

City of Smithville Adopted FY2023 - FY2027 5 Year Capital Improvement Plan



Plan Prepared by City of Smithville Finance and Administration Departments

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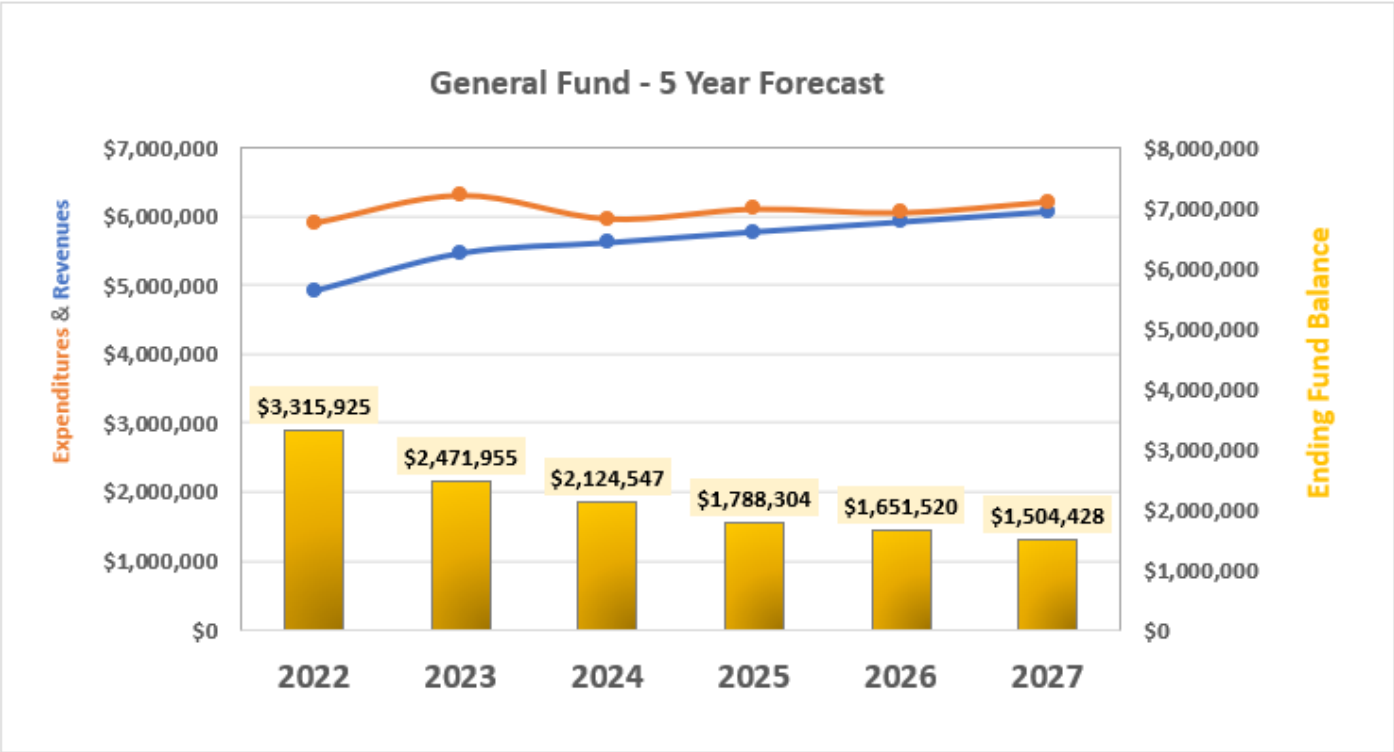
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5 Year Capital Improvement Plan - General Fund

| Capital Improvement Projects | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|------------------------|------------------|------------------|------------------|----------|----------|
| Quincy Boulevard Sidewalks (Construction) | Public Works - Streets | \$200,000 | - | - | - | - |
| Renovation - Portion of Litton Visitor Center (Parks/PW) | Public Works - Streets | \$200,000 | - | - | - | - |
| Annual Asphalt Overlay Program (Construction) | Public Works - Streets | \$100,000 | \$100,000 | \$100,000 | - | - |
| Sidewalk Replacement (Construction) | Public Works - Streets | - | \$50,000 | \$50,000 | - | - |
| Grand Total | | \$500,000 | \$150,000 | \$150,000 | - | - |

| Project Totals By City Department | | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|-----------------------------------|--|------------------|------------------|------------------|----------|----------|
| Administration | | - | - | - | - | - |
| Parks & Recreation | | - | - | - | - | - |
| Public Works - Streets | | \$500,000 | \$150,000 | \$150,000 | - | - |
| Police | | - | - | - | - | - |
| Grand Total (Net Cost) | | \$500,000 | \$150,000 | \$150,000 | - | - |

5 Year Cash Flow Analysis - General Fund



5 Year CIP Total

\$800,000

Pending Projects Outside 5 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 |
| Grand Total (Net Cost) | | \$25,500,000 |

