0                     | 175.0         |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>30.0</b> | <b>30.0</b>  | <b>145.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>175.0</b>    | <b>0.0</b>              | <b>175.0</b>  |

| <b>Valencia: Kolb to Houghton</b>  |             |                          |                |                |                        |                |                 |                 |                 | <b>Project ID:</b> SR14 |                 |
|--|-------------|--------------------------|----------------|----------------|------------------------|----------------|-----------------|-----------------|-----------------|-------------------------|-----------------|
| <b>Description:</b><br>Widen Valencia to a six-lane, divided roadway with bike lanes and sidewalks.  |             |                          |                |                |                        |                |                 |                 |                 | <b>Start Date:</b> 7/13 |                 |
| <b>Justification:</b><br>This project was approved as part of the May 2006 RTA Plan. Pima Association of Governments (PAG) 5-Year Regional Transportation Improvement Program (TIP) 59.06. |             |                          |                |                |                        |                |                 |                 |                 | <b>End Date:</b> 6/21   |                 |
|  |             |                          |                |                |                        |                |                 |                 |                 | <b>Location:</b> Ward 4 |                 |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                 |                 | Five Year Total | Future Years            | Total Project   |
|  |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019  | Year 5 FY 2020  |                 |                         |                 |
| Highway User Revenue Fund  | 0.0         | 0.0                      | 5.0            | 5.0            | 5.0                    | 0.0            | 0.0             | 0.0             | 10.0            | 0.0                     | 10.0            |
| Impact Fee Funds   | 0.0         | 0.0                      | 0.0            | 0.0            | 0.0                    | 5,000.0        | 2,000.0         | 2,000.0         | 9,000.0         | 0.0                     | 9,000.0         |
| Regional Transportation Authority Fund   | 0.0         | 0.0                      | 2,399.0        | 2,399.0        | 0.0                    | 1,395.0        | 11,044.0        | 11,044.0        | 25,882.0        | 0.0                     | 25,882.0        |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>2,404.0</b> | <b>2,404.0</b> | <b>5.0</b>             | <b>6,395.0</b> | <b>13,044.0</b> | <b>13,044.0</b> | <b>34,892.0</b> | <b>0.0</b>              | <b>34,892.0</b> |

Tucson Water



# Capital Improvement Program Department Statement

**FY 2016 through FY 2020**

**Department:** Tucson Water

**Five-Year Total:** \$324,800,000

Tucson Water's CIP is a cornerstone in a long-term water supply plan for the community. This CIP will significantly assist in attaining safe yield in the Tucson basin, balancing groundwater pumping with natural replenishment of the aquifer. The five-year program reflects the City's leadership in water resource management through the prudent use of groundwater, Colorado River water, and reclaimed water. The CIP is configured to allow the department to purchase, store, recover, and deliver the City's full allocation of Colorado River Water.

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 high quality water
- the water supply is reliable
- the safe yield and assured water supply requirements of the Arizona State Groundwater Management Act are met

The five-year capital program of \$324.8 million includes improvements to both the potable and reclaimed water systems. The program will be funded with a combination of water revenues, water system revenue obligation funds, and is contingent on the utility's ability to obtain debt financing.

**Potable Water System** - These projects total \$297.9 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. Of the overall total, approximately \$106.5 million in Renewable Potable Water Supply Projects are included in this five-year program for reservoir and booster, transmission mains, recovery mains, and collector lines. In addition, the following funding is included in the potable portion of the CIP: \$22.9 million for water line relocations or replacements associated with road projects, \$12.5 million for main replacements, \$33.0 million for replacement of old meters, \$31.7 million to preserve the integrity of the utility's storage facilities by making necessary improvements to reservoirs, and \$14.9 million for updating critical communications infrastructure which has become obsolete.

**Reclaimed Water System** - These projects total \$26.9 million over the next five years. The proposed CIP includes the construction of the Regional Reclaimed Facility, pumps, boosters, and the drilling and equipping of new reclaimed wells.

## Tucson Water

(\$000)

| <b>48" Aviation/3rd Avenue Cathodic Protection (CP) System</b><br><b>Description:</b><br>Design and construct the cathodic protection (CP) to the existing 48-inch 3rd Avenue pipeline.<br><b>Justification:</b><br>Applied cathodic protection will increase the original life span. Failure to apply CP to the pipeline will allow corrosion and over time will degrade and raise the risk of potential pipeline water leaks and possible failures. |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W048<br><b>Start Date:</b> 11/13<br><b>End Date:</b> 6/16<br><b>Location:</b> County |               |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---|---------------|
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years  | Total Project |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |   |               |
| Tucson Water Obligation Bonds   | 159.9        | 0.0                      | 181.0        | 181.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 181.0           | 0.0   | 340.9         |
| Tucson Water Operating Funds  | 21.8         | 0.0                      | 22.0         | 22.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 22.0            | 0.0   | 43.8          |
| <b>Total</b>  | <b>181.7</b> | <b>0.0</b>               | <b>203.0</b> | <b>203.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>203.0</b>    | <b>0.0</b>  | <b>384.7</b>  |

| <b>Academy Reservoir</b><br><b>Description:</b><br>Design and construct a new reservoir liner at the Police and Fire Academy Reservoir. A billing meter, backflow assembly, and fire pump will also be installed.<br><b>Justification:</b><br>Modifications and new operational controls will be added to the well PV-001A so that operators can turn the well on and off remotely. |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W091<br><b>Start Date:</b> 07/14<br><b>End Date:</b> 6/16<br><b>Location:</b> Ward 4 |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|---|---------------|
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years  | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |   |               |
| Tucson Water Obligation Bonds   | 25.0        | 630.0                    | 0.0          | 630.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 630.0           | 0.0   | 655.0         |
| Tucson Water Operating Funds  | 55.0        | 0.0                      | 113.0        | 113.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 113.0           | 0.0   | 168.0         |
| <b>Total</b>  | <b>80.0</b> | <b>630.0</b>             | <b>113.0</b> | <b>743.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>743.0</b>    | <b>0.0</b>  | <b>823.0</b>  |

|  |   |
|--|---|
| <p><b>Advanced Metering Infrastructure</b></p> <p><b>Description:</b><br/>This project will set up the network software, cost of the repeaters, and collectors needed to read meters.</p> <p><b>Justification:</b><br/>This project will increase meter reading efficiency and reduce energy/fuel consumption. It could provide the customers with timely data to assist them with managing their water use and can be used to notify customers that they may have a leak.</p> | <p><b>Project ID:</b> W138<br/> <b>Start Date:</b> 07/15<br/> <b>End Date:</b> 6/21<br/> <b>Location:</b> City and County</p> |
|--|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0            | 0.0            | 660.0                  | 650.0          | 680.0          | 700.0          | 2,690.0         | 300.0        | 2,990.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 1,241.0        | 1,241.0        | 73.0                   | 76.0           | 76.0           | 80.0           | 1,546.0         | 0.0          | 1,546.0        |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>1,241.0</b> | <b>1,241.0</b> | <b>733.0</b>           | <b>726.0</b>   | <b>756.0</b>   | <b>780.0</b>   | <b>4,236.0</b>  | <b>300.0</b> | <b>4,536.0</b> |

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|--|--|
| <p><b>Arc Flash Service Upgrades</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>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.</p> | <p><b>Project ID:</b> W668<br/> <b>Start Date:</b> 7/07<br/> <b>End Date:</b> 6/23<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 357.4        | 175.0                    | 220.0        | 395.0        | 250.0                  | 500.0          | 500.0          | 0.0            | 1,645.0         | 2,500.0        | 4,502.4        |
| Tucson Water Operating Funds  | 259.7        | 0.0                      | 62.0         | 62.0         | 32.0                   | 58.0           | 82.0           | 600.0          | 834.0           | 0.0            | 1,093.7        |
| <b>Total</b>                  | <b>617.1</b> | <b>175.0</b>             | <b>282.0</b> | <b>457.0</b> | <b>282.0</b>           | <b>558.0</b>   | <b>582.0</b>   | <b>600.0</b>   | <b>2,479.0</b>  | <b>2,500.0</b> | <b>5,596.1</b> |

|   |   |
|---|---|
| <p><b>Augmentation Surge Protection Facility</b></p> <p><b>Description:</b><br/>Design and construct a new surge protection facility, install approximately 100 feet of 66-inch connection mains and install SCADA equipment.</p> <p><b>Justification:</b><br/>This facility will be constructed in conjunction with the Avra Valley Transmission Main.</p> | <p><b>Project ID:</b> W143<br/> <b>Start Date:</b> 7/17<br/> <b>End Date:</b> 6/19<br/> <b>Location:</b> County</p> |
|---|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 100.0          | 730.0          | 0.0            | 830.0           | 0.0          | 830.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 12.0           | 84.0           | 0.0            | 96.0            | 0.0          | 96.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>112.0</b>   | <b>814.0</b>   | <b>0.0</b>     | <b>926.0</b>    | <b>0.0</b>   | <b>926.0</b>  |

|   |   |
|---|---|
| <p><b>AV-020B/SA-013A Recovery Well Drilling</b></p> <p><b>Description:</b><br/>Design and drill water recovery wells AV-020B and SA-013A. Project scope provides for the drilling and constructing stainless steel casing to prevent corrosion.</p> <p><b>Justification:</b><br/>New wells are needed to meet demand, to replace wells or supplement well capacities, and to provide back-up system capacity. These wells will be drilled in Fiscal Year 2016.</p> | <p><b>Project ID:</b> W081<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 8/15<br/> <b>Location:</b> County</p> |
|---|---|

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 875.0          | 350.0                    | 0.0         | 350.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 350.0           | 0.0          | 1,225.0        |
| Tucson Water Operating Funds  | 150.0          | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 150.0          |
| <b>Total</b>                  | <b>1,025.0</b> | <b>350.0</b>             | <b>0.0</b>  | <b>350.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>350.0</b>    | <b>0.0</b>   | <b>1,375.0</b> |

| <b>Avra Valley Transmission Main Augmentation Phase I</b>   |              |                          |             |              |                        |                 |                 |                |                 | <b>Project ID:</b> W410          |                 |
|---|--------------|--------------------------|-------------|--------------|------------------------|-----------------|-----------------|----------------|-----------------|----------------------------------|-----------------|
| <b>Description:</b>   |              |                          |             |              |                        |                 |                 |                |                 | <b>Start Date:</b> 7/07          |                 |
| This project (phase one of a three phase project) will include design and construction of approximately seven miles of 64-inch transmission main from the Hayden-Udall Treatment Plant to an A-Zone drop. |              |                          |             |              |                        |                 |                 |                |                 | <b>End Date:</b> 6/19            |                 |
| <b>Justification:</b>   |              |                          |             |              |                        |                 |                 |                |                 | <b>Location:</b> City and County |                 |
| This project will provide redundant transmission main capacity for delivery of water to the central system and improve reliability.   |              |                          |             |              |                        |                 |                 |                |                 |                                  |                 |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                 |                 |                | Five Year Total | Future Years                     | Total Project   |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018  | Year 4 FY 2019  | Year 5 FY 2020 |                 |                                  |                 |
| Tucson Water Obligation Bonds   | 418.6        | 0.0                      | 0.0         | 0.0          | 65.0                   | 5,971.0         | 11,280.0        | 0.0            | 17,316.0        | 0.0                              | 17,734.6        |
| Tucson Water Operating Funds  | 179.1        | 0.0                      | 0.0         | 0.0          | 900.0                  | 6,629.0         | 1,804.0         | 0.0            | 9,333.0         | 0.0                              | 9,512.1         |
| <b>Total</b>  | <b>597.7</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>965.0</b>           | <b>12,600.0</b> | <b>13,084.0</b> | <b>0.0</b>     | <b>26,649.0</b> | <b>0.0</b>                       | <b>27,246.7</b> |

| <b>Avra Valley Transmission Main Augmentation Phase II</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W762          |                 |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|-----------------|
| <b>Description:</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/18          |                 |
| Design and construct 4.3 miles of 64-inch transmission main. This is phase two of a three-phase project.   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/21            |                 |
| <b>Justification:</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> City and County |                 |
| This transmission main will convey water to the B-Zone to A-Zone PRV station at Drexel Road and Calle Santa Cruz Lane, B-Zone at Bilby Road and Park Avenue and continue to the proposed Bilby Reservoir (W570). |             |                          |             |              |                        |                |                |                |                 |                                  |                 |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project   |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |                 |
| Tucson Water Obligation Bonds  | 0.4         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 1,400.0        | 90.0           | 1,490.0         | 8,900.0                          | 10,390.4        |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 112.0          | 9,752.0        | 9,864.0         | 0.0                              | 9,864.0         |
| <b>Total</b>   | <b>0.4</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>1,512.0</b> | <b>9,842.0</b> | <b>11,354.0</b> | <b>8,900.0</b>                   | <b>20,254.4</b> |

|  |  |  |  |  |  |  |  |  |  |                                  |  |
|--|--|--|--|--|--|--|--|--|--|----------------------------------|--|
| <b>Avra Valley Transmission Main Phase III</b>   |  |  |  |  |  |  |  |  |  | <b>Project ID:</b> W080          |  |
| <b>Description:</b><br>Design and construct 2.5 miles of 66-inch transmission main.  |  |  |  |  |  |  |  |  |  | <b>Start Date:</b> 7/19          |  |
| <b>Justification:</b><br>This project will convey water to the B-Zone from the end of phase two (at Bilby Road and Park Avenue) to the proposed Country Club Reservoir (W570). |  |  |  |  |  |  |  |  |  | <b>End Date:</b> 6/22            |  |
|  |  |  |  |  |  |  |  |  |  | <b>Location:</b> City and County |  |

