

# CIP SCHEDULE

FY 15 16

SEC

8

SUBJECT:  
**THE CAIN'S BALLROOM**

CATEGORY:  
**MUSIC**

TYPE:  
**MUSIC VENUE**

FY 15 16



This section of the document summarizes the departments' capital needs and provides funding and scheduling recommendations. The Capital Improvements Plan (CIP) ordinance adopted by the City Council includes the five-year schedule.

FILM | ART & CULTURE | MUSIC



## FISCAL YEARS 2016-2020 CAPITAL PLAN

In November of 2013, City of Tulsa voters approved the Improve Our Tulsa (IOT) capital improvements program which reauthorized the City's sales tax and general obligation bond funded capital programs. These programs will provide funding for projects during the FY15 to FY21 period with roughly \$564 million from an extension of a 1.1 percent sales tax to address citywide needs, as well as \$355 million provided from general obligation bonds to address street improvements. In FY16, the City will sell its third bond issue of \$95 million bringing total current bond appropriations to \$165 million. The shared Mayoral and City Council goal of continuing the commitment to improving the condition of our roadways and secondarily the need to provide funds for critical goals such as public safety, federal mandate, building code and short-term capital needs, and goals identified in PlaniTulsa were used to prioritize the allocation of the authorized \$918.7 million. The commitment of these resources will likely mean that any newly identified or unfunded capital improvement projects will not be funded until the conclusion of these programs.

Historically, the City of Tulsa has had an aggressive capital improvements program. The Third Penny Sales Tax program by itself has financed almost \$2.4 billion in needed projects over the last thirty years. That amount has been augmented by \$2.0 billion of additional general obligation and revenue bond dollars and millions more from federal grants and loans. In November of 2008, the City of Tulsa electorate approved a street improvement package totaling \$451.6 million. The program was comprised of \$285 million in General Obligation Bond proceeds and \$166.6 million in sales tax revenue which was derived from an extension of the third penny sales tax and a 0.167 percent increase. The program funded 128 arterial and residential street projects across the City. The bond portion of the program began in June 2009 with the \$11.1 million first issue and all subsequent issues totaling \$285 have now been completed. The 2006 Sales Tax program, approved in May of 2006, which provided \$465 million for capital projects throughout the City is in the final stage of implementation. All of the appropriations to fund these improvements are complete. Information about these programs is contained in the FY16 Capital Budget, Funded Programs Status, and Operating Impact (Section 6), of this document including a listing of the proposed funding for Fiscal Year 2016.

In the spring of 2009 and again in 2013, the City updated its Capital Improvement Project (CIP) policy and procedure. International City Managers Association (ICMA) and case study recommendations were reviewed with subsequent changes outlined in the following text. The updated policy requires departmental justification of expansion projects based on the project's potential return on investment (ROI), its potential leverage and linkages to other projects, and its contribution to the City's strategic initiatives. Additionally, all replacement and rehabilitation projects were ranked and placed in 4 distinct tiers based on their contribution to public safety, asset preservation, and core service provision. The highest priority tiered and expansion projects have been included in the Constrained Inventory of projects in Section 7. The remaining projects have been placed in the unpublished deferred unconstrained inventory of projects. A summary is on page 9 of this section. To more explicitly demonstrate the character of City spending allocations, a pie chart of the total recommended funding dedicated to the maintenance of the City's existing assets, which is defined as "renewal", in contrast to the allocation recommended for expansion or "growth" projects has been included on page 3 of this section. Additionally, the jointly identified Mayoral and City Council priorities have been added to individual projects in Section 7. These goals are identified and defined in Section 1 of the annual budget document.

# CAPITAL PLAN

## FIVE-YEAR LEVEL OF RECOMMENDED FUNDING BY DEPARTMENT

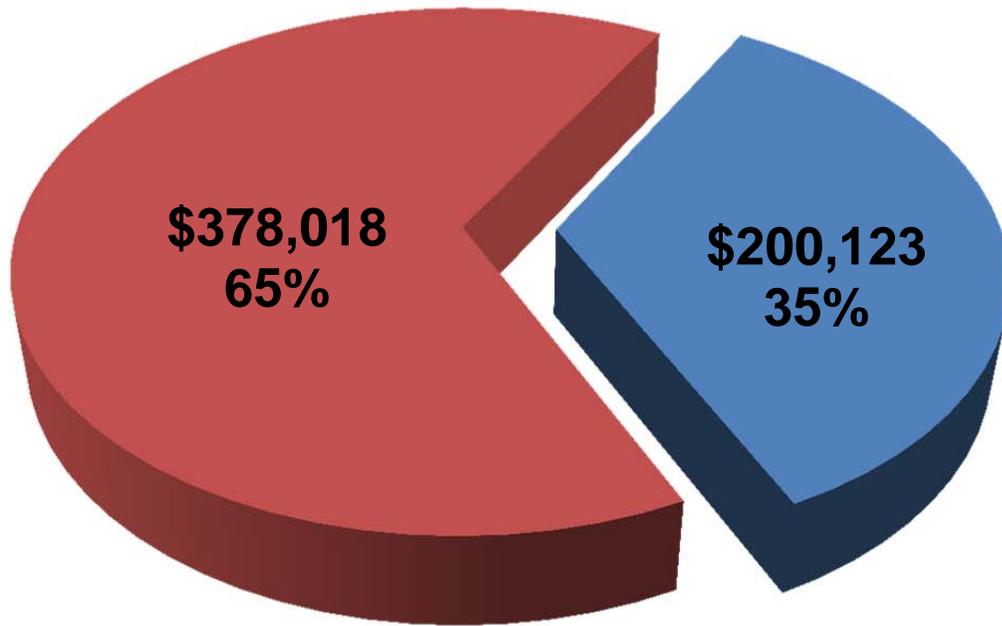
Fiscal Years 2016 – 2020

(amount expressed in thousands)

<b>Project Type</b>	<b>Constrained Requests</b>	<b>FY16-20 Recommended Funding</b>	<b>Inventory Percent Funding</b>	<b>Total Percent Funding</b>
Police Department Projects	\$ 3,382	\$ -	0%	0%
Fire Department Projects	38,887	-	0%	0%
<b>Total Public Safety and Protection</b>	<b>\$ 42,269</b>	<b>\$ -</b>	<b>0%</b>	<b>0%</b>
Park and Recreation Projects	19,916	-	0%	0%
Tulsa Zoo Projects	60,840	-	0%	0%
Gilcrease Museum Projects	60,382	-	0%	0%
Cox Business Center and BOK Center	49,876	-	0%	0%
Performing Arts Center	37,345	-	0%	0%
River Parks Projects	104,901	-	0%	0%
<b>Total Cultural Development and Recreation</b>	<b>\$ 333,260</b>	<b>\$ -</b>	<b>0%</b>	<b>0%</b>
Street and Expressway Projects	1,001,155	103,980	10%	18%
Water System Projects	1,607,870	223,180	14%	39%
Sanitary Sewer System Projects	550,763	230,481	42%	40%
Flood Control Projects	95,329	20,500	22%	4%
Facilities Maintenance Projects	165,666	-	0%	0%
<b>Total Public Works and Development</b>	<b>\$ 3,420,783</b>	<b>\$ 578,141</b>	<b>17%</b>	<b>100%</b>
Planning and Economic Development	33,330	-	0%	0%
Working In Neighborhoods (WIN)	5,846	-	0%	0%
<b>Total Social and Economic Development</b>	<b>\$ 39,176</b>	<b>\$ -</b>	<b>0%</b>	<b>0%</b>
Tulsa Transit Projects	4,940	-	0%	0%
<b>Total Transportation</b>	<b>\$ 4,940</b>	<b>\$ -</b>	<b>0%</b>	<b>0%</b>
Information Technology Department	7,895	-	0%	0%
Equipment Management Projects	5,600	-	0%	0%
<b>Total Administrative and Support Services</b>	<b>\$ 13,495</b>	<b>\$ -</b>	<b>0%</b>	<b>0%</b>
<b>Total of All Capital Project Types</b>	<b>\$ 3,853,923</b>	<b>\$ 578,141</b>	<b>15%</b>	<b>100%</b>