5 Year Capital Improvement Plan - Combined Water and Wastewater Fund

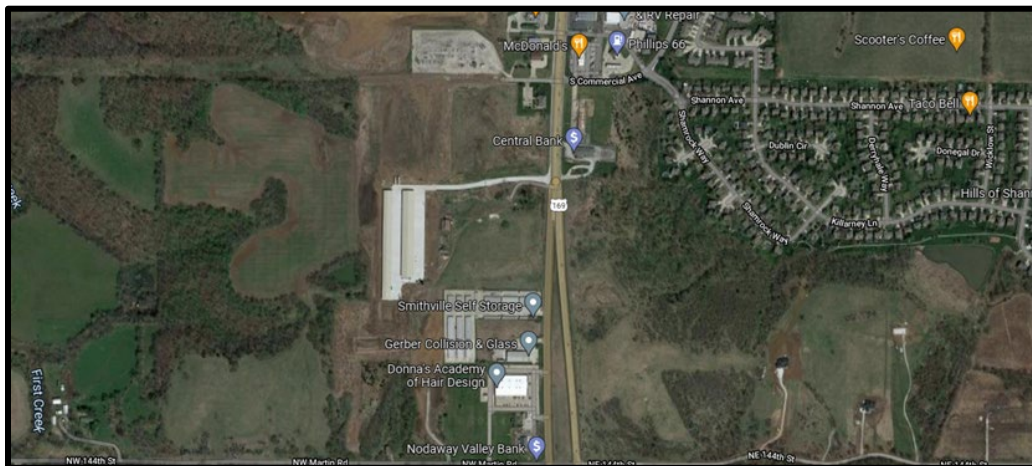
| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY2027 |
|--|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Complete Auth 94 - West Bypass Lift Station (Engineering) | Public Works - Utilities | \$173,750 | - | - | - | - |
| Complete 4th Street/4th Terrace Watermain Imp (Engineering) | Public Works - Utilities | \$80,850 | - | - | - | - |
| Aerobic Digester (Construction) | Public Works - Utilities | \$491,900 | - | - | - | - |
| 144 th Street Lift Station (Construction) | Public Works - Utilities | \$1,700,000 | - | - | - | - |
| West Bypass 144 th Lift Station (Construction) | Public Works - Utilities | \$2,200,000 | - | - | - | - |
| 8" Waterline - Tower to Major Mall (Construction) | Public Works - Utilities | \$125,000 | - | - | - | - |
| Wastewater Plant - Bar Screen (Engineering) | Public Works - Utilities | \$250,000 | - | - | - | - |
| Quincy Waterline - Hawthorne/Quincy to Pine (Engineering) | Public Works - Utilities | \$150,000 | - | - | - | - |
| Quincy Waterline - Hawthorne/Quincy to Pine (Construction) | Public Works - Utilities | \$500,000 | - | - | - | - |
| 4 th Street and 4 th Terrace (Construction) | Public Works - Utilities | \$575,000 | - | - | - | - |
| Winner Avenue - Waterline Replacement (Engineering) | Public Works - Utilities | \$150,000 | - | - | - | - |
| Winner Avenue - Waterline Replacement (Construction) | Public Works - Utilities | \$500,000 | - | - | - | - |
| Water Plant Improvements (Engineering and Construction) | Public Works - Utilities | \$1,000,000 | - | - | - | - |
| Wastewater Plant - Bar Screen (Construction) | Public Works - Utilities | - | \$900,000 | - | - | - |
| Interconnect Mains at 144 th /169 Highway (Construction) | Public Works - Utilities | - | \$55,000 | - | - | - |
| Maple Lane (12" Waterline) (Engineering) | Public Works - Utilities | - | \$125,000 | - | - | - |
| Highway 92 & Commercial Waterline (Engineering) | Public Works - Utilities | - | \$125,000 | - | - | - |
| Owens Branch Gravity Line Phase #1, Line #1 (Construction) | Public Works - Utilities | - | \$2,200,000 | - | - | - |
| Wastewater Treatment Plant Expansion (40%) (Engineering) | Public Works - Utilities | - | \$400,000 | - | - | - |
| Maple Lane (12" Waterline) (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 | - | - |
| Additional Water and Wastewater Project Funding | Public Works - Utilities | - | - | \$2,000,000 | - | - |
| 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 | - |
| Additional Water and Wastewater Project Funding | Public Works - Utilities | - | - | - | \$2,000,000 | - |
| Wastewater Treatment Plant Expansion (Construction) | Public Works - Utilities | - | - | - | - | \$5,000,000 |
| Additional Water and Wastewater Project Funding | Public Works - Utilities | - | - | - | - | \$2,000,000 |
| Grand Total (Net Cost) | | \$7,896,500 | \$3,805,000 | \$3,400,000 | \$6,600,000 | \$7,000,000 |

Capital Improvement Project 2023 - 2027

| | |
|---|--|
| Project Name: West Bypass of 144th Lift Station | Department: Public Works - Utilities |
| Type of Project: Capacity | Contact: Bob Lemley |
| 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

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

Funding Sources

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

Actual Expenditures (To Date)

| Phase | FY 2022 | FY 2023 | Total |
|--------------|------------------|----------|------------------|
| Engineering | \$346,050 | - | \$346,050 |
| Construction | - | - | - |
| Total | \$346,050 | - | \$346,050 |

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|---|---|
| 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, 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 service to possible future developments.

