Section 8

CIP SCHEDULE

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.

FISCAL YEARS 2022-2026 CAPITAL PLAN

In November of 2019; the Improve Our Tulsa (IOT) program that was originally authorized in 2013 was extended thru December 31, 2025. The extension adds an additional $193.0 million in sales tax projects to the original $564.0 million and adds $427.0 million in general obligation bond funded street projects to the original $355.0 million. The City has issued $278.0 million of the original $355.0 million and $17.0 million from the newly authorized $427.0 million. The remaining $78.0 million will be issued in future years with the next series of the newly authorized bonds. The shared Mayoral and City Council goal of continuing the commitment to improving the condition of our roadways, the need to provide funds for critical goals such as public safety, federal mandates, building code and short-term capital needs, and goals identified in PlaniTulsa were used to prioritize the allocation of the authorized $1.5 billion in the IOT I and II programs. In April of 2016, City of Tulsa voters approved a temporary sales tax levy of a little over 3/10ths of a cent for the purpose of funding large scale economic development projects. The tax went into effect January 2017 and will be in place for 15 years. The tax will fund over $510.6 million in major capital and economic development projects across the city. The commitment of these resources likely means 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 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 existing third penny sales tax in addition to a 0.167 percent increase. The program funded 128 arterial and residential street projects across the City. The 2006 Sales Tax program, approved in May 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 FY22 Capital Budget - Funded Programs Status and Operating Impact (Section 6) of this document and includes a list of the proposed funding for FY22.

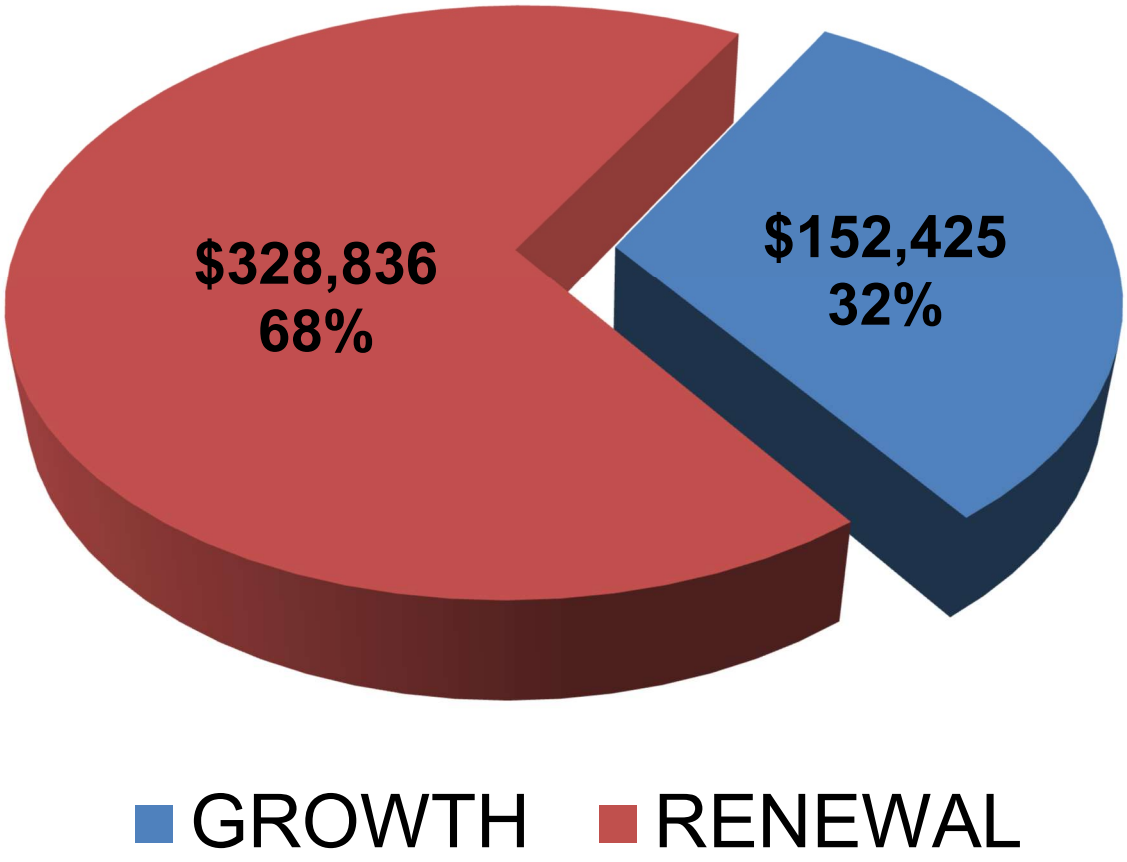
In alignment with industry best practice, the City of Tulsa is proactive in reviewing its capital needs both annually and in the strategic view of long-range goals and needs as identified in various master plans. These planning efforts have been undertaken both internally and with sister organizations involved in major capital programs in the region. Out of these master plans and recommendations, over 620 projects totaling just over $9.3 billion with time horizons that extend out as far as 50 years have been developed and are contained in an inventory that is reviewed and maintained by the City's Finance Department. The re-authorization of the IOT program referenced above will rely on these master plans as a basis for identifying the potential list of proposed projects. Section 7, Master Plan Priorities, provides a summary of each of the major master plans and highlights the goals for the physical improvements they govern. Funding recommendations covering these areas follows.

FIVE-YEAR LEVEL OF RECOMMENDED FUNDING
BY DEPARTMENT
Fiscal Years 2022 – 2026
(amount expressed in thousands)

Project Type	Constrained Requests	FY22-26 Recommended Funding	Inventory Percent Funding	Total Percent Funding
Police Department Projects	$ 4,960	$ -	0%	0%
Fire Department Projects	49,693	-	0%	0%
Total Public Safety and Protection	**$ 54,653**	**$ -**	**0%**	**0%**
Park and Recreation Projects	56,326	-	0%	0%
Tulsa Zoo Projects	15,000	-	0%	0%
Gilcrease Museum Projects	10,981	-	0%	0%
Cox Business Center and BOK Center	6,797	-	0%	0%
Performing Arts Center	5,420	-	0%	0%
River Parks Projects	25,940	-	0%	0%
Total Cultural Development and Recreation	**$ 120,464**	**$ -**	**0%**	**0%**
Street and Expressway Projects	427,000	-	0%	0%
Water System Projects	539,074	133,622	25%	28%
Sanitary Sewer System Projects	400,928	252,639	63%	52%
Flood Control Projects	95,000	95,000	100%	20%
Facilities Maintenance Projects	59,715	-	0%	0%
Total Public Works and Development	**$ 1,521,717**	**$ 481,261**	**32%**	**100%**
Mayor's Office of Eco Development Projects	21,700	-	0%	0%
Working In Neighborhoods (WIN)	2,460	-	0%	0%
Total Social and Economic Development	**$ 24,160**	**$ -**	**0%**	**0%**
Tulsa Transit Projects	30,555	-	0%	0%
Total Transportation	**$ 30,555**	**$ -**	**0%**	**0%**
Information Technology Department	6,228	-	0%	0%
Equipment Management Projects	7,100	-	0%	0%
Short-Term & Contracted Capital Projects	70,850	-	0%	0%
Total Administrative and Support Services	**$ 84,178**	**$ -**	**0%**	**0%**
Total of All Capital Project Types	**$ 1,835,727**	**$ 481,261**	**26%**	**100%**