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years    | Total Project   |
|------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
|                              |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                 |                 |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 1,116.0        | 1,116.0         | 11,190.0        | 12,306.0        |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>1,116.0</b> | <b>1,116.0</b>  | <b>11,190.0</b> | <b>12,306.0</b> |

|   |  |  |  |  |  |  |  |  |  |                                  |  |
|---|--|--|--|--|--|--|--|--|--|----------------------------------|--|
| <b>Bailey Sleeve Valve Replacement</b>  |  |  |  |  |  |  |  |  |  | <b>Project ID:</b> W856          |  |
| <b>Description:</b><br>Design and construct necessary piping modifications and replacements of Bailey Sleeve Valves at the high pressure reducing valve (PRV) stations (H1, H2, H3, and H4) on Tucson Water's CAP distribution system.                              |  |  |  |  |  |  |  |  |  | <b>Start Date:</b> 7/12          |  |
| <b>Justification:</b><br>These critical transfer valves have in excess of 30 years of service, and are demanding a significant amount of maintenance. Replacing and rebuilding these valves allow continued use of renewable CAP water in the central water system. |  |  |  |  |  |  |  |  |  | <b>End Date:</b> 6/16            |  |
|   |  |  |  |  |  |  |  |  |  | <b>Location:</b> City and County |  |

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 1,220.8        | 300.0                    | 603.0        | 903.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 903.0           | 0.0          | 2,123.8        |
| Tucson Water Operating Funds  | 319.2          | 0.0                      | 74.0         | 74.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 74.0            | 0.0          | 393.2          |
| <b>Total</b>                  | <b>1,540.0</b> | <b>300.0</b>             | <b>677.0</b> | <b>977.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>977.0</b>    | <b>0.0</b>   | <b>2,517.0</b> |

| <b>Bilby/Country Club Reservoir</b>  |                |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W570 |                 |
|--|----------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|-----------------|
| <b>Description:</b><br>Design and construct a new 20 million gallon reservoir and booster station as part of the Avra Valley Augmentation Program. |                |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/18 |                 |
|  |                |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/22   |                 |
| <b>Justification:</b><br>This program will provide redundancy of supply from the Clearwater Project.   |                |                          |             |              |                        |                |                |                |                 | <b>Location:</b> County |                 |
| Source of Funds Summary  | Prior Years    | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project   |
|  |                | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                 |
| Tucson Water Obligation Bonds  | 2,371.4        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 260.0          | 270.0          | 530.0           | 22,000.0                | 24,901.4        |
| Tucson Water Operating Funds   | 0.0            | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 30.0           | 30.0           | 60.0            | 0.0                     | 60.0            |
| <b>Total</b>   | <b>2,371.4</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>290.0</b>   | <b>300.0</b>   | <b>590.0</b>    | <b>22,000.0</b>         | <b>24,961.4</b> |

| <b>Calle Santa Cruz Transmission Main Replacement</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W151  |                |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------------------|----------------|
| <b>Description:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 10/14 |                |
|   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/17    |                |
| <b>Justification:</b><br>This replacement maintains existing water pressure in emergency situations.  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 1  |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years             | Total Project  |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                          |                |
| Tucson Water Obligation Bonds   | 0.0         | 0.0                      | 0.0         | 0.0          | 2,185.0                | 0.0            | 0.0            | 0.0            | 2,185.0         | 0.0                      | 2,185.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 56.0        | 56.0         | 240.0                  | 0.0            | 0.0            | 0.0            | 296.0           | 0.0                      | 296.0          |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>2,425.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,481.0</b>  | <b>0.0</b>               | <b>2,481.0</b> |

**Camino de Oeste Pressure Reducing Valve (PRV) at Thornydale**

**Description:**  
Design and construct an 8-inch PRV and create a ZA+ zone to alleviate low pressure fluctuations. This project will also install a 12-inch valve to serve as a zone boundary valve.

**Justification:**  
This will improve fire flow reliability for the Quail Run Elementary School.

**Project ID:** W862  
**Start Date:** 7/13  
**End Date:** 6/16  
**Location:** County

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 122.7        | 150.0                    | 0.0         | 150.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 150.0           | 0.0          | 272.7         |
| Tucson Water Operating Funds  | 21.7         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 21.7          |
| <b>Total</b>                  | <b>144.4</b> | <b>150.0</b>             | <b>0.0</b>  | <b>150.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>150.0</b>    | <b>0.0</b>   | <b>294.4</b>  |

**Cathodic Protection (CP) for Critical Pipelines**

**Description:**  
Design and construct cathodic protection 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's largest and most critical potable water pipelines.

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

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 603.0        | 603.0        | 603.0                  | 600.0          | 628.0          | 222.0          | 2,656.0         | 3,000.0        | 5,656.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 74.0         | 74.0         | 74.0                   | 70.0           | 70.0           | 498.0          | 786.0           | 0.0            | 786.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>677.0</b> | <b>677.0</b> | <b>677.0</b>           | <b>670.0</b>   | <b>698.0</b>   | <b>720.0</b>   | <b>3,442.0</b>  | <b>3,000.0</b> | <b>6,442.0</b> |

**Cavalier Estates Phase I**

**Description:**  
Design and install 3,600 feet of 8-inch pipe in Wilmot, Zuni Avenue, 31st, and 29th Street. This project will relocate 85 water meters from alleys into streets and replace four existing fire hydrants.

**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.

**Project ID:** W859  
**Start Date:** 7/16  
**End Date:** 6/18  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 2.8         | 0.0                      | 0.0         | 0.0          | 0.0                    | 360.0          | 0.0            | 0.0            | 360.0           | 0.0          | 362.8         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 56.0                   | 40.0           | 0.0            | 0.0            | 96.0            | 0.0          | 96.0          |
| <b>Total</b>                  | <b>2.8</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>56.0</b>            | <b>400.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>456.0</b>    | <b>0.0</b>   | <b>458.8</b>  |

**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 and improve operating efficiency and reliability.

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

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 443.0        | 443.0        | 600.0                  | 600.0          | 600.0          | 251.0          | 2,494.0         | 3,000.0        | 5,494.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 234.0        | 234.0        | 77.0                   | 70.0           | 98.0           | 469.0          | 948.0           | 0.0            | 948.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>677.0</b> | <b>677.0</b> | <b>677.0</b>           | <b>670.0</b>   | <b>698.0</b>   | <b>720.0</b>   | <b>3,442.0</b>  | <b>3,000.0</b> | <b>6,442.0</b> |

**Chlorine System Improvements**

**Description:**  
 Modifications to the chlorine feed system at the Reclaimed Treatment Plant are currently needed to ensure the system is in optimal operating condition. This project will provide budget capacity on an on-going basis to make similar improvements at other chlorine feed points throughout the reclaimed system.

**Justification:**  
 These improvements are necessary to ensure reliability of the system, and could result in a reduction in the amount of chemicals needed system-wide.

**Project ID:** W649  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** Ward 1

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 40.0        | 40.0         | 40.0                   | 40.0           | 40.0           | 40.0           | 200.0           | 250.0        | 450.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 16.0        | 16.0         | 16.0                   | 16.0           | 18.0           | 20.0           | 86.0            | 0.0          | 86.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>60.0</b>    | <b>286.0</b>    | <b>250.0</b> | <b>536.0</b>  |

**Clearwell Reservoir Rehabilitation**

**Description:**  
 Design and construct new interior shear walls, roof and interior lining. 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.

**Project ID:** W056  
**Start Date:** 7/14  
**End Date:** 6/20  
**Location:** County

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Tucson Water Obligation Bonds | 123.7        | 0.0                      | 0.0         | 0.0          | 100.0                  | 300.0          | 300.0          | 10.0           | 710.0           | 0.0          | 833.7           |
| Tucson Water Operating Funds  | 7.8          | 0.0                      | 11.0        | 11.0         | 13.0                   | 6,398.0        | 5,517.0        | 110.0          | 12,049.0        | 0.0          | 12,056.8        |
| <b>Total</b>                  | <b>131.5</b> | <b>0.0</b>               | <b>11.0</b> | <b>11.0</b>  | <b>113.0</b>           | <b>6,698.0</b> | <b>5,817.0</b> | <b>120.0</b>   | <b>12,759.0</b> | <b>0.0</b>   | <b>12,890.5</b> |

| <b>Cocio Road Main Replacement Phase I</b>   |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W070 |                |
|--|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and install 7,550 feet of 6-inch pipe in Cocio Road between Silverbell Road and Trico-Marana Road, and in El Cerrito Lane, Cocoraque Lane, Waterman Lane, Redrock Lane, Quemado Lane, and Wolcott Lane west of Cocio Road. |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |                |
|  |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
| <b>Justification:</b><br>This area has experienced numerous main breaks and customer outages.  |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> County |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Tucson Water Obligation Bonds  | 858.5        | 100.0                    | 0.0         | 100.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 100.0           | 0.0                     | 958.5          |
| Tucson Water Operating Funds   | 88.5         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 88.5           |
| <b>Total</b>   | <b>947.0</b> | <b>100.0</b>             | <b>0.0</b>  | <b>100.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>100.0</b>    | <b>0.0</b>              | <b>1,047.0</b> |

| <b>Cocio Road Main Replacement Phase II</b>   |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W076 |               |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 6,200 feet of 6-inch pipe, valves, and pavement replacement in El Cerrito Lane, Cocoraque Lane, Waterman Lane, Redrock Lane, Quemado Lane, and Wolcott Lane east of Cocio Road between Silverbell Road and Trico-Marana Road. |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/14 |               |
|   |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
| <b>Justification:</b><br>This area has experienced numerous main breaks and customer outages.   |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> County |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds   | 135.0        | 200.0                    | 304.0        | 504.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 504.0           | 0.0                     | 639.0         |
| Tucson Water Operating Funds  | 150.0        | 0.0                      | 35.0         | 35.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 35.0            | 0.0                     | 185.0         |
| <b>Total</b>  | <b>285.0</b> | <b>200.0</b>             | <b>339.0</b> | <b>539.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>539.0</b>    | <b>0.0</b>              | <b>824.0</b>  |

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| <p><b>Control Panel Replacements: Potable</b></p> <p><b>Description:</b><br/>Install new control panels and electronic equipment at existing production facilities such as wells, boosters, reservoirs, and pressure reducing valve facilities.</p> <p><b>Justification:</b><br/>The existing control panels are approaching the end of their service life and need to be replaced to ensure system reliability.</p> | <p><b>Project ID:</b> W045<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 100.0        | 100.0        | 100.0                  | 100.0          | 100.0          | 100.0          | 500.0           | 500.0        | 1,000.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 13.0         | 13.0         | 13.0                   | 12.0           | 16.0           | 20.0           | 74.0            | 0.0          | 74.0           |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>113.0</b>           | <b>112.0</b>   | <b>116.0</b>   | <b>120.0</b>   | <b>574.0</b>    | <b>500.0</b> | <b>1,074.0</b> |

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| <p><b>Control Panels: Reclaimed System</b></p> <p><b>Description:</b><br/>Design and construct controls for reclaimed water facilities, and modify existing controls at booster stations, reservoirs, and storage facilities.</p> <p><b>Justification:</b><br/>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.</p> | <p><b>Project ID:</b> W959<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 251.0        | 251.0        | 251.0                  | 249.0          | 261.0          | 270.0          | 1,282.0         | 1,250.0        | 2,532.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 31.0         | 31.0         | 31.0                   | 30.0           | 30.0           | 30.0           | 152.0           | 0.0            | 152.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>282.0</b> | <b>282.0</b> | <b>282.0</b>           | <b>279.0</b>   | <b>291.0</b>   | <b>300.0</b>   | <b>1,434.0</b>  | <b>1,250.0</b> | <b>2,684.0</b> |

**Country Club C-Zone Augmentation Transmission Main**

**Description:**  
Design and construct approximately 4.5 miles of 54-inch transmission main from the future Bilby C-Zone Reservoir and Booster Station to the Tech Drive PRV Station.

**Justification:**  
The new main will deliver renewable water to the C-Zone. This main is parallel to an existing 48-inch main and will provide redundant transmission capacity.

**Project ID:** W067  
**Start Date:** 7/14  
**End Date:** 6/18  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Tucson Water Obligation Bonds | 6.3         | 0.0                      | 326.0        | 326.0        | 5,731.0                | 7,460.0        | 0.0            | 0.0            | 13,517.0        | 0.0          | 13,523.3        |
| Tucson Water Operating Funds  | 6.0         | 0.0                      | 17.0         | 17.0         | 3,291.0                | 801.0          | 0.0            | 0.0            | 4,109.0         | 0.0          | 4,115.0         |
| <b>Total</b>                  | <b>12.3</b> | <b>0.0</b>               | <b>343.0</b> | <b>343.0</b> | <b>9,022.0</b>         | <b>8,261.0</b> | <b>0.0</b>     | <b>0.0</b>     | <b>17,626.0</b> | <b>0.0</b>   | <b>17,638.3</b> |

**Craycroft Addition Subdivision, Phase I**

**Description:**  
Design and install 11,900 feet of 6-inch pipe in the Craycroft Addition Subdivision Phase I, bordered by 23rd Street, 30th Street, Van Buren and Sahuara Avenue. This project will also relocate 46 water meters from alleys to the street and replace 14 existing fire hydrants.