The construction will include a new lift station, pumps, and a SCADA 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 2023 |
|--------------|-------------|
| Construction | \$1,700,000 |
| Total | \$1,700,000 |

Funding Sources

| Source | FY 2023 |
|----------------------|-------------|
| CWWS (COP Financing) | \$1,700,000 |
| Total | \$1,700,000 |

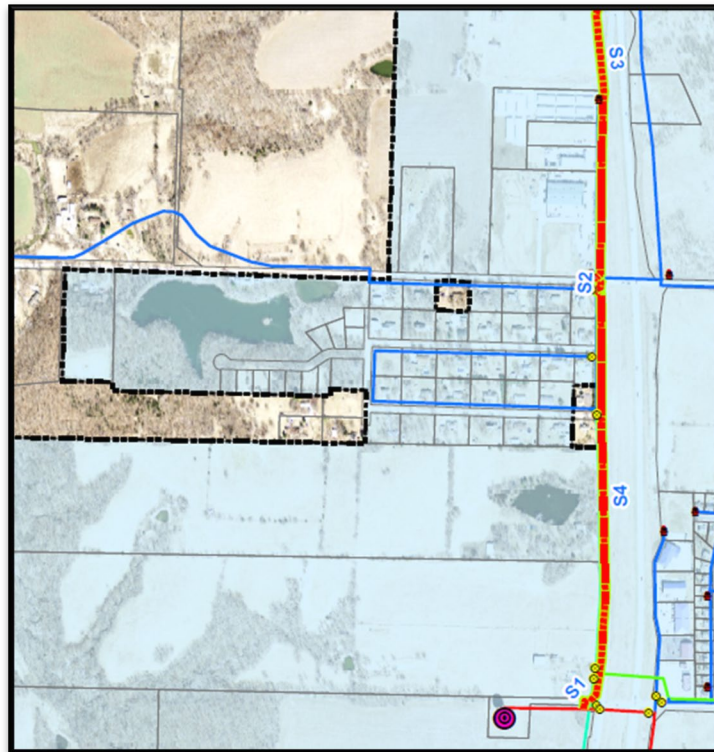
Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Tower to Major Mall (8" Water Line) | Department: Public Works - Utilities |
| Type of Project: Reliability | Contact: Bob Lemley |
| Total Project Cost: \$125,000 | |

Description:

This project will install a brand new 8" water main from the southwest water tower (Amory Rd) to Major Mall (on 144th Street).



Justification:

The project will provide an upgraded water main along Highway 169. This installation will improve service for customers in this area and will loop in the system servicing the Barton Heights subdivision. This project has been identified in the Water Master Plan.

Impact on Operating Costs

This will be a new water line, which will result in additional maintenance costs.

Planned Expenditures

| Phase | FY 2023 |
|---------------------|------------------|
| Engineering | \$25,000 |
| Construction | \$100,000 |
| Total | \$125,000 |

Funding Sources

| Source | FY 2023 |
|------------------|------------------|
| CWWS Fund | \$125,000 |
| Total | \$125,000 |

Updated: August 16, 2022

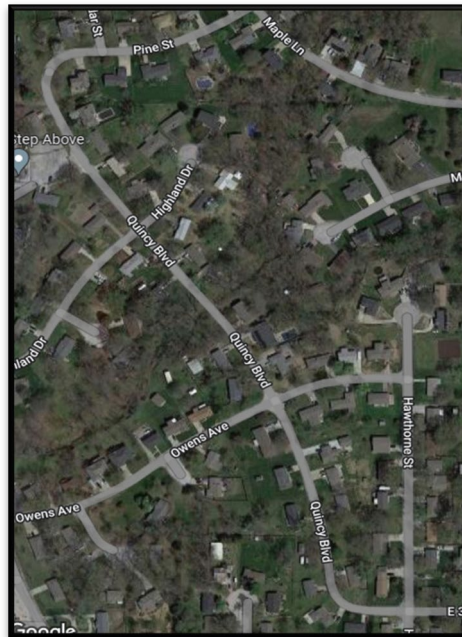
Capital Improvement Projects 2023- 2027

| | |
|---|------------------------------------|
| Project Name: Quincy Boulevard Improvements | Department: Public Works |
| Type of Project: Rehabilitation & Improvement | Contact: Chuck Soules |
| Total Project Cost: \$1,350,000 | |

Description:

The project will replace the aging water main and provide a loop to the system. The existing water line is a 4" line in some areas and a 6" line in other areas. Public Works will be replacing all the water lines with 8" PVC piping.

In addition to these waterline improvements, Public Works will mill and overlay Quincy Boulevard. Sidewalks will also be added to the side of Quincy Boulevard. Currently, there are not sidewalks in this area. To improve the drainage in the area, there will be new curb and gutter installed as well as new storm sewers which will improve stormwater runoff and control.



