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 2023-2027 CAPITAL PLAN

In November of 2019 the Improve Our Tulsa (IOT) program originally authorized in 2013 was extended through December 31, 2025. The extension adds $427.0 million in general obligation bond funded street projects to the original $355.0 million. The City has issued $306.6 million of the original $355.0 million and $91.4 million from the newly authorized $427.0 million. The remaining $384.0 million will be issued in future years with the next series of the newly authorized bonds. The Mayor and City Council share a commitment to improving the condition of our roadways and providing funds for critical services such as public safety, federal mandates, building code, and short-term capital needs. Goals identified in PlaniTulsa, the City's comprehensive plan, 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 slightly 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, alone, 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%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 the appropriations to fund these improvements are complete. Information about these programs is contained in the FY23 Capital Budget - Funded Programs Status and Operating Impact (Section 6) of this document and includes a list of the proposed funding for FY23.

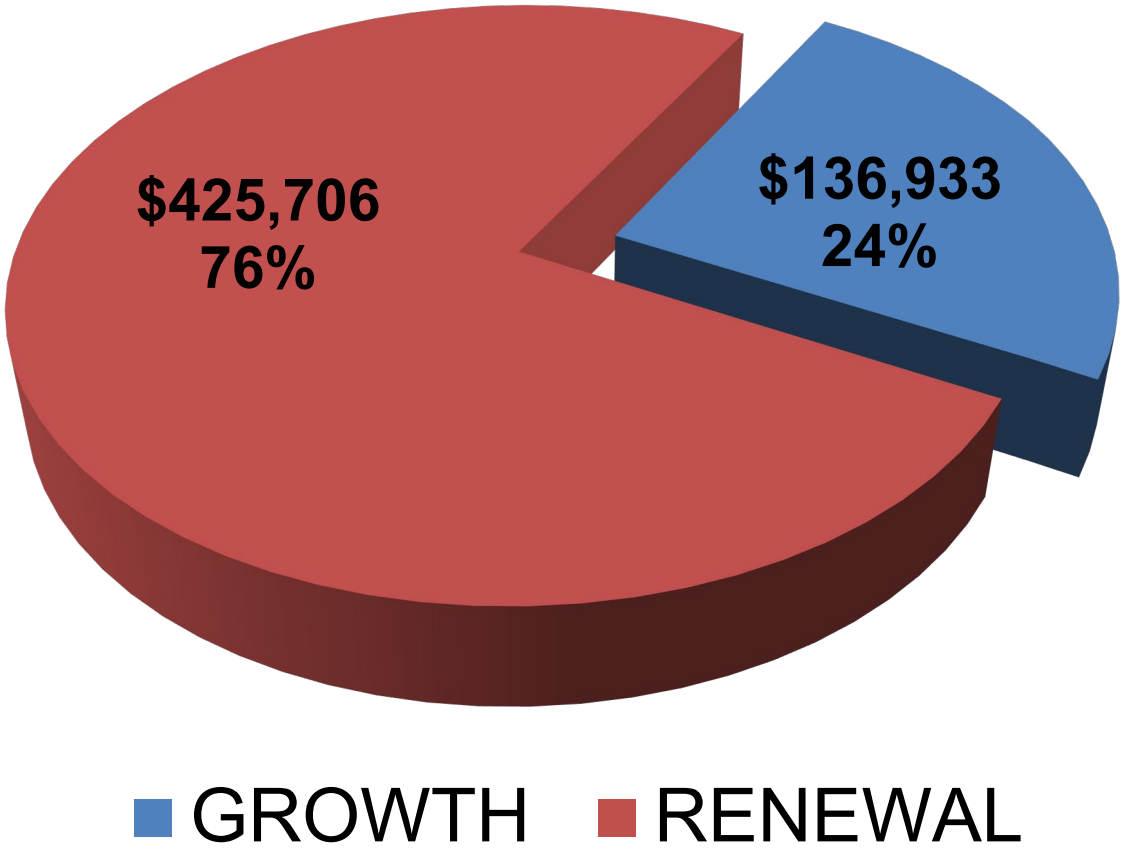
In alignment with industry best practice, the City of Tulsa is proactive in reviewing its capital needs both annually and in the strategic view of long-range goals and needs as identified in various master plans. These planning efforts have been undertaken both internally and with sister organizations involved in major capital programs in the region. The City's Finance Department reviews and maintains an inventory of master plans and recommendations that extend as far out as 50 years with over 660 projects totaling over $9.4 billion. 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 in Section 8, the 2023-2027 Capital Plan.

