

**Item**

Public hearing approving new capital improvement projects for the Capital Improvement Plan, Fiscal Year 2022 – 2026.

**Background**

The Capital Improvement Plan (CIP), containing recommended capital projects for the next five years, is a tool to implement the Comprehensive Plan. State Statutes provide that once a comprehensive plan has been adopted, no capital project shall be constructed or authorized without approval of its location, character and extent by the Planning Commission.

City departments generated the list of new capital improvements in the plan. The City of Tulsa prepares an annual Capital Improvement Plan that is published with the fiscal year budget. The Planning Commission generally reviews any new additions proposed for inclusion in the proposed capital plan before the draft budget and capital plan are published.

**Staff Analysis**

TMAPC staff reviewed the new proposed Capital Improvement Plan projects for consistency with the City of Tulsa's Comprehensive Plan. In general, the improvements listed are consistent with the Comprehensive Plan.

A new CIP projects summary is attached. Below is a summarized list of those items, including: the name of requesting Department, the project name, the item number(s) that correspond with the attached chart, and staff comments regarding relationship and consistency with the Comprehensive Plan. Recommendations that are Small Area Plan or Master Plan recommendations are identified with an asterisk (\*).

- **Equipment Management**

1. Public Service Complex

- Tulsa Police Department Headquarters
- Tulsa Fire Headquarters
- Tulsa Police Department "CompStat"
- Tulsa Area Emergency Management Agency (TAEMA) EOC
- Municipal Court
- Jail (60 Beds)
- Structured Parking appropriate for the facility

**Staff comments:** *These proposed projects represent a new construction project for a Public Service Complex in the City of Tulsa and are consistent with the plan's land use designation of Employment and Area of Growth designations.*

- **Fire**

2. Classroom Building Fire Safety Training Center
3. Refurbish Fire Headquarters
4. Relocate Fire Supply
5. Relocation of Fire Station 12
6. Special Equipment & Storage Warehouse
7. Storage/Classroom for Search and Rescue at North Sewer Treatment

**Staff comments:** *The projects will provide the City of Tulsa Fire Department with improved facilities and equipment. Although no specific guidance is provided in the Comprehensive Plan, the projects will contribute to public safety and maintenance of existing City facilities.*



- **Gilcrease**

8. Amphitheatre
9. Drop-off ADA Parking
10. Earth Plaza
11. Education and Space Addition (Two-Options-360 of Annex)
12. Enclosed Pavilion
13. Gilcrease Bike and Hiking Trail
14. Large Production Facility Option 1
15. Night Garden
16. Open Pavilion
17. Perimeter Fence Replacement
18. Small Production Facility Option 2
19. Berm and Front Landing
20. Street Improvements/Access Drive

**Staff comments:** *These proposed projects represent improvements to an existing museum and surrounding amenities in the City of Tulsa and are consistent with the Plan's focus on enhancing education and improving Tulsans' quality of life. Items 9, 13, & 20 also align with transportation goals identified in the Plan:*

- *Goal 13— Pedestrians have easy access to jobs, shopping, and recreation.*
- *Goal 14— Tulsans safely and efficiently use bicycles to go to work, shop, and recreation areas. (p. TR-41)*

- **Police**

21. Tulsa 911 Dispatch Console Furniture Modernization

**Staff comments:** *The project above proposes improvements to existing Police Department facilities. Although no specific guidance is provided in the Comprehensive Plan, the project will contribute to public safety and maintenance of existing City facilities.*

- **Sewer**

22. 21<sup>st</sup> and Riverside Lift Station Improvements- Phase 3
23. Aeration Basin Baffle Addition
24. Anaerobic Feed Blending Improvements
25. Cherry Creek Lift-Station Capacity Enhancements
26. Digester Feed Piping Improvements
27. Digester Liquid Loadout
28. Economic Development Citywide
29. Emergency Sewer Repair, Rehabilitation, and Replacement
30. External Draft Tubes for Digester Mixing
31. Haikey Interceptor Rehab Phase 2
32. Lagoon No. 7 Connection
33. LBC Oxidation Ditch Mixers
34. Manhole Condition Assessment and Rehabilitation Program
35. Northside WWTP Digester Lid Repair (Phase 1)
36. Northside WWTP Digester Lid Repair (Phase 2)
37. Replacement Sludge Transfer Piping
38. Sludge Dewatering Alternative
39. WAS Instrumentation and Piping

**Staff comments:** *The above projects are generally sewer maintenance/improvements. One of the Guiding Principles for Economic Development is "The City invests in the critical infrastructure necessary to develop a robust and diversified economy." (p. 6) The*

17.2



projects are generally consistent with the Comprehensive Plan's direction on infrastructure.

- **Tulsa Convention Center**

- 40. CBC- Elevator Modernization

**Staff comments:** The proposed improvements/rehabilitation to the Tulsa Convention Center Elevators is consistent with the Comprehensive Plan's understanding of the downtown core as Tulsa's "...most intense regional center of commerce, housing, culture and entertainment." (p. LU-31)

- **Water**

- 41. ABJ Lab Prep Rooms Remodel

- 42. COT Fiber-56<sup>th</sup> and Garnett to 51<sup>st</sup> and 129<sup>th</sup>

- 43. Raw Water Flowline Repairs – Oologah

- 44. Spavinaw Creek Bridge Replacement

**Staff comments:** The above projects are generally water maintenance, rehabilitation, and improvements. One of the Guiding Principles for Economic Development is "The City invests in the critical infrastructure necessary to develop a robust and diversified economy." (p. 6) The projects are generally consistent with the Comprehensive Plan's direction on infrastructure.

### Staff recommendation

Approve based on the finding that the new capital improvement projects for the Capital Improvement Plan, FY 2022-2026 are in conformance with the Tulsa Comprehensive Plan.

### Attachment(s)

FY 22-26 TMAPC New CIP Projects (table)

PROJECT DEPARTMENT PURPOSE CLASSIFICATION EST USEFUL LIFE ADDRESS / LOCATION DEPT PRIORITY

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
1	Equipment Management	Develop a lease-to-purchase, comprehensive, integrated facility housing 7 main uses: 1) Tulsa Police Department Headquarters 2) Tulsa Fire Headquarters 3) Tulsa Police Department "CompStat" 4) Tulsa Area Emergency Management Agency (TAEMA) EOC 5) Municipal Courts 6) Jail (60 beds) 7) Structured Parking appropriate for the facility	New	30 Years	Needs to be close to the County's courts ultimate location	High
2	Fire	Provide a multi-room and capable classroom building that can also be used for a back-up Emergency Operating Center (EOC), back-up 9-1-1 center and comprehensive training center.	New	50 Years	Fire Safety Training Center, 2819 North New Haven City Wide with construction in Council District 1	TFD #16, Medium
3	Fire	Refurbish Fire Headquarters to improve ADA relationships, interior appearance, energy efficiency and reliability of systems.	Rehabilitation	50 Years	1760 Newblock Park Drive	TFD #4 Medium
4	Fire	Relocate TFD Physical Resources and EMD Fire Garage outside of the flood zone	Replacement	50 Years	To be determined	TFD #21, Medium
5	Fire	Relocate Fire Station 12 towards the West to improve service delivery and interface with newer apparatus.	Replacement	50	To be determined	TFD #14, Medium
6	Fire	Provide a facility to stage special equipment, resources and storage warehouse to eliminate the need to lease warehouse space	New	50 Years	To be determined	TFD #22, Deferrable
7	Fire	Provide a classroom with toilet facilities at the search and rescue pile used for training that is located immediately North of the North water treatment facility	New	50 Years	North Sewer treatment facility	TFD #15, Deferrable
8	Gilcrease	This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	High
9	Gilcrease	If we are able to proceed with the Earth Plaza, the new Drop Off near the Gilcrease House will be a good accompaniment since it will move the ADA parking that will be closest to the buildings on campus. This is the area south of the Earth plaza towards the Mausoleum. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	Medium
10	Gilcrease	Area between new Museum Bldg and HCAR - included the site demo, plaza soft and landscape, the water feature and landscape features. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	High
11	Gilcrease	Due to lack of funding from the Vision package for the construction of the new museum, the current architectural program does not include space for educational classrooms, workshop studio space or programming areas. Two options are proposed as add alternates to the Vision funding for the construction of the new museum. See tab 19 for cost estimates for both options.	Expansion		Gilcrease Museum	High
12	Gilcrease	Enclosed Operable Window Pavilion 9,500 sq ft / event space for catering and other events/performance that is larger. Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package	Expansion		Gilcrease Museum	Medium
13	Gilcrease	Construction and maintenance of a bike and hiking trail on the Gilcrease property. Including construction costs for soft surface trails, restrooms, water fountains, parking lot, bike racks, trail and parking lighting, pedestrian activated signals, signage and maintenance (i.e., annual resurfacing of trails, mowing and tree maintenance, restroom cleaning, trash pick-up, graffiti removal, landscaping). See detail Tab 7	New		Gilcrease Museum	
14	Gilcrease	5,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
15	Gilcrease	Area West of the new museum building - included in this total is a bit of site clearing, the covered bridges, the night garden feature-lighting and the art walk. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	High