**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.

**Project ID:** W793  
**Start Date:** 7/14  
**End Date:** 6/16  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 48.6         | 1,280.0                  | 0.0         | 1,280.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,280.0         | 0.0          | 1,328.6        |
| Tucson Water Operating Funds  | 73.9         | 0.0                      | 0.0         | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 73.9           |
| <b>Total</b>                  | <b>122.5</b> | <b>1,280.0</b>           | <b>0.0</b>  | <b>1,280.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,280.0</b>  | <b>0.0</b>   | <b>1,402.5</b> |

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| <p><b>Developer-Financed Reclaimed Systems</b></p> <p><b>Description:</b><br/>Review plans and inspect developer constructed reclaimed water systems. These systems are donated to the City upon completion. Associated costs are recovered from developer fees.</p> <p><b>Justification:</b><br/>The review and inspection ensure compliance with Tucson Water's standards.</p> | <p><b>Project ID:</b> W130<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                              |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 68.0        | 68.0         | 68.0                   | 67.0           | 70.0           | 72.0           | 345.0           | 300.0        | 645.0         |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>68.0</b> | <b>68.0</b>  | <b>68.0</b>            | <b>67.0</b>    | <b>70.0</b>    | <b>72.0</b>    | <b>345.0</b>    | <b>300.0</b> | <b>645.0</b>  |

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| <p><b>Disinfection Equipment Upgrades</b></p> <p><b>Description:</b><br/>Upgrade disinfection equipment at reservoirs and wells.</p> <p><b>Justification:</b><br/>As disinfection equipment becomes deteriorated or obsolete, it must be replaced to ensure operational reliability and maintain water quality.</p> | <p><b>Project ID:</b> W221<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 120.0        | 120.0        | 120.0                  | 119.0          | 125.0          | 129.0          | 613.0           | 600.0        | 1,213.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 15.0         | 15.0         | 15.0                   | 15.0           | 15.0           | 15.0           | 75.0            | 0.0          | 75.0           |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>135.0</b> | <b>135.0</b> | <b>135.0</b>           | <b>134.0</b>   | <b>140.0</b>   | <b>144.0</b>   | <b>688.0</b>    | <b>600.0</b> | <b>1,288.0</b> |

**Drexel Phase 1 Pressure Reducing Valve**

**Description:**

Design and construct a new 8-inch Pressure Reducing Valve, install approximately 100 feet of 12-inch connection mains and install SCADA equipment.

**Justification:**

This facility will be constructed in conjunction with the Avra Valley Transmission Main.

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|--------------------|--------|
| <b>Project ID:</b> | W144   |
| <b>Start Date:</b> | 7/18   |
| <b>End Date:</b>   | 6/19   |
| <b>Location:</b>   | Ward 1 |

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 150.0          | 0.0            | 150.0           | 0.0          | 150.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 25.0           | 0.0            | 25.0            | 0.0          | 25.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>175.0</b>   | <b>0.0</b>     | <b>175.0</b>    | <b>0.0</b>   | <b>175.0</b>  |

**Effluent Pump Station Expansion**

**Description:**

This project expands the existing Tertiary / Secondary Effluent Pumping Station (T/SEPS) wetwell at Roger Road to match the filtration system upgrade (W774).

**Justification:**

Pumping capacity will be increased, a new pipeline will deliver the increased flow to the existing chlorine contact basin, and a secondary gravity pipeline will be added from the basin to the existing reclaimed reservoir to reduce the likelihood of basin overflow.

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|--------------------|--------|
| <b>Project ID:</b> | W049   |
| <b>Start Date:</b> | 7/13   |
| <b>End Date:</b>   | 6/16   |
| <b>Location:</b>   | Ward 1 |

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 50.0        | 0.0                      | 1,557.0        | 1,557.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,557.0         | 0.0          | 1,607.0        |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 192.0          | 192.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 192.0           | 0.0          | 197.0          |
| <b>Total</b>                  | <b>55.0</b> | <b>0.0</b>               | <b>1,749.0</b> | <b>1,749.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,749.0</b>  | <b>0.0</b>   | <b>1,804.0</b> |

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| <p><b>Emergency Main Replacement</b></p> <p><b>Description:</b><br/>Replace approximately 3,000 feet of 2-inch, 4-inch, and 6-inch new mains on an as-needed, emergency basis.</p> <p><b>Justification:</b><br/>Immediate response to requests for emergency main replacements is required to reduce water loss, ensure system reliability, and maintain water quality.</p> | <p><b>Project ID:</b> W186<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 201.0        | 201.0        | 200.0                  | 200.0          | 200.0          | 200.0          | 1,001.0         | 1,000.0        | 2,001.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 25.0         | 25.0         | 26.0                   | 23.0           | 33.0           | 40.0           | 147.0           | 0.0            | 147.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>226.0</b> | <b>226.0</b> | <b>226.0</b>           | <b>223.0</b>   | <b>233.0</b>   | <b>240.0</b>   | <b>1,148.0</b>  | <b>1,000.0</b> | <b>2,148.0</b> |

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| <p><b>Equip Reclaimed Well EW-009A</b></p> <p><b>Description:</b><br/>Install pumping control equipment and discharge piping to recover recharged effluent water and increase the capacity of the reclaimed system.</p> <p><b>Justification:</b><br/>This extraction well will extract recharged reclaimed water from recharge basins 9, 10, and 11 and will be a supply source for the existing Tucson Water reclaimed water system.</p> | <p><b>Project ID:</b> W700<br/> <b>Start Date:</b> 7/12<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.3         | 0.0                      | 450.0        | 450.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 450.0           | 0.0          | 450.3         |
| Tucson Water Operating Funds  | 5.7         | 0.0                      | 58.0         | 58.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 58.0            | 0.0          | 63.7          |
| <b>Total</b>                  | <b>6.0</b>  | <b>0.0</b>               | <b>508.0</b> | <b>508.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>508.0</b>    | <b>0.0</b>   | <b>514.0</b>  |

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| <p><b>Equip Well A-061</b></p> <p><b>Description:</b><br/>Design and equip Well A-061. Equipping of wells is necessary to put a newly drilled well into service.</p> <p><b>Justification:</b><br/>Well A-061 is needed to supplement water supply in the northwest portion of Tucson Water's system.</p> | <p><b>Project ID:</b> W061<br/> <b>Start Date:</b> 7/16<br/> <b>End Date:</b> 6/18<br/> <b>Location:</b> County</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 51.0                   | 300.0          | 0.0            | 0.0            | <b>351.0</b>    | 0.0          | <b>351.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 5.0                    | 91.0           | 0.0            | 0.0            | <b>96.0</b>     | 0.0          | <b>96.0</b>   |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>56.0</b>            | <b>391.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>447.0</b>    | <b>0.0</b>   | <b>447.0</b>  |

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| <p><b>Equip Well W-006</b></p> <p><b>Description:</b><br/>Design and equip Well W-006. The existing water column (WC) service area is an isolated system and is supplied by only one well, W-001.</p> <p><b>Justification:</b><br/>This new well would provide a level of redundancy in the event of failure or maintenance requirements of Well W-001.</p> | <p><b>Project ID:</b> W062<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> County</p> |
|---|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 70.0        | 70.0                     | 300.0        | <b>370.0</b> | 0.0                    | 0.0            | 0.0            | 0.0            | <b>370.0</b>    | 0.0          | <b>440.0</b>  |
| Tucson Water Operating Funds  | 10.0        | 0.0                      | 39.0         | <b>39.0</b>  | 0.0                    | 0.0            | 0.0            | 0.0            | <b>39.0</b>     | 0.0          | <b>49.0</b>   |
| <b>Total</b>                  | <b>80.0</b> | <b>70.0</b>              | <b>339.0</b> | <b>409.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>409.0</b>    | <b>0.0</b>   | <b>489.0</b>  |

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| <p><b>Escalante Reservoir</b></p> <p><b>Description:</b><br/>Design and construct improvements as developed through the condition assessment to bring this reservoir up to current standards.</p> <p><b>Justification:</b><br/>This project must be completed to continue to provide long-term reliability and prevent water loss.</p> | <p><b>Project ID:</b> W051<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/20<br/> <b>Location:</b> County</p> |
|--|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 5.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 160.0          | 680.0          | <b>840.0</b>    | 0.0          | <b>845.0</b>  |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 11.0        | <b>11.0</b>  | 11.0                   | 11.0           | 15.0           | 100.0          | <b>148.0</b>    | 0.0          | <b>153.0</b>  |
| <b>Total</b>                  | <b>10.0</b> | <b>0.0</b>               | <b>11.0</b> | <b>11.0</b>  | <b>11.0</b>            | <b>11.0</b>    | <b>175.0</b>   | <b>780.0</b>   | <b>988.0</b>    | <b>0.0</b>   | <b>998.0</b>  |

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| <p><b>Extensions for New Services</b></p> <p><b>Description:</b><br/>Design and install minor extensions from the distribution system as requested by customers. Associated costs are reimbursed by the customer.</p> <p><b>Justification:</b><br/>Extensions allow Tucson Water to install (or upgrade piping in order to install) new services in an expedient manner. This project ensures that piping is suitable in strength and durability and is available to connect to the distribution system.</p> | <p><b>Project ID:</b> W107<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                              |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 113.0        | <b>113.0</b> | 113.0                  | 112.0          | 116.0          | 120.0          | <b>574.0</b>    | 500.0        | <b>1,074.0</b> |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>113.0</b>           | <b>112.0</b>   | <b>116.0</b>   | <b>120.0</b>   | <b>574.0</b>    | <b>500.0</b> | <b>1,074.0</b> |

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| <p><b>Facility Safety and Security Infrastructure</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>This long-range project will provide security for approximately 794 parcels owned by Tucson Water.</p> | <p><b>Project ID:</b> W381<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 1,000.0        | <b>1,000.0</b> | 1,000.0                | 1,000.0        | 1,000.0        | 1,080.0        | <b>5,080.0</b>  | 5,000.0        | <b>10,080.0</b> |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 128.0          | <b>128.0</b>   | 128.0                  | 116.0          | 163.0          | 120.0          | <b>655.0</b>    | 0.0            | <b>655.0</b>    |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>1,128.0</b> | <b>1,128.0</b> | <b>1,128.0</b>         | <b>1,116.0</b> | <b>1,163.0</b> | <b>1,200.0</b> | <b>5,735.0</b>  | <b>5,000.0</b> | <b>10,735.0</b> |

|   |   |
|---|---|
| <p><b>Fifth Street Distribution Main</b></p> <p><b>Description:</b><br/>Design and install approximately 250 feet of 8-inch pipe in 5th Street connecting an existing 20-inch main with an existing 6-inch main.</p> <p><b>Justification:</b><br/>This distribution main is for redundancy and fire flow.</p> | <p><b>Project ID:</b> W150<br/> <b>Start Date:</b> 7/15<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> Ward 4</p> |
|---|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 131.0        | <b>131.0</b> | 0.0                    | 0.0            | 0.0            | 0.0            | <b>131.0</b>    | 0.0          | <b>131.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 10.0         | <b>10.0</b>  | 0.0                    | 0.0            | 0.0            | 0.0            | <b>10.0</b>     | 0.0          | <b>10.0</b>   |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>141.0</b> | <b>141.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>141.0</b>    | <b>0.0</b>   | <b>141.0</b>  |

**Filtration Modifications at Reclaimed Plant**

**Description:**  
 Filters must be expanded for the reclaimed water plant at Roger Road because Pima County has permitted its new "Agua Nueva" wastewater treatment plant as a B+ facility. The existing filter plant will be reconfigured to increase the capacity from 10 mgd to 15 mgd with provision for eventual expansion to 20 MGD.

**Justification:**  
 This will provide additional reliability for the reclaimed plant. Needed programming upgrades will be coordinated with ongoing SCADA work, and the wetwell will be expanded as a separate project (W049)

**Project ID:** W774  
**Start Date:** 7/13  
**End Date:** 6/16  
**Location:** Ward 1

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 385.2        | 2,100.0                  | 4,017.0        | 6,117.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 6,117.0         | 0.0          | 6,502.2        |
| Tucson Water Operating Funds  | 201.3        | 0.0                      | 496.0          | 496.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 496.0           | 0.0          | 697.3          |
| <b>Total</b>                  | <b>586.5</b> | <b>2,100.0</b>           | <b>4,513.0</b> | <b>6,613.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>6,613.0</b>  | <b>0.0</b>   | <b>7,199.5</b> |

**Fire Services**

**Description:**  
 Design and install fire hydrants and fire sprinkler service connections in areas needed upon customer request and payment of connection fees.

**Justification:**  
 This project is required to provide for the installation of new fire hydrants and fire services to customers upon request.

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

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years    | Total Project   |
|------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
|                              |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                 |                 |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 2,144.0        | 2,144.0        | 2,143.0                | 2,233.0        | 2,327.0        | 2,400.0        | 11,247.0        | 10,000.0        | 21,247.0        |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>2,144.0</b> | <b>2,144.0</b> | <b>2,143.0</b>         | <b>2,233.0</b> | <b>2,327.0</b> | <b>2,400.0</b> | <b>11,247.0</b> | <b>10,000.0</b> | <b>21,247.0</b> |

| <b>Gas Engines</b>   |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W140          |                |
|--|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|----------------|
| <b>Description:</b><br>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 hour life span.   |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/14          |                |
| <b>Justification:</b><br>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. |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/20            |                |
|  |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> City and County |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project  |
|  |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |                |
| Tucson Water Obligation Bonds  | 750.0        | 0.0                      | 800.0        | 800.0        | 800.0                  | 800.0          | 800.0          | 800.0          | 4,000.0         | 0.0                              | 4,750.0        |
| Tucson Water Operating Funds   | 70.0         | 0.0                      | 46.0         | 46.0         | 46.0                   | 37.0           | 73.0           | 100.0          | 302.0           | 0.0                              | 372.0          |
| <b>Total</b>   | <b>820.0</b> | <b>0.0</b>               | <b>846.0</b> | <b>846.0</b> | <b>846.0</b>           | <b>837.0</b>   | <b>873.0</b>   | <b>900.0</b>   | <b>4,302.0</b>  | <b>0.0</b>                       | <b>5,122.0</b> |

| <b>Golf Links Main Replacement Phase II</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W849 |               |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 1,600 feet of 8-inch pipe in 33rd, 34th Streets, Calle Silvosa, Sahuara and Zuni Avenue. This project will relocate 70 water meters from alleys into streets.   |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/14 |               |
| <b>Justification:</b><br>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. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds   | 0.0         | 30.0                     | 330.0        | 360.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 360.0           | 0.0                     | 360.0         |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 58.0         | 58.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 58.0            | 0.0                     | 63.0          |
| <b>Total</b>  | <b>5.0</b>  | <b>30.0</b>              | <b>388.0</b> | <b>418.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>418.0</b>    | <b>0.0</b>              | <b>423.0</b>  |

**Golf Links Phase V**

**Description:**  
Design and install 8,550 feet of 8-inch pipe in Golf Links, Wilmot, Zuni Avenue and 32nd Street. This project will relocate 131 water meters from alleys into streets and replace two existing fire hydrants.