**FY 2016 - 2020**  
**RECOMMENDED CIP FUNDING**  
**RENEWAL VS. GROWTH**  
(\$000)

**\$578,141**



■ GROWTH ■ RENEWAL

# CAPITAL PLAN

## A SUMMARY OF THE CAPITAL BUDGET AND FIVE-YEAR CAPITAL PLAN

The following is a summary of all proposed, but unfunded capital expenditures for the next five years. It does not include project allocations in previously approved capital programs. *The amount shown does not include each department's funding from the approved 2014 Sales Tax Extension, 2014 General Obligation Bond Program, the 2008 Street Improvement Program, or the 2006 Sales Tax Extension. Information on the projects and appropriations for these programs is contained in Section 6. Due to the commitment of sales tax and bond proceeds to projects authorized in 2014, new or unfunded capital projects will likely not be funded until the conclusion of the Improve Our Tulsa program in 2021.*

<u>PROGRAM/DEPARTMENT</u>	<u>Proposed 5-Year Funding</u>
<b><u>PUBLIC SAFETY AND PROTECTION</u></b>	
<b>Police and E-911 Department</b>	<b>\$0 million</b>
The Police Department's highest priority is the renovation of the 911 Facility and its communications hardware.	
<b>Fire</b>	<b>\$0 million</b>
The Fire Department's highest priority is the replacement of its SCBA gear and Training Props for its recently completed Training Academy.	
<b>Total Public Safety and Protection</b>	
	<b>\$0 million</b>
<b><u>CULTURAL DEVELOPMENT AND RECREATION</u></b>	
<b>Park and Recreation Department</b>	<b>\$0 million</b>
The maintenance of the Park systems aging facilities is the Department's highest priority. Park system projects have been prioritized in the new Park's Master Plan and funding has been allocated toward its implementation.	
<b>Tulsa Zoo</b>	<b>\$0 million</b>
Implementation of the Zoo Master Plan is the highest priority.	
<b>Gilcrease Museum</b>	<b>\$0 million</b>
General rehabilitation of the facility, as well as funding a Master Plan Study for future development and expansion remain the Gilcrease's highest priorities.	
<b>Cox Business Center and BOK Center</b>	<b>\$0 million</b>
Fire alarm systems at both the BOK Center and the Cox Business Center are the highest priorities. Additionally, both centers are in need of general facility rehabilitation and replacements; including electrical, security, and ADA improvements.	
<b>Performing Arts Center</b>	<b>\$0 million</b>
The highest priorities at the PAC are the replacement of the Chapman Music Hall ceiling, Doenges Theatre seating replacement and HVAC upgrades.	

# CAPITAL PLAN

<u>PROGRAM/DEPARTMENT</u>	<u>Proposed 5-Year Funding</u>
<p><b>River Parks</b></p> <p>The Authority's highest priorities continue to be the replacement of the low water dam and the expansion of the trail system further south to serve the rapidly growing south Tulsa area.</p>	<b>\$0 million</b>
<b>Total Cultural Development and Recreation</b>	<b>\$0 million</b>
<b><u>PUBLIC WORKS AND INFRASTRUCTURE</u></b>	
<p><b>Streets and Expressways</b></p> <p>One of the top priorities of the City continues to be arterial and residential street resurfacing. Funding to match ODOT eight year plan improvements and improvements identified in the Bicycle and Pedestrian Master Plan currently underway are a high priority.</p>	<b>\$104 million</b>
<p><b>Water</b></p> <p>The City is currently implementing the new IMG Water System Study, which identified the most critical needs in this area, such as protecting the Spavinaw watershed from pollution and the maintenance of the existing distribution system.</p>	<b>\$223 million</b>
<p><b>Sanitary Sewer</b></p> <p>Although the City completed all required projects to meet the consent orders issued in the late 1990's by State and Federal regulatory authorities, additional consent orders have been issued to eliminate recent isolated incidents of residential sewage overflows. Future OWRB Loan and Enterprise Fund resources will be dedicated to the completion of these consent orders, as well as the upkeep of existing assets.</p>	<b>\$230 million</b>
<p><b>Flood Control</b></p> <p>The continued implementation of the Citywide Flood Control Plan is the highest priority. Floodplain acquisition, planning services for the Hazard Mitigation Program, and urgent small drainage improvements are identified as the highest priorities by the plan.</p>	<b>\$21 million</b>
<p><b>Facilities</b></p> <p>ADA improvements at public facilities are top priority. Additionally, sources of maintenance capital need to be identified as an inventory backlog of over \$100 million in roofing and facility maintenance needs exists.</p>	<b>\$0 million</b>
<b>Total Public Works and Infrastructure</b>	<b>\$578 million</b>
<b><u>SOCIAL AND ECONOMIC DEVELOPMENT</u></b>	
<p><b>Planning and Development</b></p> <p>Planning and Development will continue to pursue application of the Comprehensive Plan through the initial steps of implementing several small area plans.</p>	<b>\$0 million</b>

# CAPITAL PLAN

<u>PROGRAM/DEPARTMENT</u>	<u>Proposed 5-Year Funding</u>
<p><b>Working In Neighborhoods (WIN)</b></p> <p>The Animal Shelter’s highest priority is completing the remaining phases of the shelter expansion. This expansion would focus on adoption and community outreach program spaces.</p>	<b>\$0 million</b>
<b>Total Social and Economic Development</b>	<b>\$0 million</b>
<p><b>Metropolitan Tulsa Transit Authority Projects (MTTA)</b></p> <p>MTTA’s highest priorities are the continued replacement of its fleet, the acquisition of an ITS system, and the construction of additional passenger shelters.</p>	<b>\$0 million</b>
<b>Total Transportation</b>	<b>\$0 million</b>
<b><u>ADMINISTRATIVE AND SUPPORT SERVICES</u></b>	
<p><b>Information Technology</b></p> <p>The Information Technology Department’s highest priority is the replacement and upgrade of the City’s Radio System, which serves the City’s Public Safety, Streets, and Enterprise Departments; as well as many other cross-jurisdictional Public Safety Units.</p>	<b>\$0 million</b>
<p><b>Asset Management Projects</b></p> <p>AMD’s top priorities include the modification of existing maintenance facilities to perform CNG repairs, as well as expanding the City’s Compressed Natural Gas Fleet Fueling Infrastructure, and the replacement of one underground fuel tank.</p>	<b>\$0 million</b>
<b>Total Administrative and Support Services</b>	<b>\$0 million</b>
<b><u>TOTAL PROPOSED FIVE-YEAR FUNDING PROGRAM</u></b>	<b>\$578 million</b>

# CAPITAL PLAN

## CITY OF TULSA

### FISCAL YEARS 2016-2020 CAPITAL IMPROVEMENTS FUNDING SCHEDULE

#### SUMMARY OF HIGH PRIORITY FUNDING REQUESTS BY DEPARTMENT

Prepared by the Department of Finance in Collaboration with the Operating Departments

All Dollars in Thousands

Project Type	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
Police Department Projects	\$ 3,382	\$ -	\$ -	\$ -	\$ -	\$ -	-
Fire Department Projects	38,887	-	-	-	-	-	-
<b>Total Public Safety and Protection</b>	<b>\$ 42,269</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
Park and Recreation Department Projects	19,916	-	-	-	-	-	-
Tulsa Zoo Projects	60,840	-	-	-	-	-	-
Gilcrease Museum Projects	60,382	-	-	-	-	-	-
CBC/BOK Projects	49,876	-	-	-	-	-	-
Performing Arts Center Projects	37,345	-	-	-	-	-	-
River Parks Projects	104,901	-	-	-	-	-	-
<b>Total Cultural Development and Recreation</b>	<b>\$ 333,260</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
Street and Expressway Projects	1,001,155	-	-	-	-	103,980	103,980
Water System Projects	1,607,870	42,790	44,840	42,550	62,820	30,180	223,180
Sanitary Sewer System Projects	550,763	47,908	49,153	30,973	48,417	54,030	230,481
Flood Control Projects	95,329	5,000	5,000	3,500	3,500	3,500	20,500
Facilities Maintenance Projects	165,666	-	-	-	-	-	-
<b>Total Public Works</b>	<b>\$ 3,420,783</b>	<b>\$ 95,698</b>	<b>\$ 98,993</b>	<b>\$ 77,023</b>	<b>\$ 114,737</b>	<b>\$ 191,690</b>	<b>\$ 578,141</b>
Planning and Economic Development	33,330	-	-	-	-	-	-
Working In Neighborhoods (WIN)	5,846	-	-	-	-	-	-
<b>Total Social and Economic Development</b>	<b>\$ 39,176</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
Metropolitan Tulsa Transit Authority Projects	4,940	-	-	-	-	-	-
<b>Total Transportation</b>	<b>\$ 4,940</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
Information Technology Department	7,895	-	-	-	-	-	-
Equipment Management Projects	5,600	-	-	-	-	-	-
<b>Total Administrative and Support</b>	<b>\$ 13,495</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>-</b>
<b>Total of All Capital Project Types</b>	<b>\$ 3,853,923</b>	<b>\$ 95,698</b>	<b>\$ 98,993</b>	<b>\$ 77,023</b>	<b>\$ 114,737</b>	<b>\$ 191,690</b>	<b>\$ 578,141</b>

Amounts shown do not reflect the value of the Capital Inventory. Dollars reflect the estimated cost of those projects needed in the next five years.