17.4

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
16	Open Pavilion	Covered Open Air Pavilion - 2,500 sq ft. West of the night garden on the bluff. More rustic, open air option based on the bike trail discussions which is smaller. Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
17	Perimeter Fence Replacement	Replace stone wall on the east and south side of the property with a fence complimentary to new construction.	Rehabilitation		Gilcrease Museum	Medium
18	Small Production Facility Option 2	2,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
19	Berm and Front Landing	Pairs well with the Amphitheater-enhanced landscaping and berming that will connect the new front entry and the amphitheater. We see this as pairing with the first item for a complete east and north side enhancement of the building. Concrete paving, berm landscaping, tree and shrub allowance irrigation, sod site lighting, & allowance. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
20	Street Improvements/Access Drive	Entry monument at GM Road entry, signage, asphalt paving at entry drive, curb and guttering, pedestrian lighting, landscaping grading and sod, tree and shrub allowance and irrigation. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Rehabilitation		Gilcrease Museum	Medium
21	Tulise 911 Dispatch Console Furniture Modernization	The proposed modernized console furniture is required to replace end of life Wrightline consoles. The Wrightline consoles have outlived their useful life and warranty and maintenance coverage is not offered. Parts are difficult to procure or unavailable and repair costs exceed the value of the furniture. The consoles lack adequate cable management and panel brackets to secure the console panels.	Replacement	12 to 15 years	801 East Oklahoma St.	
22	21st & Riverside Lift Station Improvements - Phase 3	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.	Relief/Capacity	30	Lift Stations	
23	Aeration Basin Baffle Addition	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.	Efficiency/Cost Savings	40	Northside	
24	Anaerobic Feed Blending Improvements	Three sources of thickened sludge are processed at the SSWWTP: Haikey Creek (HC) thickened waste activated sludge (TWAS), SS TWAS, and thickened primary sludge from SSWWTP. As identified in the 2018 Complete Condition Assessment (CA), these three sludge sources have different solids concentrations. These sludges are currently fed to the digester complexes without blending, resulting in inconsistent solids concentration of influent sludge to the anaerobic digesters. These variable influent characteristics negatively impact digestion processes. Providing consistent flow and uniform solids concentration in feed sludge reduces heating requirements and improves digester performance. This increases volatile solids reduction in the digesters, decreasing loads to dewatering units and reducing sludge disposal costs. This project proposes a new sludge blend tank to achieve uniform, consistent digester feed sludge.	Efficiency/Cost Savings	20	Southside	
25	Cherry Creek LS Capacity Enhancements	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 Southside collection system.	Replacement/Rehabilitati	15	Southside	

17.5



PROJECT	DEPARTMENT	PURPOSE	EST USEFUL LIFE	ADDRESS / LOCATION	CLASSIFICATION	DEPT PRIORITY
26	Sewer	Digester Feed Piping Improvements	20	Southside	Efficiency/Cost Savings	
<p>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 simplifications to this piping will enhance reliability of operation.</p>						
27	Sewer	Digester Liquid Loadout	20	Southside	Relief/Capacity	
<p>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 redundant transfer line.</p>						
28	Sewer	Economic Development Citywide	40	Collection Systems	Growth	
<p>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.</p>						
29	Sewer	Emergency Sewer Repair, Rehabilitation & Replacement	40	Collection System	Replacement/Rehabilitati	
<p>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.</p>						
30	Sewer	External Draft Tubes for Digester Mixing	20	Southside	Service Level	
<p>This project involves replacing the existing digester gas mixing systems located in Anaerobic Digesters No. 3&amp;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.</p>						
31	Sewer	Halkey Interceptor Rehab Phase 2	40	Collection System	Replacement/Rehabilitati	
<p>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 Halkey 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.</p>						
32	Sewer	Lagoon No. 7 Connection	40	Southside	Relief/Capacity	
<p>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 than the current capacity to dewater sludge at the dewatering facility. This could be due to wet weather peak flows, or failure of equipment within the dewatering facility.</p>						
33	Sewer	LBC Oxidation Ditch Mixers	15	Lower Bird Creek	Efficiency/Cost Savings	
<p>Install four (4) new mixers (3hp motors) in the LBC Oxidation Ditch, reducing use of four (4) Rotator Brushes (75hp motors) by 50%, which saves on electrical and improves treatment process by not having over oxidation.</p>						
34	Sewer	Manhole Condition Assessment & Rehabilitation Program	40	Collection System	Replacement/Rehabilitati	
<p>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.</p>						
35	Sewer	Northside WWTP Digester Lid Repair (Phase 1)	25	Northside	Replacement/Rehabilitati	
<p>"Provide design for repair and improvement of NSWWTP's four digesters and provide repair on Digesters 1&amp;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."                      "Provide repair on Digesters 3&amp;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 co</p>						
36	Sewer	Northside WWTP Digester Lid Repair (Phase 2)	25	Northside	Replacement/Rehabilitati	

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
37 Replacement Sludge Transfer Piping	Sewer	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 TMAA 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.	Relief/Capacity	20	Southside	
38 Sludge Dewatering Alternative	Sewer	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.	Replacement/Rehabilitati	20	Southside	
39 WAS Instrumentation and Piping	Sewer	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.	Replacement/Rehabilitati	20	Southside	
40 CBC - Elevator Modernization	Tulsa Convention Center	Replace and upgrade various components of the east passenger elevators of the facility at the Cox Business Center (CBC).	Rehabilitation			High
41 ABL Lab Prep Rooms Remodel	Water	The existing 50 year old elevators are in need of major repairs or replacement.  The project will completely rehabilitate the metals prep room and the organics prep room at the ABL Instrumentation Lab. The lab was remodelled 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.	Replacement/Rehabilitati	25	Laboratory	
42 COT Fiber - 56th & Garnett to 51st & 129th	Water	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.	Service Level	20	Pump Stations	
43 Raw Water Flowline Repairs Oologah	Water	This project will provide the equipment and personal to inspect and assess the condition of the Oologah Raw Water Flowlines. 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 which will be used to maintain and schedule repairs to the flowlines as needed.	Replacement/Rehabilitati	40	Raw Water	
44 Spavinaw Creek Bridge Replacement	Water	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.	Replacement/Rehabilitati	50	Raw Water	