**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.

**Project ID:** W858  
**Start Date:** 7/15  
**End Date:** 6/17  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 50.0        | 50.0         | 500.0                  | 0.0            | 0.0            | 0.0            | 550.0           | 0.0          | 550.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 6.0         | 6.0          | 64.0                   | 0.0            | 0.0            | 0.0            | 70.0            | 0.0          | 70.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>564.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>620.0</b>    | <b>0.0</b>   | <b>620.0</b>  |

**Hayden-Udall Prime Reservoir and Booster Upgrade**

**Description:**  
Design and construct a new reservoir and booster station at the Hayden-Udall Water Treatment Plant to allow for redundant ability to move Clearwater source water into the central distribution system when the Snyder Hill Pump Station (SHPS) is not available. The current supply is provided through a single point, which includes the Hayden-Udall Plant, Snyder Hill Pump Station, and Clearwell Reservoir.

**Justification:**  
A failure of any portion of this system will result in the loss of the complete Clearwater supply.

**Project ID:** W795  
**Start Date:** 7/12  
**End Date:** 6/19  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Tucson Water Obligation Bonds | 27.5        | 0.0                      | 0.0         | 0.0          | 500.0                  | 8,000.0        | 5,000.0        | 0.0            | 13,500.0        | 0.0          | 13,527.5        |
| Tucson Water Operating Funds  | 15.6        | 0.0                      | 0.0         | 0.0          | 64.0                   | 1,489.0        | 654.0          | 0.0            | 2,207.0         | 0.0          | 2,222.6         |
| <b>Total</b>                  | <b>43.1</b> | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>564.0</b>           | <b>9,489.0</b> | <b>5,654.0</b> | <b>0.0</b>     | <b>15,707.0</b> | <b>0.0</b>   | <b>15,750.1</b> |

| <b>Houghton Road Reclaimed Reservoir</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W135 |                |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and construct solutions to increase site security, redesign the reservoir roof for water-tightness, and add a new roof and structural upgrades. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/14 |                |
| <b>Justification:</b><br>Site work will be performed to address access road repairs and general site renewal.   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/18   |                |
|   |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> County |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Tucson Water Obligation Bonds   | 5.0         | 0.0                      | 0.0         | 0.0          | 2,539.0                | 0.0            | 0.0            | 0.0            | 2,539.0         | 0.0                     | 2,544.0        |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 56.0        | 56.0         | 280.0                  | 28.0           | 0.0            | 0.0            | 364.0           | 0.0                     | 369.0          |
| <b>Total</b>  | <b>10.0</b> | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>2,819.0</b>         | <b>28.0</b>    | <b>0.0</b>     | <b>0.0</b>     | <b>2,903.0</b>  | <b>0.0</b>              | <b>2,913.0</b> |

| <b>La Entrada Electrical Service Modernization</b>  |                |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W800 |                |
|---|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>This project will include a new electrical service entrance as well as other work to ensure National Electrical Code (NEC) and building code compliance. |                |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/11 |                |
| <b>Justification:</b><br>Following a building assessment it was determined that several structural and electrical modifications were needed.                                    |                |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/17   |                |
|   |                |                          |              |              |                        |                |                |                |                 | <b>Location:</b> Ward 1 |                |
| Source of Funds Summary   | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|   |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Tucson Water Obligation Bonds   | 1,179.9        | 0.0                      | 302.0        | 302.0        | 230.0                  | 0.0            | 0.0            | 0.0            | 532.0           | 0.0                     | 1,711.9        |
| Tucson Water Operating Funds  | 137.1          | 0.0                      | 37.0         | 37.0         | 32.0                   | 0.0            | 0.0            | 0.0            | 69.0            | 0.0                     | 206.1          |
| <b>Total</b>  | <b>1,317.0</b> | <b>0.0</b>               | <b>339.0</b> | <b>339.0</b> | <b>262.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>601.0</b>    | <b>0.0</b>              | <b>1,918.0</b> |

| <b>Line Replacement - 3/4"</b>  |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> WR14          |                |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|----------------|
| <b>Description:</b><br>Install replacement service lines as needed system-wide, on an annual basis.   |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> Annual        |                |
| <b>Justification:</b><br>These lines, primarily galvanized steel or High Density Polyethylene (HDPE), are replaced by new copper service lines as needed. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> Annual          |                |
|   |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> City and County |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project  |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |                |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 677.0        | 677.0        | 677.0                  | 670.0          | 698.0          | 720.0          | 3,442.0         | 3,000.0                          | 6,442.0        |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>677.0</b> | <b>677.0</b> | <b>677.0</b>           | <b>670.0</b>   | <b>698.0</b>   | <b>720.0</b>   | <b>3,442.0</b>  | <b>3,000.0</b>                   | <b>6,442.0</b> |

| <b>Manzanita Tank Lining</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W054 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct a new liner at the Manzanita steel tank.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/20   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> County |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 680.0          | 680.0           | 0.0                     | 680.0         |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 11.0                   | 11.0           | 35.0           | 100.0          | 157.0           | 0.0                     | 157.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>11.0</b>            | <b>11.0</b>    | <b>35.0</b>    | <b>780.0</b>   | <b>837.0</b>    | <b>0.0</b>              | <b>837.0</b>  |

| <b>Maryvale Manor Subdivision, Phase I</b>  |              |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W791 |               |
|---|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 4,100 feet of 6-inch pipe in the Maryvale Manor Subdivision bordered by 32nd Street, 36th Street, Van Buren and Jefferson Avenue. This project will also relocate 92 water meters from alleys into streets and replace 12 existing fire hydrants.                           |              |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/12 |               |
|   |              |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
| <b>Justification:</b><br>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 1950's and 1960's and has reached the end of its useful life. |              |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|   |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds   | 35.2         | 550.0                    | 0.0         | 550.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 550.0           | 0.0                     | 585.2         |
| Tucson Water Operating Funds  | 402.5        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 402.5         |
| <b>Total</b>  | <b>437.7</b> | <b>550.0</b>             | <b>0.0</b>  | <b>550.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>550.0</b>    | <b>0.0</b>              | <b>987.7</b>  |

| <b>Maryvale Manor Subdivision, Phase II</b>   |             |                          |             |                |                        |                |                |                |                 | <b>Project ID:</b> W792 |                |
|---|-------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and install approximately 8,800 feet of 6-inch pipe in the Maryvale Manor Subdivision bordered by Calle Aurora, Sahuara Avenue, Van Buren and Calle Silvosa. This project will also relocate 150 water meters from alleys into streets and replace 10 existing fire hydrants.         |             |                          |             |                |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |                |
|   |             |                          |             |                |                        |                |                |                |                 | <b>End Date:</b> 6/16   |                |
| <b>Justification:</b><br>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. |             |                          |             |                |                        |                |                |                |                 | <b>Location:</b> Ward 4 |                |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|   |             | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Tucson Water Obligation Bonds   | 0.7         | 1,180.0                  | 0.0         | 1,180.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,180.0         | 0.0                     | 1,180.7        |
| Tucson Water Operating Funds  | 40.0        | 0.0                      | 0.0         | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                     | 40.0           |
| <b>Total</b>  | <b>40.7</b> | <b>1,180.0</b>           | <b>0.0</b>  | <b>1,180.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,180.0</b>  | <b>0.0</b>              | <b>1,220.7</b> |

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| <p><b>Meter Upgrade and Replacement Program</b></p> <p><b>Description:</b><br/>Upgrade and install replacement meters system-wide on an annual basis.</p> <p><b>Justification:</b><br/>Older meters become inefficient and tend to under-read water usage, and affect compliance with water loss regulations.</p> | <p><b>Project ID:</b> W435<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project   |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|-----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0            | <b>0.0</b>     | 3,600.0                | 3,000.0        | 3,100.0        | 100.0          | <b>9,800.0</b>  | 0.0          | <b>9,800.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 5,105.0        | <b>5,105.0</b> | 3,193.0                | 3,725.0        | 3,764.0        | 4,581.0        | <b>20,368.0</b> | 0.0          | <b>20,368.0</b> |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>5,105.0</b> | <b>5,105.0</b> | <b>6,793.0</b>         | <b>6,725.0</b> | <b>6,864.0</b> | <b>4,681.0</b> | <b>30,168.0</b> | <b>0.0</b>   | <b>30,168.0</b> |

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| <p><b>Miscellaneous Land and Right-of-Way Acquisitions</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>This project saves public money by determining the suitability of particular sites or routes prior to investing money in place-based design.</p> | <p><b>Project ID:</b> W126<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                              |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 11.0        | <b>11.0</b>  | 11.0                   | 11.0           | 12.0           | 12.0           | <b>57.0</b>     | 50.0         | <b>107.0</b>  |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>11.0</b> | <b>11.0</b>  | <b>11.0</b>            | <b>11.0</b>    | <b>12.0</b>    | <b>12.0</b>    | <b>57.0</b>     | <b>50.0</b>  | <b>107.0</b>  |

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| <p><b>Monitor Wells</b></p> <p><b>Description:</b><br/>Acquire sites, design, and drill monitor wells.</p> <p><b>Justification:</b><br/>Monitor wells are needed for periodic sampling of the potable water supply and verification of groundwater table elevations.</p> | <p><b>Project ID:</b> W703<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 110.3        | 0.0                      | 100.0        | 100.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 100.0           | 0.0          | 210.3         |
| Tucson Water Operating Funds  | 224.4        | 0.0                      | 13.0         | 13.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 13.0            | 0.0          | 237.4         |
| <b>Total</b>                  | <b>334.7</b> | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>113.0</b>    | <b>0.0</b>   | <b>447.7</b>  |

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| <p><b>New Metered Services</b></p> <p><b>Description:</b><br/>Install new metered reclaimed water services upon customer request and payment of connection fees.</p> <p><b>Justification:</b><br/>This project allows for the installation of new metered reclaimed water services upon customer request.</p> | <p><b>Project ID:</b> W131<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                              |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 56.0        | 56.0         | 56.0                   | 56.0           | 58.0           | 60.0           | 286.0           | 250.0        | 536.0         |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>60.0</b>    | <b>286.0</b>    | <b>250.0</b> | <b>536.0</b>  |

**Northgate Subdivision, Phase I**

**Description:**  
Design and install approximately 8,000 feet of 6-inch pipe in the Northgate subdivision bordered by 22nd Street, Van Buren Ave., 25th Street and Craycroft Rd. This project will also relocate 124 water meters from alleys into streets and replace eight existing fire hydrants.

**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.

**Project ID:** W789  
**Start Date:** 7/11  
**End Date:** 10/16  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 331.3        | 750.0                    | 0.0         | 750.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 750.0           | 0.0          | 1,081.3        |
| Tucson Water Operating Funds  | 141.5        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 141.5          |
| <b>Total</b>                  | <b>472.8</b> | <b>750.0</b>             | <b>0.0</b>  | <b>750.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>750.0</b>    | <b>0.0</b>   | <b>1,222.8</b> |

**Northgate Subdivision, Phase II**

**Description:**  
Design and install approximately 12,900 feet of 6-inch pipe in the Northgate Subdivision bordered by Craycroft Road, 26th Street, 32nd Street, and Van Buren. This project will also relocate 73 water meters from alleys into streets and replace 14 existing fire hydrants.

**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.

**Project ID:** W790  
**Start Date:** 7/11  
**End Date:** 6/16  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 248.9        | 350.0                    | 0.0         | 350.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 350.0           | 0.0          | 598.9          |
| Tucson Water Operating Funds  | 500.4        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 500.4          |
| <b>Total</b>                  | <b>749.3</b> | <b>350.0</b>             | <b>0.0</b>  | <b>350.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>350.0</b>    | <b>0.0</b>   | <b>1,099.3</b> |

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| <p><b>On-Call Valve Replacement Program</b></p> <p><b>Description:</b><br/>Replace broken or inoperable water valves.</p> <p><b>Justification:</b><br/>This replacement program reduces the number of unplanned water interruptions to customers, improves water quality, and contributes to a more reliable system.</p> | <p><b>Project ID:</b> W283<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0          | <b>0.0</b>   | 0.0                    | 0.0            | 0.0            | 0.0            | <b>0.0</b>      | 0.0            | <b>0.0</b>     |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 903.0        | <b>903.0</b> | 902.0                  | 893.0          | 931.0          | 960.0          | <b>4,589.0</b>  | 2,000.0        | <b>6,589.0</b> |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>903.0</b> | <b>903.0</b> | <b>902.0</b>           | <b>893.0</b>   | <b>931.0</b>   | <b>960.0</b>   | <b>4,589.0</b>  | <b>2,000.0</b> | <b>6,589.0</b> |

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| <p><b>Park Avenue B-Zone Augmentation Main</b></p> <p><b>Description:</b><br/>Design and construct approximately 4 miles of transmission main pipe to convey B-Zone water from the Avra Valley Augmentation Main at Bilby Road to the 24th Street pressure release valve (PRV) along Park Ave.</p> <p><b>Justification:</b><br/>The main is required to provide a redundant source of supply to B-Zone water in the event the 96-inch SHPS / Clearwell system fails.</p> | <p><b>Project ID:</b> W068<br/> <b>Start Date:</b> 7/18<br/> <b>End Date:</b> 6/21<br/> <b>Location:</b> Ward 5</p> |
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| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 800.0          | 200.0          | <b>1,000.0</b>  | 4,600.0        | <b>5,600.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 73.0           | 5,321.0        | <b>5,394.0</b>  | 0.0            | <b>5,394.0</b>  |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>873.0</b>   | <b>5,521.0</b> | <b>6,394.0</b>  | <b>4,600.0</b> | <b>10,994.0</b> |

**Payments to Developers for Oversized Systems**

**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.

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

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                              |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 113.0        | 113.0        | 113.0                  | 112.0          | 116.0          | 120.0          | 574.0           | 500.0        | 1,074.0        |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>113.0</b>           | <b>112.0</b>   | <b>116.0</b>   | <b>120.0</b>   | <b>574.0</b>    | <b>500.0</b> | <b>1,074.0</b> |

**Pipeline Protection: Acoustic Monitoring**

**Description:**  
Install hydrophones to acoustically monitor critical pipelines that are pre-stressed concrete cylinder pipes wrapped with high tensile pre-stressed steel wire. Wire slips or breaks will be recorded and communicated to the existing pipeline monitoring system by computer and cellular phone.