# CAPITAL PLAN

**CITY OF TULSA**  
**FISCAL YEARS 2016-2020 CAPITAL IMPROVEMENTS FUNDING SCHEDULE**  
**SUMMARY OF FUNDING REQUESTS BY FUNDING SOURCE \***

Prepared by the Department of Finance in Collaboration with the Operating Departments  
(amount expressed in thousands)

<u>Funding Source</u>	<u>Est. Cost</u>	<u>FY16</u>	<u>FY17</u>	<u>FY18</u>	<u>FY19</u>	<u>FY20</u>	<u>Total</u>
Future Bond Program	\$ 625,385	\$ -	\$ -	\$ -	\$ -	\$ 103,980	\$ 103,980
Future Sales Tax Program	-	-	-	-	-	-	-
Water Enterprise	693,100	25,350	23,140	17,600	19,800	19,380	105,270
Water Revenue Bond	914,770	17,440	21,700	24,950	43,020	10,800	117,910
Sewer Enterprise	177,156	9,541	11,737	15,180	19,265	24,199	79,922
State Sewer Loan Program	373,607	38,367	37,416	15,793	29,152	29,831	150,559
Storm Sewer Enterprise	54,250	5,000	5,000	3,500	3,500	3,500	20,500
Deferred Funding	1,015,655	-	-	-	-	-	-
<b>Total Funding by Source</b>	<b>\$ 3,853,923</b>	<b>\$ 95,698</b>	<b>\$ 98,993</b>	<b>\$ 77,023</b>	<b>\$ 114,737</b>	<b>\$ 191,690</b>	<b>\$ 578,141</b>

\* Other Funding Sources: Existing Sales Tax Programs; Golf Course Fees; Tax Increment Financing; Equipment Management Fund; Special Purpose Revenue Bonds; and Private Matching Funding.

Amounts shown do not reflect the value of the Capital Inventory. Dollars reflect the estimated cost of those projects needed in the next five years.

# CAPITAL PLAN

## CONSTRAINED VERSUS UNCONSTRAINED INVENTORY BY DEPARTMENT

Fiscal years 2016 – 2020  
(All Dollars in Thousands)

<b>Project Type</b>	<b>Constrained Inventory</b>	<b>Unconstrained Inventory</b>	<b>Total</b>
Police Department Projects	\$ 3,382	\$ 25,500	\$ 28,882
Fire Department Projects	38,887	31,311	70,198
<b>Total Public Safety and Protection</b>	<b>\$ 42,269</b>	<b>\$ 56,811</b>	<b>\$ 99,080</b>
Park and Recreation Projects	19,916	79,986	99,902
Tulsa Zoo Projects	60,840	-	60,840
Gilcrease Museum Projects	60,382	-	60,382
Cox Business Center and BOK Center	49,876	3,525	53,401
Performing Arts Center	37,345	-	37,345
River Parks Projects	104,901	900	105,801
<b>Total Cultural Development and Recreation</b>	<b>\$ 333,260</b>	<b>\$ 84,411</b>	<b>\$ 417,671</b>
Street and Expressway Projects	1,001,155	1,842,405	2,843,560
Water System Projects	1,607,870	1,401,580	3,009,450
Sanitary Sewer System Projects	550,763	737,613	1,288,376
Flood Control Projects	95,329	300,285	395,614
Facilities Maintenance Projects	165,666	314,298	479,964
<b>Total Public Works and Development</b>	<b>\$ 3,420,783</b>	<b>\$ 4,596,181</b>	<b>\$ 8,016,964</b>
Planning and Economic Development	33,330	692,199	725,529
Working In Neighborhoods (WIN)	5,846	-	5,846
<b>Total Social and Economic Development</b>	<b>\$ 39,176</b>	<b>\$ 692,199</b>	<b>\$ 731,375</b>
Tulsa Transit Projects	4,940	-	4,940
<b>Total Transportation</b>	<b>\$ 4,940</b>	<b>\$ -</b>	<b>\$ 4,940</b>
Information Technology Department	7,895	36,250	44,145
Equipment Management Projects	5,600	32,500	38,100
<b>Total Administrative and Support Services</b>	<b>\$ 13,495</b>	<b>\$ 68,750</b>	<b>\$ 82,245</b>
<b>Total of All Capital Project Types</b>	<b>\$ 3,853,923</b>	<b>\$ 5,498,352</b>	<b>\$ 9,352,275</b>

CITY OF TULSA  
**FISCAL YEARS 2016-2020 CAPITAL IMPROVEMENTS FUNDING SCHEDULE**  
 Prepared by the Department of Finance in Collaboration with the Operating Departments  
**All Dollars In Thousands. Projects Shown in Boldface Type are New Requests**  
 Priority Indicated Represents Department's Rating

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
<b>PUBLIC SAFETY &amp; PROTECTION</b>								
<b>Police Department</b>								
1	Future Unfunded Projects	3,382						-
	<b>Total Police Department Projects</b>	<b>\$ 3,382</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Fire Department</b>								
2	Future Unfunded Projects	38,887						-
	<b>Total Fire Department Projects</b>	<b>\$ 38,887</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>TOTAL PUBLIC SAFETY AND PROTECTION PROJECTS</b>								
		<b>\$ 42,269</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>CULTURAL DEVELOPMENT &amp; RECREATION</b>								
<b>Park And Recreation Department</b>								
3	Future Unfunded Projects	19,916						-
	<b>Total Parks And Recreation Department Projects</b>	<b>\$ 19,916</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Tulsa Zoo</b>								
4	Future Unfunded Projects	60,840						-
	<b>Total Zoo Projects</b>	<b>\$ 60,840</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Gilcrease Museum</b>								
5	Future Unfunded Projects	60,382						-
	<b>Total Gilcrease Projects</b>	<b>\$ 60,382</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Convention Center</b>								
6	Future Unfunded Projects	49,876						-
	<b>Total Convention Center</b>	<b>\$ 49,876</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>Performing Arts Center Department</b>								
7	Future Unfunded Projects	37,345						-
	<b>Total Performing Arts Center Department Projects</b>	<b>\$ 37,345</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>River Parks</b>								
8	Future Unfunded Projects	104,901						-
	<b>Total River Parks Projects</b>	<b>\$ 104,901</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>TOTAL CULTURAL DEVELOPMENT &amp; RECREATION PROJECTS</b>								
		<b>\$ 333,260</b>	<b>\$ -</b>	<b>\$ -</b>				
<b>PUBLIC WORKS AND INFRASTRUCTURE</b>								
<b>Expressways, Streets, Bridges And Trails Projects</b>								
9	Gilcrease Expressway Local Match (20% of Total)	59,715					1,500	1,500
10	City Match For Federal, State Or County Projects (Ongoing)	7,000					1,400	1,400
11	ADA Improvements - Citywide (Roadways)	68,670					3,080	3,080
12	Bridge Replacement Citywide (Ongoing)	17,000					3,400	3,400
13	Bridge Rehabilitation/Repair, Citywide (Ongoing)	3,000					600	600
	<b>Total Express, Streets, Bridges, Trails</b>	<b>\$ 155,385</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,980</b>	<b>\$ 9,980</b>
<b>Major Rehabilitation</b>								
14	Arterial Street Rehabilitation Including Routine and Preventative (PCI 65 By 2020) (Ongoing)	195,000					39,000	39,000
15	Residential Street Rehabilitation Including Routine and Preventative (PCI 65 By 2020) (Ongoing)	275,000					55,000	55,000
16	Future Unfunded Projects	375,770						-
	<b>Total Major Rehabilitation</b>	<b>\$ 845,770</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 94,000</b>	<b>\$ 94,000</b>
	<b>Total Streets And Expressway Projects</b>	<b>\$ 1,001,155</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 103,980</b>	<b>\$ 103,980</b>
<b>Water System</b>								
<b>Supply</b>								
17	Raw Water Flowlines Repairs- Spavinaw/Oologah	76,250		750		800		1,550
	Raw Water Flowlines Repairs- Spavinaw/Oologah	3,000	1,000		2,000		900	3,900
18	Oologah Pump Station Rehabilitation	2,000	1,000					1,000