**PROJECT**      **DEPARTMENT**      **PURPOSE**      **CLASSIFICATION**      **EST. USEFUL LIFE**      **ADDRESS / LOCATION**      **DEPT PRIORITY**

Develop a mobile guard post, computerized, integrated facility housing 2 main uses:

- 1) Tulsa Police Department Headquarters
- 2) Tulsa Police Department "ComStat"
- 3) Tulsa Area Emergency Management Agency (TAEEMA) EOC
- 4) Tulsa Area Emergency Management Agency (TAEEMA) EOC
- 5) Municipal Courts
- 6) Jail (60 beds)
- 7) Structured Parking appropriate for the facility

1. Public Safety Complex

High

Needs to be close to the County's courts. Ultimate location

30 Years

New



**DEPARTMENT** Equipment Management  
**CATEGORY** Facilities

# Public Safety Complex

**PROJECT**

**PURPOSE**

Develop a lease-to-purchase, comprehensive, integrated facility housing 7 main uses:  
 1) Tulsa Police Department Headquarters  
 2) Tulsa Fire Headquarters  
 3) Tulsa Police Department "CompStat"  
 4) Tulsa Area Emergency Management Agency (TAEMA) EOC  
 5) Municipal Courts  
 6) Jail (60 beds)  
 7) Structured Parking appropriate for the facility

**CLASS** New  
**DURATION** 1-3 years  
**EST LIFE** 30 Years

**PRIORITY** N/A  
**LOCATION** Needs to be close to the County's courts ultimate location

**REASON FOR CLASS**

Specific parameters associated with each use-type are as follows:

TPD-HQ 120k (currently 77k sqft)  
 -Space for approximately 260 employees  
 -Separate areas for the following departments  
 --Robbery  
 --Homicide  
 --Sex Crimes  
 --Warrants  
 --Administration (6 offices & 2 meeting areas)  
 --Records (2,000 square foot file storage)  
 -Secure holding facility (2-3 cells)  
 -Restrooms with 25 lockers and shower facility (share with EOC if possible)  
 -Property Room (300 sqft)  
 -Weight room/kitchen common space

TPD-Comp Stat / R-TIC 33,000 square feet  
 -Briefing Center/classroom layout  
 -2 high tech screens  
 -Videoconferencing - technologically flexible

EOC 20k (currently 7k sqft)  
 -Hardened to F-4 standards  
 -4 individual offices  
 -Bunk room  
 -Break room/kitchen  
 -Flood Room  
 -Operations room/pit  
 -Sr. Management Conference Room  
 -MERC Hospital Room

TFD HQ 60,000 SQFT (21m)  
 -Asst Chiefs  
 -Headquarters  
 -Arson/Fire Marshal  
 -Code Enforcement  
 -2 Classrooms seat 30  
 -Quartermaster  
 -EMS medicine storage

**GENERAL COMMENTS**

Additional site requirements:  
 Location: needs to be close to the County's courts ultimate location  
 Generator: diesel genset - 2 sets - EOC and Courts (sized appropriately)  
 Redundancy on gas, fiber, and power  
 Hardened server rooms

**RELATIONSHIP TO OTHER PROJECTS**

N/A

**ROI**

TBD

**COORDINATING AGENCIES**

Tulsa Police Department  
 Tulsa Fire Department  
 TAEMA  
 Municipal Courts  
 Asset Management

**ROI DESCRIPTION**

TBD

**PLAN OR STUDY**

44167.91667

**LINKS & LEVERAGES DESCRIPTION**

N/A

**RELATIONSHIP TO PLAN**

N/A

**CREATED** 1/0/1900  
**REQUEST** High  
**MODIFIED** FALSE

**CONTACT EMAIL**

Mark Hogan  
[mhogan@cityoftulsa.org](mailto:mhogan@cityoftulsa.org)

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
2	Fire	Classroom building Fire Safety Training Center	New	50 years	Fire Safety Training Center, 2839 North New Haven City Wide with construction in Council District 1	TFD #16, Medium
3	Fire	Refurbish Fire Headquarters	Rehabilitation	50 years	1760 Newblock Park Drive	TFD #4 Medium
4	Fire	Relocate Fire Supply	Replacement	50 years	To be determined	TFD #21, Medium
5	Fire	Relocation of Fire Station 12	Replacement	50	To be determined	TFD #14, Medium
6	Fire	Special equipment and storage warehouse	New	50 years	To be determined	TFD #22, Deferable
7	Fire	Storage/Classroom for Search and Rescue at North sewer treatment facility for	New	50 years	North Sewer treatment facility	TFD #15, Deferrable

17.10

DEPARTMENT  
CATEGORY

Fire  
Facilities

PROJECT

# Classroom building Fire Safety Training Center

PURPOSE

Provide a multi-room and capable classroom building that can also be used for a back-up Emergency Operating Center (EOC), back-up 9-1-1 center and comprehensive training center.

CLASS

New

PRIORITY

N/A

DURATION

N/A

LOCATION

Fire Safety Training Center, 2819 North New Haven

EST LIFE

50 years

City Wide with construction in Council District 1

REASON FOR  
CLASS

The Fire Safety Training Center is used to provide nearly all training to the Fire Department as well as other Departments such as Tulsa Police and entities such as Emergency Vehicle Technicians. The single room at Fire Station 101 at the Fire Safety Training Center does enable the Department to simultaneously provide multiple training events.

GENERAL  
COMMENTS

The original agreement with TCC included language that they would provide the classroom. However, needed funding was not secured and the relationship with TCC has become strained. A state of the art classroom could be utilized by all entities who use the fire training field as well as other specialities such as EMS, HazMat, Rescue, Fire Prevention, Code Enforcement, and a host of other opportunities.

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

ROI

Improved training opportunities and learning environments

COORDINATING  
AGENCIES

Fire, Engineering

ROI  
DESCRIPTION

N/A

PLAN  
OR STUDY

44167.44792

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

RELATIONSHIP  
TO PLAN

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
TFD #16, Medium  
FALSE

CONTACT  
EMAIL

Mike Mallory  
[mmallory@cityoftulsa.org](mailto:mmallory@cityoftulsa.org)

**DEPARTMENT** Fire  
**CATEGORY** Facilities

# Refurbish Fire Headquarters

**PROJECT**

**PURPOSE**

Refurbish Fire Headquarters to improve ADA relationships, interior appearance, energy efficiency and reliability of systems.

**CLASS**  
**DURATION**  
**EST LIFE**

Rehabilitation  
N/A  
50 years

**PRIORITY**  
**LOCATION**

N/A  
1760 Newblock Park Drive

**REASON FOR CLASS**

Much of the building has not been updated since the last major remodel in 1991. The building is not currently accessible by wheelchair and items such as windows are in need of replacement.

**GENERAL COMMENTS**

The building recently received a new roof and exterior trim update. It is currently used as Fire Headquarters and is in need of basic updates to the building to improve ADA access into the building as well as in bathrooms and other applicable locations. It is also in need of updated windows to improve energy efficiency, interior finish for a professional image and quality work spaces for assigned personnel.

City wide benefit, construction in Council District 4

**RELATIONSHIP TO OTHER PROJECTS**

N/A

**ROI**

Improved ADA accessibility and energy efficiency

**COORDINATING AGENCIES**

Engineering Services, Asset Management Facilities Maintenance

**ROI DESCRIPTION**

N/A

**PLAN OR STUDY**

44167.875

**LINKS & LEVERAGES DESCRIPTION**

N/A

**RELATIONSHIP TO PLAN**

N/A

**CREATED REQUEST**  
**MODIFIED**

1/0/1900  
TFD #4 Medium  
FALSE

**CONTACT EMAIL**

Mike Mallory  
[mmallory@cityoftulsa.org](mailto:mmallory@cityoftulsa.org)

# Relocate Fire Supply

**DEPARTMENT CATEGORY** | Fire Facilities

**PROJECT**

**PURPOSE** | Relocate TFD Physical Resources and EMD Fire Garage outside of the flood zone

**CLASS DURATION EST LIFE** | Replacement  
N/A  
50 years

**PRIORITY LOCATION** | Flood Control  
To be determined

**REASON FOR CLASS** | Both TFD Physical Resources and the EMD Fire Garage are too small for the operational demands plus each are vulnerable to flooding

**GENERAL COMMENTS** | Seeking a large metal building, or similar, with large secured parking area for maintenance of fire apparatus and storage of Supplies and resources used by the Fire Department.

