

City of Smithville Proposed FY2024 - FY2028 Five Year Capital Improvement Plan



Plan Prepared by City of Smithville Finance and Administration Departments

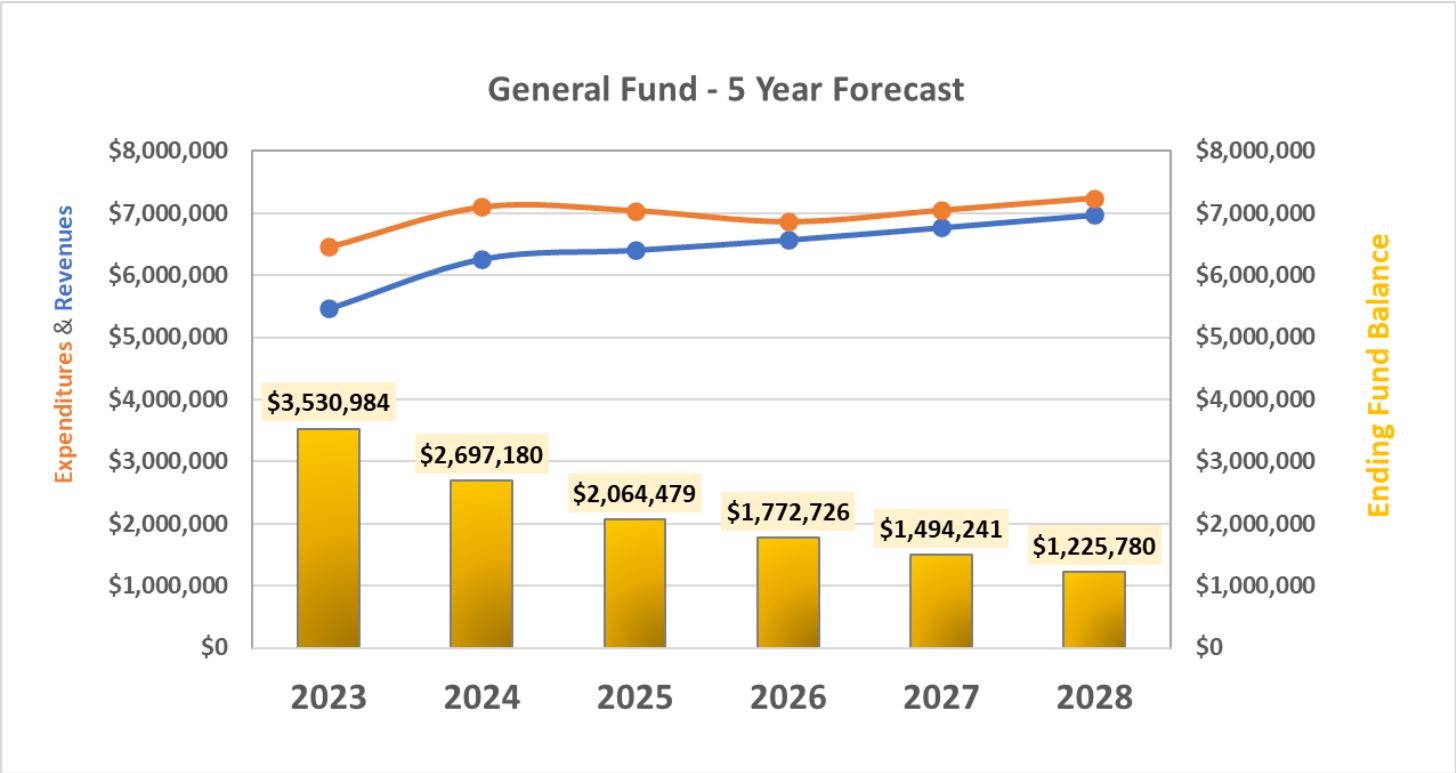
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Five Year Capital Improvement Plan - General Fund

Capital Improvement Projects	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Annual Wayfinding Signage Installation	Administration	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Complete Quincy Boulevard Sidewalks (Construction)	Public Works - Streets	\$205,000	-	-	-	-
Complete Quincy Boulevard Road Reconstruction (Construction)	Public Works - Streets	\$175,000	-	-	-	-
Complete 4 th St & 4 th Terr Mailbox Improvement (Construction)	Public Works - Streets	\$100,000	-	-	-	-
1 st & Bridge Street Round-A-Bout (Engineering)	Public Works - Streets	\$50,000	-	-	-	-
Additional Annual Asphalt Overlay Program Funding	Public Works - Streets	-	\$100,000	-	-	-
Additional Sidewalk Replacement Program Funding	Public Works - Streets	-	\$50,000	-	-	-
Second Creek Bridge Sidewalks (30% of Construction)	Public Works - Streets	-	\$250,000	-	-	-
Riverwalk Park & Trail (10% of Construction)	Public Works - Streets	-	\$200,000	-	-	-
Grand Total		\$630,000	\$700,000	\$100,000	\$100,000	\$100,000

Project Totals By City Department	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Administration	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000
Parks & Recreation	-	-	-	-	-
Public Works - Streets	\$530,000	\$600,000	-	-	-
Police	-	-	-	-	-
Grand Total (Net Cost)	\$630,000	\$700,000	\$100,000	\$100,000	\$100,000

Five Year Cash Flow Analysis - General Fund



Five Year CIP Total
\$1,630,000

General Fund – Capital Improvement Projects

Project Name: Downtown Wayfinding Signage	Department: Administration
Type of Project: Improvement	Contact: Gina Pate
Total Project Cost: \$500,000	

Description:

Using ARPA (American Rescue Plan Act) funding, the City contracted with KMA Design to develop Wayfinding and Signage Guidelines. These guidelines serve as a roadmap for identifying all possible signage for public places in Smithville. These guidelines included a master list of all possible signage, with a focus on downtown placemaking signs, directional signage, and a pedestrian kiosk.

Justification:

The City needs signage and wayfinding markers so that visitors experience a sense of arrival and know they have reached their specific destinations as they travel through the City of Smithville. Right now, this form of directional signage does not exist in the City. \$100,000 has been allocated annually in the General Fund over a five-year period.

Expenditures

	FY2024	FY2025	FY2026	FY2027	FY2028	Total
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Total	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Funding Sources

	FY2024	FY2025	FY2026	FY2027	FY2028	Total
General Fund	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Total	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Updated: **August 21, 2023**

Pending Projects Outside Five Year CIP - General Fund

Pending Projects	Department Name	Cost Estimate
Police Department Building (Engineering)	Police	\$1,000,000
Police Department Building (Construction)	Police	\$16,000,000
Streets & Parks & Recreation Facility Building (Engineering)	Parks & Rec/PW	\$500,000
Streets & Parks & Recreation Facility Building (Construction)	Parks & Rec/PW	\$8,000,000
Tornado Sirens (Purchase & Installation)	Police	Unknown Cost
Grand Total (Net Cost)		\$25,500,000

Five Year Capital Improvement Plan - Combined Water and Wastewater Fund

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY2027	FY2028
Complete Auth 94 - West Bypass of 144th St Lift Station (Engineering)	Public Works - Utilities	\$85,000	-	-	-	-
Complete Auth 92 - Smith's Fork Pump Station (Engineering)	Public Works - Utilities	\$50,000	-	-	-	-
Complete Auth 99 - WTP Improvements/Residuals (Engineering)	Public Works - Utilities	\$150,000	-	-	-	-
Complete Auth 97 - River Cross/Maple Ln Waterline (Engineering)	Public Works - Utilities	\$60,000	-	-	-	-
Complete Auth 98 - Owens Branch Sanitary Sewer (Engineering)	Public Works - Utilities	\$230,000	-	-	-	-
Interconnect Mains at 144 th /169 Highway (S2, Construction)	Public Works - Utilities	\$55,000	-	-	-	-
Highway 92 & Commercial Waterline (Engineering)	Public Works - Utilities	\$125,000	-	-	-	-
144 th Street Lift Station (Construction)	Public Works - Utilities	\$1,700,000	-	-	-	-
West Bypass of the 144 th Street Lift Station (Construction)	Public Works - Utilities	\$2,200,000	-	-	-	-
Maple Lane & River Crossing (12" Waterline) (50% of Construction)	Public Works - Utilities	\$700,000	-	-	-	-
Est. Remaining Contract - Smith's Fork Force Main (Construction)	Public Works - Utilities	\$300,000	-	-	-	-
McDonalds/Central Bank Lift Station (Engineering)	Public Works - Utilities	\$100,000	-	-	-	-
Smith's Fork Park Waterline (Construction)	Public Works - Utilities	\$170,000	-	-	-	-
Headworks Bar Screen (Construction)	Public Works - Utilities	\$325,000	-	-	-	-
Stonebridge Lift Station (Engineering)	Public Works - Utilities	\$250,000	-	-	-	-
Stonebridge Lift Station (Construction With SSD Cost Sharing)	Public Works - Utilities	\$1,500,000	-	-	-	-
Water Treatment Plant Improvements (Construction)	Public Works - Utilities	\$900,000	-	-	-	-
Owens Branch Gravity Line Phase #1, Line #1 (Construction)	Public Works - Utilities	-	\$2,200,000	-	-	-
McDonalds/Central Bank Lift Station (Construction)	Public Works - Utilities	-	\$500,000	-	-	-
Highway 92 & Commercial Waterline (Construction)	Public Works - Utilities	-	\$300,000	-	-	-
Owens Branch Gravity Line Phase #1, Line #2 (Engineering)	Public Works - Utilities	-	\$600,000	-	-	-
Owens Branch Gravity Line Phase #1, Line #2 (Construction)	Public Works - Utilities	-	-	\$2,500,000	-	-
Water Plant Expansion (Engineering)	Public Works - Utilities	-	-	\$2,100,000	-	-
Wastewater Treatment Plant Expansion (Construction)	Public Works - Utilities	-	-	\$3,000,000	\$3,000,000	-
<i>Additional Water and Wastewater Project Funding</i>	Public Works - Utilities	-	-	-	\$2,000,000	-
Water Plant Expansion, Phase I (Construction)	Public Works - Utilities	-	-	-	-	\$7,500,000
<i>Additional Water and Wastewater Project Funding</i>	Public Works - Utilities	-	-	-	-	\$2,000,000
Grand Total (Net Cost)		\$8,900,000	\$3,600,000	\$7,600,000	\$5,000,000	\$9,500,000

CWWS Fund – Capital Improvement Projects

Project Name: Interconnect Mains at 144th & 169 HWY	Department: Public Works - Utilities
Type of Project:	Contact: Bob Lemley
Total Project Cost: \$55,000	

Description:

Twenty years ago, the City acquired utility customers along 169 Highway from the Major Mall, going south, to 132nd street, from PWSD #9 (Public Water Sewer District #9). As part of the Water Master Plan for the new South booster, it is necessary to connect the water line to the 144th street water line, which is approximately 100 feet away.

Justification:

By connecting this line, the City will be ensuring a consistent and adequate water supply to the southwest water tower from the new booster station located at the intersection of 92 Highway and 169 Highway. This connection serves two purposes:

1. The connection will accommodate the expected growth south of 92 Highway, and
2. The connection provides additional water supply for the southwest water tower.

Impact on Operating Costs

This will be a new water main, resulting in future maintenance costs.

Planned Expenditures

Phase	FY 2024
Construction	\$55,000
Total	\$55,000

Funding Sources

Source	FY 2024
CWWS Fund	\$55,000
Total	\$55,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Highway 92 & Commercial Street Waterline	Department: Public Works - Utilities
Type of Project: Waterline Relocation	Contact: Bob Lemley
Total Project Cost: \$425,000	

Description:

In 2018, HDR Engineering developed a hydraulic model for the water distribution system as part of the Water Master Plan. The system comprises three pressure zones, and this project will be executed in the southern zone. Currently, the water main terminates at Highway 92 and Highway 169 when heading south, but with this new connection, it will extend all the way to Park Drive. The new water main will be 8 inches in diameter.