CITY OF TULSA  
**FISCAL YEARS 2016-2020 CAPITAL IMPROVEMENTS FUNDING SCHEDULE**  
 Prepared by the Department of Finance in Collaboration with the Operating Departments  
 All Dollars In Thousands. Projects Shown in Boldface Type are New Requests  
 Priority Indicated Represents Department's Rating

Funding Source	Priority		Comments	Ref.
	FY16	FY15		
<b>PUBLIC SAFETY &amp; PROTECTION</b>				
<b>Police Department</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	1
<b>Fire Department</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	2
<b>CULTURAL DEVELOPMENT &amp; RECREATION</b>				
<b>Park And Recreation Department</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	3
<b>Tulsa Zoo</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	4
<b>Gilcrease Museum</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	5
<b>Convention Center</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	6
<b>Performing Arts Center Department</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	7
<b>River Parks</b>				
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	8
<b>PUBLIC WORKS AND INFRASTRUCTURE</b>				
<b><u>Expressways, Streets, Bridges And Trails Projects</u></b>				
Future Bond Program	High	High	Provide local match for Gilcrease construction grants.	9
Future Bond Program	High	High	Provide matching funds for Federal and ODOT programs such as STP (Gilcrease Expressway), TIGER Grants, TCSP, Safe Routes to Schools, the Transportation Enhancement Program, Railway improvements, Scenic Byways and other funding opportunities for the next 20 years. The 5-year projected need for local matching funds is \$22 million, assuming that these Federal grant programs are continually reauthorized. This amount is based on current availability of Federal and State grant funding.	10
Future Bond Program	High	High	Improve accessibility for disabled citizens of Tulsa at various identified locations citywide by improving sidewalks, curb ramps and signalized intersections to minimum Americans with Disabilities Act (ADA) standards.	11
Future Bond Program	High	High	Replace functionally obsolete, structurally deficient and or load posted bridges citywide.	12
Future Bond Program	High	High	Provide major repairs to functional bridges in the City of Tulsa to stop deterioration.	13
<b><u>Major Rehabilitation</u></b>				
Future Bond Program	High	High	Perform necessary rehabilitation on arterial streets as indicated through the Pavement Management System.	14
Future Bond Program	High	High	Perform necessary rehabilitation on non-arterial streets as indicated through the Pavement Management System.	15
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	16
<b><u>Water System Supply</u></b>				
Water Enterprise	High	High	Ongoing projects to assess, rehabilitate, and repair raw water flowlines and associated facilities.	17
Water Revenue Bond	High	High	Ongoing projects to assess, rehabilitate, and repair raw water flowlines and associated facilities.	18
Water Enterprise	High	High	Rehabilitation of the Oologah Pump Station. Including mechanical, structural and electrical improvements.	18

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
19	Oologah Flowlines Capacity Increase (Modify Bird Creek Spavinaw/Oologah Inter-connect)	5,500				5,500		5,500
	Oologah Flowlines Capacity Increase (Modify Bird Creek Spavinaw/Oologah Inter-connect)	3,450		1,000	2,450			3,450
20	Lynn Lane and Yahola Terminal Storage Repair	3,350	1,000			200	900	2,100
21	Source Water Protection and Management Program	72,820	710	730	750	780	800	3,770
22	Eucha, Spavinaw Water Quality Court Master	56,050	550	560	580	600	610	2,900
23	Eucha Dam Rehabilitation	20,900		900	10,000	10,000		20,900
	Eucha Dam Rehabilitation	1,500	1,500					1,500
25	Spavinaw Pump Station Rehabilitation	9,800				120	1080	1,200
25	Mohawk Pump Stations 1 & 2 Rehabilitation	13,280				90	810	900
26	Bird Creek No. 1 Pump Station Refurbishment	3,930					30	30
27	Canyon Lake Pump Station Refurbishment	4,590					50	50
	<b>Total Supply</b>	<b>\$ 276,420</b>	<b>\$ 5,760</b>	<b>\$ 3,940</b>	<b>\$ 15,780</b>	<b>\$ 18,090</b>	<b>\$ 5,180</b>	<b>\$ 48,750</b>
	<b>Treatment &amp; Pumping</b>							
28	Mohawk WTP Upgrade Raw Water Pumping Station	7,500	900				100	1,000
29	Mohawk WTP HSPS Rehabilitation and Improvements	7,000	500		1,200		200	1,900
	Mohawk WTP HSPS Rehabilitation and Improvements	1,200		1,200				1,200
30	Mohawk WTP Structural / Architectural Rehabilitation and Repairs	2,600	100	100	100	100	100	500
31	Mohawk WTP Upgrade/replacement of existing proprietary I&C/SCADA System.	4,180					1400	1,400
	Mohawk WTP Upgrade/replacement of existing proprietary I&C/SCADA System.	600			200	400		600
32	Mohawk WTP Physical Security Improvements	2,650	100	100				200
33	Mohawk WTP New Emergency Generator Equipment	4,500	150	450				600
34	Mohawk WTP Maintenance Capital Improvements	35,950	120	120	120	120	120	600
35	A.B. Jewell New Control Room Building and Mechanical HVAC Only	1,000	1,000					1,000
36	A.B. Jewell Capacity Expansion to 150 MGD	29,200				1,200	2000	3,200
37	A.B. Jewell WTP Clarifier Upgrades/Rehabilitation	22,300		7,200		7,300		14,500
38	A.B. Jewell Chemical Feed Facilities Improvements	2,900				500		500
39	A.B. Jewell WTP Replace East Clearwell West Clearwell Valves & Curtain Wall	300		3,000				3,000
	A.B. Jewell WTP Replace East Clearwell West Clearwell Valves & Curtain Wall	4,500	300		1,000			1,300
40	A.B. Jewell WTP Residuals Handling, Thickening and Dewatering Improvements	4,850		3,000				3,000
	A.B. Jewell WTP Residuals Handling, Thickening and Dewatering Improvements	2,300			300	2,000		2,300
41	A.B. Jewell WTP Instrumentation & Control - SCADA System	3,710	900			10	10	920
	A.B. Jewell WTP Instrumentation & Control - SCADA System	900		900				900