FY 2022 - 2026
RECOMMENDED CIP FUNDING
RENEWAL VS. GROWTH
($000)

Total $481,261



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 2017 Limited Purpose Sales Tax Program, 2020 and 2014 Sales Tax Extension (Improve Our Tulsa I and II), 2020 and 2014 General Obligation Bond Program (Improve Our Tulsa I and II), 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.*

PROGRAM/DEPARTMENT	**Proposed 5-Year Funding**
PUBLIC SAFETY AND PROTECTION	
Police and E-911 Department The Police Department's highest priority is the renovation of the Police Courts and 911 Facilities, as well as the replacement of its fleet.	**$0 million**
Fire The Fire Department's highest priority is the replacement of its apparatus, followed by the purchase of various training props to be used at the Training Academy.	**$0 million**
Total Public Safety and Protection	**$0 million**
CULTURAL DEVELOPMENT AND RECREATION	
Park and Recreation Department The maintenance of the Park systems aging facilities is the Department's highest priority. Park system projects have been prioritized in the Park's Master Plan and funding has been allocated toward its implementation in previous capital programs.	**$0 million**
Total Cultural Development and Recreation	**$0 million**
PUBLIC WORKS AND INFRASTRUCTURE	
Streets and Expressways 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.	**$0 million**
Water The City continues implementing the 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.	**$133.6 million**

CAPITAL PLAN

PROGRAM/DEPARTMENT	**Proposed 5-Year Funding**
Sanitary Sewer The City completed all required projects to meet the consent orders issued in the late 1990's by State and Federal regulatory authorities. Additional isolated consent orders have been issued since then to eliminate recent specific incidents of residential sewage overflows. However, all consent orders have been completed presently. Future Utility Revenue Bonds and Enterprise Fund resources will be dedicated to the completion of any future consent orders, as well as the upkeep of existing assets.	**$252.6 million**
Flood Control 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.	**$95.0 million**
Facilities 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.	**$0 million**
Total Public Works and Infrastructure	**$481.3 million**
SOCIAL AND ECONOMIC DEVELOPMENT	
Mayor's Office of Economic Development (MOED) MOED will continue to pursue various economic development efforts as identified in the City's various plans well as efforts such as the beautification of Route 66 and infrastructure to support the Peoria/Mohawk Business Park.	**$0 million**
Total Social and Economic Development	**$0 million**
Metropolitan Tulsa Transit Authority Projects (MTTA) MTTA's highest priorities are the continued replacement of its fleet, the construction of additional passenger shelters, and to improve and expand its service.	**$0 million**
Total Transportation	**$0 million**
ADMINISTRATIVE AND SUPPORT SERVICES	
Short Term Capital Projects Projects in this category include the replacement of various existing capital equipment, such as; department fleet, facility equipment, and minor facility purchases and repairs.	**$0 million**
Total Administrative and Support Services	**$0 million**
TOTAL PROPOSED FIVE-YEAR FUNDING PROGRAM	**$481.3 million**

CAPITAL PLAN

CITY OF TULSA

FISCAL YEARS 2022-2026 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	FY22	FY23	FY24	FY25	FY26	Total
Police Department Projects	$ 4,960	$ -	$ -	$ -	$ -	$ -	$ -
Fire Department Projects	49,693	-	-	-	-	-	-
Total Public Safety and Protection	**$ 54,653**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Park and Recreation Department Projects	56,326	-	-	-	-	-	-
Tulsa Zoo Projects	15,000	-	-	-	-	-	-
Gilcrease Museum Projects	10,981	-	-	-	-	-	-
CBC/BOK Projects	6,797	-	-	-	-	-	-
Performing Arts Center Projects	5,420	-	-	-	-	-	-
River Parks Projects	25,940	-	-	-	-	-	-
Total Cultural Devel. and Recreation	**$ 120,464**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Street and Expressway Projects	427,000	-	-	-	-	-	$ -
Water System Projects	539,074	18,160	43,299	24,731	23,416	24,016	**133,622**
Sanitary Sewer System Projects	400,928	54,547	61,943	44,155	48,133	43,861	**252,639**
Flood Control Projects	95,000	20,500	31,000	33,000	5,000	5,500	**95,000**
Facilities Maintenance Projects	59,715	-	-	-	-	-	-
Total Public Works	**$ 1,521,717**	**$ 93,207**	**$ 136,242**	**$ 101,886**	**$ 76,549**	**$ 73,377**	**$ 481,261**
Mayor's Office of Economic Development	21,700	-	-	-	-	-	-
Working In Neighborhoods (WIN) Projects	2,460	-	-	-	-	-	-
Total Social and Economic Development	**$ 24,160**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Metropolitan Tulsa Transit Authority Projects	30,555	-	-	-	-	-	-
Total Transportation	**$ 30,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Information Technology Projects	6,228	-	-	-	-	-	-
Equipment Management Projects	7,100	-	-	-	-	-	-
Short Term & Contracted Capital Projects	70,850	-	-	-	-	-	-
Total Administrative and Support	**$ 84,178**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
Total of All Capital Project Types	**$ 1,835,727**	**$ 93,207**	**$ 136,242**	**$ 101,886**	**$ 76,549**	**$ 73,377**	**$ 481,261**

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.

CITY OF TULSA
FISCAL YEARS 2022-2026 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)

Funding Source	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
Future Bond Program	$ 427,850	$ -	$ -	$ -	$ -	$ -	**$ -**
Future Sales Tax Program	372,875	-	-	-	-	-	**-**
Water Enterprise	539,074	18,160	43,299	24,731	23,416	24,016	**133,622**
State Sewer (FAP)	85,457	8,189	15,050	9,655	6,100	9,091	**48,085**
Sewer Enterprise	265,732	35,497	26,684	30,312	33,026	34,770	**160,289**
State Sewer Loan	49,739	10,861	20,209	4,188	9,007	-	**44,265**
Storm Sewer Enterprise	26,300	6,150	4,650	5,000	5,000	5,500	**26,300**
Storm Sewer Revenue Bond	68,700	14,350	26,350	28,000	-	-	**68,700**
Total Funding by Source	**$ 1,835,727**	**$ 93,207**	**$ 136,242**	**$ 101,886**	**$ 76,549**	**$ 73,377**	**$ 481,261**

** 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.

CONSTRAINED VERSUS UNCONSTRAINED INVENTORY
BY DEPARTMENT
Fiscal years 2022 – 2026
(amount expressed in thousands)