**RELATIONSHIP TO OTHER PROJECTS** | N/A

**ROI** | N/A

**COORDINATING AGENCIES** | Engineering Services, Asset Management

**ROI DESCRIPTION** | N/A

**PLAN OR STUDY** | 44167.25

**LINKS & LEVERAGES DESCRIPTION** | N/A

**RELATIONSHIP TO PLAN** | N/A

**CREATED REQUEST MODIFIED** | 1/0/1900  
TFD #21, Medium  
FALSE

**CONTACT EMAIL**

Mike Mallory  
[mmallory@cityoftulsa.org](mailto:mmallory@cityoftulsa.org)

DEPARTMENT  
CATEGORY

Fire  
Facilities

5

# Relocation of Fire Station 12

PROJECT

PURPOSE

Relocate Fire Station 12 towards the West to improve service delivery and interface with newer apparatus.

CLASS  
DURATION  
EST LIFE

Replacement  
N/A  
50

PRIORITY  
LOCATION

N/A  
To be determined

REASON FOR  
CLASS

Improvement of service delivery and improved interaction of crew and apparatus

GENERAL  
COMMENTS

The fire station is exceptionally small and can only accommodate a crew of three whereas it is the Department's goal to staff fire companies at no less than four. The apparatus bay is small and requires special apparatus to accommodate the height and length of the bay. Finally, the completion of the Gilcrease Expressway will likely increase service demand to the West of the current station.

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

ROI

Improved staff and apparatus interface as well as service delivery

COORDINATING  
AGENCIES

N/A

ROI  
DESCRIPTION

N/A

PLAN  
OR STUDY

44167.41667

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

RELATIONSHIP  
TO PLAN

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
TFD #14, Medium  
FALSE

CONTACT  
EMAIL

Mike Mallory  
[mmallory@cityoftulsa.or](mailto:mmallory@cityoftulsa.or)

17.14



**DEPARTMENT** Fire  
**CATEGORY** Facilities

**PROJECT** **Special equipment and storage warehouse**

**PURPOSE** Provide a facility to stage special equipment, resources and storage warehouse to eliminate the need to lease warehouse space

**CLASS** New  
**DURATION** N/A  
**EST LIFE** 50 years

**PRIORITY** N/A  
**LOCATION** To be determined

**REASON FOR CLASS** Eliminate the need to lease warehouse space

**GENERAL COMMENTS** Currently using a leased space in a warehouse to store resources and to improve security. The facility had formerly been used to house the Tulsa component of the Oklahoma Urban Search and Rescue Team which initially occupied the area in 2006. In addition to storage, it is used to prepare apparatus for service and is also the facility used to manufacture hypochlorous acid which is being used by the City as a disinfectant.

**RELATIONSHIP TO OTHER PROJECTS** Eliminate need to lease space and improve the security and preservation of resources

**ROI** N/A

**COORDINATING AGENCIES** Engineering Services, Asset Management

**ROI DESCRIPTION** N/A

**PLAN OR STUDY** 44167.25

**LINKS & LEVERAGES DESCRIPTION** N/A

**RELATIONSHIP TO PLAN** Eliminate need to lease space and improve the security and preservation of resources

**CREATED** 1/0/1900  
**REQUEST** TFD #22, Deferra  
**MODIFIED** FALSE

**CONTACT EMAIL**

Mike Mallory  
[mmallory@cityoftulsa.org](mailto:mmallory@cityoftulsa.org)

**DEPARTMENT** Fire  
**CATEGORY** Facilities

**PROJECT** Storage/Classroom for Search and Rescue at North sewer treatment facility for

**PURPOSE** Provide a classroom with toilet facilities at the search and rescue pile used for training that is located immediately North of the North water treatment facility

**CLASS DURATION** New  
**EST LIFE** 2 Years  
50 years

**PRIORITY** N/A  
**LOCATION** North Sewer treatment facility

**REASON FOR CLASS** The area does not currently have storage at the search and rescue pile. A basic metal building would increase security for the assigned resources and serve as a classroom during training events.

**GENERAL COMMENTS** The area has been used for training since 2005 and has been subject to vandalism and theft. Port-a-Potties are acquired during training events and there is no shelter for training.  
City wide benefit with construction in Council District 3

**RELATIONSHIP TO OTHER PROJECTS** N/A

**ROI** Improved security and training

**COORDINATING AGENCIES** TFD, Engineering

**ROI DESCRIPTION** N/A

**PLAN OR STUDY** 44167.83333

**LINKS & LEVERAGES DESCRIPTION** N/A

**RELATIONSHIP TO PLAN** N/A

**CREATED REQUEST** 1/0/1900  
**MODIFIED** TFD #15, Deferra  
FALSE

**CONTACT EMAIL** Mike Mallory  
[mmallory@cityoftulsa.org](mailto:mmallory@cityoftulsa.org)

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
8 Amphitheater	Gilcrease	This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package. if we are able to proceed with the Earth Plaza, the new Drop Off near the Gilcrease House will be a good accompaniment since it will move the ADA parking that will be closest to the buildings on campus. This is the area south of the Earth plaza towards the Mausoleum. This project is an add-alternate in the Vision funding for the construction of the new museum.	Expansion		Gilcrease Museum	High
9 Drop off/ADA Parking	Gilcrease	Funds are not available through the Vision package. Area between new Museum Bldg and HCAR – included the site demo, plaza soft and hardscape, the water feature and landscape features. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	Medium
10 Earth Plaza	Gilcrease	Due to lack of funding from the Vision package for the construction of the new museum, the current architectural program does not include space for educational classrooms, workshop studio space or programming areas. Two options are proposed as add alternates in the Vision funding for the construction of the new museum. See tab 19 for cost estimates for both options.	Expansion		Gilcrease Museum	High
11 Education Space Addition (Two Options-360 or Annex)	Gilcrease	Endosed Operatable Window Pavilion 9,500 sq ft / event space for catering and other events/performances that is larger. Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package	Expansion		Gilcrease Museum	Medium
12 Endosed Pavilion	Gilcrease	Construction and maintenance of a bike and hiking trail on the Gilcrease property. Including construction costs for soft surface trails, restrooms, water fountains, parking lot, bike racks, trail and parking lighting, pedestrian activated signals, signage and maintenance (i.e., annual resurfacing of trails, mowing and tree maintenance, restroom cleaning, trash pick up, graffiti removal, landscaping). See detail Tab 7	New		Gilcrease Museum	Medium
13 Gilcrease Bike and Hiking Trail	Gilcrease	5,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
14 Large Production Facility Option 1	Gilcrease	Area West of the new museum building – included in this total is a bit of site clearing, the covered bridge, the night garden feature-lighting and the art walk. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.	Expansion		Gilcrease Museum	High
15 Night Garden	Gilcrease	Covered Open Air Pavilion - 2,500 sq ft / West of the night garden on the bluff. More rustic, open air option based on the trail discussions which is smaller. Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
16 Open Pavilion	Gilcrease	Replace stone wall on the east and south side of the property with a fence complimentary to new construction.	Rehabilitation		Gilcrease Museum	Medium
17 Perimeter Fence Replacement	Gilcrease	2,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
18 Small Production Facility Option 2	Gilcrease	Pairs well with the Amphitheater-enhanced landscaping and berming that will connect the new front entry and the amphitheater. We see this as pairing with the first item for a complete east and north side enhancement of the building. Concrete paving, berm landscaping, tree and shrub allowance irrigation, sod site lighting, & allowance. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Expansion		Gilcrease Museum	Medium
19 Berm and Front Landing	Gilcrease	Entry monument at GM Road entry. signage, asphalt paving at entry drive, curb and guttering, pedestrian lighting, landscaping grading and sod, tree and shrub allowance and irrigation. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.	Rehabilitation		Gilcrease Museum	Medium
20 Street Improvements/Access Drive	Gilcrease				Gilcrease Museum	Medium

17.17

DEPARTMENT | **Gilcrease**  
CATEGORY | Facilities

PROJECT

# Amphiteater

PURPOSE

This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.