Justification:

The drainage is poor in and around Quincy Boulevard which results in the street holding water in many areas. In addition, these areas are failing and need to be repaired. Storm sewer rehabilitation will help with the existing drainage issues and prevent future damage to the repaired street. Newly installed curb and gutters will improve stormwater drainage to the storm sewer which will alleviate flooding and stormwater control problems caused by the street holding too much water. Also, the water main has incurred several breaks and has aged over time. To improve

service, the water main will need to be replaced and due to the water main improvements, the road will also need to be replaced. Sidewalks do not exist in this area and adding sidewalks will improve walkability in the area.

Impact on Operating Costs:

The project will improve maintenance costs for the road, stormwater infrastructure, and water line. There will be future costs for sidewalk maintenance since there are not currently any sidewalks in this area.

Planned Expenditures

| Phase | FY 2022 | FY 2023 |
|----------------------------------|-----------------|--------------------|
| Engineering | \$60,000 | \$150,000 |
| Quincy Boulevard Mill & Overlay | - | \$100,000 |
| Quincy Blvd/Owen Reconstruction | - | \$150,000 |
| Quincy Boulevard Sidewalks | - | \$200,000 |
| Quincy Blvd Stormwater Additions | - | \$250,000 |
| Quincy Waterline Replacement | - | \$500,000 |
| Total | \$60,000 | \$1,350,000 |

Funding Sources

| Source | FY 2022 | FY 2023 |
|------------------------------------|-----------------|--------------------|
| Transportation Sales Tax Fund | \$60,000 | \$100,000 |
| Capital Improvement Sales Tax Fund | - | \$150,000 |
| General Fund | - | \$200,000 |
| CWWS Fund | - | \$650,000 |
| Parks & Stormwater Sales Tax Fund | - | \$250,000 |
| Total | \$60,000 | \$1,350,000 |

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Winner Avenue – Waterline Replacement | Department: Public Works - Utilities |
| Type of Project: Watermain Replacement | Contact: Bob Lemley |
| Total Project Cost: \$650,000 | |

Description:

This project will replace the aging water main in this area which will improve utility service for customers along Winner Avenue. The water main will be replaced with 8" PVC piping from the south end of Winner Avenue to Woods Street.



Justification:

Numerous main breaks occur due to the old age and condition of the water main which is the primary reason staff are proposing to replace the line.

Impact on Operating Costs

The water main improvements will reduce the maintenance costs resulting from water main breaks.

Planned Expenditures

| Phase | FY 2023 |
|---------------------|------------------|
| Engineering | \$150,000 |
| Construction | \$500,000 |
| Total | \$650,000 |

Funding Sources

| Source | FY 2023 |
|------------------|------------------|
| CWWS Fund | \$650,000 |

Updated: September 28, 2022

Capital Improvement Projects 2023- 2027

| | |
|---|--|
| Project Name: 4 th Street and 4 th Terrace (Construction) | Department: Public Works - Utilities |
| Type of Project: Rehabilitation | Contact: Bob Lemley |
| Total Project Cost: \$560,000 | |

Description:

This project will replace an existing 2" water line with a new 8" water line. This project will include slip lining the sewer main and install a utility access hole for future maintenance of sewer main.



Justification:

This water line is an old 2" cast iron main and the line is partially plugged due to corrosion. The waterline is estimated to have only 1" to 1 ½" capacity. Right now, water pressure and water volume in this area is not acceptable to residents and the hydrant is effectively non-functioning. The sewer main is also failing and is consistently in need of cleaning and rodding due to cracks in the pipe every month. Tree roots and other debris continues to plug up the waterline.

Impact on Operating Costs

The new water line will reduce the maintenance costs in this area by replacing the aging line.

Planned Expenditures

| Phase | FY 2022 | FY 2023 | Total |
|--------------|-----------------|------------------|------------------|
| Engineering | \$60,000 | - | \$60,000 |
| Construction | - | \$500,000 | \$500,000 |
| Total | \$60,000 | \$500,000 | \$560,000 |

Funding Sources

| Source | FY 2022 | FY 2023 | Total |
|-----------|----------|-----------|-----------|
| CWWS Fund | \$60,000 | \$500,000 | \$560,000 |

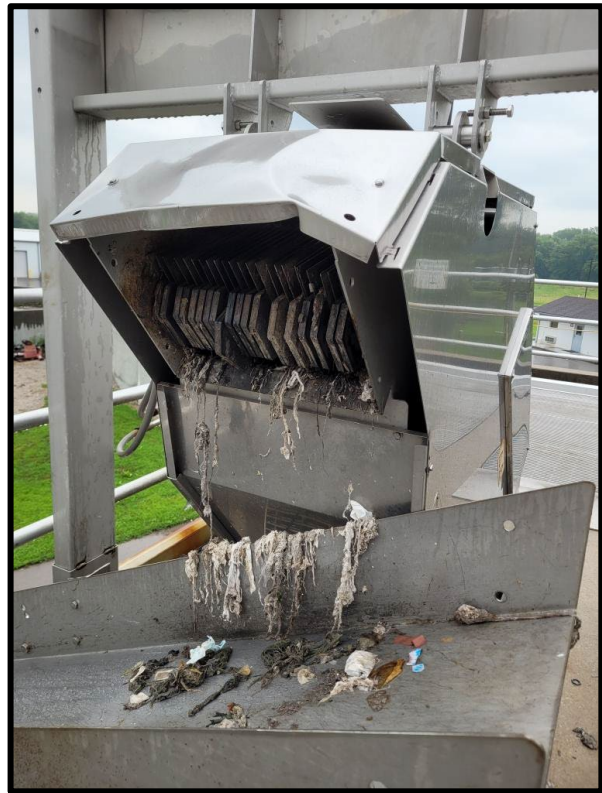
Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Wastewater Plant – Bar Screen | Department: Public Works - Utilities |
| Type of Project: Capacity | Contact: Bob Lemley |
| Total Project Cost: \$1,150,000 | |