Justification:

To ensure sufficient water supply for the southern end of the town, it is necessary to relocate the South booster station to the intersection of Highway 92 and Highway 169, as outlined in the Water Master Plan. This water line connection is crucial to ensure that the newly relocated booster station has an adequate water supply.

Impact on Operating Costs:

This will be a new water main, resulting in future maintenance costs.

Planned Expenditures

Phase	FY 2024	FY 2025
Engineering	\$125,000	-
Construction	-	\$300,000
Total	\$125,000	\$300,000

Funding Sources

Source	FY 2024	FY 2025
CWWS Fund	\$125,000	\$300,000
Total	\$125,000	\$300,000

CWWS Fund - Capital Improvement Projects

Project Name: 144th Street Lift Station (Construction)	Department: Public Works - Utilities
Type of Project: New Construction	Contact: Bob Lemley
Total Project Cost: \$1,700,000	

Description:

The 144th Lift Station is a planned pump station that will be located along 144th Street just east of Highway 169. With an updated system of gravity sewers, this pump station will collect wastewater from the surrounding area and convey the flow to the wastewater treatment plant by way of the South Force Main. The addition of this pump station, and associated piping, will consolidate the flows from multiple existing pump stations into a single route, allowing Diversified Metal, McDonalds, Platte Valley Bank, and Hills of Shannon pump stations to be decommissioned. This pump station will be sized to allow for additional capacity in the area and will provide the needed capacity to provide for future developments.

The construction will include a new lift station, pumps, and a SCADA (Supervisory Control and Data Acquisition) system.



Justification:

The project is needed for capacity improvements in the southern portion of Smithville and will allow staff to decommission lift stations that are under capacity.

Impact on Operating Costs

This will be a new lift station which will require future maintenance and operational costs.

Planned Expenditures

Phase	FY 2024
Construction	\$1,700,000
Total	\$1,700,000

Funding Sources

Source	FY 2024
CWWS (Revenues from COP Issuance)	\$1,700,000
Total	\$1,700,000

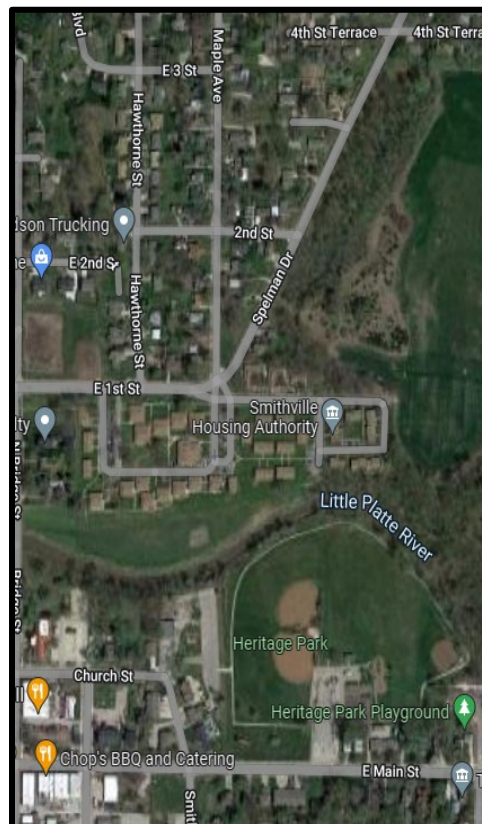
Updated: August 21, 2023

CWWS Fund - Capital Improvement Projects

Project Name: Maple Lane & River Crossing (12" Water Line)	Department: Public Works - Utilities
Type of Project: Capacity	Contact: Bob Lemley
Total Project Cost: \$1,600,000	

Description:

The project will install a new 12" water main under the Little Platte River for capacity and reliability. The waterline will go from Main Street to 3rd Street and will be approximately 2,560' in length.



Justification:

This project is needed to ensure adequate water supply north of the Little Platte River. Currently, there is only one 8" main across the river and this improvement will provide additional capacity and reliability. This project was identified as a priority need in the Water Master Plan. The project has been submitted for ARPA funding from Missouri Department of Natural Resources via Resolution 1080 approved by the Board of Aldermen.

Impact on Operating Costs

This will be a new water main, resulting in future maintenance costs.

Planned Expenditures

Phase	FY 2023	FY 2024	Total
Engineering	\$200,000	-	\$200,000
Construction	-	\$1,400,000	\$1,400,000
Total	\$200,000	\$1,400,000	\$1,600,000

Funding Sources

Source	FY 2023	FY 2024	Total
CWWS Fund (Non-Impact Fees)	\$200,000	\$700,000	\$900,000
CWWS Fund (Water Impact Fees)	-	\$700,000	\$700,000
Total	\$200,000	\$1,400,000	\$1,600,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: McDonalds/Bank Lift Station	Department: Public Works - Utilities
Type of Project: Capacity	Contact: Bob Lemley
Total Project Cost: \$600,000	

Description:

The City plans to extend its gravity sewer system from the McDonald's Sewer Pump Station to the Central Bank Lift Station, and then to the Hills of Shannon gravity sewer system, once the 144th Street Pump Station becomes operational.

Justification and Future Operating Costs:

This project will help the City eliminate two costly sewer pump stations, McDonald's, and Central Bank lift stations, and reduce the annual maintenance and operational costs associated with them, which can be tens of thousands of dollars per year. With an average cost of \$8,000 per pump (and two pumps in each station), these stations require significant electrical and man-hour resources to maintain. Furthermore, eliminating these stations will reduce pressure on the south force main, helping to extend the lifespan of pumps in other stations and saving the city money on maintenance and repairs. Ultimately, our goal is to transition to a gravity sewer system or eliminate as many lift stations as possible.

Planned Expenditures

Phase	FY 2024	FY 2025
Engineering	\$100,000	-
Construction	-	\$500,000
Total	\$100,000	\$500,000

Funding Sources

Fund	FY 2024	FY 2025
CWWS Fund	\$100,000	\$500,000
Total	\$100,000	\$500,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Wastewater Plant – Headworks Bar Screen	Department: Public Works - Utilities
Type of Project: Capacity	Contact: Bob Lemley
Total Project Cost: \$325,000	

Description:

The WTP headworks bar screen removes items which are non-organic or non-decomposable during the treatment process (including wipes or string). The current bar screen is located after the main intake and lift station into the plant. Because of the location, all this incoming non-organic and non-decomposing material must be pumped which is clogging the pumps. Ideally, the bar screen would filter out those materials before the material reaches the pump station.



Justification:

The City had significant problems with the pumps getting clogged, requiring the pumps to be pulled and all the materials to be removed. After the addition of the South Interceptor, rags, wipes,

and other waste come into the pumps intact. In the future, as the City expands wastewater system infrastructure, the bar screen needs to be placed in a different area to prevent. This new bar screen would have the most up-to-date technology and would be a critical investment in reducing wear and tear and ongoing pump maintenance and repair.

Impact on Operating Costs

The project should reduce the overall maintenance costs caused by non-organic and non-decomposing materials.

Estimated Expenditures

Phase	FY 2024
Construction	\$325,000

Funding Sources

Source	FY 2024
CWWS Fund	\$325,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Water Plant Improvements	Department: Public Works - Utilities
Type of Project: Capacity	Contact: Bob Lemley
Total Project Cost: \$1,000,000	

Description:

The proposed water treatment plant improvements will keep the 2.5 million gallons per day (MGD) plant operating and improve plant efficiencies. Highlighted items for this improvement include, remove and land apply lagoon residuals, rehab/paint primary and secondary basins, replace filter valve pneumatic actuator, and replace volumetric feeder.

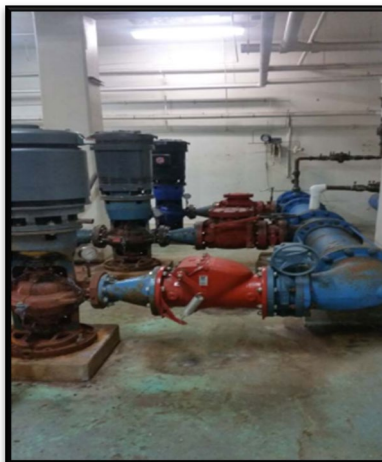
Primary Settling Basin



Second Rapid Mixing Basin



High Service Pumps



Justification:

This project is necessary to maintain the production capacity and meet State Drinking water standards. The project has been submitted for ARPA funding from Missouri Department of Natural Resources through Resolution 1080 approved by the Board of Aldermen.

Impact on Operating Costs

There will be ongoing operating costs for the Water Plant. These improvements will bring to set the stage for the future Water Plant expansion.

Planned Expenditures

Development Phase	FY 2023	FY 2024	Grand Total
Engineering	\$250,000	-	\$250,000
Construction	-	\$900,000	\$900,000
Total	\$250,000	\$900,000	\$1,150,000

Funding Sources

Fund	FY 2023	FY 2024	Grand Total
CWWS Fund	\$250,000	\$900,000	\$1,150,000
Total	\$250,000	\$900,000	\$1,150,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Owens Branch Gravity Line #1, Phase #1	Department: Public Works - Utilities
Type of Project: Capacity	Contact: Chuck Soules
Total Project Cost: \$2,515,000	

Description:

The line will extend from a manhole just east of the influent pump station at the Smithville wastewater treatment plant northward under the Little Platte River. This includes 2,800 linear feet of 30-inch sanitary sewer gravity line. In this first phase of the Owens Branch extension, the line will terminate just north of Highway KK by connecting to the existing force main. The City initiated the engineering phase of the project with HDR Engineering in FY2023. Construction of this section of line is expected to commence following the completion of the Stonebridge lift station so the Smithville School District can have wastewater service.

Justification:

The City is striving to more efficiently serve the community's wastewater needs and provide additional capacity to facilitate growth opportunities. Additional capacity will be added via gravity sewers.

Planned Expenditures

Phase	FY 2023	FY2024	FY2025	Grand Total
Engineering	\$315,000	-	-	\$315,000
Construction	-	-	\$2,200,000	\$2,200,000
Grand Total	\$315,000	-	\$2,200,000	\$2,515,000

Funding Sources

Source	FY 2023	FY2024	FY2025	Grand Total
CWWS Fund	\$315,000	-	\$2,200,000	\$2,515,000
Grand Total	\$315,000	-	\$2,200,000	\$2,515,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Wastewater Plant Expansion	Department: Public Works - Utilities
Type of Project: Addition of Processing Capacity	Contact: Bob Lemley
Total Project Cost: \$7,050,000	

Description:

The North Force Main conveys all flows generated north of the City's wastewater treatment plant (WWTP), while the South Force Main performs the same function for the southern portion of the City. The flows from these force mains are directed to the wastewater treatment plant where the water is treated and discharged to the Little Platte River.

The existing wastewater treatment plant utilizes the activated sludge process using Sequencing Batch Reactor (SBR) technology. The plant was originally constructed in 1995 and replaced an existing lagoon system. An expansion was completed to increase the capacity of the WWTP to a 1.125 MGD average daily flow in 2007. The WWTP consists of an influent pump station, Headworks facility, three SBR basins, UV disinfection, effluent pumping, two sludge digester basins, and an excess flow holding tank to store peak flows during wet weather events.

HDR Engineering Inc. prepared the Wastewater Master Plan, and this plan was adopted by the Board of Aldermen in January 2021. The Plant Expansion has been broken up into two phases:

Phase 1: The Phase I expansion, indicated in the figure below, includes expanding the existing plant utilizing Sequencing Batch Reactor treatment technology. The land west of the existing site must be utilized for plant expansion. A fourth SBR basin is required as well as upgrades to the influent valve vault, effluent valve vault, and the addition of an additional sludge storage tank. As shown in the capacity evaluation above, the existing influent pump station, bar screen, UV disinfection, and effluent pump station have sufficient hydraulic capacity to meet the Phase I expansion.