Project Type	Constrained Inventory	Unconstrained Inventory	Total
Police Department Projects	$ 4,960	$ 101,568	$ 106,528
Fire Department Projects	49,693	195,407	245,100
Total Public Safety and Protection	**$ 54,653**	**$ 296,975**	**$ 351,628**
Park and Recreation Projects	56,326	60,691	117,017
Tulsa Zoo Projects	15,000	42,250	57,250
Gilcrease Museum Projects	10,981	36,645	47,626
Cox Business Center and BOK Center	6,797	7,379	14,176
Performing Arts Center	5,420	251,000	256,420
River Parks Projects	25,940	98,529	124,469
Total Cultural Development and Recreation	**$ 120,464**	**$ 496,494**	**$ 616,958**
Street and Expressway Projects	427,000	3,336,670	3,763,670
Water System Projects	539,074	755,151	1,294,225
Sanitary Sewer System Projects	400,928	200,932	601,860
Flood Control Projects	95,000	364,042	459,042
Facilities Maintenance Projects	59,715	304,553	364,268
Total Public Works and Development	**$ 1,521,717**	**$ 4,961,347**	**$ 6,483,064**
Mayor's Office of Eco Development Projects	21,700	878,342	900,042
Working In Neighborhoods (WIN) Projects	2,460	3,386	5,846
Total Social and Economic Development	**$ 24,160**	**$ 881,728**	**$ 905,888**
Tulsa Transit Projects	30,555	45,065	75,620
Total Transportation	**$ 30,555**	**$ 45,065**	**$ 75,620**
Information Technology Department Projects	6,228	9,450	15,678
Equipment Management Projects	7,100	178,848	185,948
Short Term & Contracted Capital Projects	70,850	(58,850)	12,000
Total Administrative and Support Services	**$ 84,178**	**$ 129,448**	**$ 213,626**
Total of All Capital Project Types	**$ 1,835,727**	**$ 6,811,058**	**$ 8,646,785**

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CITY OF TULSA
FISCAL YEARS 2022-2026 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	FY22	FY23	FY24	FY25	FY26	Total
	PUBLIC SAFETY & PROTECTION							
	Police Department							
1	Future Unfunded Projects	$ 4,960						$ -
	Total Police Department Projects	$ 4,960	$ -	$ -	$ -	$ -	$ -	$ -
	Fire Department							
2	Future Unfunded Projects	49,693						-
	Total Fire Department Projects	$ 49,693	$ -	$ -	$ -	$ -	$ -	$ -
	TOTAL PUBLIC SAFETY AND PROTECTION PROJECTS	$ 54,653	$ -	$ -	$ -	$ -	$ -	$ -
	CULTURAL DEVELOPMENT & RECREATION							
	Park And Recreation Department							
3	Future Unfunded Projects	56,326						-
	Total Parks And Recreation Department Projects	$ 56,326	$ -	$ -	$ -	$ -	$ -	$ -
	Tulsa Zoo							
4	Future Unfunded Projects	15,000						-
	Total Zoo Projects	$ 15,000	$ -	$ -	$ -	$ -	$ -	$ -
	Gilcrease Museum							
5	Future Unfunded Projects	10,981						-
	Total Gilcrease Projects	$ 10,981	$ -	$ -	$ -	$ -	$ -	$ -
	Convention Center and BOK							
6	Future Unfunded Projects	6,797						-
	Total Convention Center and BOK	$ 6,797	$ -	$ -	$ -	$ -	$ -	$ -
	Performing Arts Center Department							
7	Future Unfunded Projects	5,420						-
	Total Performing Arts Center Department Projects	$ 5,420	$ -	$ -	$ -	$ -	$	$ -
	River Parks							
8	Future Unfunded Projects	25,940						-
	Total River Parks Projects	$ 25,940	$ -	$ -	$ -	$ -	$ -	$ -
	TOTAL CULTURAL DEVELOPMENT & RECREATION PROJECTS	$ 120,464	$ -	$ -	$ -	$ -	$ -	$ -
	PUBLIC WORKS AND INFRASTRUCTURE							
	Expressways, Streets, Bridges And Trails Projects							
9	Future Unfunded Projects	122,000						-
	Total Express, Streets, Bridges,Trails	$ 122,000	$ -	$ -	$ -	$ -	$ -	$ -
	Major Rehabilitation							
10	Future Unfunded Projects	296,000						-
	Total Major Rehabilitation	$ 296,000	$ -	$ -	$ -	$ -	$ -	$ -
	Traffic Engineering							
11	Future Unfunded Projects	9,000						-
	Total Traffic Engineering	$ 9,000	$ -	$ -	$ -	$ -	$ -	$ -
	Total Streets And Expressway Projects	$ 427,000	$ -	$ -	$ -	$ -	$ -	$ -
	Water System							
	Supply							
12	Raw Water Flowlines Repairs- Spavinaw	**84,050**		250		250		**500**
13	Source Water Protection and Management Program	**78,932**			500		500	**1,000**
14	Eucha, Spavinaw Water Quality Court Master	**61,550**			500	510	510	**1,520**
15	**Spavinaw Creek Bridge Replacement**	**3,078**		**272**	**104**	**2,702**		**3,078**
16	Eucha Dam Anchoring	**17,100**		15,900				**15,900**
17	Woods Pump Station Refurbishment	**2,920**	50	500				**550**
18	Grand River Pump Station Refurbishment	**4,320**	70	700				**770**
19	**Raw Water Flowlines Repairs- Oologah**	**750**		**250**		**250**		**500**
	Total Supply	$ 252,700	$ 120	$ 17,872	$ 1,104	$ 3,712	$ 1,010	$ 23,818

All Dollars In Thousands. Projects Shown in Boldface Type are New Requests

Funding Source	Priority FY22	Priority FY21	Comments	Ref.
			PUBLIC SAFETY & PROTECTION	
			Police Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	1
			Fire Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	2
			CULTURAL DEVELOPMENT & RECREATION	
			Park And Recreation Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	3
			Tulsa Zoo	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	4
			Gilcrease Museum	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	5
			Convention Center and BOK	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	6
			Performing Arts Center Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	7
			River Parks	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	8
			PUBLIC WORKS AND INFRASTRUCTURE	
			Expressways, Streets, Bridges And Trails Projects	
Future Bond Program	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	9
			Major Rehabilitation	
Future Bond Program	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	10
Future Bond Program	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY22-26 timeframe.	11
			Water System	
			Supply	
Water Enterprise	High	High	Ongoing projects to assess, rehabilitate, and repair raw water flowlines and associated facilities.	12
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.	13
Water Enterprise	High	High	Implementation of the Court Master Agreement for the Spavinaw/Eucha watershed.	14
Water Enterprise	**High**	**High**	**Construct a new bridge across Spavinaw Creek to replace old bridge Facility No. 043, as noted on Oklahoma Department of Transportation Bridge Inspection Report, immediately upstream of Lake Spavinaw for access to local residents and staff use. Bridge will require new roadway approach and acquisition of right of way for installation. Bridge will be designed to meet latest federal/state bridge design criteria. This bridge is considered important in maintaining access for neighboring communities and for city of Tulsa staff use. The responsibility for the upkeep of this bridge happened as a result of ruling from the Mayes County District Court of Mayes County, OK, to address the issues brought forth by Tulsa Ozark Club (TOC) in Civil (Case) No. 3020, July 10, 1924.**	**15**
Water Enterprise	High	High	The purpose of the project is to prevent the dam from sliding or overturning during a flood event. This project provides for investigating the need for major structural improvements to protect the dam during a major flood event.	16
Water Enterprise	High	High	Evaluate and Inspect the horizontal turbine pump; the Engine Control Panel (ECP); the electrical switchgear; and evaluate the operational efficiency of the pump engines.	17
Water Enterprise	High	High	Evaluate and inspect the vertical turbine pump; inspect and redress the right angle drive; evaluate and upgrade the electrical switchgear; and evaluate the operational efficiency of the pumps and engines.	18
Water Enterprise	**High**	**High**	**This project will provide the equipment and personal to inspect and assess the condition of the Oologah Raw Waterlines. Various tools are available for gathering this necessary data to thoroughly evaluate the condition of the pipelines.** **The investigation will begin at the Oologah Pump Station and proceed to know areas of concern. Entry points will be identified along the flowlines which will be used to gain access to the pipelines.The gathered data will be used to**	**19**