Description:

The wastewater treatment plant 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 would reach 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,

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Water Plant Expansion | Department: Public Works - Utilities |
| Type of Project: Capacity | Contact: Bob Lemley |
| Total Project Cost: \$14,100,000 | |

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).



Capital Improvement Projects 2023-2027

| | |
|--|--|
| 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.

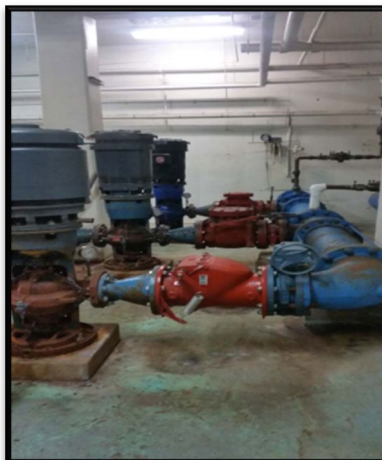
Primary Settling Basin



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 are the start for the future Water Plant expansion.

Planned Expenditures

| Phase | FY 2023 |
|--------------|-------------|
| Engineering | TBD |
| Construction | TBD |
| Total | \$1,000,000 |

Funding Sources

| Fund | FY 2023 |
|-----------|-------------|
| CWWS Fund | \$1,000,000 |
| Total | \$1,000,000 |

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|--|--|
| Project Name: Wastewater Plant Expansion | Department: Public Works - Utilities |
| Type of Project: Capacity | Contact: Bob Lemley |
| Total Project Cost: \$12,000,000 | |

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 FY2028 CIP will include CWWS funding for the remaining amount of the expansion project.

Impact on Operating Costs

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

Planned Expenditures

| Phase | FY 2024 | FY2027 |
|--------------|--------------------|--------------------|
| Engineering | \$1,050,000 | - |
| Construction | - | \$5,000,000 |
| Total | \$1,050,000 | \$5,000,000 |

Funding Sources

| Source | FY 2023 | FY2027 |
|------------------------------------|--------------------|--------------------|
| CWWS Fund (Wastewater Impact Fees) | \$1,050,000 | - |
| CWWS Fund (COP Financing) | - | \$5,000,000 |
| Total | \$1,050,000 | \$5,000,000 |

Updated: August 16, 2022

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

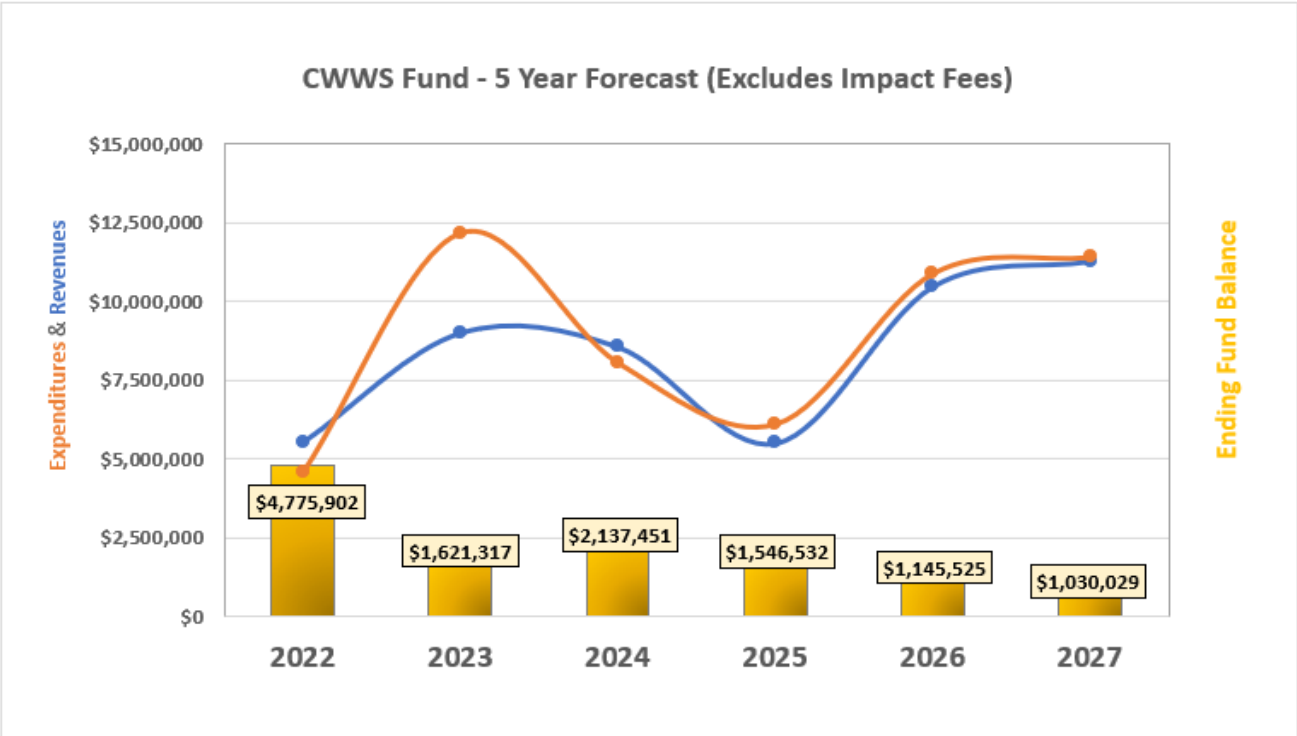
| Phase | FY 2026 | TBD |
|--------------|-------------|--------------|
| Engineering | \$2,100,000 | - |
| Construction | - | \$12,000,000 |
| Total | \$2,100,000 | \$12,000,000 |