Phase 2: Phase II expansion will require the addition of a fifth and sixth SBR basin. Again, upgrades are required at the influent valve vault and effluent valve vault. Additional bulbs will be added to the UV equipment to increase the design capacity. One more additional sludge storage tank will need to be added to the treatment plant to increase sludge storage capacity.



Justification:

The project is identified in the Wastewater Master Plan for system capacity needs. The FY2026 and FY2027 CIP will include CWWS funding for construction related expenses. It is anticipated COP proceeds will be required to finance the construction.

Impact on Operating Costs

The expansion will require more electricity and materials to run the plant as processing capacity increases for all wastewater customers.

Planned Expenditures

Phase	FY 2024	FY2027	FY2028	Grand Total
Engineering	\$1,050,000	-	-	-
Construction	-	\$3,000,000	\$3,000,000	\$6,000,000
Grand Total	\$1,050,000	\$3,000,000	\$3,000,000	\$7,050,000

Funding Sources

Source	FY 2024	FY2027	FY2028	Grand Total
CWWS Fund (Wastewater Impact Fees)	\$1,050,000	-	-	\$1,050,000
CWWS Fund (COP Financing)	-	\$3,000,000	\$3,000,000	\$6,000,000
Total	\$1,050,000	\$3,000,000	\$3,000,000	\$7,050,000

Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: Water Plant Expansion	Department: Public Works - Utilities
Type of Project: Addition of Capacity	Contact: Chuck Soules
Total Project Cost: \$9,600,000	

Description:

The City's existing water treatment plant (WTP) consists of rapid or "flush" mixing, primary and secondary contact, or sedimentation basins, followed by gravity filtration. After the water is filtered, it is disinfected and pumped to the chlorine contact basins. High service pumps then deliver the finished or treated drinking water to the distribution and storage system.

Surface water treatment plants must comply with the USEPA's Surface Water Treatment Rule requiring facilities to remove or inactivate microorganisms such as giardia, cryptosporidium, and other viruses. MDNR requires surface water plants to have longer detention times for treatment and disinfection. Typically, surface water plants have wider swings in turbidity and lower alkalinity than groundwater from wells. Well water typically has high hardness, high alkalinity, and more iron and manganese. The tradeoffs being that surface water plants generally require larger basins while ground water plants generally require more chemicals.

The existing surface WTP has a maximum design flow rate of 2.5 MGD (1,736 gallons per minute) as permitted by the Missouri Department of Natural Resources (MDNR). Over the last five years, the WTP treated an average of 0.945 MGD. While the design capacity of the plant is 2.5 MGD, staff is only able to treat approximately 2.09 MGD (1,450 gallons per minute) due to pumping limitations of the Raw Water Pump Station (see Section 3.1.3 Raw Water Pump Station).



Justification:

According to future water demands identified in the Water Master Plan, the maximum day water demands will begin to exceed the water treatment plants design capacity by 2024. The proposed improvements outlined in the master plan are identified as either Capacity Improvements (required meet future demand projections) or Maintenance Improvements (needed to improve safety or reliability or to satisfy MDNR requirements).

Impact on Operating Costs

The Water Plant Expansion would have ongoing costs for operation and maintenance. The expansion will require more electricity and materials to run the plant.

Planned Expenditures

Development Phase	FY2026	FY2027	FY2028	Grand Total
Engineering	\$2,100,000	-	-	\$2,100,000
Construction	-	-	\$7,500,000	\$7,500,000
Grand Total	\$2,100,000	-	\$7,500,000	\$9,600,000

Funding Sources

Source	FY2026	FY2027	FY2028	Grand Total
CWWS Fund (COP Financing)	\$2,100,000	-	\$7,500,000	\$9,600,000
Grand Total	\$2,100,000	-	\$7,500,000	\$9,600,000

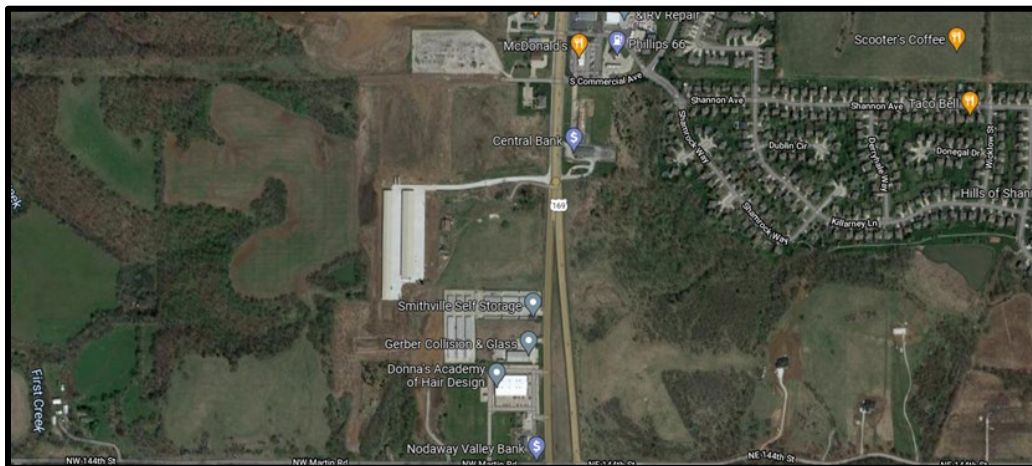
Updated: August 21, 2023

CWWS Fund – Capital Improvement Projects

Project Name: West Bypass of 144 th Lift Station	Department: Public Works - Utilities
Type of Project: Addition of Capacity	Contact: Chuck Soules
Total Project Cost: \$2,700,000	

Description:

This project will install a sewer pump station at the end of 144th Street followed by the construction of an 8" force main to carry raw sewage to the south interceptor on Cliff Drive. The current 8" force main will not handle the new flows that the new pump station will produce. This project will create new opportunities for development of land at the south end of Smithville.



Justification:

This project is outlined in the Wastewater Master Plan.

Impact on Operating Costs

This project will be a new sewer pump station. There will be future maintenance costs associated with this project.

Planned Expenditures

Development Phase	FY 2022	FY 2023	FY 2024	Grand Total
Engineering	\$500,000	-	-	\$500,000
Construction	-	-	\$2,200,000	\$2,200,000
Grand Total	\$500,000	-	\$2,200,000	\$2,700,000

Funding Sources

Source	FY 2022	FY 2023	FY 2024	Grand Total
CWWS Funding	\$500,000	-	-	\$500,000
CWWS (COP Financing)	-	-	\$2,200,000	\$2,200,000
Grand Total	\$500,000	-	\$2,200,000	\$2,700,000

Updated: August 21, 2023

CWWS Fund - Capital Improvement Projects

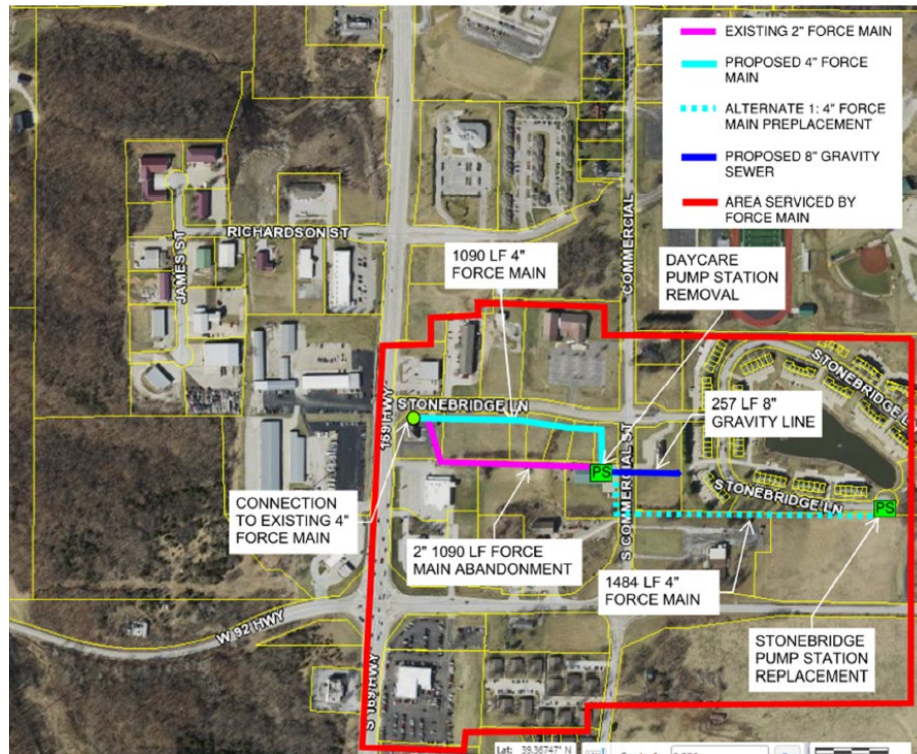
Project Name: Stonebridge Lift Station (Construction)	Department: Public Works - Utilities
Type of Project: New Construction	Contact: Bob Lemley
Total Project Cost: \$1,500,000	

Description:

HDR conducted an evaluation of the existing Stonebridge Pump Station (PS) to determine the necessary capacity improvements for handling increased water flow as the watershed continues to develop. On June 29, 2023, the City conducted a drawdown test on the existing Stonebridge Pump Station. The test revealed an operational issue affecting the station's pumping capacity. Possible factors contributing to this problem include clogged pumps, faulty seals in the discharge pipe, defective check valves, or a restriction within the existing 4" force main.

Both the existing Daycare and Stonebridge pump stations are inadequate for managing the anticipated increased water flow from future watershed development. Instead of individually upgrading and maintaining both pump stations, a proposal was assessed: the removal of the Daycare Pump Station and directing the flow through a gravity sewer to a newly designed and larger Stonebridge Pump Station. It's noted that the 4" force main connecting Stonebridge to Daycare should ideally handle the expected peak flow. However, given the results of the drawdown test, it's possible that there's a blockage or constraint within this force main, or potential issues at the pump station that necessitate further investigation.

Recommendations involve considering an alternative, such as replacing the current 4" force main with a new one if a blockage or restriction is identified as the root cause of the problem. As part of this approach, the existing Daycare and Stonebridge pump stations would be decommissioned and replaced with a new, larger Stonebridge pump station situated adjacent to the existing setup.



Justification:

The project is needed for capacity improvements in the southern portion of Smithville and will allow staff to decommission lift stations that are under capacity.

Impact on Operating Costs

This will be a new lift station which will require future maintenance and operational costs.