FIVE-YEAR LEVEL OF RECOMMENDED FUNDING
BY DEPARTMENT
Fiscal Years 2023 – 2027
(amount expressed in thousands)

Project Type	Constrained Requests	FY23-27 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	1,490,696	182,262	12%	32%
Sanitary Sewer System Projects	395,543	256,166	65%	46%
Flood Control Projects	142,043	124,211	87%	22%
Facilities Maintenance Projects	59,715	-	0%	0%
Total Public Works and Development	**$ 2,514,997**	**$ 562,639**	**22%**	**100%**
Economic 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	**$ 2,829,007**	**$ 562,639**	**20%**	**100%**

FY 2023 - 2027
RECOMMENDED CIP FUNDING
RENEWAL VS. GROWTH
($000)

Total $562,639



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.	**$182.26 million**

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.	**$256.17 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.	**$124.21 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	**$562.64 million**
SOCIAL AND ECONOMIC DEVELOPMENT **Tulsa Authority for Economic Opportunity (TAEO)** TAEO 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	**$562.64 million**

CAPITAL PLAN

CITY OF TULSA
FISCAL YEARS 2023-2027 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	FY23	FY24	FY25	FY26	FY27	FY27
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	1,490,696	58,761	26,313	35,286	27,086	34,816	182,262
Sanitary Sewer System Projects	395,543	39,939	49,425	56,863	57,238	52,701	256,166
Flood Control Projects	142,043	13,675	33,959	32,709	10,059	33,809	124,211
Facilities Maintenance Projects	59,715	-	-	-	-	-	-
Total Public Works	**$ 2,514,997**	**$ 112,375**	**$ 109,697**	**$ 124,858**	**$ 94,383**	**$ 121,326**	**$ 562,639**
Economic Development Projects	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	**$ 2,829,007**	**$ 112,375**	**$ 109,697**	**$ 124,858**	**$ 94,383**	**$ 121,326**	**$ 562,639**

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 2023-2027 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	FY23	FY24	FY25	FY26	FY27	Total
Future Bond Program	$ 427,850	$ -	$ -	$ -	$ -	$ -	**$ -**
Future Sales Tax Program	372,875	-	-	-	-	-	**-**
Water Enterprise	630,296	58,761	21,513	24,886	25,286	29,316	**159,762**
Water Revenue Bond	860,400	-	4,800	10,400	1,800	5,500	**22,500**
Sewer Enterprise	331,773	30,521	29,127	32,415	34,653	39,193	**165,909**
State Sewer Loan (SRF)	-	-	-	-	-	-	**-**
State Sewer Loan (FAP)	-	-	-	-	-	-	**-**
Sewer Revenue Bond	63,770	9,418	20,298	24,448	22,585	13,508	**90,257**
Storm Sewer Enterprise	51,193	5,425	6,609	6,309	5,959	5,809	**30,111**
Storm Sewer Revenue Bond	90,850	8,250	27,350	26,400	4,100	28,000	**94,100**
Total Funding by Source	**$ 2,829,007**	**$ 112,375**	**$ 109,697**	**$ 124,858**	**$ 94,383**	**$ 121,326**	**$ 562,639**

** 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 2023 – 2027
(amount expressed in thousands)

Project Type	Constrained Inventory	Unconstrained Inventory	Total
Police Department Projects	$ 4,960	$ 111,654	$ 116,614
Fire Department Projects	49,693	195,407	245,100
Total Public Safety and Protection	**$ 54,653**	**$ 307,061**	**$ 361,714**
Park and Recreation Projects	56,326	64,082	120,408
Tulsa Zoo Projects	15,000	63,800	78,800
Gilcrease Museum Projects	10,981	36,943	47,924
Cox Business Center and BOK Center	6,797	23,121	29,918
Performing Arts Center	5,420	253,733	259,153
River Parks Projects	25,940	226,988	252,928
Total Cultural Development and Recreation	**$ 120,464**	**$ 668,667**	**$ 789,131**
Street and Expressway Projects	427,000	3,441,380	3,868,380
Water System Projects	1,490,696	435,241	1,925,937
Sanitary Sewer System Projects	395,543	37,385	432,928
Flood Control Projects	142,043	337,789	479,832
Facilities Maintenance Projects	59,715	311,193	370,908
Total Public Works and Development	**$ 2,514,997**	**$ 4,562,987**	**$ 7,077,984**
Economic Development Projects	21,700	866,472	888,172
Working In Neighborhoods (WIN) Projects	2,460	3,386	5,846
Total Social and Economic Development	**$ 24,160**	**$ 869,858**	**$ 894,018**
Tulsa Transit Projects	30,555	45,065	75,620
Total Transportation	**$ 30,555**	**$ 45,065**	**$ 75,620**
Information Technology Department Projects	6,228	14,320	20,548
Equipment Management Projects	7,100	179,103	186,203
Short Term & Contracted Capital Projects	70,850	-	70,850
Total Administrative and Support Services	**$ 84,178**	**$ 193,423**	**$ 277,601**
Total of All Capital Project Types	**$ 2,798,357**	**$ 6,677,710**	**$ 9,476,067**