CLASS DURATION  
EST LIFE

Expansion  
N/A  
N/A

PRIORITY  
LOCATION

N/A  
Gilcrease Museum

REASON FOR CLASS

N/A

GENERAL COMMENTS

N/A

RELATIONSHIP TO OTHER PROJECTS

N/A

COORDINATING AGENCIES

N/A

PLAN OR STUDY

44196.25

RELATIONSHIP TO PLAN

N/A

ROI

N/A

ROI DESCRIPTION

N/A

LINKS & LEVERAGES DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
High  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.18

DEPARTMENT | **Gilcrease**  
CATEGORY | **Facilities**

PROJECT

# Drop off/ADA Parking

PURPOSE

If we are able to proceed with the Earth Plaza, the new Drop Off near the Gilcrease House will be a good accompaniment since it will move the ADA parking that will be closest to the buildings on campus. This is the area south of the Earth plaza towards the Mausoleum. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.

CLASS  
DURATION  
EST LIFE

Expansion  
N/A  
N/A

PRIORITY

N/A

LOCATION

Gilcrease Museum

REASON FOR CLASS

N/A

GENERAL COMMENTS

N/A

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI

N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION

N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION

N/A

RELATIONSHIP TO PLAN

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
Medium  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

DEPARTMENT  
CATEGORY

**Gilcrease**  
Facilities

10

PROJECT

# Earth Plaza

PURPOSE

Area between new Museum Bldg and HCAR – included the site demo, plaza soft and hardscape, the water feature and landscape features. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.

CLASS  
DURATION  
EST LIFE

Expansion  
N/A  
N/A

PRIORITY  
LOCATION

N/A  
Gilcrease Museum

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

N/A

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

COORDINATING  
AGENCIES

N/A

PLAN  
OR STUDY

44196,25

RELATIONSHIP  
TO PLAN

N/A

ROI

N/A

ROI  
DESCRIPTION

N/A

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
High  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.20



DEPARTMENT  
CATEGORY

**Gilcrease**  
Facilities

PROJECT

# Education Space Addition (Two Options-360 or Annex)

PURPOSE

Due to lack of funding from the Vision package for the construction of the new museum, the current architectural program does not include space for educational classrooms, workshop studio space or programming areas. Two options are proposed as add alternates to the Vision funding for the construction of the new museum. See tab 19 for cost estimates for both options.

CLASS  
DURATION  
EST LIFE

Expansion  
N/A  
N/A

PRIORITY  
LOCATION

N/A  
Gilcrease Museum

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

N/A

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

COORDINATING  
AGENCIES

N/A

PLAN  
OR STUDY

44196.25

RELATIONSHIP  
TO PLAN

N/A

ROI

N/A

ROI  
DESCRIPTION

N/A

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
High  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

DEPARTMENT | **Gilcrease**  
CATEGORY | Facilities

PROJECT

# Enclosed Pavilion

PURPOSE

Enclosed Operatable Window Pavilion 9,500 sq ft / event space for catering and other events/performances that is larger. Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package

CLASS | Expansion  
DURATION | N/A  
EST LIFE | N/A

PRIORITY | N/A  
LOCATION | Gilcrease Museum

REASON FOR CLASS | N/A

GENERAL COMMENTS | N/A

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | Medium  
MODIFIED | FALSE

CONTACT EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

DEPARTMENT **Gilcrease**  
CATEGORY **Facilities**

PROJECT

# Gilcrease Bike and Hiking Trail

PURPOSE

Construction and maintenance of a bike and hiking trail on the Gilcrease property. Including construction costs for soft surface trails, restrooms, water fountains, parking lot, bike racks, trail and parking lighting, pedestrian activated signals, signage and maintenance (i.e., annual resurfacing of trails, mowing and tree maintenance, restroom cleaning, trash pick up, graffiti removal, landscaping). See detail Tab 7

CLASS **New**  
DURATION **N/A**  
EST LIFE **N/A**

PRIORITY **N/A**  
LOCATION **Gilcrease Museum**

REASON FOR CLASS **N/A**

GENERAL COMMENTS **N/A**

RELATIONSHIP TO OTHER PROJECTS **N/A**

ROI **N/A**

COORDINATING AGENCIES **N/A**

ROI DESCRIPTION **N/A**

PLAN OR STUDY **44196.25**

LINKS & LEVERAGES DESCRIPTION **N/A**

RELATIONSHIP TO PLAN **N/A**

CREATED **1/0/1900**  
REQUEST **1/0/1900**  
MODIFIED **FALSE**

CONTACT EMAIL

**Sandi Freeman**  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

DEPARTMENT | **Gilcrease**  
CATEGORY | Facilities

PROJECT

# Large Production Facility Option 1

PURPOSE

5,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.

CLASS | Expansion  
DURATION | N/A  
EST LIFE | N/A

PRIORITY | N/A  
LOCATION | Gilcrease Museum

REASON FOR CLASS | N/A

GENERAL COMMENTS | N/A

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | Medium  
MODIFIED | FALSE

CONTACT EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.24

**DEPARTMENT** | Gilcrease  
**CATEGORY** | Facilities

**PROJECT**

# Night Garden

**PURPOSE**

Area West of the new museum building – included in this total is a bit of site clearing, the covered bridge, the night garden feature-lighting and the art walk. This project is an add-alternate in the Vision funding for the construction of the new museum. Funds are not available through the Vision package.

**CLASS** | Expansion  
**DURATION** | N/A  
**EST LIFE** | N/A

**PRIORITY** | N/A  
**LOCATION** | Gilcrease Museum

**REASON FOR CLASS** | N/A

**GENERAL COMMENTS** | N/A

**RELATIONSHIP TO OTHER PROJECTS** | N/A

**ROI** | N/A

**COORDINATING AGENCIES** | N/A

**ROI DESCRIPTION** | N/A

**PLAN OR STUDY** | 44196.25

**LINKS & LEVERAGES DESCRIPTION** | N/A

**RELATIONSHIP TO PLAN** | N/A

**CREATED REQUEST** | 1/0/1900  
**MODIFIED** | High  
FALSE

**CONTACT EMAIL** | Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.25

**DEPARTMENT** Gilcrease  
**CATEGORY** Facilities

**PROJECT**

# Open Pavilion

**PURPOSE**

Covered Open Air Pavilion - 2,500 sq ft /West of the night garden on the bluff. More rustic, open air option based on the bike trail discussions which is smallerAdd alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.