Planned Expenditures

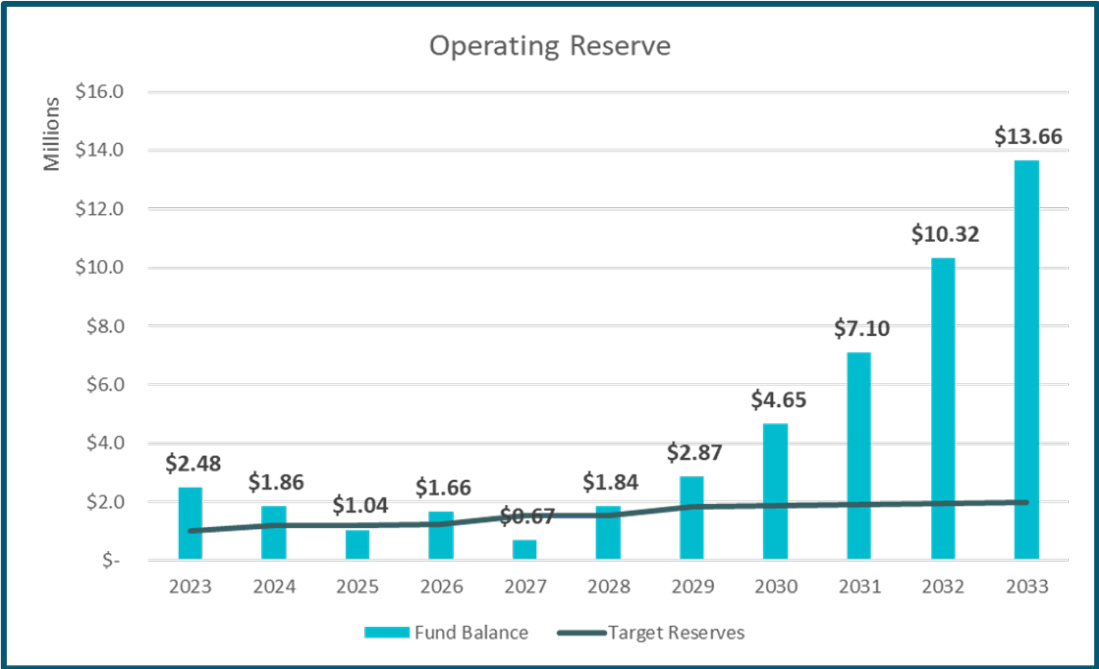
Phase	FY 2024
Construction	\$1,500,000
Total	\$1,500,000

Funding Sources

Source	FY 2024
CWS	\$1,500,000
Total	\$1,500,000

Updated: August 24, 2023

Five Year Cash Flow Analysis - CWWS Fund (Non Impact Fees)



Five Year CIP Total

\$34,600,000

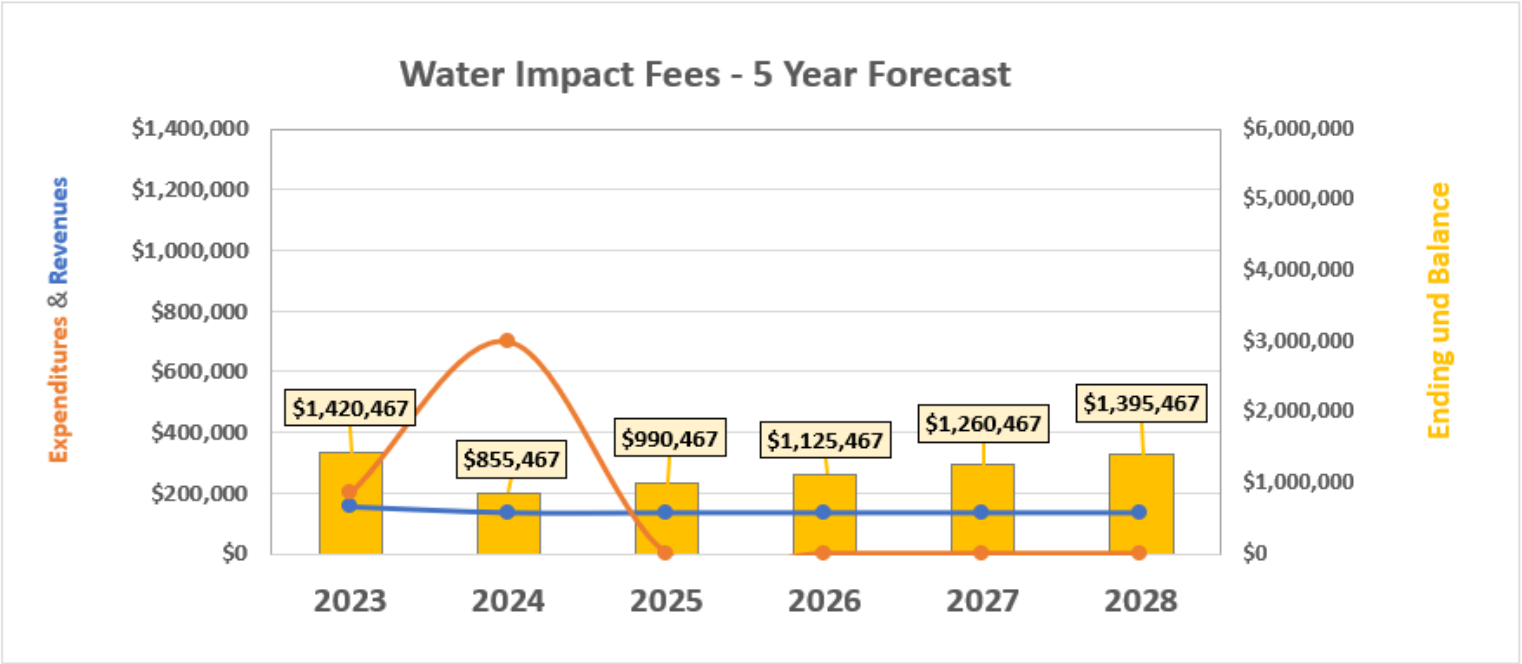


Pending Projects - Outside Five Year CIP - CWWS Fund

Pending Projects	Department	Cost Estimate
Lift Station Bar Screen (Engineering)	Public Works - Utilities	\$500,000
Lift Station Bar Screen (Construction)	Public Works - Utilities	\$2,000,000
Stonebridge Lift Station/Force Main Replacement (Engineering)	Public Works - Utilities	\$250,000
Stonebridge Lift Station/Force Main Replacement (Construction)	Public Works - Utilities	\$1,000,000
Northwest Subdivision Waterline Loop System (E & C)	Public Works - Utilities	\$200,000
Eagle Parkway Water Line (E & C)	Public Works - Utilities	\$300,000
Main Street Waterline (River Crossing to Liberty) (E & C)	Public Works - Utilities	\$250,000
Helvey Park (12" Waterline) (E & C)	Public Works - Utilities	\$700,000
169 Highway Waterline (Commercial to SW Tower) (E & C)	Public Works - Utilities	\$700,000
Owens Branch Gravity Line Phase #1, Line #3 (Engineering)	Public Works - Utilities	\$700,000
Owens Branch Gravity Line Phase #1, Line #3 (Construction)	Public Works - Utilities	\$2,500,000
Water Plant Expansion, Phase II (Construction)	Public Works - Utilities	\$7,500,000
144 th Street to Forest Oaks Gravity Line (Construction)	Public Works - Utilities	\$3,000,000
Grand Total (Net Cost)		\$19,600,000

Five Year Capital Improvement Plan - Water Impact Projects						
Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Maple Lane & River Crossing (12" Waterline) (50% of Construction)	Public Works - Utilities	\$700,000	-	-	-	-
Grand Total		\$700,000	-	-	-	-

Five Year Cash Flow Analysis - Water Impact Projects & Fees



Five Year CIP Total

\$700,000

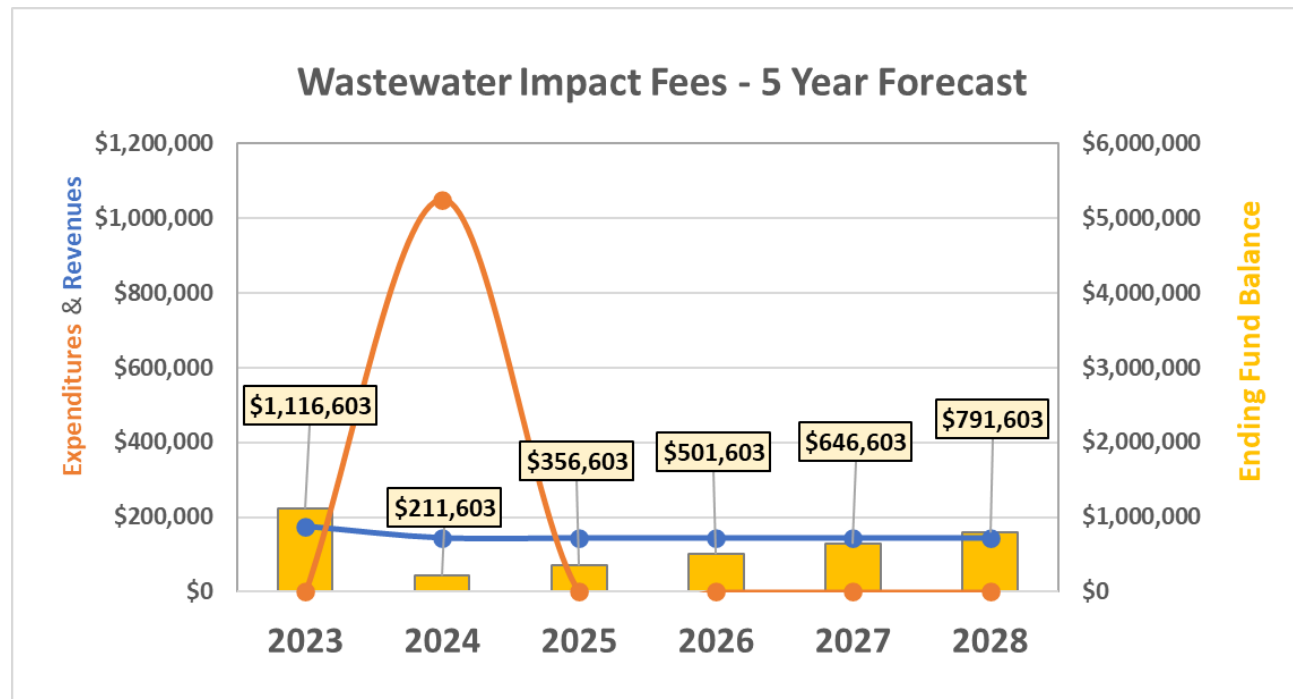
Pending Projects - Outside Five Year CIP - Water Impact Projects

Pending Projects		Department	Cost Estimate	Year Planned
None		None	-	None

Five Year Capital Improvement Plan - Wastewater Impact Projects

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Wastewater Treatment Plant Expansion (Engineering)	Public Works - Utilities	\$1,050,000	-	-	-	
Grand Total		\$1,050,000	-	-	-	-

Five Year Cash Flow Analysis - Wastewater Impact Projects/Fees



Five Year CIP Total

\$1,050,000

Pending Projects - Outside Five Year CIP - Wastewater Impact Projects

Pending Projects	Department	Cost Estimate
None	None	-

Five Year Capital Improvement Plan - Transportation Sales Tax Fund

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Annual Asphalt Overlay Program (Projects TBD)	Public Works - Streets	\$300,000	\$200,000	\$200,000	\$300,000	\$300,000
Annual Sidewalk Replacement Program	Public Works - Streets	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Complete 4 th St & 4 th Terr Road Reconstruction (Construction)	Public Works - Streets	\$315,000	-	-	-	-
Complete Commercial Street Sidewalks (Engineering)	Public Works - Streets	\$40,000	-	-	-	-
Commercial Street Sidewalks (Construction)	Public Works - Streets	\$750,000	-	-	-	-
Commercial Street Sidewalks (MARC Reimbursement)	Public Works - Streets	(500,000)	-	-	-	-
1 st & Bridge St Round-A-Bout Construction (80% of Project Expense)	Public Works - Streets	-	-	\$1,430,000	-	-
1 st & Bridge Street Round-A-Bout (MARC Reimbursement)	Public Works - Streets	-	-	(896,000)	-	-
180 th & Eagle Round-A-Bout Construction (25% of Project Expense)	Public Works - Streets	-	-	-	-	\$300,000
Grand Total (Net Cost)		\$930,000	\$225,000	\$759,000	\$325,000	\$625,000

GREEN Numbers Indicated "Secured" Grant Funding

Transportation Sales Tax Fund – Capital Improvement Projects

Project Name: Annual Asphalt Overlay Program	Department: Public Works
Type of Project: Rehabilitation / Replacement	Contact: Allan Jensen
Total Project Cost: \$1,400,000	

Description:

The Annual Asphalt Overlay Program allocates funding for road maintenance and repairs. Project selection and prioritization is guided by the results of the Pavement Condition Index (PCI). Staff evaluate the City's street system and then assign a PCI grade to streets according to the degree of deterioration & degradation, traffic volume, and other factors. The Public Works staff then puts together an annual program for asphalt overlay balancing the needs of the neighborhood streets, major streets, and the available annual program budget. Annual projects completed in the past are visible on the City's public website under the "CIP Completed Projects" page.

Justification:

Asphalt overlay is recommended when asphalt in streets show cracking or potholing, while still not being damaged enough to require full depth replacement. Asphalt overlay is necessary to keep the City's major streets and neighborhood roads in a safe and drivable condition for motorists and bicyclists.