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CITY OF TULSA
FISCAL YEARS 2023-2027 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	FY23	FY24	FY25	FY26	FY27	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	Source Water Protection & Management Program	**$ 79,790**	-	500	-	500	-	**$ 1,000**
13	Spavinaw Creek Bridge Replacement	**$ 3,077**	272	104	2,701	-	-	**$ 3,077**
14	Spavinaw WTP Backwash Lagoon Stem Wall	**$ 207**	-	52	-	155	-	**$ 207**
15	Eucha, Spavinaw Water Quality Court Master	**$ 62,670**	-	500	500	500	500	**$ 2,000**
16	Eucha Dam Anchoring	**$ 17,100**	17,100	-	-	-	-	**$ 17,100**
17	Raw Water Flowlines Repairs Spavinaw	**$ 85,750**	250	-	250	-	250	**$ 750**
18	Spavinaw Pump Station 54-inch Discharge Valve	**$ 21,797**	75	350	-	-	-	**$ 425**
19	Bird Creek PS Flow Meter and Oologah Valve Replacement	**$ 4,115**	-	103	412	-	-	**$ 515**
19	Woods Pump Station Refurbishment	**$ 3,870**	250	1,200	-	-	-	**$ 1,450**

CITY OF TULSA

FISCAL YEARS 2023-2027 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 FY23	Priority FY22	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 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.	12
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.	13
Water Enterprise	High	High	Construction of Stem Wall for Spavinaw Water Treatment Plant Backwash Lagoon.	14
Water Enterprise	High	High	Implementation of the Court Master Agreement for the Spavinaw/Eucha watershed.	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	Ongoing projects to assess, rehabilitate, and repair raw water flowlines and associated facilities.	17
Water Enterprise	High	High	Replacement of 54 inch discharge valve at Spavinaw Pump Station.	18
Water Enterprise	High	High	Flow Meter and large valve replacement at Bird Creek and Oologah Pump Stations	19
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.	19

Ref.	Project	Est. Cost	FY23	FY24	FY25	FY26	FY27	Total
20	Grand River Pump Station Refurbishment	$ 8,255	-	721	3,914	-	-	$ 4,635
21	Lake Yahola Terminal Storage Repair	$ 354	101	-	253	-	-	$ 354
22	Raw Water Flowlines Repairs Oologah	$ 750	250	-	250	-	250	$ 750
23	Oologah Pump Station Chemical Building	$ 618	-	103	515	-	-	$ 618
24	Raw Water SCADA System	$ 1,288	-	258	1,030	-	-	$ 1,288
	Total Supply	$ 289,641	$ 18,298	$ 3,891	$ 9,825	$ 1,155	$ 1,000	$ 34,169
	Treatment & Pumping							
25	Comprehensive Water System Study	$ 530	530	-	-	-	-	$ 530
26	(19) A.B. Jewell Improvements-150 MGD Expansion (Phase I)	$ 29,392	-	-	1,271	2,121	10,000	$ 13,392
27	(88) A.B. Jewell Clarifier Upgrades/Rehabilitation	$ 10,800	9,500	-	-	-	-	$ 9,500
28	(79) A.B. Jewell -Chemical Feed Facilities Improvements	$ 6,114	-	721	-	3,193	-	$ 3,914
29	A.B. Jewell WTP Site Improvements	$ 1,823	1,623	-	-	-	-	$ 1,623
30	A.B. Jewell WTP Filter Gallery Pipe and Concrete Replacement	$ 1,126	-	1,126	-	-	-	$ 1,126
	Total Treatment And Pumping	$ 49,785	$ 11,653	$ 1,847	$ 1,271	$ 5,314	$ 10,000	$ 30,085
	Transmission & Distribution							
31	(69) Large Water Valve Replacement-City Wide	$ 718	-	103	103	103	103	$ 412
32	(141) Transmission Line Condition Assessment-Citywide	$ 600	200	-	200	-	200	$ 600
33	Economic Development Citywide	$ 5,500	500	500	500	500	500	$ 2,500
34	(26) Water Line Relocations-Citywide	$ 54,400	900	900	950	950	950	$ 4,650
35	(55) Water Mains Replacements - City Wide-Rev. Bonds	$ 860,400	-	4,800	10,400	1,800	5,500	$ 22,500
36	(55) Water Mains Replacements - City Wide-Enterprise Fund	$ 72,203	11,498	7,398	2,288	11,268	7,588	$ 40,040
37	(57) Dead-End Connections & Extensions	$ 2,800	350	350	350	350	350	$ 1,750
38	(61) Unserved Areas	$ 60,068	-	-	-	-	119	$ 119
39	(83) Utility Bridges - Repaint/Rehabilitation	$ 542	-	-	106	-	106	$ 212
40	(62) Water Tanks - Repaint/Rehabilitation	$ 60,068	-	-	2,459	-	2,609	$ 5,068
41	Pump Station Rehabilitation (Reservoir Hill PS and SSS-PS)	$ 1,432	-	103	1,329	-	-	$ 1,432
42	Facility Roof Repairs Citywide	$ 3,000	600	600	600	600	600	$ 3,000
43	Water Vault & Large Meter Upgrades	$ 1,496	-	-	212	212	212	$ 636
	Total Transmission And Distribution	$ 1,123,227	$ 14,048	$ 14,754	$ 19,497	$ 15,783	$ 18,837	$ 82,919
	Areawide							
44	(67) 23rd & Jackson Facilities Maint and Improvements	$ 3,792	1,264	1,264	-	-	-	$ 2,528
45	(36) Automatic Meter Reading - City Wide	$ 19,713	12,713	3,825	3,939	4,057	4,179	$ 28,713
46	Lead Service Line Inventory	$ 4,464	711	732	754	777	800	$ 3,774
47	ArcFlash Inspection	$ 74	74	-	-	-	-	$ 74
	Total Areawide	$ 28,043	$ 14,762	$ 5,821	$ 4,693	$ 4,834	$ 4,979	$ 118,008
	Total Water System Projects	$ 1,490,696	$ 58,761	$ 26,313	$ 35,286	$ 27,086	$ 34,816	$ 182,262
	Sanitary Sewer System							
	Northside Plant							
48	Northside WWTP FEB Concrete/Structural Repair	$ 4,144	-	-	464	3,680	-	$ 4,144
49	Northside WWTP Digester Lid Repair Phase 2	$ 2,623	2,623	-	-	-	-	$ 2,623