Ref.	Project	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
	Treatment & Pumping							
20	A.B. Jewell Capacity Expansion to 150 MGD	**29,294**				1,235	2,059	**3,294**
21	A.B. Jewell WTP Clarifier Upgrades/Rehabilitation	**16,132**		7,636				**7,636**
22	A.B. Jewell Chemical Feed Facilities Improvements	**2,905**			500			**500**
23	A.B. Jewell WTP Site Improvements	**600**	200					**200**
24	**COT Fiber - 56th and Garnett to 51st and 129th**	**1,290**	**1,290**					**1,290**
25	**A.B. Jewell WTP Filter Gallery Pipe and Concrete Repl**	**1,126**		**1,126**				**1,126**
26	**A.B. Jewell WTP Lab Prep Room Remodel**	**583**	**583**					**583**
	Total Treatment And Pumping	**$ 51,347**	**$ 2,073**	**$ 8,762**	**$ 500**	**$ 1,235**	**$ 2,059**	**$ 14,629**
	Transmission & Distribution							
27	Water Line Relocations-Citywide	**54,150**	900	900	950	950	950	**4,650**
28	Water Mains Replacements - City Wide	**83,505**	11,163	11,498	12,688	13,068	13088	**61,505**
29	Dead-End Distribution Mains Connections	**3,150**	350	350	350	350	350	**1,750**
30	Water Vault & Large Meter Upgrades	**2,024**		206	206	206	206	**824**
31	Unserved Areas	**1,600**			100			**100**
32	Water Tanks - Repaint/Rehabilitation	**55,920**			2,387		2,533	**4,920**
33	Large Water Valve Replacement-City Wide	**800**	100	100	100	100	100	**500**
34	Economic Development Citywide	**5,500**	500	500	500	500	500	**2,500**
35	Cherokee Waterlines - 2025	**7,796**			800	1,723	1,723	**4,246**
36	23rd and Jackson Facilities Maintenance and Improvements	**5,792**	1,264	1,264	1,264			**3,792**
37	Automatic Meter Reading - City Wide	**1,638**		319				**319**
38	Transmission Line Condition Assessment	**800**		200		200		**400**
40	Pump Station Rehabilitation (Reservoir Hill PS and SSS-PS)	**1,329**			1,329			**1,329**
41	Facility Roof Repairs Citywide	**3,072**		618	618	618	618	**2,472**
42	Lead Service Line Inventory	**3,662**	690	710	732	754	776	**3,662**
43	Utility Bridges - Repaint/Rehabilitation	**706**			103		103	**206**
44	Emergency Waterline Repair Contract	**3,000**	1,000		1,000			**2,000**
	Total Transmission And Distribution	**$ 234,444**	**$ 15,967**	**$ 16,665**	**$ 23,127**	**$ 18,469**	**$ 20,947**	**$ 95,175**
	Total Water System Projects	**$ 539,074**	**$ 18,160**	**$ 43,299**	**$ 24,731**	**$ 23,416**	**$ 24,016**	**$ 133,622**
	Sanitary Sewer System **Northside Plant**							
45	North Switchgear	**2,792**	2,247					**2,247**
46	Northside WWTP FEB Concrete/Structural Repair	**4,144**				464	3,680	**4,144**
47	**Northside WWTP Digester Lid Repair Phase 1**	**3,327**	**3,327**					**3,327**
48	**Northside WWTP Digester Lid Repair Phase 2**	**2,623**		**2,623**				**2,623**

Funding Source	FY22	FY21	Comments	Ref.
			Treatment & Pumping	
Water Enterprise	High	High	Provide a firm treatment capacity of 150 MGD, inlcuding new raw water junction chamber.	20
Water Enterprise	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.	21
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.	22
Water Enterprise	High	High	Projects will provide for improved security and added safety. 1). Install truck scales to improve the procedures for receiving bulk materials. 2). Reconfigure the entrance to plant to provide better security and flow of traffic. 3). Replace the "chemical trench" covers throughout the plant with a lighter weight material.	23
Water Enterprise	**High**	**High**	**Installation of 66,450 feet of 72-strand SM OSP fiber and tracer wire from Sewer Base to TPD (Mingo Valley Division) to Tulsa Health Department to Water Distribution East Yard at 56th & Garnett. Also, provide a connection with existing lines to A.B. Jewell WTP and Mohawk WTP.**	**24**
Water Enterprise	**High**	**High**	**Provide improvements needed during maximum filter loading by identifying performance levels when seals begin to leak. Evaluate how and where water is flowing past piping seals during maximum filter loading and entering into the filter gallery. Project will need to determine the extent of damage done to the piping encased in the concrete walls and assess the structural integrity of these concrete walls. All facility piping and supports in the filter gallery are showing signs of rust and distress and will also need to be assessed.**	**25**
Water Enterprise	**High**	**High**	**The project will completely rehabilitate the metals prep room and the organics prep room at the ABJ Instrumentation Lab. The lab was remodeled in 1997 and there has been no updates since then. Currently the cabinet doors are falling off due to corrosion, a sink support has failed and was temporarily repaired to be able to use it. Both rooms need all fume hoods, cabinets/countertops/flooring/fixtures replaced with new. The rooms will also need to be repainted. The composition of the current cabinets is particle board, which has degraded due to water damage over the years. New counter material should be non-porous to improve the life expectancy.**	**26**
			Transmission & Distribution	
Water Enterprise	High	High	Provide funding for ongoing program to relocate water lines associated with other City improvement projects.	27
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.	28
Water Enterprise	High	High	Elimination of dead end mains.	29
Water Enterprise	High	High	Ongoing program to replace water meters citywide to support revenue assurance policies.	30
Water Enterprise	High	High	Provide water service to unserved, developed areas in response to citizen petitions.	31
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.	32
Water Enterprise	High	High	Replace large water valves throughout water system.	33
Water Enterprise	High	High	This program will focus on key sites citywide as determined by the City of Tulsa's Office of Economic Development. These key sites will be prioritized for public infrastructure needs so as to be shovel ready to attract industrial development.	34
Water Enterprise	High	High	Construct 10,560 LF of 24–inch waterline from 106th Street North to 116th Street North along Harvard and Sheridan and 10,560 LF of 12–inch waterline between Harvard and Sheridan along 116th Street North. 5,280 LF of 12-inch waterline between 106th and 116th Street North along Yale to increase transmission and distribution capacity to support growth in Cherokee Industrial Park annexiation area.	35
Water Enterprise	High	High	Ongoing program to maintain City-owned facilities located at 23rd and Jackson.	36
Water Enterprise	High	High	This project Installs Automatic Meter Reading (AMR) for new meter installations and all new commercial and 3-inch and larger meters are required to be AMR.	37
Water Enterprise	High	High	Monitor and evaluate transmission lines citywide. Funding may also be used to modify and improve entry for testing and monitoring.	38
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.	40
Water Enterprise	High	High	Repair or replace citywide water facility roofs that meet the requirement criteria or that have excessive leaks.	41
Water Enterprise	High	High	The project consists of a multi-year inspection of all water services to determine the service line material entering and exiting the meter can. The Oklahoma Department of Environmental Quality encourages all water systems to display a service line materials inventory to the public on the City of Tulsa webpage. The City of Tulsa has historically replaced lead services when we have encountered them, but Tulsa does not have a service line materials inventory. Due to limited resources in Water Distribution Systems, a project is needed for a contractor to identify and record service line material type for all water service accounts.	42
Water Enterprise	High	High	This project will provide maintenance as needed for the Utility Bridges with City waterlines.	43
Water Enterprise	High	High	Provide funding for emergency waterline repair in addition to inhouse repair crews.	44
			Sanitary Sewer System **Northside Plant**	
State Sewer (FAP)	High	High	Replace North Switch Gear (NSG) and transformers at the Northside Wastewater Treatment Plant (NSWWTP) with new modern switchgear and transformers similar to what has been installed for the South Switchgear at the plant.	45
Sewer Enterprise	High	High	Condition (Physical) Assessment of Northside FEB was authorized by ES 2017-04 with Notice to Proceed dated January 18, 2018 to identify and quantify basin and structural system repairs with the concentration of the concrete and asphalt surface improvements to schedule funding sequence to produce bid plans and specifications necessary to competitively bid said improvements to restore Northside FEB to its original designed physical conditions. Condition Assessment recommendations, conclusions, and costs contained in 2018 Keithline Engineering Phase 1 Condition Assessment Report - Flow Equalization Basin Joint and Crack Repairs, ES 2017-04. Electrical, conveyance, support, and mechanical system condition assessments were not included. Other system assessments and parameter improvements were not part of this project.	46
Sewer Enterprise	**New**	**N/A**	**Provide design for repair and improvement of NSWWTP's four digesters and provide repair on Digesters 1&2. Scope includes Repairs to the roof/wall construction joints; Preventative maintenance of the digester interior piping Additional internal and external concrete repairs; and Interior and exterior coatings.**	**47**
State Sewer (FAP)	**New**	**N/A**	**Provide repair on Digesters 3&4. Scope of work includes: Repairs to the roof/wall construction joints; Preventative maintenance of the digester interior piping; Additional internal and external concrete repairs; and Interior and exterior coatings.**	**48**