Impact on Operating Costs:

This is an ongoing annually funded program, so there will be costs in the future for mill and overlay. The program will reduce maintenance costs for road repairs.

Planned Expenditures

Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Annual Asphalt Program	\$300,000	\$300,000	\$200,000	\$300,000	\$300,000	\$1,400,000

Funding Sources

Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Transportation Sales Tax Fund	\$300,000	\$200,000	\$200,000	\$300,000	\$300,000	\$1,300,000
General Fund	-	\$100,000	-	-	-	\$100,000
Grand Total	\$300,000	\$300,000	\$200,000	\$300,000	\$300,000	\$1,400,000

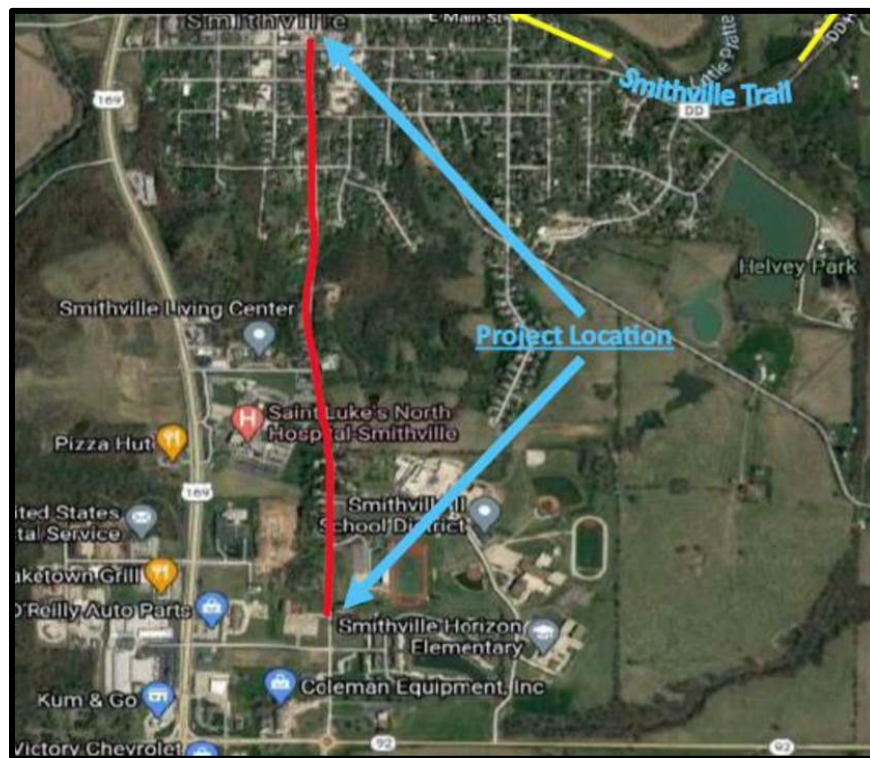
Updated: August 21, 2023

Transportation Sales Tax Fund – Capital Improvement Project

Project Name: Commercial Street Sidewalks	Department: Public Works - Streets
Type of Project: New Construction	Contact: Chuck Soules
Total Project Cost: \$900,000	

Description:

This project is the construction of a 6' pedestrian sidewalk on Commercial Street, running from Smithville School District property north to Meadow Street in Downtown Smithville. The project will include a pedestrian sidewalk, ADA access, grading, curb and gutter, and pavement. The sidewalk will be approximately 4,500' in length (nearly 1 mile). Pictured below is an image showing the project location in the City.



Justification:

Currently, there is sidewalk on only one side of Commercial Street. This additional sidewalk will not only allow for more pedestrian access for residents and visitors but also create more pedestrian access to the Smithville School District and encourage more students to walk or bike to school. The City received TAP (Transportation Alternatives Program) grant funding through MoDOT to offset project expenses.

Impact on Operating Costs:

The project will include the construction of a new sidewalk. There is the potential for future costs related to ongoing maintenance and upkeep of the pedestrian sidewalks, curbs, and gutter.

Planned Expenditures

Development Phase	FY 2023	FY 2024	Grand Total
Engineering	\$150,000	-	\$150,000
Construction	-	\$750,000	\$750,000
Total	\$150,000	\$750,000	\$900,000

Funding Sources

Source	FY 2023	FY 2024	Grand Total
Transportation Sales Tax Fund	\$150,000	\$250,000	\$400,000
TAP Funding (MoDOT)	-	\$500,000	\$500,000
Total	\$150,000	\$750,000	\$900,000

Updated: August 21, 2023

Transportation Sales Tax Fund – Capital Improvement Projects

Project Name: Sidewalk Improvement Program	Department: Public Works
Type of Project: Rehabilitation / Replacement	Contact: Allan Jensen
Total Project Cost: \$225,000	

Description:

The Sidewalk Improvement Program is an annual CIP program and will be a 50/50 cost-sharing arrangement between the City and property owners. Staff inspect various residential areas in Smithville to determine the area with the greatest sidewalk replacement and repair need during the specific construction year. Property owners would be notified of the project if their property is affected and would be able to enroll in the program or would be required by the City to make the improvements by themselves. Neighborhoods could also enroll in the program with the cost-sharing arrangement to improve gaps in sidewalk access.

Justification:

This is an annual program to help resolve hazardous sidewalk conditions (which cause pedestrians to trip or fall on the sidewalk) and improve sidewalk access (gaps in sidewalk) throughout the City of Smithville.

Impact on Operating Costs:

This is an annual program, so there will be ongoing funding needs in the future.

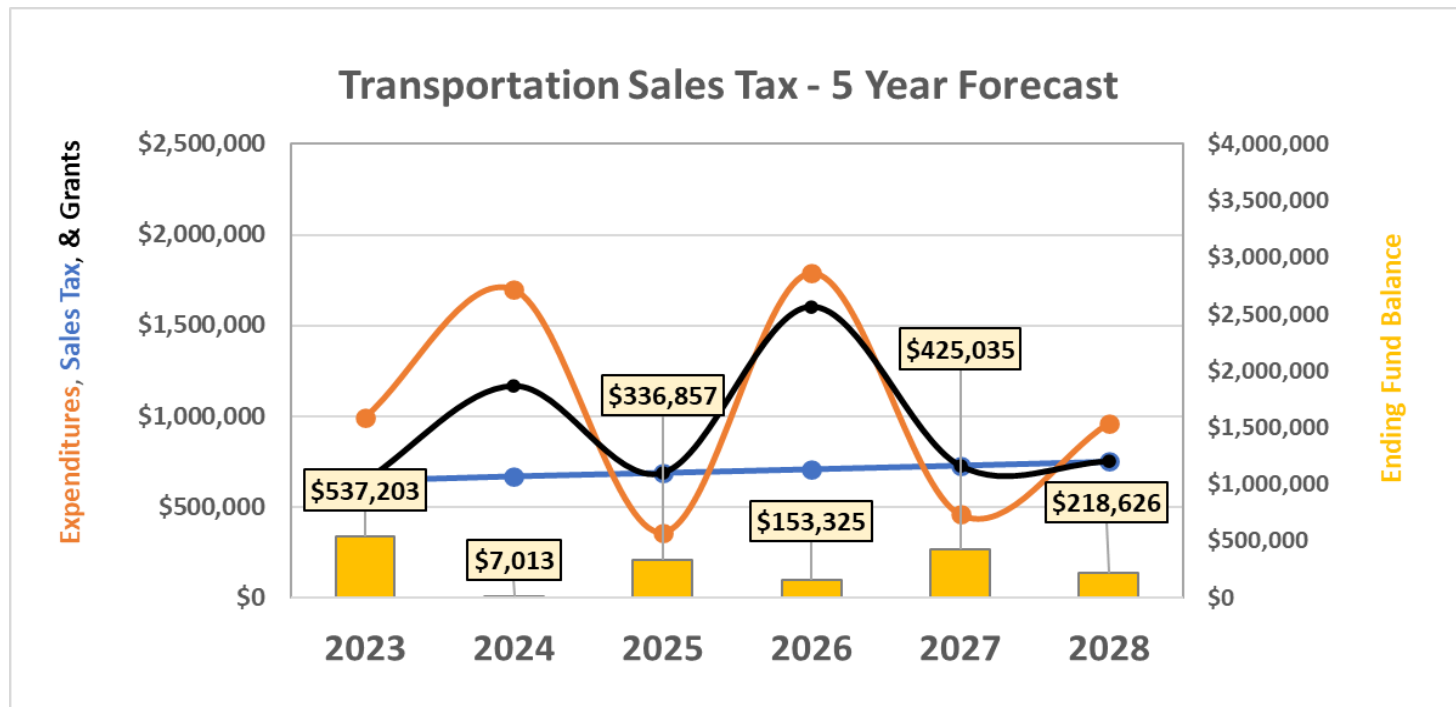
Planned Expenditures

Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Annual Asphalt Program	\$25,000	\$75,000	\$25,000	\$25,000	\$25,000	\$175,000

Funding Sources

Source	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
General Fund	-	\$50,000	-	-	-	\$50,000
Transportation Sales Tax	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Total	\$25,000	\$75,000	\$25,000	\$25,000	\$25,000	\$175,000

Five Year Cash Flow Analysis - Transportation Sales Tax Fund

**Five Year CIP Total****\$2,864,000**

Pending Projects - Outside Five Year CIP - Transportation Sales Tax Fund

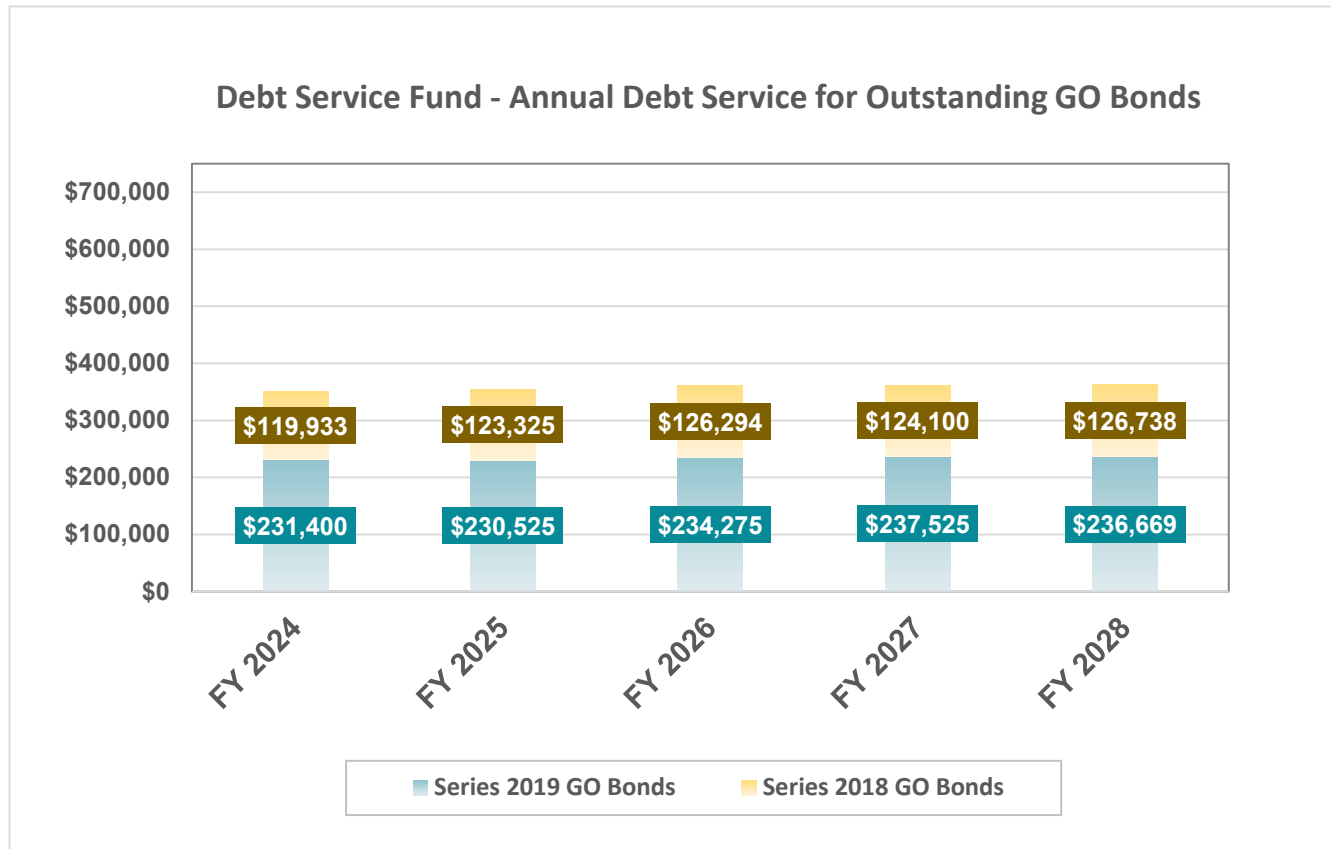
Pending Projects	Department Name	Cost Estimate
Raised Ped Crosswalk/Flashing Beacon Maple Elem School	Public Works - Streets	\$70,000
2 nd Street Asphalt Overlay (169 to Bridge)	Public Works - Streets	\$25,000
Diamond Crest Asphalt Overlay	Public Works - Streets	\$175,000
Harborview Asphalt (Newport/Harborview Dr/Fletcher/Mesa)	Public Works - Streets	\$230,000
180 th Street Asphalt Overlay (169 to Old Jefferson)	Public Works - Streets	\$750,000
Harborview Asphalt Overlay (Remaining Roads)	Public Works - Streets	\$725,000
Highland Avenue Asphalt Overlay (Halfway Up Hill)	Public Works - Streets	\$30,000
North Main - Asphalt Overlay	Public Works - Streets	\$200,000
134 th Street Asphalt Overlay (Road Agreement with County)	Public Works - Streets	\$155,000
176 th Street Asphalt Overlay (Road Agreement with County)	Public Works - Streets	\$80,000
South Bridge Street --- Asphalt, Curbs, Stormwater	Public Works - Streets	\$145,000
Seal Coating/Micro-Surfacing Downtown City Parking Lots	Public Works - Streets	To Be Determined
Grand Total (Net Cost)		\$2,585,000