Funding Source	FY23	FY22	Comments	Ref.
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.	20
Water Enterprise	High	High	Evaluate, design and reconstruct the intake tower in Lake Yahola (Sequoyah Cell) to manage the routing of raw water into the structure and to better manage the release or storing of water within the cells. Also, the and continue the routine maintenance and preventive inspection program which included the repair and patch of the concrete slope walls.	21
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 create assessment reports and help in the scheduling of repairs as needed.	22
Water Enterprise	High	High	Improvements at Oologah Pump Station Chemical Building	23
Water Enterprise	High	High	Ongoing maintenance of SCADA Systems for Raw Water.	24
			Treatment & Pumping	
Water Enterprise	High	High	Update to the Comprehensive Water System Study; including asset, process, and rates.	25
Water Enterprise	High	High	Provide a firm treatment capacity of 150 MGD, inlcuding new raw water junction chamber.	26
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.	27
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.	28
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.	29
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.	30
			Transmission & Distribution	
Water Enterprise	High	High	Replace large water valves throughout water system.	31
Water Enterprise	High	High	Monitor and evaluate transmission lines citywide. Funding may also be used to modify and improve entry for testing and monitoring.	32
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.	33
Water Enterprise	High	High	Provide funding for ongoing program to relocate water lines associated with other City improvement projects.	34
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.	35
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.	36
Water Enterprise	High	High	Provide water service to unserved, developed areas in response to citizen petitions.	37
Water Enterprise	High	High	Provide water service to unserved, developed areas in response to citizen petitions.	38
Water Enterprise	High	High	This project will provide maintenance as needed for the Utility Bridges with City waterlines.	39
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.	40
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.	41
Water Enterprise	High	High	Repair or replace citywide water facility roofs that meet the requirement criteria or that have excessive leaks.	42
Water Enterprise	High	High	Ongoing program to replace water meters citywide to support revenue assurance policies.	43
Water Enterprise	High	High	Ongoing program to maintain City-owned facilities located at 23rd and Jackson.	44
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.	45
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.	46
Water Enterprise	High	High	Inspect and document water lines for potential energy hazard levels or arcflash vunerabilty.	47
			Sanitary Sewer System **Northside Plant**	
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.	48
Sewer Enterprise	High	High	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.	49