Ref.	Project	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
49	**Northside WWTP Aeration Basin Baffle Addition**	**93**					**93**	**93**
	Total Northside Plant	**$ 12,979**	**$ 5,574**	**$ 2,623**	**$ -**	**$ 464**	**$ 3,773**	**$ 12,434**
	Northside Collection System							
50	Northside Interceptor Improvements	**8,061**			574	4,023	3,464	**8,061**
51	Jones Creek Relief (91-N)	**4,342**	4,342					**4,342**
52	Douglas Creek Relief (97-N)	**3,839**				275	282	**557**
53	Flatrock West 9-N Relief	**8,076**			559	595	6,922	**8,076**
54	Coal Creek Rehabilitation	**1,451**		328	822	301		**1,451**
	Coal Creek Rehabilitation	**4,191**					4,191	**4,191**
	Total Northside Collection System	**$ 29,960**	**$ 4,342**	**$ 328**	**$ 1,955**	**$ 5,194**	**$ 14,859**	**$ 26,678**
	Southside Plant							
55	**Southside WWTP Lagoon No. 7 Connection**	**240**	**21**	**219**				**240**
56	**Southside WWTP Sludge Dewatering Alternative**	**13,549**			**1,199**	**12,350**		**13,549**
57	**Southside WWTP External Draft Tubes for Digester Mixing**	**506**					**506**	**506**
58	**Southside WWTP Digester Feed Piping Improvements**	**150**		**13**	**137**			**150**
59	**Southside WWTP Digester Liquid Loadout**	**43**	**4**	**39**				**43**
60	**Southside WWTP Replacement Sludge Transfer Piping**	**97**	**8**	**89**				**97**
61	Southside WWTP Electrical Upgrades	**3,801**					854	**854**
62	**Southside WWTP WAS Instrumentation and Piping**	**8**					**8**	**8**
	Total Southside Plant	**$ 18,394**	**$ 33**	**$ 360**	**$ 1,336**	**$ 12,350**	**$ 1,368**	**$ 15,447**
	Southside Collection System							
63	**Cherry Creek Lift Station Capacity Improvements**	**2,063**	**2,063**					**2,063**