Funding Sources

| Source | FY 2026 | TBD |
|---------------------------|-------------|--------------|
| CWWS Fund (COP Financing) | \$2,100,000 | \$12,000,000 |

Updated: August 16, 2022

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



5 Year CIP Total

\$28,701,500



and other waste comes 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 2023 | FY 2024 | Total |
|--------------|-----------|-----------|-------------|
| Engineering | \$250,000 | - | \$250,000 |
| Construction | - | \$900,000 | \$900,000 |
| Total | \$250,000 | \$900,000 | \$1,150,000 |

Funding Sources

| Source | FY 2023 | FY 2024 | Total |
|-----------|-----------|-----------|-------------|
| CWWS Fund | \$250,000 | \$900,000 | \$1,150,000 |

Updated: August 16, 2022

Pending Projects - Outside 5 Year CIP - CWSWS Fund

| Pending Projects | Department | Cost Estimate |
|---|--------------------------|---------------------|
| 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 |
| Wastewater Plant Expansion - Phase #2 (Construction) | Public Works - Utilities | \$5,000,000 |
| Water Plant Expansion (Construction) | Public Works - Utilities | \$12,000,000 |
| 144 th Street to Forest Oaks Gravity Line (Construction) | Public Works - Utilities | \$3,000,000 |
| Grand Total (Net Cost) | | \$25,350,000 |

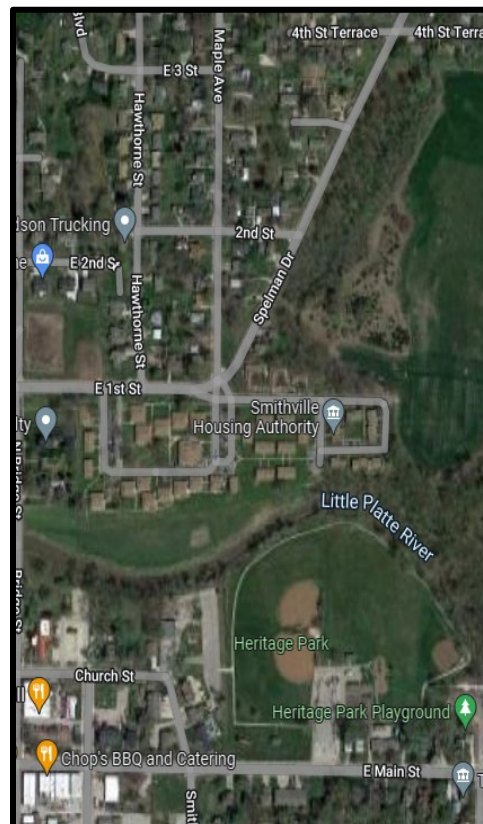
| 5 Year Capital Improvement Plan - Water Impact Projects | | | | | | |
|---|--------------------------|-----------|-----------|---------|---------|---------|
| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
| River Crossing (12" Waterline) (Engineering) | Public Works - Utilities | \$200,000 | - | - | - | - |
| River Crossing (12" Waterline) (Construction) | Public Works - Utilities | - | \$550,000 | - | - | - |
| Grand Total (Net Cost) | | \$200,000 | \$550,000 | - | - | - |

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: River Crossing (12" Water Line) | Department: Public Works - Utilities |
| Type of Project: Capacity | Contact: Bob Lemley |
| Total Project Cost: \$750,000 | |

Description:

The project will install a new 12" water main under the Little Platte River for capacity and reliability. The line 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 through 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