Ref.	Project	Est. Cost	FY23	FY24	FY25	FY26	FY27	Total
50	Northside WWTP Aeration Basin Baffle Addition	**$ 688**	-	89	599	-	-	**$ 688**
51	Northside WWTP Aeration Jockey Blower Addition	**$ 1,197**	71	1,126	-	-	-	**$ 1,197**
52	Northside Interceptor Improvements	**$ 8,198**	-	-	591	4,143	-	**$ 4,734**
53	Flatrock Creek Rehabilitation and Relief	**$ 22,045**	-	783		8,028		**$ 8,811**
54	Flatrock Creek Rehabilitation and Relief (Revenue Bond)				8,741		4,493	**$ 13,234**
55	Coal Creek Rehabilitation	**$ 13,646**	-	518	3,282	1,140	8,706	**$ 13,646**
	Total Northside Plant	**$ 52,541**	**$ 2,694**	**$ 2,516**	**$ 13,677**	**$ 16,991**	**$ 13,199**	**$ 49,077**
	Southside Plant							
56	Southside WWTP Lagoon No. 7 Connection	**$ 240**	219	-	-	-	-	**$ 219**
57	Southside WWTP Sludge Dewatering Alternative	**$ 13,153**	1,164	11,989	-	-	-	**$ 13,153**
58	Southside WWTP External Draft Tubes for Digester Mixing	**$ 522**	-	-	-	-	522	**$ 522**
59	Southside WWTP Digester Feed Piping Improvements	**$ 150**	13	137	-	-	-	**$ 150**
60	Southside WWTP Digester Liquid Loadout	**$ 43**	39	-	-	-	-	**$ 39**
61	Southside WWTP Replacement Sludge Transfer Piping	**$ 97**	89	-	-	-	-	**$ 89**
62	Southside WWTP Electrical Upgrades	**$ 4,072**	-	-	-	853	3,219	**$ 4,072**
63	West Bank Interceptor Improvements	**$ 5,216**	-	-	-	377	4,839	**$ 5,216**
64	West Tulsa 39, 40, 41-S Relief	**$ 22,908**	-	-	-	192	1,099	**$ 1,291**
65	Upper Joe Creek - East Branch	**$ 15,468**	-	-	-	196	-	**$ 196**
66	Upper Joe Creek - East Branch (Revenue Bond)		4,311	4,188	4,006	-	2,515	**$ 15,020**
67	Crow Creek Rehab & Relief	**$ 21,704**	498	-	-	371	4,783	**$ 5,652**
68	Crow Creek Rehab & Relief (Revenue Bond)		-	5,250	5,001	-	-	**$ 10,251**

Funding Source	FY23	FY22	Comments	Ref.
Sewer Enterprise	High	High	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.	50
Sewer Enterprise	High	High	Addition of low pressure screw compressor for nighttime low air demands.	51
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.	52
Sewer Enterprise	High	High	Provide added capacity to overloaded lines.	53
Sewer Revenue Bond	High	High	Provide added capacity to overloaded lines.	54
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.	55
			Southside Plant	
Sewer Enterprise	High	High	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.	56
Sewer Enterprise	High	High	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.	57
Sewer Enterprise	High	High	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.	58
Sewer Enterprise	High	High	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.	59
Sewer Enterprise	High	High	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.	60
Sewer Enterprise	High	High	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.	61
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.	62
Sewer Enterprise	High	High	Includes major rehabilitation and/or replacement of theWest Bank Interceptor assets.	63
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.	64
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.	65
Sewer Revenue Bond	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
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.	67
Sewer Revenue Bond	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.	68