Five Year Capital Improvement Plan - Debt Service Fund

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Transfer to Debt Service Fund - Annual Debt Service Payment	Finance	\$361,340	\$364,875	\$367,920	\$373,420	\$376,420

Debt Service Detail	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Series 2018 (General Obligation 20 Year Bond)	Finance	\$119,933	\$123,325	\$126,294	\$124,100	\$126,738
Series 2018 ----- Principal (Paid March 1st)	Finance	\$55,000	\$60,000	\$65,000	\$65,000	\$70,000
Series 2018 ----- Interest (Paid March 1st)	Finance	\$32,783	\$32,150	\$31,175	\$30,119	\$28,981
Series 2018 ----- Interest (Paid September 1st)	Finance	\$32,150	\$31,175	\$30,119	\$28,981	\$27,756

Debt Service Detail	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Series 2019 (General Obligation 20 Year Bond)	Finance	\$231,400	\$230,525	\$234,275	\$237,525	\$236,669
Series 2019 -----Principal (Paid March 1st)	Finance	\$115,000	\$120,000	\$130,000	\$140,000	\$145,000
Series 2019 ----- Interest (Paid March 1st)	Finance	\$59,638	\$56,763	\$53,763	\$50,513	\$47,013
Series 2019 ----- Interest (Paid September 1st)	Finance	\$56,763	\$53,763	\$50,513	\$47,013	\$44,656



Series 2018 Final Payment Scheduled for March 1st, 2038

Series 2019 Final Payment Scheduled for March 1st, 2038

Five Year Capital Improvement Plan - Capital Improvement Sales Tax

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Annual Transfer to Debt Service	Public Works - Streets	\$361,340	\$364,875	\$367,920	\$373,420	\$376,420
Complete Downtown Streetscape Phase III (Engineering)	Public Works - Streets	\$50,000	-	-	-	-
Complete Quincy Boulevard Road Reconstruction (Construction)	Public Works - Streets	\$95,000	-	-	-	-
Riverwalk Park & Trail (Engineering)	Public Works - Streets	\$250,000	-	-	-	-
2 nd Creek Sidewalks (Engineering)	Public Works - Streets	\$150,000	-	-	-	-
1 st & Bridge Street Round-A-Bout (80% of Engineering)	Public Works - Streets	\$200,000	-	-	-	-
Downtown Streetscape Phase III (Construction)	Public Works - Streets	\$800,000	-	-	-	-
Downtown Streetscape Phase III (Grant Reimbursement)	Public Works - Streets	(488,000)	-	-	-	-
2 nd Creek Sidewalks (70% of Construction)	Public Works - Streets	-	\$695,000	-	-	-
2 nd Creek Sidewalks (MARC Reimbursement)	Public Works - Streets	-	(600,000)	-	-	-
Riverwalk & Trail Construction (60% of Project Expense)	Public Works - Streets	-	\$480,000	\$670,000	-	-
Riverwalk & Trail (MARC Reimbursement)	Public Works - Streets	-	(480,000)	(420,000)	-	-
1 st & Bridge Street - Round-A-Bout (20% of Construction)	Public Works - Streets	-	-	\$300,000	-	-
180 th & Eagle Parkway Round-A-Bout (Engineering)	Public Works - Streets	-	-	-	\$250,000	-
Pope Lane Round-a-Bout/Connection (80% of Engineering)	Public Works - Streets	-	-	-	-	\$400,000
180 th & Eagle Parkway Round-A-Bout (75% of Construction)	Public Works - Streets	-	-	-	-	\$1,000,000
180 th & Eagle Parkway Round-A-Bout (MARC Reimburse)	Public Works - Streets	-	-	-	-	(700,000)
Grand Total (Net Cost)		\$1,418,340	\$459,875	\$917,920	\$623,420	\$1,076,420

GREEN Numbers Indicated "Secured" Grant Funding

Transportation Sales Tax Fund – Capital Improvement Project

Project Name: 1st & Bridge Street Round-A-Bout	Department: Public Works
Type of Project: Rehabilitation / Replacement	Contact: Chuck Soules
Total Project Cost: \$1,980,000	

Description:

The existing intersection at the intersection of Bridge Street, Hilltop Street, and East 1st Street poses significant challenges to both motorists and pedestrians. The intersection's odd angles make it difficult for drivers to navigate, and the lack of clear pedestrian crossings creates confusion for walkers. As a result, motorists are often looking for quicker ways through the intersection, leading to speeding and failure to come to a complete stop.

The situation also affects residents of the housing authority who do not have access to cars and rely on walking to local shopping areas. Without a clear and safe pedestrian route, these residents may be at increased risk of accidents and injuries. To address these challenges, the City is proposing the construction of a roundabout to replace the existing intersection.

Justification:

The City of Smithville applied for a grant from MARC in 2022 to fund the proposed roundabout project, and the City was awarded this grant. The project aims to address the challenges of the existing intersection at Bridge Street by improving safety, promoting sustainable transportation options, and optimizing vehicular flow. The roundabout will provide a clearer and safer route for pedestrians and bicyclists, while enhancing traffic flow for all users of the intersection.



Planned Expenditures

Phase	FY 2024	FY 2025	FY 2026	Total
Engineering	\$250,000	-	-	\$250,000
Construction	-	-	\$1,730,000	\$1,430,000
Total	\$250,000	-	\$1,730,000	\$1,980,000

Funding Sources

Source	FY 2024	FY 2025	FY 2026	Total
General Fund	\$50,000	-	-	\$50,000
Capital Improvement Sales Tax	\$200,000	-	\$300,000	\$500,000
Transportation Sales Tax	-	-	\$534,000	\$534,000
MARC Grant (Reimbursement)	-	-	\$896,000	\$896,000
Total Net Cost	\$250,000	-	\$1,730,000	\$1,980,000

Updated: August 21, 2023

Capital Improvement Sales Tax Fund – Capital Improvement Projects

Project Name: Second Creek Sidewalks	Department: Public Works
Type of Project: New Infrastructure	Contact: Chuck Soules
Total Project Cost: \$1,095,000	

Description:

This project includes an 8-foot multi-use path along Second Creek (from Highway 169 to Wright Valley Road) to connect to residential neighborhoods. Currently, there is no sidewalk in the area and the curve creates a blind spot for pedestrians and drivers. The multi-use path will be ADA accessible and provide safe access for pedestrians and bicyclists to the downtown amenities, trails, and parks. The bridge over the Little Platte River will be widened to provide pedestrian access across the river.

Justification:

The City of Smithville applied for a grant from MARC (Mid-America Regional Council) in 2022 to fund the proposed sidewalk project, and the City was awarded this grant. As identified in the City's Transportation Master Plan, several short sidewalk connections are needed throughout Smithville to connect between neighborhoods and other destinations. Residents have multimodal options within their own neighborhood, but do not have the infrastructure to safely travel to other destinations. The need for more sidewalks and multi-use paths emerged as a major theme in the Transportation Master Plan.



Planned Expenditures

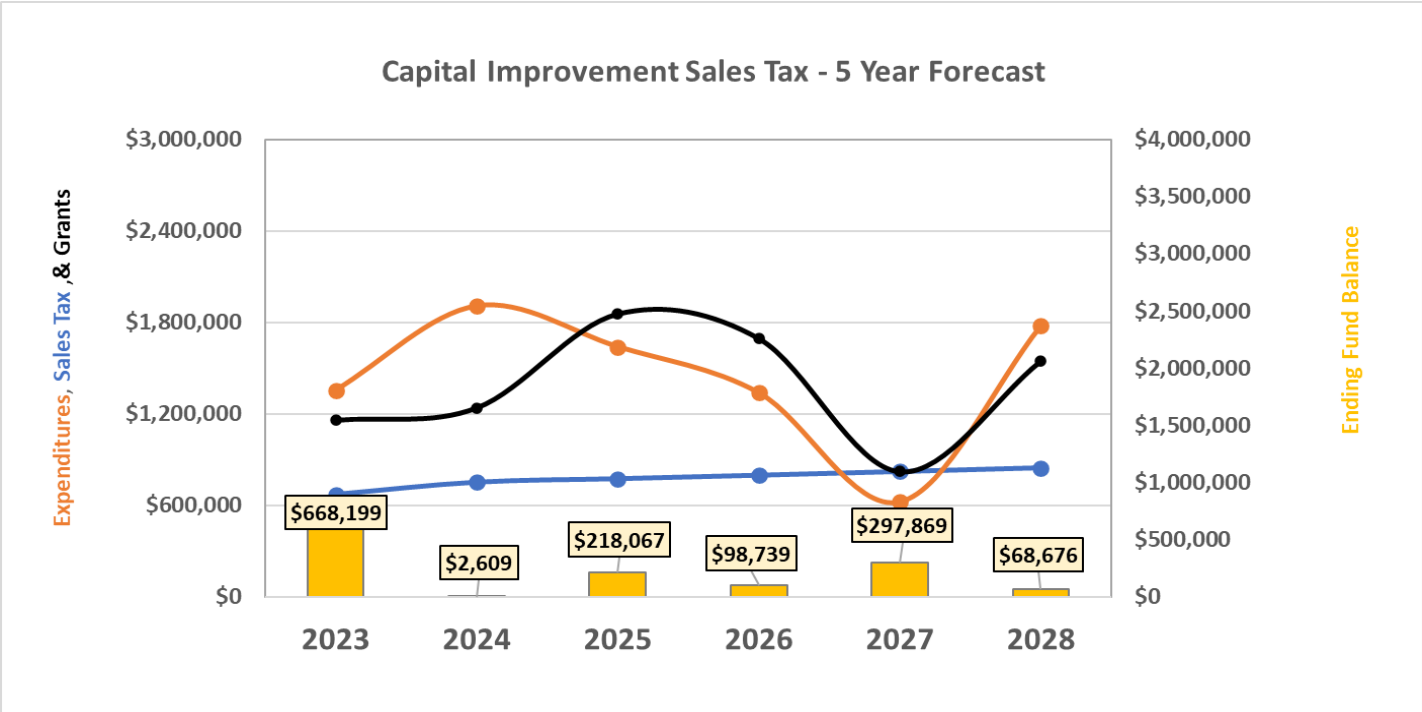
Phase	FY 2024	FY 2025	Total
Engineering	\$150,000	-	\$150,000
Construction	-	\$945,000	\$945,000
Total	\$150,000	\$945,000	\$1,095,000