<u>Funding Source</u>	<u>FY16</u>	<u>FY15</u>	<u>Comments</u>	<u>Ref.</u>
Water Enterprise	High	High	Complete piping modifications at the Bird Creek pump station to allow transfer of Oologah water to Mohawk WTP and Spavinaw water to AB Jewel WTP, install new 48-inch to parallel existing Oologah 42-inch from Bird Creek Pump Station to 1.5 miles east to connect to the Oologah 72-inch flowline. Connection will increase the Oologah flowline capacity to 125 MGD.	19
Water Revenue Bond	High	High	Complete piping modifications at the Bird Creek pump station to allow transfer of Oologah water to Mohawk WTP and Spavinaw water to AB Jewel WTP, install new 48-inch to parallel existing Oologah 42-inch from Bird Creek Pump Station to 1.5 miles east to connect to the Oologah 72-inch flowline. Connection will increase the Oologah flowline capacity to 125 MGD.	
Water Enterprise	High	High	Rehabilitation and repair of the Lynn Lane reservoir and drainage channel improvements to address OWRB requirements.	20
Water Enterprise	High	High	Ongoing program to protect and preserve the quality and integrity of the City's water supply, implement TMUA Policy for Land Acquisition, monitor water quality in the Spavinaw/Eucha and Oologah watersheds, identify and mitigate encroachments to the Spavinaw and Oologah flowlines, protect city assets and landowner rights, maintain water system security and provide surveying (as required) along the flowlines.	21
Water Enterprise	High	High	Implementation of the Court Master Agreement for the Spavinaw/Eucha watershed.	22
Water Revenue Bond	High	High	Rehabilitation and repair of the Eucha Dam and surface facilities to meet OWRB dam safety requirements.	23
Water Enterprise	High	High	Rehabilitation and repair of the Eucha Dam and surface facilities to meet OWRB dam safety requirements.	
Water Enterprise	High	High	Rehabilitation of the Spavinaw Pump Station to include butterfly valve replacement.	25
Water Enterprise	High	High	Replace roof on Mohawk Pump Station No. 2.	25
Water Enterprise	High	High	Rehabilitation of the Bird Creek No. 1 Pump Station pumps, motors and drives.	26
Water Enterprise	High	High	Rehabilitation of the Canyon Lake Pump Station pumps, motors and drives.	27
<b><u>Treatment &amp; Pumping</u></b>				
Water Enterprise	High	High	Provide a building to enclose, protect and ventilate/cool pumping equipment. Detailed evaluation of hydraulic limitations. Install anti-vortex devices. Periodic rebuilding and maintenance of existing pumping equipment including pumps, motors and valves.	28
Water Enterprise	High	High	Detailed evaluation of VFD requirements; Replace one (1) 60-Inch Check Valve; Replace one (1) 30-inch and one (1) 36-inch isolation valve; Install two (2) New VFDs on Pump 9-P-6 & 9-P-10 with new motors.	29
Water Revenue Bond	High	High	Detailed evaluation of VFD requirements; Replace one (1) 60-Inch Check Valve; Replace one (1) 30-inch and one (1) 36-inch isolation valve; Install two (2) New VFDs on Pump 9-P-6 & 9-P-10 with new motors.	
Water Enterprise	High	High	Repair cracks in concrete walls and slabs with epoxy injection; Patch spalls, scaling and pop outs in the concrete walls and floors; Re-point veneer brick joints and clean brick surfaces; General pressure cleaning and repainting of CMU walls; Replace the joint material, the sealant and water stops at concrete joints; Seal cracks in CMU with epoxy injection; Clean efflorescence at concrete joints and pipe penetrations; Repair or replace the existing window frames with gaps in chemical building.	30
Water Revenue Bond	High	High	Convert the existing DCS control system hardware to a PLC-based control system .	31
Water Enterprise	High	High	Convert the existing DCS control system hardware to a PLC-based control system .	
Water Enterprise	High	High	Physical Security Improvements and upgrades, including video surveillance, security fence, motion detectors and other detection systems.	32
Water Enterprise	High	High	Expanded and improved standby power generator if two separate metered utility sources can not be obtained from PSO. Provide ability to pump and treat up to 30 MGD in the event PSO power is lost.	33
Water Enterprise	High	High	Ongoing program (existing TMUA CIP).	34
Water Revenue Bond	High	High	Construct new ABJ Control Room above the North end of the upper Filter gallery. Costs to not include new SCADA or I&C equipment.	35
Water Enterprise	High	High	Provide a firm treatment capacity of 150 MGD, including new raw water junction chamber.	36
Water Revenue Bond	High	High	Clarifier upgrades include retrofitting each existing basin to increase capacity to 40 MGD. Replacement of existing rapid mix, flocculation, and sludge collection equipment is included, as well as new inclined plate settlers equipment in each basin. Baffle upgrades, valve and gate replacements are also included.	37
Water Enterprise	High	High	Facilities identified for rehabilitation or replacement by EMA study. Includes PAC slurry system, chlorine system, chlorine scrubbers, and various chemical storage tanks and feed systems. Replace obsolete PAC with Silo style storage located closer to point of application; Upgrade chemical feed systems to coordinate with 30 MGD expansion.	38
Water Revenue Bond	High	High	Replace East Clearwell including influent valves; cross-over valves; perimeter drain system; pressure relief system; and eliminate roof penetrations where possible.	39
Water Enterprise	High	High	Replace East Clearwell including influent valves; cross-over valves; perimeter drain system; pressure relief system; and eliminate roof penetrations where possible.	
Water Revenue Bond	High	High	Add at least two additional thickeners; new backwash waste water equalization tanks; upgrades to sludge pump station #1 and #2; modify belt filter press (BFP) sump drainage system piping; Provide increased capacity for production increases.	40
Water Enterprise	High	High	Add at least two additional thickeners; new backwash waste water equalization tanks; upgrades to sludge pump station #1 and #2; modify belt filter press (BFP) sump drainage system piping; Provide increased capacity for production increases.	
Water Enterprise	High	High	Design, programming and installation of a new PLC based SCADA system for the plant processes. Upgraded fiber optic backbone to handle SCADA, security, and additional monitoring and control of plant processes not currently integrated to the network. Integrate HSPS pump controls and sensors into SCADA; Integrate 30 MGD expansion equipment into SCADA.	41
Water Revenue Bond	High	High	Design, programming and installation of a new PLC based SCADA system for the plant processes. Upgraded fiber optic backbone to handle SCADA, security, and additional monitoring and control of plant processes not currently integrated to the network. Integrate HSPS pump controls and sensors into SCADA; Integrate 30 MGD expansion equipment into SCADA.	

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
42	A.B. Jewell WTP Electrical - Upgrade TMUA-owned medium voltage switchgear	1,400	300		200		200	700
43	A.B. Jewell WTP Physical Security Improvements	2,750		100		50		150
44	A.B. Jewell WTP New Emergency Generator Equipment	2,550		500				500
45	A.B. Jewell WTP Maintenance Capital Improvements	40,950	250	250	250	250	250	1,250
<b>Total Treatment And Pumping</b>		<b>\$ 185,790</b>	<b>\$ 4,620</b>	<b>\$ 16,920</b>	<b>\$ 3,370</b>	<b>\$ 11,930</b>	<b>\$ 4,380</b>	<b>\$ 41,220</b>
<b>Transmission &amp; Distribution</b>								
46	Water Line Relocations-Citywide	52,000	750	800	800	850	850	4,050
47	Water Mains Replacements - City Wide	787,600	13,800	4,500	1,000	6,000	4,200	29,500
	Water Mains Replacements - City Wide	50,800	8,300	4,700	7,000	1,000	800	21,800
48	Water Mains Replacements - Less than 6-inch	19,000	2,500	4,000	2,500	500		9,500
	Water Mains Replacements - Less than 6-inch	26,500				3,500	2,500	6,000
49	Central Bus.Dist. Water Main Replacement	4,550	350	350	350	350	350	1,750
50	Dead-End Distribution Mains Connections	4,900	2,200	350	350	350	350	3,600
51	Water Vault & Large Meter Upgrades	1,000	200		200		200	600
52	Transmission Main from A.B. Jewell - Phase 1	48,100	300	700				1,000
53	Unserved Areas	2,200		100		100		200
54	Water Tanks - Repaint/Rehabilitation	87,000		3,000		3,000		6,000
55	Large Water Valve Replacement-City Wide	1,300	100	100	100	100	100	500
56	Economic Development Water Infrastructure	300	100		100		100	300
57	Cherokee Waterlines	18,720			9,500	9,220		18,720
58	Northwest Tulsa Secondary Service Area	16,000				7,000		7,000
	Northwest Tulsa Secondary Service Area	700			700			700
59	Utility Bridges - Repaint/Rehabilitation	1,500	100	100	100	100	100	500
60	Water Distribution Security Enhancements	450	150				300	450
61	Secondary System Upgrades - Tulsa 2 Service Area	1,100	100	1,000				1,100
62	23rd and Jackson Facilities Maintenance and Improvements	1,000	750	250				1,000
63	Automatic Meter Reading - City Wide	3,300	300		500		500	1,300
64	Berry Hill Waterline Extension	4,600	100	1,000			3,500	4,600
65	Okmulgee #6 and Bixby Connection Improvements	3,870				430	3,870	4,300
66	Spunky Creek Waterline	1,800					1,800	1,800
	Spunky Creek Waterline	200				200		200
67	Nickel Creek Waterline	1,000				100	900	1,000
68	Transmission Line Condition Assessment	600	200		200		200	600
69	W. 23rd St. 16" Transmission Line Rehabilitation	1,350	150	1,200				1,350
70	W. 23rd St. 12" Waterline Installation	850	100	750				850
71	Pump Station Rehabilitation (Reservoir Hill PS and SSS-PS)	1,200	120	1,080				1,200
72	South Side Secondary Pump Station Improvements	100	100					100