Funding Source	FY22	FY21	Comments	Ref.
Sewer Enterprise	**New**	**N/A**	**This project is to install new aeration basin baffles at the Northside Wastewater Treatment Plant. The aeration basin baffles will be installed at the end of zone two between the anoxic zone and the aeration zone. The installation of the baffles will reduce the cost and improve the treatment facility operations.**	**49**
			Northside Collection System	
Sewer Enterprise	High	High	The interceptor starts at Interceptor Lift Station (No. 5) at the downstream and the study ended at MH 101-0004 at the upstream. 12,025 LF of 66-inch reinforced concrete pipe (RCP) pipe was assessed and 10,943 LF of 60-inch RCP was assessed. The scope is to line 6,831 LF of RCP with cured in place pipe (CIPP), centrifugally cast fiberglass reinforced polymer mortar (CCFRPM) pipe, or other City approved material, externally pressure grout three (3) pipe joints, and perform heavy cleaning if necessary. It is anticipated that design and construction will occur in two (2) phases - one for 66-inch and one for 60-inch rehabilitation.	50
State Sewer (FAP)	High	High	Provide additional capacity of Upper Mingo/Jones Creek Interceptor.	51
Sewer Enterprise	High	High	Douglas Creek 97-N Relief : The Douglas Creek interceptor serves Area 97-N. This project would build a relief line add capacity to overloaded lines. Engineering study would determine if a larger pipe would be used (with pipe bursting) or if a parallel line is needed. Likely recommendation is a larger pipe to mitigate I&I. REFERENCE COMP STUDY for pipe lenghts.	52
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	53
Sewer Enterprise	High	High	The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Existing, defective pipes in the area will be replaced or rehabilitated with construction that may be performed using pipe bursting, lining, or open cut as all are acceptable installation methods.	54
State Sewer (FAP)	High	High	The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Existing, defective pipes in the area will be replaced or rehabilitated with construction that may be performed using pipe bursting, lining, or open cut as all are acceptable installation methods.	
			Southside Plant	
Sewer Enterprise	**New**	**N/A**	**The purpose of this project is to provide permanent access to Lagoon No. 7 for emergency storage of digested sludge at the 71st St Dewatering facility. This will be used as emergency storage should the digested biosolids flow be greater then the current capacity to dewater sludge at the dewatering facility. This could be due wet weather peak flows, or failure of equipment within the dewatering facility.**	**55**
Sewer Enterprise	**New**	**N/A**	**This project involved the evaluation of three sludge dewatering equipment alternatives for their performance and ability to treat future sludge loadings. These alternatives were evaluated using economic and non-economic criteria to produce a thorough evaluation. This evaluation recommended the installation of belt filter presses (BFP) or centrifuges for sludge dewatering at the 71st Street Dewatering Facility which will be confirmed during conceptual design. If centrifuges are to be selected, a new conveyor will need to be constructed due to the configuration of the centrifuges; however, it is anticipated that the existing conveyor will remain in operation if BFPs are the selected technology. Lagoon No. 7 should be fully operation in order to serve as a temporary sludge storage during construction of dewatering improvements.**	**56**
Sewer Enterprise	**New**	**N/A**	**This project involves replacing the existing digester gas mixing systems located in Anaerobic Digesters No. 3&4. The existing gas mixing system is a maintenance headache for operators and is resulting in decreased performance. Replacement with external draft tube mixers will improve digester operation and performance.**	**57**
Sewer Enterprise	**New**	**N/A**	**Plant staff have described that the digester complex piping provides a high level of flexibility and redundancy, but at a high level of complexity. This results in a piping configuration which is difficult to operate during critical issues and is challenging to train new team members on. Additionally, sludge transfer from Digester 1 to Digester 2 is slow and results in frequent clogging. Improvements and simplifcations to this piping will enhance reliability of operation.**	**58**
Sewer Enterprise	**New**	**N/A**	**The purpose of this project is to provide redundancy to the distribution of digester sludge from the Southside Wastewater Treatment Plant to the 71st street dewatering facility. Currently, the only avenue to convey sludge between the two facilities for further treatment is through the use of the 2-mile force main between the two facilities. This force main has not had any interruptions to date, but if there is a failure there is currently no backup for sludge transfer between the two facilities. This solution can provide an emergency backup and provide redundancy to facilitate the implementation of a more permanent redudant transfer line.**	**59**
Sewer Enterprise	**New**	**N/A**	**This project improves the reliability of the length of sludge transfer piping to transfer digested sludge from the Southside Wastewater Treatment Plant to the 71st street dewatering facility. Currently, the only conduit to convey sludge between the two facilities for further treatment is through the use of a signal 2-mile force main between the two facilities. The present force main has provided reliable service to date, but is the only transfer pipe. Note that the pipeline has experienced point failures but prompt attention by TMUA staff have installed immediate point repairs to minimize the pipeline's downtime. An overbearing concern is that the pipeline includes a 200 linear foot section of pipe that was first placed into service in the 1950's. With sludge piping of this age, there is an overbearing concern that a significant length of this 1950's pipe could fail, thus requiring an emergency bypass temporary piping in conjunction with a significant emergency repair response.**	**60**
Sewer Enterprise	High	High	Reconfigure the electrical distribution system at the Southside WWTP, starting with the main incoming switchgear, in order to enhance reliability and upgrade equipment that is nearing the end of its useful service life. The project will involve replacing the main switchgear and re-arrangning how downstream switchgear are fed.	61
Sewer Enterprise	**New**	**N/A**	**The purpose of this project is to provide improvements to waste activated sludge processing within the Southside Wastewater Treatment Plant. This project will help to minimize overflows within the WAS storage basin. Greater control over the decant of the WAS storage basin will decrease loads to downstream processes.**	**62**
			Southside Collection System	
Sewer Enterprise	**New**	**N/A**	**Per performance testing of Cherry Creek Lift Station (LS) pumps conducted in August 2019, the firm capacity of LS is 25 MGD, a 30% reduction from the original LS design capacity of 36 MGD. Cavitation has caused excessive wear of pumps – evident by multiple failures of bearings and mechanical seals, and the excessive wear of the impeller and volute that has significantly reduced pump capacity and efficiency. The proper handling of current wet weather flows necessitates that firm capacity (when pumping to SSWWTP) be restored to 36 MGD and increased as needed to handle future flows. This project will entail the design of pump capacity enhancements for restoring firm pumping capacity to 36 MGD; an evaluation to determine the maximum conveyance capacity of the 36-Inch Cherry Creek Force Main; and the conceptual design and BCE for future improvements required to reach maximum conveyance capacity for long-term build-out of the west Southslope collection system.**	**63**

Ref.	Project	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
64	Crow Creek Rehab and Relief	**15,477**	5,801			5,001		**10,802**
	Crow Creek Rehab and Relief	**6,119**		498	5,250		**371**	**6,119**
65	Joe Creek/Lafortune Park Rehab	**5,060**	5,060					**5,060**
66	Upper Joe Creek - East Branch	**1,048**	252				196	**448**
	Upper Joe Creek - East Branch	**12,505**		4,311	4,188	4,006		**12,505**
67	West Bank Lift Station Improvements	**1,533**	1,359					**1,359**
68	West Tulsa 39, 40, 41-S Relief	**192**					192	**192**
69	**21st & Riverside Lift Station Improvements - Phase 3**	**701**					**701**	**701**
70	**Haikey Creek Interceptor Rehab Phase 2**	**2,121**		**2,121**				**2,121**
	Haikey Creek Interceptor Rehab Phase 2	**164**	**164**					**164**
	TotalSouthside Collection	**$ 46,983**	**$ 14,699**	**$ 6,930**	**$ 9,438**	**$ 9,007**	**$ 1,460**	**$ 41,534**
	Haikey Creek Plant							
71	Haikey WWTP Primary Clarifier Addition	**9,397**	874	8,523				**9,397**
72	Haikey WWTP Anaerobic Digester Addition	**1,475**	1,475					**1,475**
	Haikey WWTP Anaerobic Digester Addition	**15,145**		15,145				**15,145**
73	Haikey WWTP Lift Station Improvements - Phase 4	**2,370**				464	1,906	**2,370**
74	Haikey Crk SAMS Replacement	**4,919**	489	504	519	535	551	**2,598**
75	Haikey Creek Oxidation Ditch Demolition	**210**				210		**210**
76	Haikey Creek Dewatering Facility	**3,227**	258	2,969				**3,227**
	Total Haikey Creek Plant	**$ 36,743**	**$ 3,096**	**$ 27,141**	**$ 519**	**$ 1,209**	**$ 2,457**	**$ 34,422**
	Lower Bird Creek Collection System							
77	Spunky Creek East Branch Contract 1	**3,783**				318	315	**633**
78	Spunky Creek Main Stem South Contract 1-5	**14,455**			6,955			**6,955**
	Spunky Creek Main Stem South Contract 1-5	**545**		545				**545**
	Total Lower Bird Creek Collection System	**$ 18,783**	**$ -**	**$ 545**	**$ 6,955**	**$ 318**	**$ 315**	**$ 8,133**