**Justification:**  
These hydrophones will monitor wire degradation in distressed pipe segments of the water distribution system, and facilitate timely intervention to prevent pipe failures.

**Project ID:** W506  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 201.0        | 201.0        | 201.0                  | 198.0          | 208.0          | 215.0          | 1,023.0         | 1,000.0        | 2,023.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 25.0         | 25.0         | 25.0                   | 25.0           | 25.0           | 25.0           | 125.0           | 0.0            | 125.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>226.0</b> | <b>226.0</b> | <b>226.0</b>           | <b>223.0</b>   | <b>233.0</b>   | <b>240.0</b>   | <b>1,148.0</b>  | <b>1,000.0</b> | <b>2,148.0</b> |

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| <p><b>Plant 2 Relocation</b></p> <p><b>Description:</b><br/>Design and construct buildings, storage, and parking for a new facility in the undeveloped area at Hayden Udall.</p> <p><b>Justification:</b><br/>The proposed sale of City of Tucson property at the current home of Water's Property Management &amp; Well Maintenance Sections will result in the relocation of these Maintenance Division work groups to another site.</p> | <p><b>Project ID:</b> W137<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/17<br/> <b>Location:</b> County</p> |
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| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 240.0        | 0.0                      | 0.0            | 0.0            | 149.0                  | 0.0            | 0.0            | 0.0            | 149.0           | 0.0          | 389.0          |
| Tucson Water Operating Funds  | 35.0         | 0.0                      | 1,580.0        | 1,580.0        | 20.0                   | 0.0            | 0.0            | 0.0            | 1,600.0         | 0.0          | 1,635.0        |
| <b>Total</b>                  | <b>275.0</b> | <b>0.0</b>               | <b>1,580.0</b> | <b>1,580.0</b> | <b>169.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,749.0</b>  | <b>0.0</b>   | <b>2,024.0</b> |

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| <p><b>Potable Motor Operated Valve (MOV) at Thornydale Reclaimed Reservoir</b></p> <p><b>Description:</b><br/>Replace the 12-inch flow meter with a 12-inch magnetic meter. Add a motor operated valve to allow water operations to control the valve from the reclaimed plant.</p> <p><b>Justification:</b><br/>This will enable reclaimed operators to deliver reclaimed water credits to the reclaimed system, via potable water piping remotely. This will save time by not having to dispatch personnel to this site and assure faster response time.</p> | <p><b>Project ID:</b> W086<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> County</p> |
|--|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 50.0        | 50.0                     | 0.0         | 50.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 50.0            | 0.0          | 100.0         |
| Tucson Water Operating Funds  | 10.0        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 10.0          |
| <b>Total</b>                  | <b>60.0</b> | <b>50.0</b>              | <b>0.0</b>  | <b>50.0</b>  | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>50.0</b>     | <b>0.0</b>   | <b>110.0</b>  |

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| <p><b>Pressure Tank Replacement</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>Safety requirements mandate tank replacement for those not meeting code or lacking certification from the American Society of Mechanical Engineers.</p> | <p><b>Project ID:</b> W075<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 452.0        | 452.0        | 450.0                  | 450.0          | 470.0          | 486.0          | 2,308.0         | 2,250.0        | 4,558.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 56.0         | 56.0         | 57.0                   | 52.0           | 54.0           | 54.0           | 273.0           | 0.0            | 273.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>508.0</b> | <b>508.0</b> | <b>507.0</b>           | <b>502.0</b>   | <b>524.0</b>   | <b>540.0</b>   | <b>2,581.0</b>  | <b>2,250.0</b> | <b>4,831.0</b> |

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| <p><b>Production Well Sites</b></p> <p><b>Description:</b><br/>Acquire property for new production well sites.</p> <p><b>Justification:</b><br/>Well sites are needed to meet future demand and to replace obsolete wells.</p> | <p><b>Project ID:</b> W087<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 0.0           |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 85.0        | 85.0         | 85.0                   | 84.0           | 87.0           | 90.0           | 431.0           | 375.0        | 806.0         |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>85.0</b> | <b>85.0</b>  | <b>85.0</b>            | <b>84.0</b>    | <b>87.0</b>    | <b>90.0</b>    | <b>431.0</b>    | <b>375.0</b> | <b>806.0</b>  |

**Pumping Facility Modifications**

**Description:**  
 Modify existing production facilities to improve pump efficiency and dependability. Modifications include installing new flow meters, and constructing minor improvements, such as replacing pumps to gain efficiency and replacing pump components.

**Justification:**  
 These modifications are needed to ensure that system flows are monitored and logged to improve pump efficiency and dependability and to increase capacity.

**Project ID:** W254  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0          | 0.0          | 310.0                  | 306.0          | 321.0          | 0.0            | 937.0           | 1,550.0        | 2,487.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 350.0        | 350.0        | 40.0                   | 40.0           | 40.0           | 372.0          | 842.0           | 0.0            | 842.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>350.0</b> | <b>350.0</b> | <b>350.0</b>           | <b>346.0</b>   | <b>361.0</b>   | <b>372.0</b>   | <b>1,779.0</b>  | <b>1,550.0</b> | <b>3,329.0</b> |

**Rauscher Reservoir Rehabilitation**

**Description:**  
 Design and construct the reservoir roof superstructure, replace the roof covering, and add a liner.

**Justification:**  
 This work will reduce leakage. Site work will also be performed to address security and general site renewal.

**Project ID:** W092  
**Start Date:** 7/14  
**End Date:** 6/17  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 50.0        | 0.0                      | 5,000.0        | 5,000.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 5,000.0         | 0.0          | 5,050.0        |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 642.0          | 642.0          | 11.0                   | 0.0            | 0.0            | 0.0            | 653.0           | 0.0          | 658.0          |
| <b>Total</b>                  | <b>55.0</b> | <b>0.0</b>               | <b>5,642.0</b> | <b>5,642.0</b> | <b>11.0</b>            | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>5,653.0</b>  | <b>0.0</b>   | <b>5,708.0</b> |

| <b>Reclaimed Emergency Main Enhancements</b>   |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W513          |               |
|--|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|---------------|
| <b>Description:</b><br>Install, upgrade, or replace mains on an as needed basis.   |             |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> Annual        |               |
| <b>Justification:</b><br>Immediate response to requests for emergency reclaimed main installations is required to reduce water loss, improve system reliability, and maintain water quality. |             |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> Annual          |               |
|  |             |                          |              |              |                        |                |                |                |                 | <b>Location:</b> City and County |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project |
|  |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                              | 0.0           |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 113.0        | 113.0        | 113.0                  | 112.0          | 116.0          | 120.0          | 574.0           | 410.0                            | 984.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>113.0</b>           | <b>112.0</b>   | <b>116.0</b>   | <b>120.0</b>   | <b>574.0</b>    | <b>410.0</b>                     | <b>984.0</b>  |

| <b>Reclaimed Pressure Reducing Valves</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W438          |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|---------------|
| <b>Description:</b><br>This project includes the installation of reclaimed pressure reducing valves. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> Annual        |               |
| <b>Justification:</b><br>These valves will be installed as needed throughout the reclaimed system.   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> Annual          |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> City and County |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                              | 0.0           |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 56.0        | 56.0         | 56.0                   | 56.0           | 58.0           | 60.0           | 286.0           | 200.0                            | 486.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>60.0</b>    | <b>286.0</b>    | <b>200.0</b>                     | <b>486.0</b>  |

| <b>Reclaimed Pumping Facility Modifications</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W454          |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|---------------|
| <b>Description:</b><br>Replace or modify pumps, motors, and associated equipment at reclaimed water boosters as the need occurs.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> Annual        |               |
| <b>Justification:</b><br>These modifications are needed to ensure the system flows are monitored and logged to improve pump efficiency, dependability, and increase production capacity. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> Annual          |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> City and County |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0                              | 0.0           |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 56.0        | 56.0         | 56.0                   | 56.0           | 58.0           | 60.0           | 286.0           | 250.0                            | 536.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>60.0</b>    | <b>286.0</b>    | <b>250.0</b>                     | <b>536.0</b>  |

| <b>Reclaimed Reservoir and Tank Rehabilitation</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W798          |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|---------------|
| <b>Description:</b><br>This rehabilitation program addresses six concrete reclaimed reservoirs and steel tanks for the five year period. These water vessels were constructed from the early 1950s to present and are in need of upgrades and enhancements. Reclaimed reservoirs and tanks scheduled for rehabilitation are: Dove Mountain, Houghton, La Paloma, Starr Pass, Roger Road, and Thornydale. |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> Annual        |               |
| <b>Justification:</b><br>This program will ensure system reliability, prevent water loss, and improve regulatory compliance.   |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> Annual          |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> City and County |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |               |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 28.0        | 28.0         | 28.0                   | 28.0           | 29.0           | 30.0           | 143.0           | 125.0                            | 268.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>28.0</b> | <b>28.0</b>  | <b>28.0</b>            | <b>28.0</b>    | <b>29.0</b>    | <b>30.0</b>    | <b>143.0</b>    | <b>125.0</b>                     | <b>268.0</b>  |

**Recycled Water Master Plan**

**Description:**  
 This project will result in the development of a plan for the full utilization of the City's effluent by 2020. The plan will address effluent quality and quantity, methods of treatment, existing and potential uses of effluent. The plan will also result in the implementation of capital improvement projects.

**Justification:**  
 This is necessary to demonstrate and reinforce to the community the importance of using all of our effluent supply for non-potable purposes within the Tucson Water Service Area.

**Project ID:** W799  
**Start Date:** 7/11  
**End Date:** 6/16  
**Location:** Citywide

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 2,337.0        | 0.0                      | 916.0          | 916.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 916.0           | 0.0          | 3,253.0        |
| Tucson Water Operating Funds  | 49.8           | 0.0                      | 100.0          | 100.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 100.0           | 0.0          | 149.8          |
| <b>Total</b>                  | <b>2,386.8</b> | <b>0.0</b>               | <b>1,016.0</b> | <b>1,016.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,016.0</b>  | <b>0.0</b>   | <b>3,402.8</b> |

**Rehabilitation of Critical Transmission Mains**

**Description:**  
 The Pipeline Protection Program, through its internal electromagnetic surveys, has identified several distressed concrete cylinder pipe segments containing a high number of broken wires. Operating pressure conditions, combined with a critical number of wire breaks could result in pipe failure.

**Justification:**  
 This project will upgrade, strengthen, and improve the integrity of the pipe to provide continuous water delivery and prevent interruptions in service.

**Project ID:** W518  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 321.0        | 321.0        | 321.0                  | 295.0          | 309.0          | 320.0          | 1,566.0         | 1,500.0        | 3,066.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 40.0         | 40.0         | 40.0                   | 40.0           | 40.0           | 40.0           | 200.0           | 0.0            | 200.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>361.0</b> | <b>361.0</b> | <b>361.0</b>           | <b>335.0</b>   | <b>349.0</b>   | <b>360.0</b>   | <b>1,766.0</b>  | <b>1,500.0</b> | <b>3,266.0</b> |

**Reservoir and Tank Rehabilitation**

**Description:**  
 This comprehensive rehabilitation program addresses approximately 63 concrete reservoirs and steel storage tanks. These water vessels were constructed beginning in the early 1950s, and many are in need of upgrades and enhancements to continue to provide long-term system reliability and prevent water loss.

**Justification:**  
 This program will provide the funding necessary to extend the useful life of reservoirs and storage tanks in the system.