Ref.	Project	Est. Cost	FY23	FY24	FY25	FY26	FY27	Total
69	Joe Creek/LaFortune Park Rehab	**$ 5,156**	-	96	-	-	-	**$ 96**
	Total Southside Plant	**$ 88,729**	**$ 6,333**	**$ 21,660**	**$ 9,007**	**$ 1,989**	**$ 16,977**	**$ 55,966**
	Haikey Creek Plant							
70	Haikey Interceptor Rehab Phase 2	**$ 2,286**	2,122	-	-	-	-	**$ 2,122**
71	Haikey Creek Lift Station Improvements - Phase 4 Improvements	**$ 2,193**	-	-	286	1,907	-	**$ 2,193**
72	Haikey Creek WWTP Composting Facility	**$ 17,853**	-	-	3,068	-	-	**$ 3,068**
73	Haikey Creek WWTP Composting Facility (Revenue Bond)		-	-	-	14,785	-	**$ 14,785**
74	Haikey Creek Oxidation Ditch Demolition	**$ 210**	-	-	210	-	-	**$ 210**
75	Haikey Creek SAMS Equipment Replacements, including Project 118 (FEB improvments), and 171 (annual equipment R&R) Includes lines 100 and 110	**$ 3,995**	148	519	535	551	567	**$ 2,320**
	Total Haikey Creek Plant	**$ 26,537**	**$ 2,270**	**$ 519**	**$ 4,099**	**$ 17,243**	**$ 567**	**$ 24,698**
	Lower Bird Creek Plant							
76	Spunky Creek East Branch Contract 1	**$ 4,894**	303	251	4,340	-	-	**$ 4,894**
77	Spunky Creek Main Stem South Contract 1-5	**$ 8,249**	545	540	7,164	-	-	**$ 8,249**
78	Spunky Creek Main Stem North LS Relief	**$ 11,607**	-	-	-	-	904	**$ 904**
	Total Lower Bird Creek Plant	**$ 24,750**	**$ 848**	**$ 791**	**$ 11,504**	**$ -**	**$ 904**	**$ 14,047**
	Wastewater System Misc. Improvements							
79	Lift Station Replacements or Upgrades	**$ 10,601**	1,294	1,140	1,000	1,000	1,000	**$ 5,434**
80	ArcFlash Inspection Sewer	**$ 453**	453	-	-	-	-	**$ 453**
81	Wastewater Comprehensive Study Update	**$ 530**	530	-	-	-	-	**$ 530**
	Total Wastewater System Misc. Imp	**$ 10,601**	**$ 2,277**	**$ 1,140**	**$ 1,000**	**$ 1,000**	**$ 1,000**	**$ 6,417**
	Areawide Collection System							
82	Sewer Rehab Area Wide	**$ 24,600**	4,100	2,000	900	2,200	3,500	**$ 12,700**
83	Sewer Rehab Area Wide (Revenue Bond)	**$ 36,427**	-	2,100	3,200	4,300	3,000	**$ 12,600**
84	Unsewered Areas Areawide	**$ 12,382**	2,907	-	-	-	-	**$ 2,907**
85	Areawide Point Repairs	**$ 24,000**	3,000	3,000	3,000	3,000	3,000	**$ 15,000**
86	2008 Street Package - Sewer Rehab/Replacement	**$ 28,000**	3,500	-	-	-	-	**$ 3,500**
87	2008 Street Package - Sewer Rehab/Replacement (Revenue Bond)		-	3,500	3,500	3,500	3,500	**$ 14,000**
88	Force Main Condition Assessment	**$ 3,920**	450	463	477	492	506	**$ 2,388**
89	Interceptor Condition Assessment	**$ 4,730**	753	776	799	823	848	**$ 3,999**
90	Concrete Pipe Replacement (Revenue Bond)	**$ 27,343**	5,107	5,260	-	-	-	**$ 10,367**
91	Economic Development Wastewater Infrastructure	**$ 4,000**	500	500	500	500	500	**$ 2,500**
92	Manhole Condition Assessment and Rehabilitation Program	**$ 15,000**	3,000	3,000	3,000	3,000	3,000	**$ 15,000**
93	Emergency Sewer Repair, Rehabilitation and Replacement	**$ 11,000**	2,200	2,200	2,200	2,200	2,200	**$ 11,000**
	Total Areawide Collection System	**$ 191,402**	**$ 25,517**	**$ 22,799**	**$ 17,576**	**$ 20,015**	**$ 20,054**	**$ 105,961**
	Total Sanitary Sewer System Projects	**$ 395,543**	**$ 39,939**	**$ 49,425**	**$ 56,863**	**$ 57,238**	**$ 52,701**	**$ 256,166**
	Stormwater							
94	Maintenance Zone 5016	**$ 50**	-	50	-	-	-	**$ 50**
95	Maintenance Zone 5027	**$ 150**	-	-	150	-	-	**$ 150**
96	Maintenance Zone 5039	**$ 400**	200	200	-	-	-	**$ 400**
97	Maintenance Zone 9044	**$ 250**	-	-	250	-	-	**$ 250**
98	Gilcrease and Apache	**$ 200**	200	-	-	-	-	**$ 200**
99	56th and Cincinnati SW 2036A0001Z	**$ 300**	-	-	-	300	-	**$ 300**
100	41st Union to Elwood	**$ 50**	-	50	-	-	-	**$ 50**
101	Admiral Pl - Memorial to Mingo	**$ 150**	-	150	-	-	-	**$ 150**
102	Lewis Avenue 41st to I-44	**$ 2,000**	2,000	-	-	-	-	**$ 2,000**
103	Citywide FEMA buyout program	**$ 1,900**	100	200	250	250	250	**$ 1,050**
104	Freese & Nichols On-Call Design	**$ 875**	-	125	125	125	125	**$ 500**
105	Meshek On-Call Design	**$ 1,000**	-	125	125	125	125	**$ 500**
106	116th and Sheridan Erosion Stablization	**$ 3,315**	-	-	-	-	250	**$ 250**
107	Upper Bell Trib at Fontana	**$ 100**	100	-	-	-	-	**$ 100**
108	41st and Yale	**$ 100**	100	-	-	-	-	**$ 100**
109	47th and Lewis	**$ 75**	75	-	-	-	-	**$ 75**
110	Dawson Road Flooding	**$ 75**	75	-	-	-	-	**$ 75**
111	2929 S Woodward Blvd Drainage Improvement	**$ 200**	200	-	-	-	-	**$ 200**