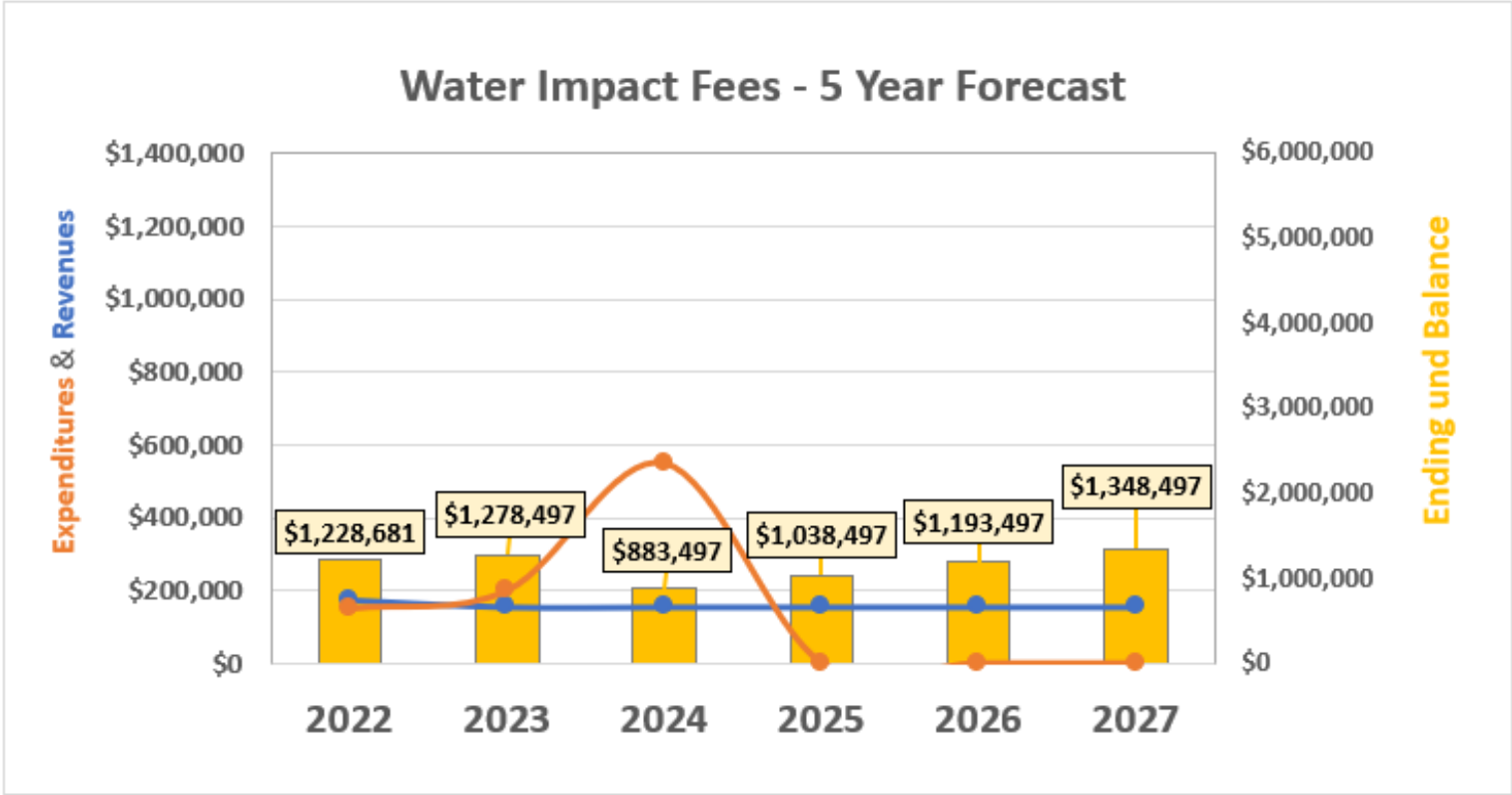
| Phase | FY 2023 | FY 2024 | Total |
|--------------|-----------|-----------|-----------|
| Engineering | \$200,000 | - | \$200,000 |
| Construction | - | \$550,000 | \$550,000 |
| Total | \$200,000 | \$550,000 | \$750,000 |

Funding Sources

| Source | FY 2023 | FY 2024 | Total |
|----------------------------------|-----------|-----------|-----------|
| CWWS Fund (Water Impact Fees) | \$200,000 | \$550,000 | \$750,000 |