**Project ID:** W736  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years    | Total Project   |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                 |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 5,400.0        | 5,400.0         | 25,000.0        | 30,400.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 56.0        | 56.0         | 56.0                   | 56.0           | 58.0           | 601.0          | 827.0           | 0.0             | 827.0           |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>6,001.0</b> | <b>6,227.0</b>  | <b>25,000.0</b> | <b>31,227.0</b> |

**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.

**Project ID:** W716  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|-------------------------------|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                               |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Obligation Bonds | 5,865.3        | 0.0                      | 0.0          | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0            | 5,865.3         |
| Tucson Water Operating Funds  | 1,333.1        | 0.0                      | 564.0        | 564.0        | 564.0                  | 558.0          | 582.0          | 600.0          | 2,868.0         | 2,500.0        | 6,701.1         |
| <b>Total</b>                  | <b>7,198.4</b> | <b>0.0</b>               | <b>564.0</b> | <b>564.0</b> | <b>564.0</b>           | <b>558.0</b>   | <b>582.0</b>   | <b>600.0</b>   | <b>2,868.0</b>  | <b>2,500.0</b> | <b>12,566.4</b> |

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| <p><b>Review Developer-Financed Potable Projects</b></p> <p><b>Description:</b><br/>         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.</p> <p><b>Justification:</b><br/>         The review and inspection of developer-financed water system infrastructure projects ensure compliance with Tucson Water requirements.</p> | <p><b>Project ID:</b> W109<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                              |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 1,072.0        | <b>1,072.0</b> | 1,071.0                | 1,061.0        | 1,105.0        | 1,140.0        | <b>5,449.0</b>  | 4,750.0        | <b>10,199.0</b> |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>1,072.0</b> | <b>1,072.0</b> | <b>1,071.0</b>         | <b>1,061.0</b> | <b>1,105.0</b> | <b>1,140.0</b> | <b>5,449.0</b>  | <b>4,750.0</b> | <b>10,199.0</b> |

|  |   |
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| <p><b>River Road 12-Inch Main</b></p> <p><b>Description:</b><br/>         Design and install 5,500 feet of 12-inch pipe on River Road between Craycroft and Avenida Del Cazador.</p> <p><b>Justification:</b><br/>         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. In an emergency, this main will deliver C-zone well water to the Valley View Booster Station.</p> | <p><b>Project ID:</b> W146<br/> <b>Start Date:</b> 7/17<br/> <b>End Date:</b> 6/19<br/> <b>Location:</b> County</p> |
|--|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 20.0           | 620.0          | 0.0            | <b>640.0</b>    | 0.0          | <b>640.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 13.0           | 78.0           | 0.0            | <b>91.0</b>     | 0.0          | <b>91.0</b>   |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>33.0</b>    | <b>698.0</b>   | <b>0.0</b>     | <b>731.0</b>    | <b>0.0</b>   | <b>731.0</b>  |

**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.

**Project ID:** W111  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years    | Total Project   |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|-----------------|-----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                 |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 2,079.0        | 2,079.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 2,079.0         | 17,500.0        | 19,579.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 2,434.0        | 2,434.0        | 4,511.0                | 4,466.0        | 5,235.0        | 4,201.0        | 20,847.0        | 0.0             | 20,847.0        |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>4,513.0</b> | <b>4,513.0</b> | <b>4,511.0</b>         | <b>4,466.0</b> | <b>5,235.0</b> | <b>4,201.0</b> | <b>22,926.0</b> | <b>17,500.0</b> | <b>40,426.0</b> |

**SA-016A Recovery Well Drilling**

**Description:**  
Design and drill water recovery well SA-016A. Project scope provides for the drilling and constructing stainless steel casing to prevent corrosion. Additional wells will allow the Southern Avra Valley Storage and Recovery Project (SAVSARP) well field to be operated more efficiently.

**Justification:**  
This will enable more complete utilization of the recharged Central Arizona Project (CAP) water. This will allow additional withdrawals as recharge capacity increases, as well as reliability while other wells are down for maintenance.

**Project ID:** W083  
**Start Date:** 7/16  
**End Date:** 6/17  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 600.0                  | 0.0            | 0.0            | 0.0            | 600.0           | 0.0          | 600.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 77.0                   | 0.0            | 0.0            | 0.0            | 77.0            | 0.0          | 77.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>677.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>677.0</b>    | <b>0.0</b>   | <b>677.0</b>  |

**SA-019A/SA-021A Recovery Well Drilling**

**Description:**  
Design and drill water recovery wells SA-019A and SA-021A. Project scope provides for the drilling and constructing stainless steel casing to prevent corrosion. Additional wells will allow the Southern Avra Valley Storage and Recovery Project (SAVSARP) well field to be operated more efficiently.

**Project ID:** W084  
**Start Date:** 7/16  
**End Date:** 6/17  
**Location:** County

**Justification:**  
This will enable more complete utilization of the recharged Central Arizona Project (CAP) water. This will allow additional withdrawals as recharge capacity increases, as well as reliability while other wells are down for maintenance.

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 1,169.0                | 0.0            | 0.0            | 0.0            | 1,169.0         | 0.0          | 1,169.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 120.0                  | 0.0            | 0.0            | 0.0            | 120.0           | 0.0          | 120.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>1,289.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,289.0</b>  | <b>0.0</b>   | <b>1,289.0</b> |

**SA-023A Recovery Well Drilling**

**Description:**  
Design and drill water recovery well SA-023A. Project scope provides for the drilling and constructing stainless steel casing to prevent corrosion. Additional wells will allow the Southern Avra Valley Storage and Recovery Project (SAVSARP) well field to be operated more efficiently.

**Project ID:** W085  
**Start Date:** 7/16  
**End Date:** 6/17  
**Location:** County

**Justification:**  
This will enable more complete utilization of the recharged Central Arizona Project (CAP) water. This will allow additional withdrawals as recharge capacity increases, as well as reliability while other wells are down for maintenance.

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 600.0                  | 0.0            | 0.0            | 0.0            | 600.0           | 0.0          | 600.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 77.0                   | 0.0            | 0.0            | 0.0            | 77.0            | 0.0          | 77.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>677.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>677.0</b>    | <b>0.0</b>   | <b>677.0</b>  |

| <b>Sahuarita Supply Line Slip Liner</b>  |              |                          |                |                |                        |                |                |                |                 | Project ID: W796 |                |
|--|--------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|------------------|----------------|
| <b>Description:</b><br>Design and install a high-density polyethylene pipe (HDPE) slip liner in the existing 30-inch and 36-inch concrete cylinder pipe (CCP) Sahuarita Supply Line from Lumber Street and Old Nogales Highway to Medina Road and Nogales Highway. |              |                          |                |                |                        |                |                |                |                 | Start Date: 7/12 |                |
| <b>Justification:</b><br>This project will increase the capacity available from the Santa Cruz well field from 12 million gallons-per-day (mgd) to 20 mgd.   |              |                          |                |                |                        |                |                |                |                 | End Date: 6/16   |                |
|  |              |                          |                |                |                        |                |                |                |                 | Location: Ward 1 |                |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project  |
|  |              | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |                |
| Tucson Water Obligation Bonds  | 84.9         | 1,650.0                  | 5,014.0        | 6,664.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 6,664.0         | 0.0              | 6,748.9        |
| Tucson Water Operating Funds   | 225.5        | 0.0                      | 600.0          | 600.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 600.0           | 0.0              | 825.5          |
| <b>Total</b>   | <b>310.4</b> | <b>1,650.0</b>           | <b>5,614.0</b> | <b>7,264.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>7,264.0</b>  | <b>0.0</b>       | <b>7,574.4</b> |

| <b>San Paulo Village Main Replacement Phase I</b>   |             |                          |             |              |                        |                |                |                |                 | Project ID: W850 |               |
|---|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|------------------|---------------|
| <b>Description:</b><br>Design and install 3,300 feet of 6-inch pipe in Sylvane and 28th Street.   |             |                          |             |              |                        |                |                |                |                 | Start Date: 7/15 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | End Date: 6/17   |               |
|   |             |                          |             |              |                        |                |                |                |                 | Location: Ward 4 |               |
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years     | Total Project |
|   |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                  |               |
| Tucson Water Obligation Bonds   | 0.0         | 0.0                      | 52.0        | 52.0         | 140.0                  | 0.0            | 0.0            | 0.0            | 192.0           | 0.0              | 192.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 4.0         | 4.0          | 29.0                   | 0.0            | 0.0            | 0.0            | 33.0            | 0.0              | 33.0          |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>169.0</b>           | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>225.0</b>    | <b>0.0</b>       | <b>225.0</b>  |

| <b>San Paulo Village Main Replacement Phase II</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W041 |                |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|----------------|
| <b>Description:</b><br>Design and install 6,200 feet of 6-inch pipe in Sahuara, 28th Street, 22nd Street, and Wilmot Road.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/16 |                |
|  |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/18   |                |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |                |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project  |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |                |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 277.0                  | 800.0          | 0.0            | 0.0            | 1,077.0         | 0.0                     | 1,077.0        |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 30.0                   | 124.0          | 0.0            | 0.0            | 154.0           | 0.0                     | 154.0          |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>307.0</b>           | <b>924.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>1,231.0</b>  | <b>0.0</b>              | <b>1,231.0</b> |

| <b>San Paulo Village Main Replacement Phase III</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W071 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 4,298 feet of 8-inch pipe and 1,200 feet of 6-inch pipe in Alamo, 25th Street, 22nd Street, and Wilmot Road.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/17 |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/19   |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 427.0          | 0.0            | 427.0           | 0.0                     | 427.0         |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 56.0           | 50.0           | 0.0            | 106.0           | 0.0                     | 106.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>56.0</b>    | <b>477.0</b>   | <b>0.0</b>     | <b>533.0</b>    | <b>0.0</b>              | <b>533.0</b>  |

|  |   |
|--|---|
| <p><b>Santa Cruz SC-008 Well Collector Line</b></p> <p><b>Description:</b><br/>Design and install 3,500 feet of 12-inch HDPE collector line from existing Well SC-008 to existing 30-inch transmission main.</p> <p><b>Justification:</b><br/>This will increase flow from the Santa Cruz Wellfield from 10 mgd to 20 mgd.</p> | <p><b>Project ID:</b> W039<br/> <b>Start Date:</b> 7/13<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> County</p> |
|--|---|

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 96.6         | 225.0                    | 0.0         | 225.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 225.0           | 0.0          | 321.6         |
| Tucson Water Operating Funds  | 36.6         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 36.6          |
| <b>Total</b>                  | <b>133.2</b> | <b>225.0</b>             | <b>0.0</b>  | <b>225.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>225.0</b>    | <b>0.0</b>   | <b>358.2</b>  |

|  |  |
|--|--|
| <p><b>Santa Cruz Wellfield Chemical Feed/Monitoring Facility</b></p> <p><b>Description:</b><br/>This project consists of a land acquisition and 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).</p> <p><b>Justification:</b><br/>This facility will ensure that pH adjustment, disinfection, and water quality monitoring will be performed in an integrated way in providing water to approximately 50,000 customers.</p> | <p><b>Project ID:</b> W759<br/> <b>Start Date:</b> 7/09<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 1,797.8        | 2,975.0                  | 0.0         | 2,975.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 2,975.0         | 0.0          | 4,772.8        |
| Tucson Water Operating Funds  | 910.1          | 0.0                      | 0.0         | 0.0            | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 910.1          |
| <b>Total</b>                  | <b>2,707.9</b> | <b>2,975.0</b>           | <b>0.0</b>  | <b>2,975.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,975.0</b>  | <b>0.0</b>   | <b>5,682.9</b> |

|  |   |
|--|---|
| <p><b>Santa Cruz Wellfield Facility Pipeline</b></p> <p><b>Description:</b><br/>Design and construct two 155 foot long 30 and 36-inch header pipelines with butterfly valves.</p> <p><b>Justification:</b><br/>This will connect the proposed Santa Cruz Wellfield Treatment Facility to the existing transmission main and proposed sliplined transmission main pipelines that convey water from the Santa Cruz wellfields to the Martin Reservoir and the water distribution system.</p> | <p><b>Project ID:</b> W089<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> Ward 1</p> |
|--|---|

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 65.7         | 610.0                    | 0.0         | <b>610.0</b> | 0.0                    | 0.0            | 0.0            | 0.0            | <b>610.0</b>    | 0.0          | <b>675.7</b>  |
| Tucson Water Operating Funds  | 58.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 0.0            | 0.0            | <b>0.0</b>      | 0.0          | <b>58.0</b>   |
| <b>Total</b>                  | <b>123.7</b> | <b>610.0</b>             | <b>0.0</b>  | <b>610.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>610.0</b>    | <b>0.0</b>   | <b>733.7</b>  |

|   |   |
|---|---|
| <p><b>Santa Cruz Wells Re-Equipping</b></p> <p><b>Description:</b><br/>Design and construct well equipping of four existing production wells in the Santa Cruz Well Field. Due to the higher groundwater elevations, this well field provides the most cost-effective access to our renewable water resource.</p> <p><b>Justification:</b><br/>By returning these wells to service, the production of this well field can be increased to approximately 15 million gallons-per-day (mgd).</p> | <p><b>Project ID:</b> W857<br/> <b>Start Date:</b> 7/13<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> County</p> |
|---|---|

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |              |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|--------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding  | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 127.1        | 420.0                    | 577.0        | <b>997.0</b>   | 0.0                    | 0.0            | 0.0            | 0.0            | <b>997.0</b>    | 0.0          | <b>1,124.1</b> |
| Tucson Water Operating Funds  | 51.8         | 0.0                      | 100.0        | <b>100.0</b>   | 0.0                    | 0.0            | 0.0            | 0.0            | <b>100.0</b>    | 0.0          | <b>151.8</b>   |
| <b>Total</b>                  | <b>178.9</b> | <b>420.0</b>             | <b>677.0</b> | <b>1,097.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,097.0</b>  | <b>0.0</b>   | <b>1,275.9</b> |

**Santa Rita Ranch/Houghton Road 12" Main**

**Description:**  
Design and install approximately 3,800 feet of 12-inch pipe on Houghton Road between Tallahassee Road and Forrest Freezor Street with a connection to the existing 8-inch pipeline at Vista Monte Drive.

**Justification:**  
The new pipeline will connect two existing 12-inch mains providing increased reliability between the South Houghton Booster Station, the Santa Rita Booster Station and the Sycamore Canyon Reservoir.

**Project ID:** W768  
**Start Date:** 7/10  
**End Date:** 6/16  
**Location:** County

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|--------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 324.1        | 550.0                    | 0.0         | 550.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 550.0           | 0.0          | 874.1         |
| Tucson Water Operating Funds  | 105.9        | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 0.0            | 0.0            | 0.0             | 0.0          | 105.9         |
| <b>Total</b>                  | <b>430.0</b> | <b>550.0</b>             | <b>0.0</b>  | <b>550.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>550.0</b>    | <b>0.0</b>   | <b>980.0</b>  |

**SAVSARP Collector Lines Phase II**

**Description:**  
Design and install approximately 3,710 feet of 16-inch pipe, 2,000 feet of 36-inch pipe including appurtenances.