Funding Source	FY23	FY22	Comments	Ref.
Sewer Enterprise	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.	**69**
				Haikey Creek Plant
Sewer Enterprise	High	High	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	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.	71
Sewer Enterprise	High	High	Improvements at the Haikey Creek Wastewater Treatment Plant Composting Facility.	72
Sewer Revenue Bond	High	High	Improvements at the Haikey Creek Wastewater Treatment Plant Composting Facility.	73
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.	74
Sewer Enterprise	High	High	Replacement of plant capital at Haikey Creek Waste Water Treatment Plant	75
				Lower Bird Creek Plant
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.	76
Sewer Enterprise	High	High	Southern extension of the Spunky Creek wastewater system.	77
Sewer Enterprise	High	High	Southern extension of the Spunky Creek wastewater system.	78
				Wastewater System Misc. Improvements
Sewer Enterprise	High	High	Annual repairs, pump replacements, etc. to the collection system lift stations.	79
Sewer Enterprise	High	High	Inspect and document sewer lines for potential energy hazard levels or arcflash vunerabilty.	80
Sewer Enterprise	High	High	Update to the Comprehensive Wastewater System Study; including asset, process, and rates.	81
				Areawide Collection System
Sewer Enterprise	High	High	Project reflects funds not allocated to a specific I&I Abatement project.	82
Sewer Revenue Bond			Project reflects funds not allocated to a specific I&I Abatement project.	83
Sewer Enterprise	High	High	Unserved area projects.	84
Sewer Enterprise			Reflects estimate of need for short term infrastructure reinvestment.	85
Sewer Enterprise	High	High	Annual rehab and replacement of sewered areas.	86
Sewer Revenue Bond			Annual rehab and replacement of sewered areas.	87
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.	88
Sewer Enterprise			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.	89
Sewer Revenue Bond	High	High	Reflects estimate of need for short term infrastructure reinvestment.	90
Sewer Enterprise			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.	91
Sewer Enterprise	High	High	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.	92
Sewer Enterprise	High	High	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.	93
				Stormwater
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	94
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	95
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	96
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	97
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	98
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	99
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	100
Stormwater Enterprise	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	101
Stormwater Revenue Bond	High	High	Reduce flooding and erosion inside funded transportation projects. Increase capacity as needed for storm sewer.	102
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	103
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	104
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	105
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	106
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	107
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	108
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	109
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	110
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	111

Ref.	Project	Est. Cost	FY23	FY24	FY25	FY26	FY27	Total
112	Citywide Geotechnical Testing	**$ 550**	50	50	50	50	50	**$ 250**
113	Vensel Creek Access Road	**$ 200**	200	-	-	-	-	**$ 200**
114	Vensel Creek - 84th St to Pittsburg	**$ 200**	-	-	200	-	-	**$ 200**
115	Vensel Creek - 84th St to Pittsburg	**$ -**	-	-	1,400	-	-	**$ 1,400**
116	Little Haikey Channel Improvements	**$ 400**	-	400	-	-	-	**$ 400**
117	Little Haikey Channel Improvements	**$ 1,250**	-	1,250	-	-	-	**$ 1,250**
118	Crescent Park	**$ 300**	-	-	-	300	-	**$ 300**
119	Crescent Park	**$ -**	-	-	-	1,100	-	**$ 1,100**
120	Zink Lake - Peary Creek	**$ 935**	500	-	-	-	-	**$ 500**
121	N Toledo Bridge 22 and 23	**$ 100**	100	-	-	-	-	**$ 100**
122	N Toledo Bridge 22 and 23	**$ -**	750	-	-	-	-	**$ 750**
123	Zink Park - 32nd and Trenton	**$ 450**	-	-	450	-	-	**$ 450**
124	Citywide Culvert Replacement	**$ 2,750**	-	250	250	250	500	**$ 1,250**
125	Citywide Geotechnical Testing	**$ 150**	-	50	50	50	-	**$ 150**
126	Gilcrease and Apache	**$ 150**	-	150	-	-	-	**$ 150**
127	Citywide On-Call Survey	**$ 1,150**	100	150	150	150	150	**$ 700**
128	4th and Kenosha storm sewer improvement	**$ 530**	300	-	-	-	-	**$ 300**
129	4th and Kenosha storm sewer improvement (Revenue Bond)	**$ 7,000**	1,000	6,000	-	-	-	**$ 7,000**
130	Peary Creek	**$ 1,000**	1,000	-	-	-	-	**$ 1,000**
131	Mingo and Audobon Creek	**$ 1,100**	1,100	-	-	-	-	**$ 1,100**
132	Bell Creek Channel- Fulton Neighborhood	**$ 1,100**	-	1,100	-	-	-	**$ 1,100**
133	Citywide Concrete Channel Rehabilitation	**$ 6,000**	-	-	1,000	1,000	1,000	**$ 3,000**
134	Town Center Detention	**$ 525**	525	-	-	-	-	**$ 525**
135	OWRB Annual Dam Inspection	**$ 205**	-	60	-	-	70	**$ 130**
136	Veteran's Park Trash Interceptor	**$ 100**	-	-	100	-	-	**$ 100**
137	Mohawk and Bird Creek Pond Outlet	**$ 690**	-	690	-	-	-	**$ 690**
138	Citywide Detention Pond Rehabilitation	**$ 2,655**	-	-	300	500	430	**$ 1,230**
139	Owen Park	**$ 500**	250	-	-	-	-	**$ 250**
140	Tulsa Park Ponds - Annual	**$ 2,100**	-	250	300	300	300	**$ 1,150**
141	Citywide Economic Development	**$ 3,500**	-	500	500	500	500	**$ 2,000**
142	American Airlines	**$ 1,000**	1,000	-	-	-	-	**$ 1,000**
143	Hager Creek - Storm Sewer Relief Line	**$ 33,000**	3,000	15,000	15,000	-	-	**$ 33,000**
144	Elm Creek - Pearl West Detention Pond	**$ 37,000**	-	-	6,000	3,000	28,000	**$ 37,000**
145	Comanche Park Stormwater	**$ 5,000**	500	4,500	-	-	-	**$ 5,000**
146	Stormwater Maintenance Building Expansion	**$ 4,600**	-	600	4,000	-	-	**$ 4,600**
147	Stormwater Maintenance Building Expansion	**$ 50**	50	-	-	-	-	**$ 50**
148	R&R	**$ 14,613**	200	2,059	2,059	2,059	2,059	**$ 8,436**
	Total Stormwater Projects	**$ 142,043**	**$ 13,675**	**$ 33,959**	**$ 32,709**	**$ 10,059**	**$ 33,809**	**$ 124,211**
	Public Facilities Maintenance							
149	Future Unfunded Projects	**59,715**						**-**
	Total Public Facilities Maintenance Projects	**$ 59,715**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL PUBLIC WORKS AND INFRASTRUCTURE PROJECTS		**$ 2,514,997**	**$ 112,375**	**$ 109,697**	**$ 124,858**	**$ 94,383**	**$ 121,326**	**$ 562,639**
SOCIAL AND ECONOMIC DEVELOPMENT								
	Working In Neighborhoods (Win)							
150	Future Unfunded Projects	**2,460**						**-**
	Total Working In Neighborhoods Projects	**$ 2,460**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Economic Development Department							
151	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							
152	Future Unfunded Projects	**30,555**						**-**
	Total Metropolitan Tulsa Transit Authority Projects	**$ 30,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL TRANSPORTATION PROJECTS		**$ 30,555**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**