<b>Funding Source</b>	<b>FY16</b>	<b>FY15</b>	<b>Comments</b>	<b>Ref.</b>
Water Enterprise	High	High	Reconfigure automatic transfer switch for two independent power sources; Replace 13.2 KV Distribution switchgear; Install transient voltage surge suppression for added protection of VFDs and sensitive electrical equipment.	42
Water Enterprise	High	High	Physical Security Improvements and upgrades, including video surveillance, security fence, motion detectors and other detection systems.	43
Water Enterprise	High	High	Expanded and improved Standby power generator. Provide ability to pump and treat up to 30 MGD in the event PSO power is lost.	44
Water Enterprise	High	High	Ongoing program - End of service life improvements as identified in the EMA study. Current needs include: rehabilitation of main switchgear building and switches, main circuit breakers, main transformer, and associated controllers; rehabilitate of raw water junction chamber including pumps, valves, and screens; rehabilitate of filter control systems; replace backwash pumps; correct ponding on clearwell roofs; install cranes to facilitate maintenance; provide equipment storage, and evaluate plant yard piping.	45
<b>Transmission &amp; Distribution</b>				
Water Enterprise	High	High	Provide funding for ongoing program to relocate water lines associated with other City improvement projects.	46
Water Revenue Bond	High	High	Replace water lines that meet the replacement criteria and/or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	47
Water Enterprise	High	High	Replace water lines that meet the replacement criteria and/or have excessive break histories. Priorities will be determined based on line condition, age, type of materials, and coordination with other infrastructure improvements in the area to maximize efficiency and minimize the impact to customers and businesses.	
Water Enterprise	High	High	Replace all waterline that are less than 6-inch in diameter on an established schedule to improve service and provide fire protection. The City currently has approximately 124 miles of 2-inch and smaller lines in service.	48
Water Revenue Bond	High	High	Replace all waterline that are less than 6-inch in diameter on an established schedule to improve service and provide fire protection. The City currently has approximately 124 miles of 2-inch and smaller lines in service.	
Water Enterprise	High	High	Replace waterlines in the Central Business District.	49
Water Enterprise	High	High	Elimination of dead end mains.	50
Water Enterprise	High	High	Ongoing program to replace water meters citywide to support revenue assurance policies.	51
Water Enterprise	High	High	Construct large waterline from AB Jewell to 51st St. and 129th East Ave.	52
Water Enterprise	High	High	Provide water service to unserved, developed areas in response to citizen petitions.	53
Water Enterprise	High	High	Program to maintain and rehabilitate above ground treated water storage tanks. Funding may also be used to modify tanks to improve circulation for chloramine disinfection.	54
Water Enterprise	High	High	Replace large water valves throughout water system.	55
Water Enterprise	High	High	Provide capital funding to assist economic development and coordinate with other City Departments.	56
Water Revenue Bond	High	High	Construct waterline to increase transmission and distribution capacity in North Tulsa and Cherokee Industrial Park. First project consists of approximately 5 miles of large diameter water line to serve current maximum day demands. Preliminary design is completed and final design and right-of-way acquisition are underway. Second phase of the project includes 12-inch between Sheridan and Yale along 96th North, 12-inch between 96th and 106th North along Yale, and 24-inch from 66th North and Harvard to 106th North and Sheridan. 2012 Comprehensive Plan indicates Phase 1 will not be needed until 2020.	57
Water Revenue Bond	High	High	Secondary system to serve Northwest Area (Persimmon Ridge and Botanical Gardens). Future funding includes upgrades to primary distribution system and expansion of secondary system to serve the Northwest Area.	58
Water Enterprise	High	High	Secondary system to serve Northwest Area (Persimmon Ridge and Botanical Gardens). Future funding includes upgrades to primary distribution system and expansion of secondary system to serve the Northwest Area.	
Water Enterprise	High	High	Program to maintain utility bridges.	59
Water Enterprise	High	High	Provide funding for ongoing security upgrades within the water distribution system.	60
Water Enterprise	High	High	Upgrade pump station and modify distribution system to improve service in the former Tulsa-2-area.	61
Water Enterprise	High	High	Ongoing program to maintain City-owned facilities located at 23rd and Jackson.	62
Water Enterprise	High	High	Install AMR at new meter installations.	63
Water Enterprise	High	High	New 12-inch along 49th and 65th West Avenue between 21st and 41st.	64
Water Enterprise	High	High	16-inch waterline West of Yale between 131st and 151st.	65
Water Revenue Bond	High	High	12-inch waterline East of AB Jewel plant.	66
Water Enterprise	High	High	12-inch waterline East of AB Jewel plant.	
Water Enterprise	High	High	12-inch waterline south west of Turkey Mountain.	67
Water Enterprise	High	High	Monitor and evaluate transmission lines citywide. Funding may also be used to modify and improve entry for testing and monitoring.	68
Water Enterprise	High	High	Rehabilitate 3,100 LF of 16-inch transmission along W. 23rd St between S. Jackson Ave and S. Rosedale Ave.	69
Water Enterprise	High	High	Install 2,200 LF 12-inch waterline along W. 23rd St. S. between S. Jackson Ave and Southwest Blvd.	70
Water Enterprise	High	High	Rehabilitation of the Reservoir Hill PS building and replacement of pumps and drives; piping modification and addition of a pump at the SSS-PS.	71
Water Enterprise	High	High	Improvements to South Side Secondary Pump Station's pumps and drives; the addition of a pump (east station); and adding an emergency generator.	72

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
73	Tulsa County Property - 56th & Garnett	1,640	1,640					1,640
	<b>Total Transmission And Distribution</b>	<b>\$ 1,145,660</b>	<b>\$ 32,410</b>	<b>\$ 23,980</b>	<b>\$ 23,400</b>	<b>\$ 32,800</b>	<b>\$ 20,620</b>	<b>\$ 133,210</b>
	<b>Total Water System Projects</b>	<b>\$ 1,607,870</b>	<b>\$ 42,790</b>	<b>\$ 44,840</b>	<b>\$ 42,550</b>	<b>\$ 62,820</b>	<b>\$ 30,180</b>	<b>\$ 223,180</b>
	<b>Sanitary Sewer System</b>							
	<b>Northside Plant</b>							
74	Apache Lift Station Screening Improvements, Access Road and other Upgrades	4,500	4,500					4,500
75	Northside Interceptor Lift Station Screening Improvements and Upgrades	3,650		3,300				3,300
76	SolidsThickening Study	175	175					175
77	Northside WWTP Flow Optimization and Process Modeling Study	265	265					265
78	NSWWTP Pasteurization System and Digester #5 Expansion	6,580	200					200
79	Northside WWTP Security and Safety Improvements	1,000	250	750				1,000
80	Northside Nitrification Improvements	3,000	3,000					3,000
	<b>Total Northside Plant</b>	<b>\$ 15,170</b>	<b>\$ 8,390</b>	<b>\$ 4,050</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>12,440</b>
	<b>Northside Collection System</b>							
81	Jones Creek Relief (91-N)	351		351				351
82	Coal Creek 30-N Relief	385			385			385
83	Northgate LS Relief	1,302	106		1,093			1,199
84	93-N Relief	5,838	469	498		4,871		5,838
85	Flatrock FEB Storage Enhancements	30,410				1,370	12,330	13,700
86	Flatrock West 9-N Relief	7,232			512			512
	Flatrock West 9-N Relief	544				544		544
87	Apach Lift Station Access Road	1,400	1,400					1,400
	<b>Total Northside Collection System</b>	<b>\$ 47,462</b>	<b>\$ 1,975</b>	<b>\$ 849</b>	<b>\$ 1,990</b>	<b>\$ 6,785</b>	<b>\$ 12,330</b>	<b>23,929</b>
	<b>Southside Plant</b>							
88	SS WWTP Concrete Protective Coatings	2,936	150	170	170	180	184	854
89	Southside WWTP System Odor Control Study	2,600	2,600					2,600
	Southside WWTP System Odor Control Study	1,975		225	1,750			1,975
90	Solids Facility Plan and Improvements	3,337		200			563	763
91	71st Street Dewatering Facility Improvements (Includes line numbers 79, 85 and 86)	4,800	4,400					4,400
92	Southside WWTP Influent Lift Station- Replace screens with fine screens	4,235	410	3,825				4,235
93	Southside WWTP Flow Optimization and Process Modeling Study	275	275					275
94	Southside Influent Lift Station Diversion to Cherry Creek Lift Station	907	100	807				907
	<b>Total Southside Plant</b>	<b>\$ 21,065</b>	<b>\$ 7,935</b>	<b>\$ 5,227</b>	<b>\$ 1,920</b>	<b>\$ 180</b>	<b>\$ 747</b>	<b>16,009</b>
	<b>Southside Collection System</b>							
95	Lafortune Park 18, 71-S Relief	2,587	2,393					2,393
96	West Tulsa 39, 40, 41-S Relief	24,528			300		1,600	1,900
97	Crow Creek 44-S Relief	1,700				1,700		1,700
	Crow Creek 44-S Relief	300	160	140				300
98	Crow Creek 62-S Relief	2,593					176	176
99	Joe-LaFortune 70-S Relief	3,222	220	219		2,783		3,222
	<b>Total Southside Collection System</b>	<b>\$ 34,930</b>	<b>\$ 2,773</b>	<b>\$ 359</b>	<b>\$ 300</b>	<b>\$ 4,483</b>	<b>\$ 1,776</b>	<b>9,691</b>