**CLASS DURATION EST LIFE**

Expansion  
N/A  
N/A

**PRIORITY**

N/A

**LOCATION**

Gilcrease Museum

**REASON FOR CLASS**

N/A

**GENERAL COMMENTS**

N/A

**RELATIONSHIP TO OTHER PROJECTS**

N/A

**COORDINATING AGENCIES**

N/A

**PLAN OR STUDY**

44196.25

**RELATIONSHIP TO PLAN**

N/A

**ROI**

N/A

**ROI DESCRIPTION**

N/A

**LINKS & LEVERAGES DESCRIPTION**

N/A

**CREATED REQUEST MODIFIED**

1/0/1900  
Medium  
FALSE

**CONTACT EMAIL**

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)



DEPARTMENT **Gilcrease**  
CATEGORY **Facilities**

# Perimeter Fence Replacement

PROJECT

PURPOSE

Replace stone wall on the east and south side of the property with a fence complimentary to new construction.

CLASS **Rehabilitation**  
DURATION **N/A**  
EST LIFE **N/A**

PRIORITY **N/A**  
LOCATION **Gilcrease Museum**

REASON FOR CLASS **N/A**

GENERAL COMMENTS **N/A**

RELATIONSHIP TO OTHER PROJECTS **N/A**

COORDINATING AGENCIES **N/A**

PLAN OR STUDY **44196,25**

RELATIONSHIP TO PLAN **N/A**

ROI **N/A**

ROI DESCRIPTION **N/A**

LINKS & LEVERAGES DESCRIPTION **N/A**

CREATED **1/0/1900**  
REQUEST **Medium**  
MODIFIED **FALSE**

CONTACT EMAIL

**Sandi Freeman**  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

DEPARTMENT CATEGORY | **Gilcrease**  
Facilities

PROJECT

# Small Production Facility Option 2

PURPOSE

2,000 sq ft metal, pre-fabricated production facility for exhibitions. Demo existing structure. Install landscaping around new facility. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.

CLASS DURATION EST LIFE

Expansion  
N/A  
N/A

PRIORITY LOCATION

N/A  
Gilcrease Museum

REASON FOR CLASS

N/A

GENERAL COMMENTS

N/A

RELATIONSHIP TO OTHER PROJECTS

N/A

COORDINATING AGENCIES

N/A

PLAN OR STUDY

44196.25

RELATIONSHIP TO PLAN

N/A

ROI

N/A

ROI DESCRIPTION

N/A

LINKS & LEVERAGES DESCRIPTION

N/A

CREATED REQUEST MODIFIED

1/0/1900  
Medium  
FALSE

CONTACT EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.28

DEPARTMENT  
CATEGORY

Gilcrease  
Sewer

# Berm and Front Landing

PROJECT

PURPOSE

Pairs well with the Amphitheater-enhanced landscaping and berming that will connect the new front entry and the amphitheater. We see this as pairing with the first item for a complete east and north side enhancement of the building. Concrete paving, berm landscaping, tree and shrub allowance irrigation, sod site lighting, & allowance. / Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.

CLASS  
DURATION  
EST LIFE

Expansion  
N/A  
N/A

PRIORITY  
LOCATION

N/A  
Gilcrease Museum

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

N/A

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

COORDINATING  
AGENCIES

N/A

PLAN  
OR STUDY

44196.25

RELATIONSHIP  
TO PLAN

N/A

ROI

N/A

ROI  
DESCRIPTION

N/A

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
Medium  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.29

DEPARTMENT | **Gilcrease**  
CATEGORY | **Streets**

20

PROJECT

# Street Improvements/Access Drive

PURPOSE

Entry monument at GM Road entry, signage, asphalt paving at entry drive, curb and guttering, pedestrian lighting, landscaping grading and sod, tree and shrub allowance and irrigation. /Add alternate in the Vision funding for the construction of the new museum. Funding not available through the Vision package.

CLASS  
DURATION  
EST LIFE

Rehabilitation  
N/A  
N/A

PRIORITY  
LOCATION

N/A  
Gilcrease Museum

REASON FOR CLASS

N/A

GENERAL COMMENTS

N/A

RELATIONSHIP TO OTHER PROJECTS

N/A

COORDINATING AGENCIES

N/A

PLAN OR STUDY

44196.25

RELATIONSHIP TO PLAN

N/A

ROI

N/A

ROI DESCRIPTION

N/A

LINKS & LEVERAGES DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
Medium  
FALSE

CONTACT  
EMAIL

Sandi Freeman  
[sandi-freeman@utulsa.edu](mailto:sandi-freeman@utulsa.edu)

17.30

**PROJECT**      **DEPARTMENT**      **PURPOSE**      **CLASSIFICATION**      **EST USEFUL LIFE**      **ADDRESS / LOCATION**      **DEPT PRIORITY**

Z1      Tulsa 911 Dispatch Console Furniture      Police      The proposed modernized console furniture is required to replace end of life Wrightline consoles. The Wrightline consoles have outlived their useful life and warranty and maintenance coverage is not offered. Parts are difficult to procure or unavailable and repair costs exceed the value of the furniture. The consoles lack adequate cable management and panel brackets to secure the console panels.      Replacement      12 to 15 years      801 East Oklahoma St.

DEPARTMENT | Police  
CATEGORY | Facilities

PROJECT | **Tulsa 911 Dispatch Console Furniture Modernization**

PURPOSE | The proposed modernized console furniture is required to replace end of life Wrightline consoles. The Wrightline consoles have outlived their useful life and warranty and maintenance coverage is not offered. Parts are difficult to procure or unavailable and repair costs exceed the value of the furniture. The consoles lack adequate cable management and panel brackets to secure the console panels.

CLASS | Replacement  
DURATION | N/A  
EST LIFE | 12 to 15 years

PRIORITY |  
LOCATION | 801 East Oklahoma St.

REASON FOR CLASS | There are no local repair centers and technicians must travel from out of state. Employees must adapt to a non-standard, ergonomically incorrect console. The lack of cable management is a safety hazard and several employees have reported accidents due to broken components such as monitor and keyboard shelf adjustment switches, broken lighting, broken fans, loose panels, and inadequate cable management.

GENERAL COMMENTS | A modernized console is designed for safety, comfort, and productivity and integrates technology creating a 'no-fail' work environment and allowing technicians to quickly access and trouble shoot equipment. The consoles accommodate cable coiling flexibility for fixed height extensions and easy access to the integrated wire management troughs. Console options include ambient lighting, personal comfort system, and built in sanitation stations.

RELATIONSHIP TO OTHER PROJECTS | Modernized console planning and implementation is available in phases by area to offset costs over time.

ROI | Unknown

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | Workers compensation claim and FMLA risk avoidance.  
Replacement console vendors offer a single point of contact for all questions regarding operation, warranty and service items and service within 48 - 72 hours.

PLAN OR STUDY | The per position budget cost of \$18,500 can be used as a baseline for consideration of a multi-year program approach to the modernization. For example, a good budget for the project as designed if split into two (2) separate purchases of (25) positions each would be \$462,500, or five (5) purchases of (10) positions each would be \$185,000. While not exact, this provides a ballpark estimate.

LINKS & LEVERAGES DESCRIPTION | There is a need to replace the end of life console furniture. A broken console is now utilized for parts to repair other broken consoles resulting in a console bone yard.

RELATIONSHIP TO PLAN | Modernized console planning and implementation is available in phases by area to offset costs over time.