**Justification:**  
This will provide collector lines to convey water from wells SA-003A, SA-010A, SA-017A, SA-018A, SA-020A, to the SAVSARP reservoir. This schedule will match the drilling and equipping schedule of the Southern Avra Valley Storage and Recovery Project (SAVSARP) recovery wells.

**Project ID:** W781  
**Start Date:** 7/12  
**End Date:** 6/16  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 2.0         | 500.0                    | 550.0        | 1,050.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 1,050.0         | 0.0          | 1,052.0        |
| Tucson Water Operating Funds  | 49.7        | 0.0                      | 62.0         | 62.0           | 0.0                    | 0.0            | 0.0            | 0.0            | 62.0            | 0.0          | 111.7          |
| <b>Total</b>                  | <b>51.7</b> | <b>500.0</b>             | <b>612.0</b> | <b>1,112.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,112.0</b>  | <b>0.0</b>   | <b>1,163.7</b> |

| <b>SAVSARP Raw Water Rcvrd Cathodic Protection</b>   |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> W046 |               |
|--|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and construct the cathodic protection (CP) to the Central Avra Valley Storage and Recovery Project (CAVSARP) and Southern Avra Valley Storage and Recovery Project (SAVSARP) pipelines.                                      |              |                          |              |              |                        |                |                |                |                 | <b>Start Date:</b> 7/13 |               |
|  |              |                          |              |              |                        |                |                |                |                 | <b>End Date:</b> 6/16   |               |
| <b>Justification:</b><br>Applied cathodic protection will increase the original life span. Failure to apply CP to the pipeline will allow corrosion and over time will degrade and raise the risk of potential pipeline water leaks and possible failures. |              |                          |              |              |                        |                |                |                |                 | <b>Location:</b> County |               |
| Source of Funds Summary  | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 130.1        | 150.0                    | 302.0        | 452.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 452.0           | 0.0                     | 582.1         |
| Tucson Water Operating Funds   | 28.1         | 0.0                      | 37.0         | 37.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 37.0            | 0.0                     | 65.1          |
| <b>Total</b>   | <b>158.2</b> | <b>150.0</b>             | <b>339.0</b> | <b>489.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>489.0</b>    | <b>0.0</b>              | <b>647.2</b>  |

| <b>SCADA Potable Upgrades</b>   |                |                          |                |                |                        |                |                |                |                 | <b>Project ID:</b> W782          |                 |
|---|----------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|----------------------------------|-----------------|
| <b>Description:</b><br>The SCADA communication infrastructure has become obsolete and needs to be updated. This project will provide for the installation of field instrumentation, controllers, and communications equipment necessary to communicate water system flows, levels, and pressures to system operators. |                |                          |                |                |                        |                |                |                |                 | <b>Start Date:</b> 7/12          |                 |
|   |                |                          |                |                |                        |                |                |                |                 | <b>End Date:</b> 6/20            |                 |
| <b>Justification:</b><br>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.                  |                |                          |                |                |                        |                |                |                |                 | <b>Location:</b> City and County |                 |
| Source of Funds Summary   | Prior Years    | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years                     | Total Project   |
|   |                | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                                  |                 |
| Tucson Water Obligation Bonds   | 1,056.8        | 1,000.0                  | 0.0            | 1,000.0        | 1,716.0                | 2,000.0        | 900.0          | 0.0            | 5,616.0         | 0.0                              | 6,672.8         |
| Tucson Water Operating Funds  | 1,505.8        | 0.0                      | 3,563.0        | 3,563.0        | 2,300.0                | 1,371.0        | 286.0          | 1,764.0        | 9,284.0         | 0.0                              | 10,789.8        |
| <b>Total</b>  | <b>2,562.6</b> | <b>1,000.0</b>           | <b>3,563.0</b> | <b>4,563.0</b> | <b>4,016.0</b>         | <b>3,371.0</b> | <b>1,186.0</b> | <b>1,764.0</b> | <b>14,900.0</b> | <b>0.0</b>                       | <b>17,462.6</b> |

**SCADA Reclaimed**

**Description:**  
 The SCADA communication infrastructure has become obsolete and needs to be upgraded. This project will provide for the installation of field instrumentation, controllers, and communications equipment necessary to communicate reclaimed water system flows, levels, and pressures to the system operators. The existing Master Station hardware and software will be replaced with improved technology.

**Justification:**  
 This project will allow the utility to control operations of the reclaimed water system from a central location, thereby ensuring operational efficiency.

**Project ID:** W783  
**Start Date:** 7/12  
**End Date:** 6/18  
**Location:** City and County

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 704.2          | 500.0                    | 0.0          | 500.0        | 240.0                  | 430.0          | 0.0            | 0.0            | 1,170.0         | 0.0          | 1,874.2        |
| Tucson Water Operating Funds  | 548.1          | 0.0                      | 293.0        | 293.0        | 33.0                   | 50.0           | 0.0            | 0.0            | 376.0           | 0.0          | 924.1          |
| <b>Total</b>                  | <b>1,252.3</b> | <b>500.0</b>             | <b>293.0</b> | <b>793.0</b> | <b>273.0</b>           | <b>480.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>1,546.0</b>  | <b>0.0</b>   | <b>2,798.3</b> |

**Source Meter Replacement**

**Description:**  
 Install new magnetic meters at the wellheads to improve the accounting of how much potable water is produced.

**Justification:**  
 This project will assist in determining the amount of real losses versus apparent losses of water, and improve compliance with water loss regulations.

**Project ID:** W715  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** Citywide

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                              |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 275.0        | 275.0        | 246.0                  | 246.0          | 256.0          | 264.0          | 1,287.0         | 0.0          | 1,287.0        |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>275.0</b> | <b>275.0</b> | <b>246.0</b>           | <b>246.0</b>   | <b>256.0</b>   | <b>264.0</b>   | <b>1,287.0</b>  | <b>0.0</b>   | <b>1,287.0</b> |

**Southeast Houghton Area Recharge Project (SHARP)**

**Description:**  
Tucson Water and Pima County are engaged in a jointly funded reclaimed water recharge project 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.

**Project ID:** W797  
**Start Date:** 7/10  
**End Date:** 6/18  
**Location:** City and County

| Source of Funds Summary       | Prior Years    | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|----------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |                | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 937.4          | 0.0                      | 0.0          | 0.0          | 2,334.0                | 4,200.0        | 0.0            | 0.0            | 6,534.0         | 0.0          | 7,471.4        |
| Tucson Water Operating Funds  | 606.8          | 0.0                      | 226.0        | 226.0        | 316.0                  | 266.0          | 0.0            | 0.0            | 808.0           | 0.0          | 1,414.8        |
| <b>Total</b>                  | <b>1,544.2</b> | <b>0.0</b>               | <b>226.0</b> | <b>226.0</b> | <b>2,650.0</b>         | <b>4,466.0</b> | <b>0.0</b>     | <b>0.0</b>     | <b>7,342.0</b>  | <b>0.0</b>   | <b>8,886.2</b> |

**Southwest Turnout Pressure Reducing Valve**

**Description:**  
Design and construct a new 12-inch Pressure Reducing Valve, install approximately 100 feet of 16-inch connection mains and install SCADA equipment.

**Justification:**  
This facility will be constructed in conjunction with the Avra Valley Transmission Main.

**Project ID:** W142  
**Start Date:** 7/18  
**End Date:** 6/19  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 360.0          | 0.0            | 360.0           | 0.0          | 360.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 47.0           | 0.0            | 47.0            | 0.0          | 47.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>407.0</b>   | <b>0.0</b>     | <b>407.0</b>    | <b>0.0</b>   | <b>407.0</b>  |

**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.

**Project ID:** W645  
**Start Date:** Annual  
**End Date:** Annual  
**Location:** City and County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|----------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 251.0        | 251.0        | 250.0                  | 250.0          | 261.0          | 270.0          | 1,282.0         | 1,250.0        | 2,532.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 31.0         | 31.0         | 32.0                   | 29.0           | 30.0           | 30.0           | 152.0           | 0.0            | 152.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>282.0</b> | <b>282.0</b> | <b>282.0</b>           | <b>279.0</b>   | <b>291.0</b>   | <b>300.0</b>   | <b>1,434.0</b>  | <b>1,250.0</b> | <b>2,684.0</b> |

**Tanque Verde to Wentworth 8-inch Main**

**Description:**  
Design and install 2,900 feet of 8-inch pipe in Redington Road from Wentworth to Camino La Cebadilla connecting to the existing 8-inch mains.

**Justification:**  
This main will improve water distribution and fire flow capacity in the E1 and G8 water service areas.

**Project ID:** W040  
**Start Date:** 7/16  
**End Date:** 6/18  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 225.0          | 0.0            | 0.0            | 225.0           | 0.0          | 225.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 27.0                   | 25.0           | 0.0            | 0.0            | 52.0            | 0.0          | 52.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>27.0</b>            | <b>250.0</b>   | <b>0.0</b>     | <b>0.0</b>     | <b>277.0</b>    | <b>0.0</b>   | <b>277.0</b>  |

|   |   |
|---|---|
| <p><b>TARP R-009A Well</b></p> <p><b>Description:</b><br/>Design and construct a replacement well at R-009A. The TARP remediation system is operated by Tucson Water in accordance with the 1991 Consent Decree with the United States Environmental Protection Agency (USEPA) to contain and treat groundwater contaminated with TCE.</p> <p><b>Justification:</b><br/>This replacement well is required to ensure future capture of the TCE plume at the TARP facility.</p> | <p><b>Project ID:</b> W090<br/> <b>Start Date:</b> 7/14<br/> <b>End Date:</b> 6/16<br/> <b>Location:</b> Citywide</p> |
|---|---|

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |             |                | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|-------------|----------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 152.2        | 1,100.0                  | 0.0         | <b>1,100.0</b> | 0.0                    | 0.0            | 0.0            | 0.0            | <b>1,100.0</b>  | 0.0          | <b>1,252.2</b> |
| Tucson Water Operating Funds  | 109.6        | 0.0                      | 0.0         | <b>0.0</b>     | 0.0                    | 0.0            | 0.0            | 0.0            | <b>0.0</b>      | 0.0          | <b>109.6</b>   |
| <b>Total</b>                  | <b>261.8</b> | <b>1,100.0</b>           | <b>0.0</b>  | <b>1,100.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,100.0</b>  | <b>0.0</b>   | <b>1,361.8</b> |

|   |   |
|---|---|
| <p><b>Third Avenue Pressure Reducing Valve</b></p> <p><b>Description:</b><br/>Design and construct a new 12-inch Pressure Reducing Valve, install approximately 100 feet of 54-inch connection mains and install SCADA equipment.</p> <p><b>Justification:</b><br/>This facility will be constructed in conjunction with the Avra Valley Transmission Main.</p> | <p><b>Project ID:</b> W145<br/> <b>Start Date:</b> 7/19<br/> <b>End Date:</b> 6/21<br/> <b>Location:</b> County</p> |
|---|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 0.0            | 100.0          | <b>100.0</b>    | 500.0        | <b>600.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | <b>0.0</b>   | 0.0                    | 0.0            | 0.0            | 20.0           | <b>20.0</b>     | 0.0          | <b>20.0</b>   |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>120.0</b>   | <b>120.0</b>    | <b>500.0</b> | <b>620.0</b>  |

| <b>Tierra Del Sol Main Replacement Phase I</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W072 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 5,000 feet of 8-inch pipe and 4,130 feet of 6-inch pipe in Alamo Road, Calle Bellatrix, 22nd Street, and Fordham Road.   |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/17 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/19   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 439.0          | 0.0            | 439.0           | 0.0                     | 439.0         |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 56.0           | 50.0           | 0.0            | 106.0           | 0.0                     | 106.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>56.0</b>    | <b>489.0</b>   | <b>0.0</b>     | <b>545.0</b>    | <b>0.0</b>              | <b>545.0</b>  |

| <b>Tierra Del Sol Main Replacement Phase II</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W147 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>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.  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/18 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/20   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 20.0           | 454.0          | 474.0           | 0.0                     | 474.0         |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 38.0           | 50.0           | 88.0            | 0.0                     | 88.0          |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>58.0</b>    | <b>504.0</b>   | <b>562.0</b>    | <b>0.0</b>              | <b>562.0</b>  |

| <b>Tierra Del Sol Main Replacement Phase III</b>   |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W148 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>Design and install 1,682 feet of 8-inch pipe and 10,000 feet of 6-inch pipe in Calle Betelguex, Calle Canis, Avenida Planeta, and Kolb Road.  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/18 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/20   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 40.0           | 0.0            | 40.0            | 0.0                     | 40.0          |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 18.0           | 744.0          | 762.0           | 0.0                     | 762.0         |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>58.0</b>    | <b>744.0</b>   | <b>802.0</b>    | <b>0.0</b>              | <b>802.0</b>  |

| <b>Tierra Del Sol Main Replacement Phase IV</b>  |             |                          |             |              |                        |                |                |                |                 | <b>Project ID:</b> W149 |               |
|--|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|-------------------------|---------------|
| <b>Description:</b><br>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.  |             |                          |             |              |                        |                |                |                |                 | <b>Start Date:</b> 7/18 |               |
| <b>Justification:</b><br>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. |             |                          |             |              |                        |                |                |                |                 | <b>End Date:</b> 6/20   |               |
|  |             |                          |             |              |                        |                |                |                |                 | <b>Location:</b> Ward 4 |               |
| Source of Funds Summary  | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years            | Total Project |
|  |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                         |               |
| Tucson Water Obligation Bonds  | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 40.0           | 530.0          | 570.0           | 0.0                     | 570.0         |
| Tucson Water Operating Funds   | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 18.0           | 64.0           | 82.0            | 0.0                     | 82.0          |
| <b>Total</b>   | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>0.0</b>             | <b>0.0</b>     | <b>58.0</b>    | <b>594.0</b>   | <b>652.0</b>    | <b>0.0</b>              | <b>652.0</b>  |