Funding Source	FY22	FY21	Comments	Ref.
State Sewer Loan	High	High	The project consists of a multi-year rehab and replacement project in the Crow Creek basin of the Southslope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for Crow Creek is a 30% reduction. The Crow Creek basin is defined as the collection system that is monitored by permanent flow monitor TL-26. It contains 442,000 linear feet of pipe and encompasses maintenance areas 44-S, 45-S, and 62-S.	**64**
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the Crow Creek basin of the Southslope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for Crow Creek is a 30% reduction. The Crow Creek basin is defined as the collection system that is monitored by permanent flow monitor TL-26. It contains 442,000 linear feet of pipe and encompasses maintenance areas 44-S, 45-S, and 62-S.	
State Sewer Loan	High	High	The project consists of a multi-year rehab and replacement project in the Joe-LaFortune basin of the Southslope wastewater collection system. The remaining project activities include SSES, design, and construction.	65
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the Upper Joe Creek basin of the Southslope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project.	66
State Sewer Loan	High	High	The project consists of a multi-year rehab and replacement project in the Upper Joe Creek basin of the Southslope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project.	
Sewer Enterprise	High	High	Includes major rehabilitation and/or replacement of the existing West Bank Lift Station. Rehabilitation scope identified in the TMUA Comp Assessment includes replacement of pumps and associated major equipment including grinders, gates valves, and the addition of air relief valves to address air locking.	67
Sewer Enterprise	High	High	The project consists of a multi-year rehab and replacement project in the West Tulsa basin of the Southslope wastewater collection system. The project includes, pre- and post-rehab flow monitoring, hydraulic modeling, SSES, design, and construction. Construction activities will include a mix of rehabilitation and capacity enhancements, depending on solutions that are determined to be most cost-effective during the flow monitoring and modeling phase of the project. The I&I Abatement target for this basin has not yet been defined. The West Tulsa basin is defined as the collection system that is monitored by permanent flow monitors TL-10, and TL-42, jointly. It contains 358,000 linear feet of pipe and encompasses maintenance areas 38-S, 39-S, 40-S, and 41-S.	68
Sewer Enterprise	**New**	**N/A**	**Provides improved wet weather performance of the lift station and addresses operational and safety concerns. Phase 3 will focus on design and construction of improvements to expand the wet weather capacity of the lift station from 25 MGD to approximately 37 MGD. The capacity increase will be obtained by replacement of existing Pumps 1 and 2, corresponding variable frequency drives, and the construction of a new 20-inch force main from the lift station, across the Arkansas River to the West Bank Interceptor. Phase 3 Improvements will also include new electrical gear (motor control center and control panel) to replace existing equipment in poor condition.**	**69**
State Sewer (FAP)	**New**	**N/A**	**This continuation project is for the rehabilitation and/or replacement of approximately 4,952 Linear Feet of 30-inch reinforced concrete sanitary sewer pipe on the Haikey Creek Interceptor. This will also include the rehabilitation of 19 manholes. The Phase 2 project begins on the upstream north end at Manhole 113-0006 and ends downstream at the Lift Station at Manhole 114-0002. A complete list of manholes and pipe segments is listed at the bottom of the Capital Cost Form.**	**70**
Sewer Enterprise	**New**	**N/A**	**This continuation project is for the rehabilitation and/or replacement of approximately 4,952 Linear Feet of 30-inch reinforced concrete sanitary sewer pipe on the Haikey Creek Interceptor. This will also include the rehabilitation of 19 manholes. The Phase 2 project begins on the upstream north end at Manhole 113-0006 and ends downstream at the Lift Station at Manhole 114-0002. A complete list of manholes and pipe segments is listed at the bottom of the Capital Cost Form.**	
			Haikey Creek Plant	
Sewer Enterprise	High	High	Addition of primary clarifiers to increase plant capacity and improve sludge handling.	71
Sewer Enterprise	High	High	Addition of anaerobic digesters to improve sludge handling.	72
State Sewer Loan	High	High	Addition of anaerobic digesters to improve sludge handling.	
Sewer Enterprise	High	High	Provide improved wet weather performance of the lift station. Phase 1, 2 and 3 Improvements are mostly complete. This project scope is described as Phase 4 Improvements in February 2012 study. It includes the design and construction of a new submersible lift station to supplement and work in tandem with the existing lift station to increase firm pumping capacity to 41.9 MGD (sizing to be confirmed during design phase). Selected consultant for Phase 4 shall provide a business case evaluation for the final Phase 5 Improvements as part of design scope.	73
Sewer Enterprise	High	High	Replacement of plant capital at Haikey Creek Waste Water Treatment Plant	74
Sewer Enterprise	High	High	This demolition project was bid as an alternate item to the new activated sludge aeration basin replacement project ES 2016-01 in June 2019 and not awarded due to budget constraints. Scope includes demolition and removal of the existing oxidation ditches.	75
Sewer Enterprise	High	High	The dewatering equipment at the Haikey Creek WWTP has been out of service since 2006 and the process is in need of an overhaul. The dewatering facility will be needed in coordination with anaerobic digester construction in order to discontinue sludge hauling to the Southside WWTP. This project will include two refurbished and/or new belt filter presses, a third new belt filter press, electrical improvements, new dewatered cake conveyors and controls, belt filter press feed pump replacements, inline sludge grinders, a new complete polymer system, filtrate pump replacement, and upgrades to the HVAC system.	76
			Lower Bird Creek Collection System	
Sewer Enterprise	High	High	The Spunky Creek East Branch parallels the Creek Turnpike and will provide sewer service to the area along the Creek Turnpike. Tributary lines run east from the interceptor to the Creek Turnpike and cross it.	77
State Sewer (FAP)	High	High	Southern extension of the Spunky Creek wastewater system.	78
Sewer Enterprise	High	High	Southern extension of the Spunky Creek wastewater system.	