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL | Belinda McGhie  
[bmcghie@cityoftulsa.org](mailto:bmcghie@cityoftulsa.org)

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
23	Sewer	Aeration Basin Baffle Addition	Efficiency/Cost Savings	40	Northside	
24	Sewer	Anaerobic Feed Blending Improvements	Efficiency/Cost Savings	20	Southside	
25	Sewer	Cherry Creek LS Capacity Enhancements	Replacement/Rehabilitation	15	Southside	
26	Sewer	21st & Riverside Lift Station Improvements - Phase 3	Relief/Capacity	30	Lift Stations	
26	Sewer	Digester Feed Piping Improvements	Efficiency/Cost Savings	20	Southside	
27	Sewer	Digester Liquid Loadout	Relief/Capacity	20	Southside	
28	Sewer	Economic Development Citywide	Growth	40	Collection Systems	
29	Sewer	Emergency Sewer Repair, Rehabilitation & Replacement	Replacement/Rehabilitation	40	Collection System	
30	Sewer	External Draft Tubes for Digester Mixing	Service Level	20	Southside	
31	Sewer	Haikley Interceptor Rehab Phase 2	Replacement/Rehabilitation	40	Collection System	
32	Sewer	Lagoon No. 7 Connection	Relief/Capacity	40	Southside	
33	Sewer	LBC Oxidation Ditch Mixers	Efficiency/Cost Savings	15	Lower Bird Creek	

Item ID	Project Description	System	Scope	Priority	Category	Location
34	Manhole Condition Assessment & Rehabilitation Program	Sewer	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. "Provide design for repair and improvement of NSWWTP's four digesters and provide repair on Digesters 1&2_Scope includes:	40	Replacement/Rehabilitation	Collection System
35	Northside WWTP Digester Lid Repair (Phase 1)	Sewer	- 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." "Provide repair on Digesters 3&4. Scope of work includes:	25	Replacement/Rehabilitation	Northside
36	Northside WWTP Digester Lid Repair (Phase 2)	Sewer	- Repairs to the roof/wall construction joints; - Preventative maintenance of the digester interior piping; - Additional internal and external concrete repairs; and - Interior and exterior co	25	Replacement/Rehabilitation	Northside
37	Replacement Sludge Transfer Piping	Sewer	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 TMLUA 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.	20	Relief/Capacity	Southside
38	Sludge Dewatering Alternative	Sewer	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.	20	Replacement/Rehabilitation	Southside
39	WAS Instrumentation and Piping	Sewer	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.	20	Replacement/Rehabilitation	Southside



DEPARTMENT | Sewer  
CATEGORY | Sewer

22

PROJECT

## 21st & Riverside Lift Station Improvements - Phase 3

PURPOSE

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.

CLASS | Relief/Capacity  
DURATION | 2026  
EST LIFE | 30

PRIORITY | N/A  
LOCATION | Lift Stations

REASON FOR CLASS

N/A

GENERAL COMMENTS

22SOM\_CS\_SS\_0001

RELATIONSHIP TO OTHER PROJECTS

N/A

COORDINATING AGENCIES

N/A

PLAN OR STUDY

44196.25

RELATIONSHIP TO PLAN

N/A

ROI

N/A

ROI DESCRIPTION

N/A

LINKS & LEVERAGES DESCRIPTION

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.35

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Aeration Basin Baffle Addition

PURPOSE

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.

CLASS | Efficiency/Cost :  
DURATION | 2026  
EST LIFE | 40

PRIORITY | N/A  
LOCATION | Northside

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_NS\_0004

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Anaerobic Feed Blending Improvements

PURPOSE

Three sources of thickened sludge are processed at the SSWWTP: Haikey Creek (HC) thickened waste activated sludge (TWAS), SS TWAS, and thickened primary sludge from SSWWTP. As identified in the 2018 Complete Condition Assessment TM, these three sludge sources have different solids concentrations. These sludges are currently fed to the digester complexes without blending, resulting in inconsistent solids concentration of influent sludge to the anaerobic digesters. These variable influent characteristics negatively impact digestion processes. Providing consistent flow and uniform solids concentration in feed sludge reduces heating requirements and improves digester performance. This increases volatile solids reduction in the digesters, decreasing loads to dewatering units and reducing sludge disposal costs. This project proposes a new sludge blend tank to achieve uniform, consistent digester feed sludge.

CLASS DURATION EST LIFE | Efficiency/Cost :  
2030  
20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WPC\_SS\_0003

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI | N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Cherry Creek LS Capacity Enhancements

PURPOSE

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.

CLASS | Replacement/R  
DURATION | 2022  
EST LIFE | 15

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WPC\_SS\_0001

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI

N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION

N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION

N/A

RELATIONSHIP TO PLAN

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.38

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Digester Feed Piping Improvements

PURPOSE

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 simplifications to this piping will enhance reliability of operation.

CLASS | Efficiency/Cost :  
DURATION | 2023  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WPC\_SS\_0004

RELATIONSHIP TO OTHER PROJECTS

N/A

COORDINATING AGENCIES

N/A

PLAN OR STUDY

44196.25

RELATIONSHIP TO PLAN

N/A

ROI

N/A

ROI DESCRIPTION

N/A

LINKS & LEVERAGES DESCRIPTION

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

**DEPARTMENT** Sewer  
**CATEGORY** Sewer

# Digester Liquid Loadout

**PROJECT**

**PURPOSE**

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.

**CLASS** Relief/Capacity  
**DURATION** 2022  
**EST LIFE** 20

**PRIORITY** N/A  
**LOCATION** Southside

**REASON FOR CLASS** N/A

**GENERAL COMMENTS** 22WPC\_SS\_0005

**RELATIONSHIP TO OTHER PROJECTS** N/A

**ROI** N/A

**COORDINATING AGENCIES** N/A

**ROI DESCRIPTION** N/A

**PLAN OR STUDY** 44196.25

**LINKS & LEVERAGES DESCRIPTION** N/A

**RELATIONSHIP TO PLAN** N/A

**CREATED** 1/0/1900  
**REQUEST** 1/0/1900  
**MODIFIED** FALSE

**CONTACT EMAIL** Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.40

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Economic Development Citywide

PURPOSE

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.

CLASS | Growth  
DURATION | 2022  
EST LIFE | 40

PRIORITY | N/A  
LOCATION | Collection Systems

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22SOM\_CS\_AW\_0003

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT  
CATEGORY

Sewer  
Sewer

29

PROJECT

# Emergency Sewer Repair, Rehabilitation & Replacement

PURPOSE

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.

CLASS  
DURATION  
EST LIFE

Replacement/Rt  
2022  
40

PRIORITY  
LOCATION

N/A  
Collection System

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

22SOM\_CS\_AW\_0001

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

ROI

N/A

COORDINATING  
AGENCIES

N/A

ROI  
DESCRIPTION

N/A

PLAN  
OR STUDY

44196.25

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

RELATIONSHIP  
TO PLAN

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
1/0/1900  
FALSE

CONTACT  
EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.42



DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# External Draft Tubes for Digester Mixing

PURPOSE

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.

CLASS | Service Level  
DURATION | 2026  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_SS\_0007

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL | Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

31

PROJECT

# Haikey Interceptor Rehab Phase 2

PURPOSE

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.

CLASS | Replacement/Ri  
DURATION | 2022  
EST LIFE | 40

PRIORITY | N/A  
LOCATION | Collection System

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22SOM\_CS\_SS\_0002

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.44

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Lagoon No. 7 Connection

PURPOSE

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 than 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.

CLASS | Relief/Capacity  
DURATION | 2022  
EST LIFE | 40

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_SS\_0006

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.45

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# LBC Oxidation Ditch Mixers

PURPOSE

Install four (4) new mixers (3hp motors) in the LBC Oxidation Ditch, reducing use of four (4) Rotator Brushes (75hp motors) by 50%, which saves on electrical and improves treatment process by not having over oxidation.

CLASS DURATION | Efficiency/Cost :  
EST LIFE | 2031  
15

PRIORITY | N/A  
LOCATION | Lower Bird Creek

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_LB\_0001

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL | Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.46

DEPARTMENT  
CATEGORY

Sewer  
Sewer

34

PROJECT

# Manhole Condition Assessment & Rehabilitation Program

PURPOSE

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.