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| <p><b>Trails End Reservoir Rehabilitation</b></p> <p><b>Description:</b><br/>Design and construct improvements as developed through the condition assessment to bring this reservoir up to current standards.</p> <p><b>Justification:</b><br/>This project must be completed to continue to provide long-term reliability and prevent water loss.</p> | <p><b>Project ID:</b> W050<br/> <b>Start Date:</b> 7/16<br/> <b>End Date:</b> 6/20<br/> <b>Location:</b> County</p> |
|--|---|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0         | 0.0          | 0.0                    | 0.0            | 150.0          | 860.0          | 1,010.0         | 0.0          | 1,010.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 0.0         | 0.0          | 11.0                   | 11.0           | 25.0           | 100.0          | 147.0           | 0.0          | 147.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>0.0</b>  | <b>0.0</b>   | <b>11.0</b>            | <b>11.0</b>    | <b>175.0</b>   | <b>960.0</b>   | <b>1,157.0</b>  | <b>0.0</b>   | <b>1,157.0</b> |

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| <p><b>Upgrade Corrosion Test Stations</b></p> <p><b>Description:</b><br/>Upgrade and replace substandard transmission main corrosion test stations and rectifiers.</p> <p><b>Justification:</b><br/>These upgrades will enhance the reliability of Tucson Water's Corrosion Monitoring Program, providing a means to better monitor, predict, and prevent pipeline failures.</p> | <p><b>Project ID:</b> W327<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 50.0        | 50.0         | 50.0                   | 50.0           | 52.0           | 54.0           | 256.0           | 250.0        | 506.0         |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 6.0         | 6.0          | 6.0                    | 6.0            | 6.0            | 6.0            | 30.0            | 0.0          | 30.0          |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>56.0</b> | <b>56.0</b>  | <b>56.0</b>            | <b>56.0</b>    | <b>58.0</b>    | <b>60.0</b>    | <b>286.0</b>    | <b>250.0</b> | <b>536.0</b>  |

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|---|--|--|--|--|--|--|--|--|--|-------------------------|--|
| <b>Valley View Reservoir Rehabilitation</b>   |  |  |  |  |  |  |  |  |  | <b>Project ID:</b> W058 |  |
| <b>Description:</b><br>Design and construct a new liner and additional improvements at Valley View Reservoir. |  |  |  |  |  |  |  |  |  | <b>Start Date:</b> 7/14 |  |
| <b>Justification:</b><br>This will prevent leakage and provide long term reliability of this facility.        |  |  |  |  |  |  |  |  |  | <b>End Date:</b> 6/17   |  |
|   |  |  |  |  |  |  |  |  |  | <b>Location:</b> County |  |

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |             |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|-------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 10.2        | 0.0                      | 0.0         | 0.0          | 2,600.0                | 0.0            | 0.0            | 0.0            | 2,600.0         | 0.0          | 2,610.2        |
| Tucson Water Operating Funds  | 8.2         | 0.0                      | 23.0        | 23.0         | 107.0                  | 0.0            | 0.0            | 0.0            | 130.0           | 0.0          | 138.2          |
| <b>Total</b>                  | <b>18.4</b> | <b>0.0</b>               | <b>23.0</b> | <b>23.0</b>  | <b>2,707.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>2,730.0</b>  | <b>0.0</b>   | <b>2,748.4</b> |

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| <b>Valve Access Vault</b>   |  |  |  |  |  |  |  |  |  | <b>Project ID:</b> W060          |  |
| <b>Description:</b><br>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 five vaults per year prioritizing the largest and most critical BFV actuators. |  |  |  |  |  |  |  |  |  | <b>Start Date:</b> Annual        |  |
| <b>Justification:</b><br>Installing vaults to grade will eliminate the need to excavate roadways, reduce overall maintenance costs, and improve safety.   |  |  |  |  |  |  |  |  |  | <b>End Date:</b> Annual          |  |
|   |  |  |  |  |  |  |  |  |  | <b>Location:</b> City and County |  |

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 100.0        | 100.0        | 100.0                  | 100.0          | 100.0          | 100.0          | 500.0           | 500.0        | 1,000.0        |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 13.0         | 13.0         | 13.0                   | 12.0           | 16.0           | 20.0           | 74.0            | 0.0          | 74.0           |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>113.0</b> | <b>113.0</b> | <b>113.0</b>           | <b>112.0</b>   | <b>116.0</b>   | <b>120.0</b>   | <b>574.0</b>    | <b>500.0</b> | <b>1,074.0</b> |

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| <p><b>Water Services</b></p> <p><b>Description:</b><br/>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.</p> <p><b>Justification:</b><br/>This project is required to provide for the installation of new metered services to customers upon request.</p> | <p><b>Project ID:</b> W114<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|--|--|

| Source of Funds Summary      | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                              |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Operating Funds | 0.0         | 0.0                      | 1,704.0        | <b>1,704.0</b> | 1,703.0                | 1,686.0        | 1,757.0        | 1,812.0        | <b>8,662.0</b>  | 7,550.0        | <b>16,212.0</b> |
| <b>Total</b>                 | <b>0.0</b>  | <b>0.0</b>               | <b>1,704.0</b> | <b>1,704.0</b> | <b>1,703.0</b>         | <b>1,686.0</b> | <b>1,757.0</b> | <b>1,812.0</b> | <b>8,662.0</b>  | <b>7,550.0</b> | <b>16,212.0</b> |

|   |  |
|---|--|
| <p><b>Wellfield Upgrades</b></p> <p><b>Description:</b><br/>Upgrade pumps and motors at production wells.</p> <p><b>Justification:</b><br/>To maximize efficiency and production capacity, and minimize repair and maintenance costs.</p> | <p><b>Project ID:</b> W077<br/> <b>Start Date:</b> Annual<br/> <b>End Date:</b> Annual<br/> <b>Location:</b> City and County</p> |
|---|--|

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |                |                | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project   |
|-------------------------------|-------------|--------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|-----------------|----------------|-----------------|
|                               |             | Carry Forward            | New Funding    | Year 1 Total   | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |                |                 |
| Tucson Water Obligation Bonds | 0.0         | 0.0                      | 0.0            | <b>0.0</b>     | 1,000.0                | 1,000.0        | 1,000.0        | 1,000.0        | <b>4,000.0</b>  | 5,000.0        | <b>9,000.0</b>  |
| Tucson Water Operating Funds  | 0.0         | 0.0                      | 1,128.0        | <b>1,128.0</b> | 128.0                  | 116.0          | 163.0          | 200.0          | <b>1,735.0</b>  | 0.0            | <b>1,735.0</b>  |
| <b>Total</b>                  | <b>0.0</b>  | <b>0.0</b>               | <b>1,128.0</b> | <b>1,128.0</b> | <b>1,128.0</b>         | <b>1,116.0</b> | <b>1,163.0</b> | <b>1,200.0</b> | <b>5,735.0</b>  | <b>5,000.0</b> | <b>10,735.0</b> |

**Well W-006 Transmission Main**

**Description:**  
Design and construct approximately 800 feet of 8-inch main from Booster W-001 to Insun Street along Lockett Road. The new main will tie into the existing 8-inch main.

**Justification:**  
This will solve a local water delivery problem.

**Project ID:** W074  
**Start Date:** 7/14  
**End Date:** 6/16  
**Location:** County

| Source of Funds Summary       | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project |
|-------------------------------|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|---------------|
|                               |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |               |
| Tucson Water Obligation Bonds | 25.0        | 25.0                     | 260.0        | 285.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 285.0           | 0.0          | 310.0         |
| Tucson Water Operating Funds  | 5.0         | 0.0                      | 33.0         | 33.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 33.0            | 0.0          | 38.0          |
| <b>Total</b>                  | <b>30.0</b> | <b>25.0</b>              | <b>293.0</b> | <b>318.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>318.0</b>    | <b>0.0</b>   | <b>348.0</b>  |

**Wilmot Main Replacement**

**Description:**  
Design and install approximately 4,700 feet of 12-inch pipe in Wilmot, 22nd Street to Golf Links Road. This project will replace 14 existing fire hydrants.

**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.

**Project ID:** W861  
**Start Date:** 7/14  
**End Date:** 6/16  
**Location:** Ward 4

| Source of Funds Summary       | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years | Total Project  |
|-------------------------------|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--------------|----------------|
|                               |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |              |                |
| Tucson Water Obligation Bonds | 100.0        | 100.0                    | 754.0        | 854.0        | 0.0                    | 0.0            | 0.0            | 0.0            | 854.0           | 0.0          | 954.0          |
| Tucson Water Operating Funds  | 20.0         | 0.0                      | 93.0         | 93.0         | 0.0                    | 0.0            | 0.0            | 0.0            | 93.0            | 0.0          | 113.0          |
| <b>Total</b>                  | <b>120.0</b> | <b>100.0</b>             | <b>847.0</b> | <b>947.0</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>947.0</b>    | <b>0.0</b>   | <b>1,067.0</b> |

## Non-Departmental



**Capital Improvement Program  
Department Statement**

**FY 2016 through FY 2020**

**Department:** Non-Departmental – General Expense

**Five-Year Total:** \$2,031,800

The General Expense five-year Capital Improvement Program of \$2,031,800 has two projects: The Technology Upgrade Project will enhance the City's multiple enterprise related systems to a current standard supported by the vendor. The Kronos Citywide System Project will implement an Enterprise Timekeeping management system to automate time keeping for all City departments.

## Non-Departmental: General Expense

(\$000)

| <b>Kronos Citywide System</b><br><b>Description:</b><br>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.<br><b>Justification:</b><br>The City's timekeeping and payroll processes are manual and subject to error. This puts 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. |              |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> N117<br><b>Start Date:</b> 7/14<br><b>End Date:</b> 6/16<br><b>Location:</b> Citywide |                |
|---|--------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--|----------------|
| Source of Funds Summary   | Prior Years  | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|   |              | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |                |
| General Fund  | 700.0        | 0.0                      | 531.8        | 531.8        | 0.0                    | 0.0            | 0.0            | 0.0            | 531.8           | 0.0  | 1,231.8        |
| <b>Total</b>  | <b>700.0</b> | <b>0.0</b>               | <b>531.8</b> | <b>531.8</b> | <b>0.0</b>             | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>531.8</b>    | <b>0.0</b>   | <b>1,231.8</b> |

| <b>Technology Upgrade</b><br><b>Description:</b><br>Upgrade the City's multiple enterprise related business computer system (Enterprise Resource Planning (ERP) system) to a current standard to be supported by a single vendor that will provide system administrative functions.<br><b>Justification:</b><br>The ERP vendor's contract dictates the City must stay on with 2 versions of their current release in order to be supported. |             |                          |              |              |                        |                |                |                |                 | <b>Project ID:</b> N118<br><b>Start Date:</b> 7/15<br><b>End Date:</b> 6/17<br><b>Location:</b> Citywide |                |
|---|-------------|--------------------------|--------------|--------------|------------------------|----------------|----------------|----------------|-----------------|--|----------------|
| Source of Funds Summary   | Prior Years | Adopted Fiscal Year 2016 |              |              | Projected Requirements |                |                |                | Five Year Total | Future Years   | Total Project  |
|   |             | Carry Forward            | New Funding  | Year 1 Total | Year 2 FY 2017         | Year 3 FY 2018 | Year 4 FY 2019 | Year 5 FY 2020 |                 |  |                |
| General Fund  | 0.0         | 0.0                      | 500.0        | 500.0        | 1,000.0                | 0.0            | 0.0            | 0.0            | 1,500.0         | 0.0  | 1,500.0        |
| <b>Total</b>  | <b>0.0</b>  | <b>0.0</b>               | <b>500.0</b> | <b>500.0</b> | <b>1,000.0</b>         | <b>0.0</b>     | <b>0.0</b>     | <b>0.0</b>     | <b>1,500.0</b>  | <b>0.0</b>   | <b>1,500.0</b> |

## Acronyms



# ACRONYMS and INITIALISMS

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| Acronym/Initialisms | Definitions                                       |
|---------------------|---|
| ADA                 | Americans with Disabilities Act                   |
| AVL                 | Automated Vehicle Locator                         |
| BFV                 | Butterfly Valve                                   |
| CAP                 | Central Arizona Project                           |
| CAVSARP             | Central Avra Valley Storage and Recovery Project  |
| CCP                 | Concrete Cylinder Pipe                            |
| CDBG                | Community Development Block Grant                 |
| CIP                 | Capital Improvement Program                       |
| CNG                 | Compressed Natural Gas                            |
| COPs                | Certificates of Participation                     |
| CP                  | Cathodic Protection                               |
| ERP                 | Enterprise Resource Planning                      |
| FTA                 | Federal Transit Administration                    |
| HDPE                | High Density Polyethylene                         |
| HURF                | Highway User Revenue Fund                         |
| HVAC                | Heating, Ventilation, and Air Conditioning        |
| LED                 | Light Emitting Diode                              |
| O&M                 | Operating and Maintenance                         |
| OSHA                | Occupational and Health Administration            |
| MOV                 | Motor Operated Valve                              |
| MGD                 | Million Gallons per Day                           |
| NEC                 | National Electrical Code                          |
| PAG                 | Pima Association of Governments                   |
| PRV                 | Pressure Reducing Valve                           |
| RTA                 | Regional Transportation Authority                 |
| RTDN                | Regional Transportation Data Network              |
| SAVSARP             | Southern Avra Valley Storage and Recovery Project |
| SCADA               | Supervisory Control and Data Acquisition          |
| SHARP               | Southeast Houghton Area Recharge Project          |
| SHPS                | Snyder Hill Pump Station                          |
| TARP                | Tucson Airport Remediation Project                |
| TCE                 | Trichlorethylene                                  |
| TIP                 | Transportation Improvement Program                |
| USEPA               | United States Environmental Protection Agency     |
| WC                  | Water Column                                      |



[tucsonaz.gov/budget](http://tucsonaz.gov/budget)