<b>Funding Source</b>	<b>FY16</b>	<b>FY15</b>	<b>Comments</b>	<b>Ref.</b>
Water Revenue Bond	High		Purchase vacated Tulsa County facility located at 56th Street South and South Garnett, for use of water administration.	73
<b>Sanitary Sewer System Northside Plant</b>				
State Sewer Loan Program	High	High	Replace large spaced bar screens with mechanical fine screens. Install variable frequency drives.	74
Sewer Enterprise	High	High	Place Rip Rap or other protection along Bird Creek to stop erosion of the adjacent sludge lagoon dike.	75
Sewer Enterprise	High	High	Evaluate existing DAF units and compare with cost of installing rotary drum thickeners (RDTs).	76
Sewer Enterprise	High	High	Replace existing variable frequency drive.	77
Sewer Enterprise	High	High	The Pasteurization Facility is operating at a reduced capacity and does not have redundancy. The expansion will provide redundancy and allow for higher sludge flows to be treated. This project will start in 2016.	78
Sewer Enterprise	High	High	Enclose the chlorine and sulfur dioxide storage and replace with non gas system	79
State Sewer Loan Program	High	High	Improve treatment process at the Northside WWTP. Replace final clarifiers launder covers. Replace mud valves, aeration train (AT) gate valves, waste pumps, and waste return pumps. Blower cooling jackets and bioslector mixers.	80
<b>Northside Collection System</b>				
State Sewer Loan Program	High	High	Provide additional capacity of Upper Mingo/Jones Creek Interceptor.	81
Sewer Enterprise	High	High	Post SSES rehab report: Provide additional capacity for Coal Creek 30-N and 94-N maintenance areas.	82
Sewer Enterprise	High	High	Construct 6,000 lf of 10-inch pipe to relieve the Northgate Lift Station.	83
Sewer Enterprise	High	High	Provide additional capacity to the interceptors serving area 93-N.	84
State Sewer Loan Program	High	High	Construct additional storage at the Flatrock FEB.	85
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	86
State Sewer Loan Program	High	High	Provide added capacity to overloaded lines.	
Sewer Enterprise	High	High	Raise access road.	87
<b>Southside Plant</b>				
Sewer Enterprise	High	High	Concrete structure repair due to H2S corrosion.	88
State Sewer Loan Program	High	High	Construct projects recommended in Odor Control Study. Top priorities are odor and corrosion protection for diversion structure at 53rd and Riverside, Kensington LS and force main, SSWWTP digester sludge transfer box, & 1st Street Dewatering facility, Intermediate Pump Station and upgrades of WWTP main odor control.	89
Sewer Enterprise	High	High	Construct projects recommended in Odor Control Study. Top priorities are odor and corrosion protection for diversion structure at 53rd and Riverside, Kensington LS and force main, SSWWTP digester sludge transfer box, & 1st Street Dewatering facility, Intermediate Pump Station and upgrades of WWTP main odor control.	
Sewer Enterprise	High	High	Modify existing dechlorination building to store new ferric chloride and polymer feed systems for Chemically Enhanced Primary Thickening. Construct rapid mix chamber for ferric chloride addition and polymer addition and mixing equipment to existing primary clarifier.	90
State Sewer Loan Program	High	High	Replace Mixing system in sludge holding tanks at dewatering facility. Replace chemical pumps and local controls for each press and polymer system.	91
Sewer Enterprise	High	High	Replace screens at Influent LS with fine screens to better protect the pumps.	92
Sewer Enterprise	High	High	Detailed biological modeling and computational fluid dynamic (CFD) modeling to determine the maximum amount of wet weather flow and biological load that can be treated through the WWTP.	93
Sewer Enterprise	High	High	Provide piping and valving off of the Southside influent lift station forcemain to provide connection to and allow bi-directional flow in the existing Cherry Creek lift station forcemain.	94
<b>Southside Collection System</b>				
Sewer Enterprise	High	High	Post SSES rehab report: Provide additional capacity to the Joe Creek/LaFortune Park area.	95
Sewer Enterprise	High	High	Provide additional capacity and rehab for the West Tulsa area. Original scope was for replacement of 10-inch line on surface. Scope and budget subject to SRP for SSOs in 39-S and 40-S.	96
State Sewer Loan Program	High	High	Provide added capacity to overloaded lines.	97
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	
State Sewer Loan Program	High	High	Provide added capacity to overloaded lines.	98
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	99

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
<b><u>Haikey Creek Plant</u></b>								
100	Haikey WWTP Primary Clarifier Addition	800			800			800
	Haikey WWTP Primary Clarifier Addition	7,800				7,800		7,800
101	Haikey WWTP Anaerobic Digester Addition	14,000					14,000	14,000
	Haikey WWTP Anaerobic Digester Addition	1,350				1,350		1,350
102	Activated Sludge Diffused Aeration	8,600	800	7,800				8,600
103	Haikey Crk Lift Station Improvements - Phase 2, 3 and 4	6,592		6,592				6,592
104	Haikey Crk Dewatering Facility	3,300					250	250
105	Haikey Crk Flow Equalization Basin Expansion	4,030	4,030					4,030
106	Grit Facility Rehabilitation	1,650		150	1,500			1,650
107	Haikey Crk SAMS Equipment Replacement	7,301	362	505	520	536	552	2,475
108	Haikey Creek Maintenance Building	400	40	360				400
<b>Total Haikey Creek Plant</b>		<b>\$ 55,823</b>	<b>\$ 5,232</b>	<b>\$ 15,407</b>	<b>\$ 2,820</b>	<b>\$ 9,686</b>	<b>\$ 14,802</b>	<b>\$ 47,947</b>
<b><u>Lower Bird Creek Plant</u></b>								
109	Excess Flow Line From LBCWWTP To Port South	4,399				4,399		4,399
	Excess Flow Line From LBCWWTP To Port South	1,100			1,100			1,100
110	Spunky Creek Grinder Addition	463	235					235
<b>Total Lower Bird Creek Plant</b>		<b>\$ 4,399</b>	<b>\$ 235</b>	<b>\$ -</b>	<b>\$ 1,100</b>	<b>\$ 4,399</b>	<b>\$ -</b>	<b>\$ 5,734</b>
<b><u>Lower Bird Creek Collection System</u></b>								
111	Rose Dew LS Relief	8,800	200	1,000				1,200
112	Catoosa Interceptor Relief	15,640	1,140					1,140
	Catoosa Interceptor Relief	1,170		1,170				1,170
113	Spunky Creek Main Stem South Contract 1	3,150		250	2,450			2,700
114	Spunky Creek Main Stem South Contract 2	21,950					1,599	1,599
<b>Total Lower Bird Creek Collection System</b>		<b>\$ 50,710</b>	<b>\$ 1,340</b>	<b>\$ 2,420</b>	<b>\$ 2,450</b>	<b>\$ -</b>	<b>\$ 1,599</b>	<b>\$ 7,809</b>
<b><u>Wastewater System Misc. Improvements</u></b>								
115	Resurface WWTP & Lift Stations Roadways & Parking	975	328	338				666
<b>Total Wastewater System Misc. Imp</b>		<b>\$ 975</b>	<b>\$ 328</b>	<b>\$ 338</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 666</b>
<b><u>Areawide Collection System</u></b>								
116	Sewer Rehab Area Wide	164,093	6,800	7,000	7,400	7,800		29,000
	Sewer Rehab Area Wide	8,000					8,000	8,000
117	Unsewered Areas Areawide	36,882	2,185	2,251	2,319	2,388		9,143
	Unsewered Areas Areawide	2,460					2,460	2,460
118	Concrete Pipe Replacement	37,173	4,152	4,277	4,405			12,834
	Concrete Pipe Replacement	9,211				4,537	4,674	9,211
119	Areawide Point Repairs	2,200			2,200			2,200
	Areawide Point Repairs	13,725	2,200	2,200		4,050	3,075	11,525
120	Lift Station Replacements or Upgrades	18,078	863			609	1067	2,539
	Lift Station Replacements or Upgrades	1,844		1,275	569			1,844
121	2008 Street Package - Sewer Rehab/Replacement	14,000	3,500	3,500		3,500		10,500
	2008 Street Package - Sewer Rehab/Replacement	7,000			3,500		3,500	7,000
<b>Total Areawide Collection System</b>		<b>\$ 314,666</b>	<b>\$ 19,700</b>	<b>\$ 20,503</b>	<b>\$ 20,393</b>	<b>\$ 22,884</b>	<b>\$ 22,776</b>	<b>\$ 106,256</b>
<b>Total Sanitary Sewer System Projects</b>		<b>\$ 550,763</b>	<b>\$ 47,908</b>	<b>\$ 49,153</b>	<b>\$ 30,973</b>	<b>\$ 48,417</b>	<b>\$ 54,030</b>	<b>\$ 230,481</b>