Ref.	Project	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
	Areawide Collection System							
79	Sewer Rehab Area Wide	**39,327**	1,600	1,700	2,700	2,600	1,400	**10,000**
	Sewer Rehab Area Wide	**38,726**	2,500	2,500	1,400	2,500	3,700	**12,600**
80	Unsewered Areas Areawide	**12,500**	3,150					**3,150**
81	Concrete Pipe Replacement	**32,797**	4,958		5,260			**10,218**
	Concrete Pipe Replacement	**5,106**		5,106				**5,106**
82	Areawide Point Repairs	**27,000**	3,000	3,000	3,000	3,000	3,000	**15,000**
83	Lift Station Replacements or Upgrades	**12,612**	1,214	1,294	1,140	1,000	1,000	**5,648**
84	2008 Street Package - Sewer Rehab/Replacement	**21,000**	3,500		3,500			**7,000**
	2008 Street Package - Sewer Rehab/Replacement	**10,500**		3,500		3,500	3,500	**10,500**
85	Interceptor Condition Assessment	**3,039**	731		775	799	823	**3,128**
	Interceptor Condition Assessment	**1,552**		753				**753**
86	Force Main Condition Assessment	**4,427**	450	463	477	492	506	**2,388**
87	**Economic Development Wasterwater Infrastructure**	**2,500**	**500**	**500**	**500**	**500**	**500**	**2,500**
88	**Manhole Condition Assessment and Rehab Program**	**15,000**	**3,000**	**3,000**	**3,000**	**3,000**	**3,000**	**15,000**
89	**Emergency Sewer Repair, Rehab and Replacement**	**11,000**	**2,200**	**2,200**	**2,200**	**2,200**	**2,200**	**11,000**
	Total Areawide Collection System	**$ 237,086**	**$ 26,803**	**$ 24,016**	**$ 23,952**	**$ 19,591**	**$ 19,629**	**$ 113,991**
	Total Sanitary Sewer System Projects	**$ 400,928**	**$ 54,547**	**$ 61,943**	**$ 44,155**	**$ 48,133**	**$ 43,861**	**$ 252,639**
	Flood Control							
90	Funded Transportation Projects	**1,800**	300	400	400	400	300	**1,800**
91	Urgent Small Drainage Projects	**2,200**	350	300	450	550	550	**2,200**
92	Citywide - Channel Erosion and Stabilization	**4,900**	600	700	650	1,600	1,350	**4,900**
93	Citywide Culvert Replacement	**3,650**	800	850	1,000	500	500	**3,650**
94	Citywide Storm Sewer Extensions	**5,275**	2,150	875	750	500	1,000	**5,275**
	Citywide Storm Sewer Extensions	**10,850**	4,850	6,000				**10,850**
95	Citywide Concrete Channel Rehabilitation	**3,800**	400	750	750	900	1,000	**3,800**
	Citywide Concrete Channel Rehabilitation	**1,350**	1,000	350				**1,350**
96	Citywide Detention Pond Rehabilitation	**3,375**	1,300	525	750	300	500	**3,375**
97	Citywide Urban Lake Maintenance	**1,300**	250	250	250	250	300	**1,300**
98	Hager Creek Diversion	**22,500**	8,500	14,000				**22,500**
99	Elm Creek Flood Control	**34,000**		6,000	28,000			**34,000**
	Total Flood Control Projects	**$ 95,000**	**$ 20,500**	**$ 31,000**	**$ 33,000**	**$ 5,000**	**$ 5,500**	**$ 95,000**
	Public Facilities Maintenance							
100	Future Unfunded Projects	**59,715**						**-**
	Total Public Facilities Maintenance Projects	**$ 59,715**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL PUBLIC WORKS AND INFRASTRUCTURE PROJECTS		**$ 1,521,717**	**$ 93,207**	**$ 136,242**	**$ 101,886**	**$ 76,549**	**$ 73,377**	**$ 481,261**
SOCIAL AND ECONOMIC DEVELOPMENT								
	Working In Neighborhoods (Win)							
101	Future Unfunded Projects	**2,460**						**-**
	Total Working In Neighborhoods Projects	**$ 2,460**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Economic Development Department							
102	Future Unfunded Projects	**21,700**						**-**
	Total Planning And Development Projects	**$ 21,700**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL SOCIAL AND ECONOMIC DEVELOPMENT PROJECTS		**$ 24,160**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TRANSPORTATION								
	Metropolitan Tulsa Transit Authority							
103	Future Unfunded Projects	**30,555**						**-**
	Total Metropolitan Tulsa Transit Authority Projects	**$ 30,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL TRANSPORTATION PROJECTS		**$ 30,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
ADMINISTRATIVE AND SUPPORT SERVICES								
	Information Technology Department							
104	Future Unfunded Projects	**6,228**						**-**
	Total Information Technology Department Projects	**$ 6,228**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Funding Source	FY22	FY21	Comments	Ref.
			Areawide Collection System	
State Sewer (FAP)	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	79
Sewer Enterprise	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	
Sewer Enterprise	High	High	Unserved area projects.	80
Sewer Enterprise	High	High	Reflects estimate of need for short term infrastructure reinvestment.	81
State Sewer (FAP)	High	High	Reflects estimate of need for short term infrastructure reinvestment.	
Sewer Enterprise	High	High	Reflects estimate of need for short term infrastructure reinvestment.	82
Sewer Enterprise	High	High	Annual repairs, pump replacements, etc. to the collection system lift stations.	83
Sewer Enterprise	High	High	Annual rehab and replacement of sewered areas.	84
State Sewer (FAP)	High	High	Annual rehab and replacement of sewered areas.	
Sewer Enterprise	High	High	The scope of this BCE is to develop an asset managment plan (AMP) in FY19 to perform condition assessment on the remaining 323,000 LF of large diameter concrete inteceptor based on criticallity.	85
State Sewer Loan	High	High	The scope of this BCE is to develop an asset managment plan (AMP) in FY19 to perform condition assessment on the remaining 323,000 LF of large diameter concrete inteceptor based on criticallity.	
Sewer Enterprise	High	High	The scope of this BCE is to develop an asset managment plan in FY19 to perform future, annual condition assessment on collection system force mains based on criticality. Over 60 miles of force main are currently operated and maintained by SOM and WPC.	86
Sewer Enterprise	**New**	**N/A**	**This program will focus on providing sanitary sewer services to key sites citywide as determined by the City of Tulsa's Office of Economic Development. These key sites will be prioritized for public infrastructure needs and work toward "site certification" so as to be shovel ready to attract industrial development.**	87
Sewer Enterprise	**New**	**N/A**	**Program to fund manhole condition assessment, rehabilitation, and replacement as part of the City of Tulsa SSO mitigation plan to prevent sanitary sewer overflows, correct unsafe structural conditions, and reduce risk with regards to the management of these assets. This will be an ongoing program to manage risk, correct deficiencies, and meet regulatory requirements.**	88
Sewer Enterprise	**New**	**N/A**	**Program to fund emergency sanitary sewer system repairs, rehabilitation, and replacement as part of the City of Tulsa SSO mitigation plan to prevent sanitary sewer overflows. Operations will take the lead on this CIP line item with technical support from Engineering Services.**	89
			Flood Control	
Storm Sewer Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	90
Storm Sewer Enterprise	High	High	Design and Construct projects for draiange problems located at various sites throughout the City.	91
Storm Sewer Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	92
Storm Sewer Enterprise	High	High	Roads will continue to flood and fail around creeks/culverts which threaten life and impede emergency vehicles. Replacement needs based on Citywide Condition Assessment.	93
Storm Sewer Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	94
Storm Sewer Revenue Bond	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	
Storm Sewer Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	95
Storm Sewer Revenue Bond	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	
Storm Sewer Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	96
Storm Sewer Enterprise	High	High	City maintained urban lakes continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	97
Storm Sewer Revenue Bond	High	High	Construct outfall to Arkansas River.	98
Storm Sewer Revenue Bond	High	High	Construct master drainage plan planned West Pond.	99
			Public Facilities Maintenance	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	100
			SOCIAL AND ECONOMIC DEVELOPMENT	
			Working In Neighborhoods (Win)	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	101
			Economic Development Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	102
			TRANSPORTATION	
			Metropolitan Tulsa Transit Authority	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	103
			ADMINISTRATIVE AND SUPPORT SERVICES	
			Information Technology Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	104

Ref.	Project	Est. Cost	FY22	FY23	FY24	FY25	FY26	Total
	Asset Management Department							
105	Future Unfunded Projects	**7,100**						-
	Total Equipment Management Projects	**$ 7,100**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Short Term & Bond Issuance							
106	Short Term Capital	**70,000**						
107	Bond Issuance Costs	**850**						
	Total Short Term & Contracted Capital Projects	**$ 70,850**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL ADMINISTRATIVE AND SUPPORT SERVICES PROJECTS		**$ 84,178**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL CAPITAL PROJECTS INVENTORY		**$ 1,835,727**	**$ 93,207**	**$ 136,242**	**$ 101,886**	**$ 76,549**	**$ 73,377**	**$ 481,261**

Funding Source	FY22	FY21	Comments	Ref.
			Asset Management Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	105
			Short Term & Bond Issuance	
Future Sales Tax	Low	Low	To replace miscellaneous capital equipment.	106
Future Bond Program	Low	Low	Bond sale related costs.	107

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