Funding Sources

Source	FY 2024	FY 2025	Total
Capital Improvement Sales Tax	\$150,000	\$95,000	\$245,000
General Fund	-	\$250,000	\$250,000
MARC Grant Reimbursement	-	\$600,000	\$600,000
Total	\$150,000	\$945,000	\$1,095,000

Updated: August 21, 2023

Five Year Cash Flow Analysis - Capital Improvement Sales Tax Fund



5 Year CIP Total

\$4,495,975



Pending Projects - Outside Five Year CIP - Capital Improvement Sales Tax

Pending Projects	Department Name	Cost Estimate
180 th & Old Jefferson Round-a-Bout (Engineering)	Public Works - Streets	\$250,000
180 th & Old Jefferson Round-a-Bout (Construction)	Public Works - Streets	\$1,000,000
180 th & Old Jefferson Round-a-Bout (MARC Reimburse)	Public Works - Streets	(700,000)
Grand Total (Net Cost)		\$550,000

Five Year Capital Improvement Plan - Park & Stormwater Sales Tax

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
OK Railroad Trail - Phase I (Construction)	Parks & Recreation	\$281,000	-	-	-	-
OK Railroad Trail - Phase I (Grant)	Parks & Recreation	(181,000)	-	-	-	-
Emerald Ridge Neighborhood Park & Signage (Construction)	Parks & Recreation	\$450,000	-	-	-	-
Diamond Crest Splashpad Shelter & Bathrooms (Construction)	Parks & Recreation	\$90,000	-	-	-	-
Stonebridge Stormwater Improvements (Engineering)	Public Works	\$50,000	-	-	-	-
Stonebridge Stormwater Improvements (Construction)	Public Works	\$150,000	-	-	-	-
Dundee Road Stormwater Improvements (Engineering)	Public Works	-	\$50,000	-	-	-
Dundee Road Stormwater Improvements (Construction)	Public Works	-	\$150,000	-	-	-
Riverwalk & Trail Construction (30% of Project Expense)	Parks & Recreation	-	\$600,000	-	-	-
Forest Oaks Stormwater Improvements (Engineering)	Public Works	-	-	\$50,000	-	-
Forest Oaks Stormwater Improvements (Construction)	Public Works	-	-	\$300,000	-	-
Cedar Lakes Stormwater Improvements (Engineering)	Public Works	-	-	-	\$25,000	-
Cedar Lakes Stormwater Improvements (Construction)	Public Works	-	-	-	\$100,000	-
Smith's Fork Park Complex (Engineering & Design)	Parks & Recreation	-	-	-	\$640,000	-
Maple Lane Stormwater Improvements (Engineering)	Public Works	-	-	-	-	\$50,000
Maple Lane Stormwater Improvements (Construction)	Public Works	-	-	-	-	\$250,000
Smith's Fork Park Complex (Construction, Phase I)	Parks & Recreation	-	-	-	-	\$2,240,000
Grand Total (Net Cost)		\$840,000	\$800,000	\$350,000	\$765,000	\$2,540,000

Project Totals By City Department	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Parks & Recreation	\$640,000	\$600,000	-	\$640,000	\$2,240,000
Public Works	\$200,000	\$200,000	\$350,000	\$125,000	\$300,000
Grand Total (Net Cost)	\$840,000	\$800,000	\$350,000	\$765,000	\$2,540,000

Park & Stormwater Sales Tax Fund – Capital Improvement Projects

Project Name: The “OK” Railroad Trail (Diamond Crest Trail)	Department: Parks & Recreation
Type of Project: Rehabilitation	Contact: Matt Denton
Total Project Cost: \$281,000	

Description:

The OK Railroad Trail Phase I will initiate a long-term community vision of providing better access to the City’s current trail amenities and will connect three neighborhoods to a local elementary school. This project will include a 2,230’ long and 10’ wide multi-use trail for walking, biking, running, and wheeling. The all-weather concrete trail will provide Americans with Disabilities Act (ADA) accessibility to the trail. The trail will have a 4’ wide lime screen running trail, adjacent to the 10’ wide concrete path. The trail would allow residents and visitors to safely access OK Railroad Park by walking, running, wheeling, or biking. Amenities included in this project would be two benches, a water bottle filling station, and a pedestrian counter.

This grant program would allow the City to begin the first phase of the OK Railroad Trail project. Phase I of the trail will connect the OK Railroad, Clay Creek Townhomes, and Lake Meadows neighborhoods. Phase I will have two Missouri State Park signs, one at the start of the trail and at the end of Phase I. The city anticipates that grading and mobilization will have to occur before construction of the trail. Phase I would be completed in the Summer of 2024, the City would contract engineering services and construction of the trail.

Phase II involves obtaining easements from the Lake Meadows HOA, and Phase III would connect the trail to Eagle Heights Elementary School, which would provide a safe route to school. Phase II and Phase III would be new construction as trails do not currently exist in those areas. The City has identified trail connectivity in its Comprehensive Plan, which allows the City to prioritize funding for new trail systems in the Capital Improvement Plan (CIP). The Parks & Stormwater Sales Tax would provide revenue to fund Phase II and Phase III of the OK Railroad Trail. It is anticipated that the entire project will be completed in the next five to ten years. The City would contract engineering services and construction for Phase II and Phase III.

The OK Railroad Trail would allow for greater access to these new amenities in the area. Residents would be able to visit the park without having to drive their vehicles, and the community would have an additional multi-use trail in the City. Additionally, this trail would provide ADA accessibility to the current and future OK Railroad Park amenities. OK Railroad Park would serve as a trailhead that provides ADA parking to the trail. Currently, there is not an accessible entrance to the trail in the area. These improvements will greatly improve access to the trail, allowing more residents and visitors to use the trail.

This project was submitted to receive a grant from MARC (\$181,000).

Justification:

Trails and recreation have been identified as a priority of the Governing Body and the community's vision for the future of Smithville, as highlighted in the Parks and Recreation Master Plan. The OK Railroad Trail is recognized in the Parks and Recreation Master Plan, and in the Transportation Master Plan.

Impact on Operating Costs

The improvements to OK Railroad Trail will decrease some of the ongoing cost required to maintain the current millings trail. It is expected that the number of visitors will increase therefore additional staffing expenses will be necessary. This is to ensure trash containers remain empty and safety inspections are completed more frequently. There will also be maintenance cost for snow removal and to replace concrete slabs as they crack.

Planned Expenditures

Phase	FY 2024	Total
Construction	\$281,000	\$281,000
Total	\$281,000	\$281,000

Funding Sources

Source	FY 2024	Total
Park & Stormwater Sales Tax	\$100,000	\$100,000
MARC Grant Reimbursement	\$181,000	\$181,000
Total	\$281,000	\$281,000

Updated: August 21, 2023

Park & Stormwater Sales Tax Fund – Capital Improvement Projects

Project Name: Emerald Ridge Neighborhood Park & Signage	Department: Parks & Recreation
Type of Project: Rehabilitation / Replacement	Contact: Matt Denton
Total Project Cost: \$450,000	

Description:

In FY2024, the Parks and Recreation Department plans to update/redesign Emerald Ridge Neighborhood Park. The park currently has a playground that was built in 2003, with no dedicated pedestrian walking pathway to the playground from the sidewalk, making the park non-ADA accessible. The playground equipment is aging and is not passing playground safety inspections. During the redesign, the Parks & Recreation Department intends to provide walking access from the sidewalk into the park, update the playground equipment/surfacing, and add a sitting area and a basketball court.

Staff applied for a Land and Water Conservation Fund (LWCF) Grant through the Missouri Department of Conservation to help fund the project, but grant funding was not allocated for the project. Staff have decided to proceed with the project and fund expenses via sales tax revenues in the Park & Stormwater Sales Tax Fund.

Justification:

This project was identified in the Parks and Recreation Master Plan during the short-term implementation timeline.

Planned Expenditures

Phase	FY 2023
Construction	\$450,000

Funding Sources

Source	FY 2023
Park & Stormwater Sales Tax	\$450,000

Impact on Operating Costs

Once the playground is updated, staff are expecting the number of visitors to increase, which will require further staffing expenses. This includes responsibilities such as ensuring trash containers are emptied and safety inspections are completed.

Updated: August 21, 2023

Capital Improvement Projects 2024-2028

Project Name: Riverwalk Park & Trail - Phase I	Department: Parks & Recreation
Type of Project: Improvement and Rehabilitation	Contact: Matt Denton
Estimated Project Cost: \$2,050,000	

Description:

The Riverwalk Park & Trail will strengthen the overall trail network for runners, bikers, walkers, and wheelers. Riverwalk supports the community identity through active, prominent trail networks. This project will promote recreation and exercise opportunities close to home and within neighborhoods. This will expand the transportation system beyond street networks, enhancing active transportation options. The Riverwalk Park intends to create a linked system of parks, trails, and natural areas.



Justification:

The Riverwalk Park & Trail was identified as part of the Parks & Recreation Master Plan. In 2022, the City of Smithville applied for a MARC Grant and was successfully awarded the grant for the construction of the Riverwalk Park Phase I.

The Riverwalk Park & Trail represents a great opportunity for Smithville, local businesses, and the economy. This will encourage people to lengthen their visits in the downtown area. As customers extend their time downtown, the opportunities for businesses to generate additional revenue increases. In addition, the Riverwalk will connect multiple existing trails and allow residents and visitors to travel using different modes of transportation other than riding their cars.

Estimated Expenditures

Phase	FY2024	FY2025	FY2026	Total
Engineering	\$250,000	-	-	\$250,000
Construction	-	\$1,130,000	\$670,000	\$1,800,000
Total	\$250,000	\$1,130,000	\$670,000	\$2,050,000

Funding Sources

Source	FY2024	FY2025	FY2026	Total
Parks & Stormwater Sales Tax	-	\$450,000	-	\$450,000
Capital Improvement Sales Tax	\$250,000	\$480,000	\$670,000	\$1,400,000
General Fund	-	\$200,000	-	\$200,000
MARC Grant Reimbursement	-	\$480,000	\$420,000	\$900,000
Total	\$250,000	\$1,130,000	\$670,000	\$2,050,000

Impact on Operating Costs

This project will have an impact on operations costs. It is expected that the number of visitors will increase therefore additional Park Maintenance staffing will be necessary. This is to ensure the area and the fields remain in well-kept and clean condition.

Updated: March 23, 2023

Capital Improvement Projects 2023-2027

Project Name: Smith's Fork Park Complex (FY2027 & FY2028)	Department: Parks & Recreation
Type of Project: Improvement and Rehabilitation	Contact: Matt Denton
Estimated Project Cost: \$2,880,000	

Description:

As part of the Parks and Recreation Master Plan, Smith's Fork Park was identified as a comprehensive recreational asset and Heritage Park was seen as an extension of Downtown Smithville for community and social events. To make this vision a reality, the ballfields at Heritage Park would need to be relocated to Smith's Fork Park (*please see the map below*). This would make Smith's Fork Park a destination recreation area and allow Heritage Park to be an extension of downtown.