<b>Funding Source</b>	<b>FY16</b>	<b>FY15</b>	<b>Comments</b>	<b>Ref.</b>
<b><u>Haikey Creek Plant</u></b>				
Sewer Enterprise	High	High	Addition of primary clarifiers to increase plant capacity and improve sludge handling.	100
State Sewer Loan Program	High	High	Addition of primary clarifiers to increase plant capacity and improve sludge handling.	
State Sewer Loan Program	High	High	Addition of anaerobic digesters to improve sludge handling.	101
Sewer Enterprise	High	High	Addition of anaerobic digesters to improve sludge handling.	
State Sewer Loan Program	High	High	Installation of membrane disc diffused aeration in existing oxidation ditches plus new blower building, equipment, and piping.	102
State Sewer Loan Program	High	High	Multi-phase project to improve pumping and force main capacity. Costs are derived from the 2012 study (RMUA Project No. ES-2009-10). Phase 1 is complete and Phase 3 is covered under project HCT001. Phase 2 - New screening structure, screening equipment.	103
State Sewer Loan Program	High	High	Addition of 3rd belt press, electrical improvements, conveyor extension and improvement, and improvements to the air handling unit. Remove and replace polymer feed system, existing conveyor system, two sludge grinders, three BFP feed pumps, two belt presses.	104
State Sewer Loan Program	High	High	Expand flow equalization basin to a total capacity of 30 million gallons and expand plant effluent water pumping station.	105
Sewer Enterprise	High	High	Replace the influent bar screens and improve grit processing and headworks.	106
Sewer Enterprise	High	High	Output from the Strategic Asset Management System (SAMS) database indicates an annual recommended investment to support operational repair and replacement needs for the Haikey Creek WWTP.	107
Sewer Enterprise	High	High	Roof Replacement.	108
<b><u>Lower Bird Creek Plant</u></b>				
Sewer Enterprise	High	High	Addition of 48 inch gravity line to Port South to allow increase excess flow from LBCWWTP to discharge to Port South.	109
State Sewer Loan Program	High	High	Addition of 48 inch gravity line to Port South to allow increase excess flow from LBCWWTP to discharge to Port South.	
Sewer Enterprise	High	High	Addition of an in-channel grinder.	110
<b><u>Lower Bird Creek Collection System</u></b>				
State Sewer Loan Program	High	High	Provide sewer to unserved area around Lynn Lane and Rose Dew area. Relief of Rose Dew Lift Station.	111
Sewer Enterprise	High	High	Provide additional capacity. Provide relief line to add capacity adjacent to 30 inch Catoosa Main interceptor. North of 412.	112
State Sewer Loan Program	High	High	Provide additional capacity. Provide relief line to add capacity adjacent to 30 inch Catoosa Main interceptor. North of 412.	
Sewer Enterprise	High	High	Provide sewer to unserved area. Includes Easements, Engineering and construction of 3,950' of 36" Interceptor.	113
Sewer Enterprise	High	High	Provide sewer to unserved area.	114
<b><u>Wastewater System Misc. Improvements</u></b>				
Sewer Enterprise	High	High	Resurface of roadways at identified locations.	115
<b><u>Areawide Collection System</u></b>				
State Sewer Loan Program	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	116
Sewer Enterprise	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	
State Sewer Loan Program	High	High	Unserved area projects.	117
Sewer Enterprise	High	High	Unserved area projects.	
State Sewer Loan Program	High	High	Reflects estimate of need for short term infrastructure reinvestment.	118
Sewer Enterprise	High	High	Reflects estimate of need for short term infrastructure reinvestment.	
Sewer Enterprise	High	High	Reflects estimate of need for short term infrastructure reinvestment.	119
State Sewer Loan Program	High	High	Reflects estimate of need for short term infrastructure reinvestment.	
Sewer Enterprise	High	High	Annual repairs, pump replacements, etc. to the collection system lift stations.	120
State Sewer Loan Program	High	High	Annual repairs, pump replacements, etc. to the collection system lift stations.	
State Sewer Loan Program	High	High	Annual rehab and replacement of sewer areas.	121
Sewer Enterprise	High	High	Annual rehab and replacement of sewer areas.	

Ref.	Project	Est. Cost	FY16	FY17	FY18	FY19	FY20	Total
<b>Flood Control</b>								
122	Citywide - Urgent Small Drainage, Channel Erosion, Channel Rehabilitation, and Master Drainage Plans	54,250	5,000	5,000	3,500	3,500	3,500	20,500
123	Future Unfunded Projects	41,079						-
	<b>Total Flood Control Projects</b>	<b>\$ 95,329</b>	<b>\$ 5,000</b>	<b>\$ 5,000</b>	<b>\$ 3,500</b>	<b>\$ 3,500</b>	<b>\$ 3,500</b>	<b>\$ 20,500</b>
<b>Public Facilities Maintenance</b>								
124	Future Unfunded Projects	165,666						-
	<b>Total Public Facilities Maintenance Projects</b>	<b>\$ 165,666</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL PUBLIC WORKS AND INFRASTRUCTURE PROJECTS</b>		<b>\$ 3,420,783</b>	<b>\$ 95,698</b>	<b>\$ 98,993</b>	<b>\$ 77,023</b>	<b>\$ 114,737</b>	<b>\$ 191,690</b>	<b>\$ 578,141</b>
<b>SOCIAL AND ECONOMIC DEVELOPMENT</b>								
<b>Working In Neighborhoods (Win)</b>								
125	Future Unfunded Projects	5,846						-
	<b>Total Working In Neighborhoods Projects</b>	<b>\$ 5,846</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Planning And Economic Development</b>								
126	Future Unfunded Projects	33,330						-
	<b>Total Planning And Economic Development Projects</b>	<b>\$ 33,330</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL SOCIAL AND ECONOMIC DEVELOPMENT PROJECTS</b>		<b>\$ 39,176</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TRANSPORTATION</b>								
<b>Metropolitan Tulsa Transit Authority</b>								
127	Future Unfunded Projects	4,940						-
	<b>Total Metropolitan Tulsa Transit Authority Projects</b>	<b>\$ 4,940</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL TRANSPORTATION PROJECTS</b>		<b>\$ 4,940</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>ADMINISTRATIVE AND SUPPORT SERVICES</b>								
<b>Information Technology Department</b>								
128	Future Unfunded Projects	7,895						-
	<b>Total Information Technology Department Projects</b>	<b>\$ 7,895</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Equipment Management Department</b>								
129	Future Unfunded Projects	5,600						-
	<b>Total Equipment Management Projects</b>	<b>\$ 5,600</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL ADMINISTRATIVE AND SUPPORT SERVICES PROJECTS</b>		<b>\$ 13,495</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>TOTAL CAPITAL PROJECTS INVENTORY</b>		<b>\$ 3,853,923</b>	<b>\$ 95,698</b>	<b>\$ 98,993</b>	<b>\$ 77,023</b>	<b>\$ 114,737</b>	<b>\$ 191,690</b>	<b>\$ 578,141</b>

<b>Funding Source</b>	<b>FY16</b>	<b>FY15</b>	<b>Comments</b>	<b>Ref.</b>
				<b>Flood Control</b>
Storm Sewer Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	122
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	123
				<b>Public Facilities Maintenance</b>
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	124
				<b>SOCIAL AND ECONOMIC DEVELOPMENT</b>
				<b>Working In Neighborhoods (Win)</b>
Deferred Funding	High	High	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	125
				<b>Planning And Economic Development</b>
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	126
				<b>TRANSPORTATION</b>
				<b>Metropolitan Tulsa Transit Authority</b>
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	127
				<b>ADMINISTRATIVE AND SUPPORT SERVICES</b>
				<b>Information Technology Department</b>
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	128
				<b>Equipment Management Department</b>
Deferred Funding	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY16-20 timeframe.	129