CLASS  
DURATION  
EST LIFE

Replacement/Ri  
2022  
40

PRIORITY

N/A

LOCATION

Collection System

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

22SOM\_CS\_AW\_0002

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

ROI

N/A

COORDINATING  
AGENCIES

N/A

ROI  
DESCRIPTION

N/A

PLAN  
OR STUDY

44196.25

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

RELATIONSHIP  
TO PLAN

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
1/0/1900  
FALSE

CONTACT  
EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

17.47

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT | **Northside WWTP Digester Lid Repair (Phase 1)**

PURPOSE | "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."

CLASS | Replacement/R  
DURATION | 2022  
EST LIFE | 25

PRIORITY | N/A  
LOCATION | Northside

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_NS\_0001

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL | Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Northside WWTP Digester Lid Repair (Phase 2)

PURPOSE

"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 co

CLASS  
DURATION  
EST LIFE

Replacement/Ri  
2023  
25

PRIORITY  
LOCATION

N/A  
Northside

REASON FOR  
CLASS

N/A

GENERAL  
COMMENTS

22WPC\_NS\_0002

RELATIONSHIP  
TO OTHER  
PROJECTS

N/A

COORDINATING  
AGENCIES

N/A

PLAN  
OR STUDY

44196.25

RELATIONSHIP  
TO PLAN

N/A

ROI

N/A

ROI  
DESCRIPTION

N/A

LINKS &  
LEVERAGES  
DESCRIPTION

N/A

CREATED  
REQUEST  
MODIFIED

1/0/1900  
1/0/1900  
FALSE

CONTACT  
EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Replacement Sludge Transfer Piping

PURPOSE

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.

CLASS | Relief/Capacity  
DURATION | 2022  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WPC\_SS\_0009

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI

N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION

N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION

N/A

RELATIONSHIP TO PLAN

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftulsa.org](mailto:tprag@cityoftulsa.org)



DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# Sludge Dewatering Alternative

PURPOSE

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.

CLASS | Replacement/R  
DURATION | 2024  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WPC\_SS\_0008

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI

N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION

N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION

N/A

RELATIONSHIP TO PLAN

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityofulsa.org](mailto:tprag@cityofulsa.org)

DEPARTMENT | Sewer  
CATEGORY | Sewer

PROJECT

# WAS Instrumentation and Piping

PURPOSE

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.

CLASS | Replacement/R  
DURATION | 2026  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Southside

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WPC\_SS\_0002

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Thomas Prag  
[tprag@cityoftlusa.org](mailto:tprag@cityoftlusa.org)

17.52

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
40 CBC - Elevator Modernization	Tulsa Convention Center	Replace and upgrade various components of the east passenger elevators of the facility at the Cox Business Center (CBCC). The existing 50 year old elevators are in need of major repairs or replacement.	Rehabilitation			High

DEPARTMENT | Tulsa Convention Center  
CATEGORY | Facilities

PROJECT | **CBC - Elevator Modernization**

PURPOSE | Replace and upgrade various components of the east passanger elevators of the facility at the Cox Business Center (CBCC). The existing 50 year old elevators are in need of major repairs or replacement .

CLASS | Rehabilitation  
DURATION | N/A  
EST LIFE | N/A

PRIORITY | N/A  
LOCATION | N/A

REASON FOR CLASS | N/A

GENERAL COMMENTS | N/A

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | High  
MODIFIED | FALSE

CONTACT EMAIL

Willie Williams  
[wwilliams@asmtulsa.com](mailto:wwilliams@asmtulsa.com)

17.54

PROJECT	DEPARTMENT	PURPOSE	CLASSIFICATION	EST USEFUL LIFE	ADDRESS / LOCATION	DEPT PRIORITY
41	Water	<p>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.</p> <p>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 &amp; Garnett. Also, provide a connection with existing lines to A.B. Jewell WTP and Mohawk WTP.</p> <p>This project will provide the equipment and personal to inspect and assess the condition of the Oologah Raw Water Flowlines. 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 which will be used to maintain and schedule repairs to the flowlines as needed.</p>	Replacement/Rehabilitation	25	Laboratory	
42	Water	<p>Install 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.</p>	Replacement/Rehabilitation	20	Pump Stations	
43	Water	<p>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.</p>	Replacement/Rehabilitation	40	Raw Water	
44	Water	<p>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.</p>	Replacement/Rehabilitation	50	Raw Water	

17.55

DEPARTMENT | **Water**  
CATEGORY | **Water**

41

PROJECT

# ABJ Lab Prep Rooms Remodel

PURPOSE

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.

CLASS | Replacement/R  
DURATION | 2022  
EST LIFE | 25

PRIORITY | N/A  
LOCATION | Laboratory

REASON FOR CLASS

N/A

GENERAL COMMENTS

22WS\_ABJ\_0001

RELATIONSHIP TO OTHER PROJECTS

N/A

ROI

N/A

COORDINATING AGENCIES

N/A

ROI DESCRIPTION

N/A

PLAN OR STUDY

44196.25

LINKS & LEVERAGES DESCRIPTION

N/A

RELATIONSHIP TO PLAN

N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Anthony Wilkins  
[awilkins@cityoftulsa.org](mailto:awilkins@cityoftulsa.org)

17.54

DEPARTMENT | **Water**  
CATEGORY | **Water**

42

PROJECT | **COT Fiber - 56th & Garnett to 51st & 129th**

PURPOSE | 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.

CLASS | Service Level  
DURATION | 2022  
EST LIFE | 20

PRIORITY | N/A  
LOCATION | Pump Stations

REASON FOR CLASS | N/A

GENERAL COMMENTS | 22WD\_PS\_0001

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL | [Anthony Wilkins  
awilkins@cityoftulsa.org](mailto:awilkins@cityoftulsa.org)

17.57

DEPARTMENT | **Water**  
CATEGORY | **Water**

43

PROJECT

# Raw Water Flowline Repairs Oologah

PURPOSE

This project will provide the equipment and personal to inspect and assess the condition of the Oologah Raw Water Flowlines. 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 which will be used to maintain and schedule repairs to the flowlines as needed.

CLASS | Replacement/Ri  
DURATION | 2023  
EST LIFE | 40

PRIORITY | N/A  
LOCATION | Raw Water

REASON FOR CLASS | N/A

GENERAL COMMENTS | 20WS\_RW-0001

RELATIONSHIP TO OTHER PROJECTS | N/A

ROI | N/A

COORDINATING AGENCIES | N/A

ROI DESCRIPTION | N/A

PLAN OR STUDY | 44196.25

LINKS & LEVERAGES DESCRIPTION | N/A

RELATIONSHIP TO PLAN | N/A

CREATED | 1/0/1900  
REQUEST | 1/0/1900  
MODIFIED | FALSE

CONTACT EMAIL

Anthony Wilkins  
[awilkins@cityoftulsa.org](mailto:awilkins@cityoftulsa.org)

17.58



**DEPARTMENT** Water  
**CATEGORY** Water

44

**PROJECT**

# Spavinaw Creek Bridge Replacement

**PURPOSE**

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.

**CLASS** Replacement/Ri  
**DURATION** 2023  
**EST LIFE** 50

**PRIORITY** N/A  
**LOCATION** Raw Water

**REASON FOR CLASS** N/A

**GENERAL COMMENTS** 22WS\_RW\_0001

**RELATIONSHIP TO OTHER PROJECTS** N/A

**ROI** N/A

**COORDINATING AGENCIES** N/A

**ROI DESCRIPTION** N/A

**PLAN OR STUDY** 44196.25

**LINKS & LEVERAGES DESCRIPTION** N/A

**RELATIONSHIP TO PLAN** N/A

**CREATED** 1/0/1900  
**REQUEST** 1/0/1900  
**MODIFIED** FALSE

**CONTACT EMAIL**

Anthony Wilkins  
[awilkins@cityoftulsa.org](mailto:awilkins@cityoftulsa.org)

17.59