Funding Source	FY23	FY22	Comments	Ref.
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	112
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	113
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	114
Stormwater Revenue Bond	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	115
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	116
Stormwater Revenue Bond	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	117
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	118
Stormwater Revenue Bond	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	119
Stormwater Enterprise	High	High	Unmaintained natural creeks and deferred maintenance of improved channels threatens public safety and property.	120
Stormwater 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.	121
Stormwater Revenue Bond	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.	122
Stormwater 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.	123
Stormwater 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.	124
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	125
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	126
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	127
Stormwater Enterprise	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	128
Stormwater Revenue Bond	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	129
Stormwater Revenue Bond	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	130
Stormwater Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	131
Stormwater Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	132
Stormwater Enterprise	High	High	City maintained improved channels continue to degrade increasing the cost of repairs every year deferred. Increased chance of catastrophic failures.	133
Stormwater Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	134
Stormwater Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	135
Stormwater Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	136
Stormwater Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	137
Stormwater Enterprise	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	138
Stormwater Enterprise	High	High	City maintained urban lakes continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	139
Stormwater Enterprise	High	High	City maintained urban lakes continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	140
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	141
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	142
Stormwater Revenue Bond	High	High	Substandard storm sewer systems continue to exist that continue to flood homes, garages, and businesses which threatens life and property.	143
Stormwater Revenue Bond	High	High	City maintained ponds continue to degrade increasing cost of repairs every year deferred. Increased chance of failure causes flooding downstream.	144
Stormwater Revenue Bond	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	145
Stormwater Revenue Bond	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	146
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	147
Stormwater Enterprise	High	High	Design and Construct projects for drainage problems located at various sites throughout the City.	148
			Public Facilities Maintenance	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	149
			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.	150
			Economic Development Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	151
			TRANSPORTATION	
			Metropolitan Tulsa Transit Authority	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	152

Ref.	Project	Est. Cost	FY23	FY24	FY25	FY26	FY27	Total
ADMINISTRATIVE AND SUPPORT SERVICES								
	Information Technology Department							
153	Future Unfunded Projects	**6,228**						-
	Total Information Technology Department Projects	**$ 6,228**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Asset Management Department							
154	Future Unfunded Projects	**7,100**						-
	Total Equipment Management Projects	**$ 7,100**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
	Short Term & Bond Issuance							
155	Short Term Capital	**70,000**						
156	Bond Issuance Costs	**850**						
	Total Short Term & Contracted Capital Projects	**$ 70,850**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL ADMINISTRATIVE AND SUPPORT SERVICES PROJECTS		**$ 84,178**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**	**$ -**
TOTAL CAPITAL PROJECTS INVENTORY		**$ 2,829,007**	**$ 112,375**	**$ 109,697**	**$ 124,858**	**$ 94,383**	**$ 121,326**	**$ 562,639**

Funding Source	FY23	FY22	Comments	Ref.
			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.	153
			Asset Management Department	
Future Sales Tax	Low	Low	Future projects identified within Constrained Inventory, but not funded within FY21-25 timeframe.	154
			Short Term & Bond Issuance	
Future Sales Tax	Low	Low	To replace miscellaneous capital equipment.	155
Future Bond Program	Low	Low	Bond sale related costs.	156