The Smith's Fork Park 4-plex ball field design would create a more effective use of the property and put all ball fields together in one space. This project is planned to be funded by the Parks and Stormwater Sales Tax and potential Land Water Conservation Fund grants. Staff has been working with the City's Finance Department to save up \$300,000 year over year to fund the project.

Justification:

The map below shows the relocation of the 4-plex ball fields at Smith's Fork Park.



Estimated Expenditures

Phase	FY2027	FY2028
Engineering	\$640,000	-
Construction	-	\$2,240,000
Total	\$640,000	\$2,240,000

Funding Sources

Source	FY2027	FY2028
Parks & Stormwater Sales Tax	\$640,000	\$1,740,000
Grant Reimbursement	-	\$500,000
Total	\$640,000	\$2,240,000

Impact on Operating Costs

Updated: March 23, 2023

Capital Improvement Projects 2024 - 2028

Project Name: Annual Stormwater Program	Department: Public Works
Type of Project: Improvement	Contact: Charles Soules
Total Project Cost: \$1,175,000	

Description:

With the development of a Stormwater Master Plan (SMP) to outline, identify, and assist in prioritizing future stormwater needs in the City of Smithville, staff has allocated funds in the Park & Stormwater Sales Tax Fund to pay for stormwater related projects. The 5 Year CIP features an average of \$235,000 annual allocation for stormwater infrastructure projects from FY2024 through FY2028.

Justification:

The Stormwater Needs Assessment has identified critical projects that require attention in the coming years. These projects are crucial for addressing capacity issues and mitigating the risk of flooding.

Impact on Operating Costs:

The annual stormwater program will add costs to future CIP Documents since it is an ongoing program. The City can anticipate reduced maintenance costs due to improved stormwater infrastructure.

Planned Expenditures

Phase	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Annual Stormwater Program	\$200,000	\$200,000	\$350,000	\$125,000	\$300,000

Funding Sources

Fund	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Park & Stormwater Sales Tax	\$200,000	\$200,000	\$350,000	\$125,000	\$300,000

Updated: June 14, 2023

Park & Stormwater Sales Tax Fund – Capital Improvement Projects

Project Name: Stonebridge Stormwater Improvements	Department: Public Works (Streets)
Type of Project: New Improvements	Contact: Chuck Soules
Total Project Cost: \$200,000	

Description:

Established in 1994, the Stonebridge subdivision is located near Smithville High School and includes 12 single-family residential units surrounding a retention pond owned by the subdivision. In August 2017, significant rainfall resulted in severe flooding of the 12 homes, which resulted in property and vehicle damage. Participants who attended stormwater master planning sessions who lived in Stonebridge at this time noted that some homes had up to 3 feet of standing water in their garages. This area was identified by City staff as well as residents and should be evaluated to reduce the flooding issues in the neighborhood.

Justification:

City staff believe that the overflow pipe may have been set at the wrong elevation. After a dam collapse, the outfall was upsized to three 30" stormwater pipes, but the water still overtops the emergency spillway during high intensity rainfall events (such as 2.5" of water in 30 minutes or 7" in 24 hours). The overflow basin is not functioning properly.

Impact on Operating Costs

Permanently correcting these issues will result in less maintenance costs as the City would no longer need to contract out large scale maintenance and repairs following major rainfall events.

Planned Expenditures

Development Phase	FY 2024	Total
Engineering	\$50,000	\$50,000
Construction	\$150,000	\$150,000
Total	\$200,000	\$200,000

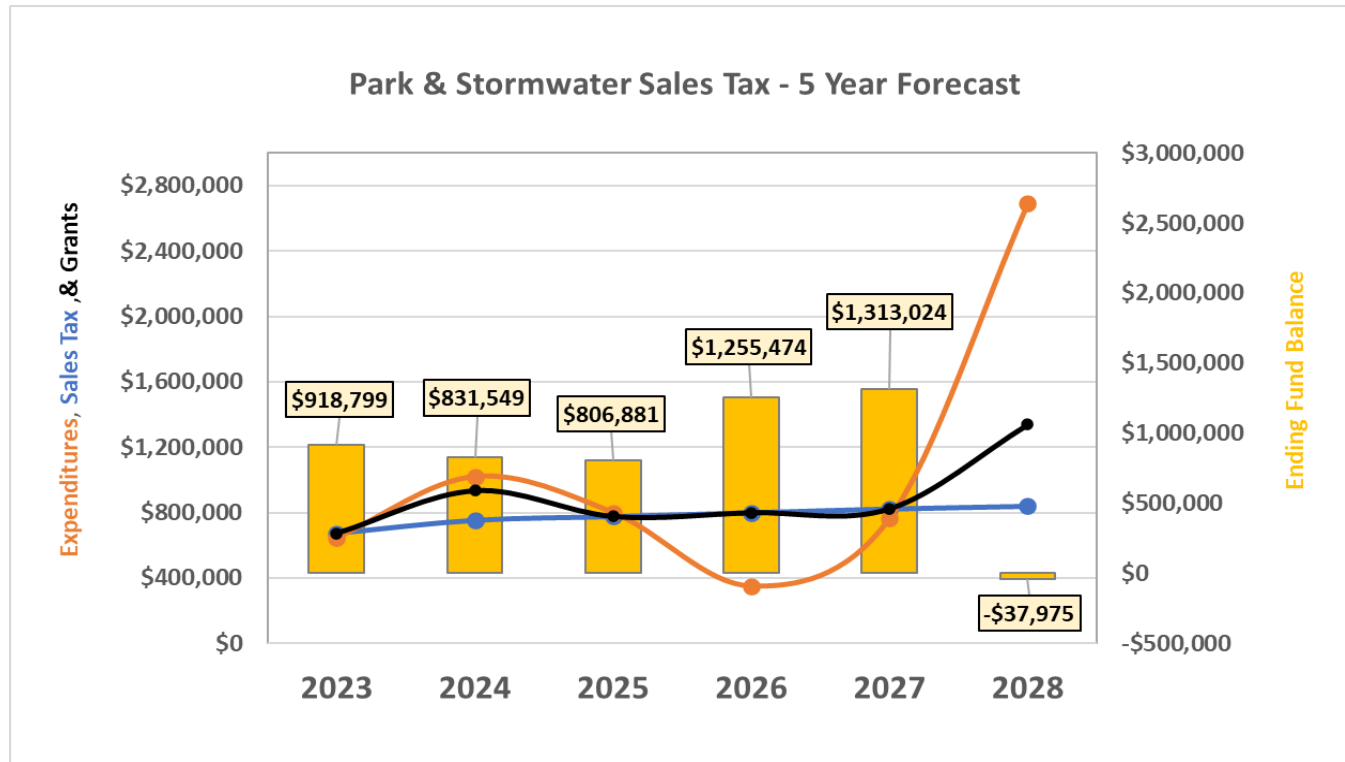


Funding Sources

Source	FY 2024	Total
Park & Stormwater Sales Tax	\$200,000	\$200,000
Total	\$200,000	\$200,000

Updated: August 21, 2023

Five Year Cash Flow Analysis - Park and Stormwater Sales Tax Fund



Five Year CIP Total

\$5,295,000

Pending Projects Outside Five Year CIP - Park & Stormwater Sales Tax Fund

Pending Projects	Dept Name	Cost Estimate
Smith's Fork Park (4 Plex Baseball, Site Development)*	Parks & Recreation	\$3,250,000
Hawthorne Court Park (Public Art and Landscaping)*	Parks & Recreation	\$110,000
Heritage Park (Major Improvements/Site Development)*	Parks & Recreation	\$4,560,000
Helvey Park Loop Trail*	Parks & Recreation	\$220,000
Wildflower Neighborhood Park*	Parks & Recreation	\$330,000
Smith's Fork Park (Destination Development)*	Parks & Recreation	\$5,240,000
Maple Lane ----- Curbs & Stormwater (Engineering)	Public Works	\$15,000
Maple Lane ----- Curbs & Stormwater (Construction)	Public Works	\$175,000
North Bridge Street ----- Curbs & Stormwater (Engineering)	Public Works	\$40,000
North Bridge Street ----- Curbs & Stormwater (Construction)	Public Works	\$200,000
South Bridge Street ----- Curbs & Stormwater (Engineering)	Public Works	\$24,000
South Bridge Street ----- Curbs & Stormwater (Construction)	Public Works	\$120,000
South Mill Street ----- Curbs & Stormwater (Engineering)	Public Works	\$5,000
South Mill Street ----- Curbs & Stormwater (Construction)	Public Works	\$25,000
Grand Total Pending Projects		\$14,314,000

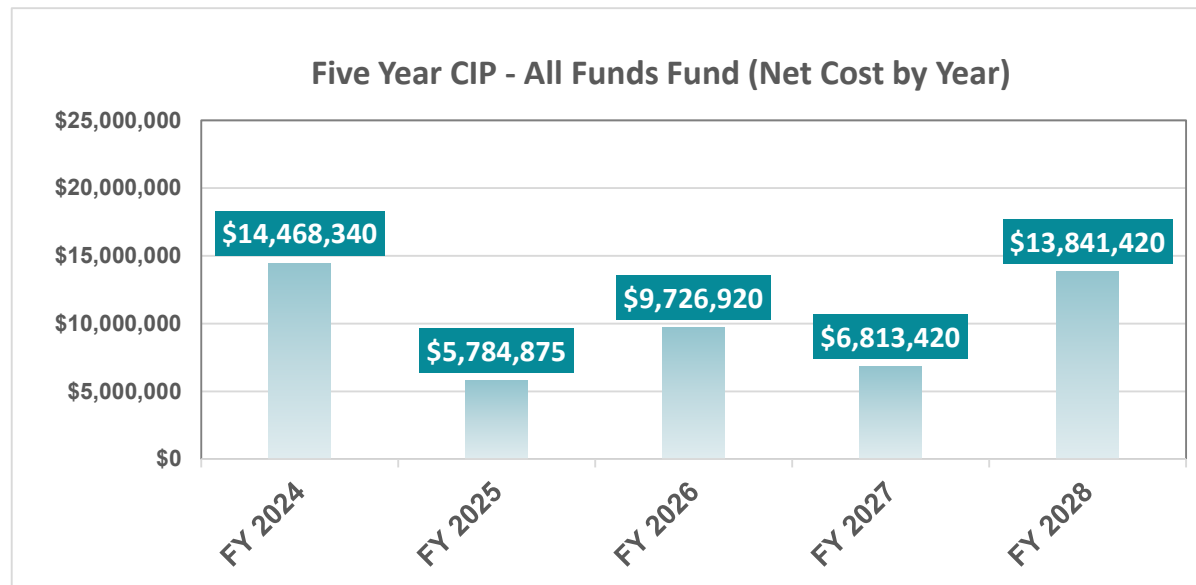
*Proposed project from the Parks and Recreation Master Plan

Five Year Capital Improvement Plan - Capital Projects Fund

Capital Improvement Project Name	Dept Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
No Projects	None		-	-	-	-
Grand Total		-	-	-	-	-

All Funds - Five Year Capital Improvement Project Summary

Fund Name	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
General Fund	\$630,000	\$700,000	\$100,000	\$100,000	\$100,000
Combined Water/Wastewater Fund - Non Impact Fee Projects	\$8,900,000	\$3,600,000	\$7,600,000	\$5,000,000	\$9,500,000
Combined Water/Wastewater Fund - Water Impact Fee Projects	\$700,000	-	-	-	-
Combined Water/Wastewater Fund - Wastewater Impact Fee Projects	\$1,050,000	-	-	-	-
Transportation Sales Tax Fund	\$930,000	\$225,000	\$759,000	\$325,000	\$625,000
Capital Improvement Sales Tax Fund	\$1,418,340	\$459,875	\$917,920	\$623,420	\$1,076,420
Parks and Stormwater Sales Tax Fund	\$840,000	\$800,000	\$350,000	\$765,000	\$2,540,000
Capital Projects Fund	-	-	-	-	-
Grand Total	\$14,468,340	\$5,784,875	\$9,726,920	\$6,813,420	\$13,841,420



Grand Five Year CIP Total

\$50,634,975