Updated: August 16, 2022

5 Year Cash Flow Analysis - Water Impact Projects/Fees



5 Year CIP Total

\$750,000

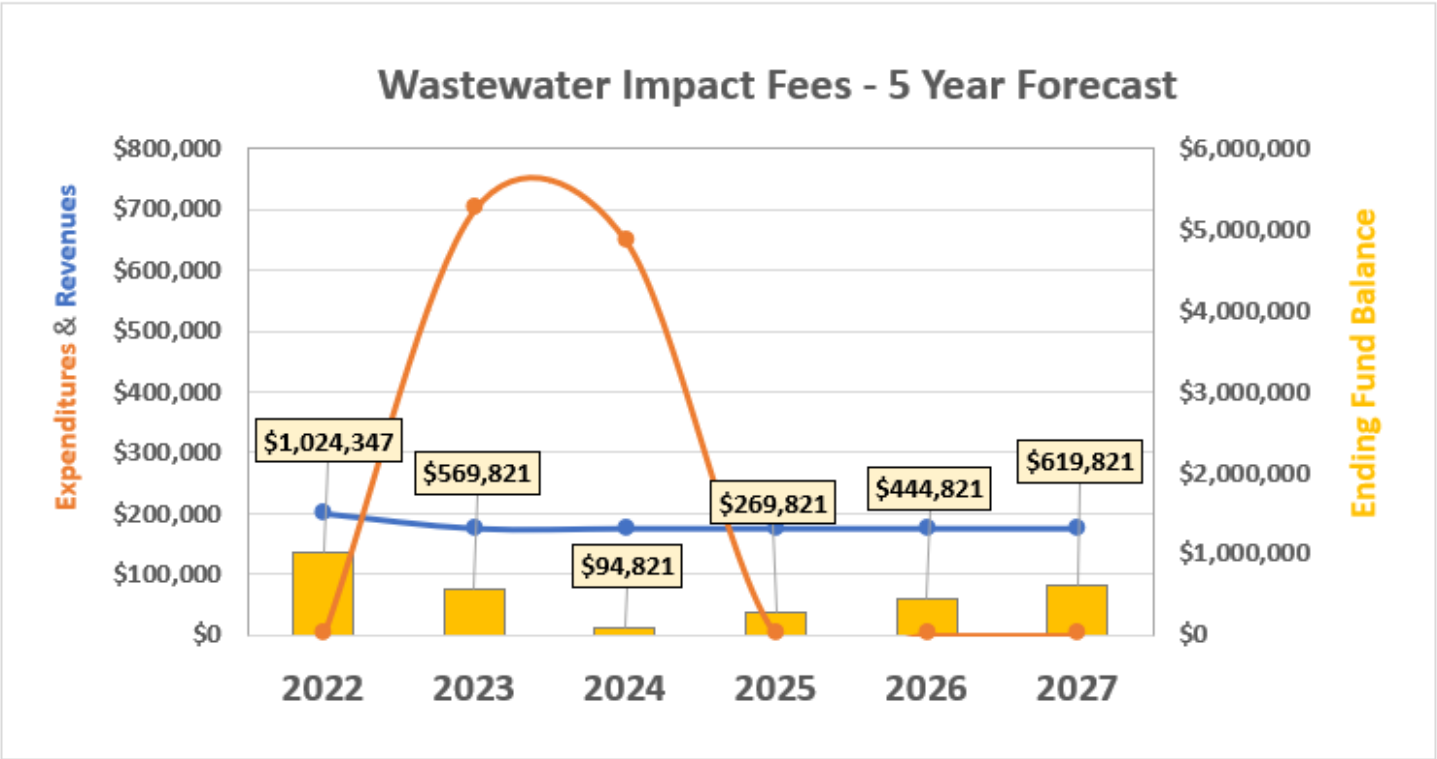
Pending Projects - Outside 5 Year CIP - Water Impact Projects

| Pending Projects | | Department | Cost Estimate | Year Planned |
|------------------|--|------------|---------------|--------------|
| None | | None | - | None |

5 Year Capital Improvement Plan - Wastewater Impact Projects

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|--------------------------|-----------|-----------|---------|---------|---------|
| Owens Branch Gravity Line Phase #1, Line #1 (Engineering) | Public Works - Utilities | \$700,000 | - | - | - | - |
| Wastewater Treatment Plant Expansion (60%) (Engineering) | Public Works - Utilities | - | \$650,000 | - | - | - |
| Grand Total | | \$700,000 | \$650,000 | - | - | - |

5 Year Cash Flow Analysis - Wastewater Impact Projects/Fees



5 Year CIP Total

\$1,350,000

Pending Projects - Outside 5 Year CIP - Wastewater Impact Projects

| Pending Projects | Department | Cost Estimate |
|------------------|------------|---------------|
| None | None | - |

5 Year Capital Improvement Plan - Transportation Sales Tax Fund

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|---|------------------------|------------------|------------------|------------------|------------------|------------------|
| Annual Asphalt Overlay Program (Projects TBD) | Public Works - Streets | \$200,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 |
| Annual Sidewalk Replacement | Public Works - Streets | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 |
| 4 th Street Terr Road Repairs (After Utility Improvements) | Public Works - Streets | \$150,000 | - | - | - | - |
| Commercial Street Sidewalks (Engineering) | Public Works - Streets | \$105,000 | - | - | - | - |
| Quincy Boulevard - Mill and Overlay (Construction) | Public Works - Streets | \$50,000 | - | - | - | - |
| Raised Ped Crosswalk/Flashing Beacon Maple Elem School | Public Works - Streets | \$70,000 | - | - | - | - |
| Raised Ped Crosswalk/Flashing Beacon - 50% Cost Share | Public Works - Streets | (35,000) | - | - | - | - |
| Commercial Street Sidewalks (Construction) | Public Works - Streets | - | \$750,000 | - | - | - |
| Commercial Street Sidewalks (MARC Reimbursement) | Public Works - Streets | - | (500,000) | - | - | - |
| Grand Total (Net Cost) | | \$565,000 | \$575,000 | \$325,000 | \$325,000 | \$325,000 |

Capital Improvement Projects 2023- 2027

| | |
|---|------------------------------------|
| Project Name: Annual Asphalt Overlay Program | Department: Public Works |
| Type of Project: Rehabilitation / Replacement | Contact: Allan Jensen |
| Total Project Cost: \$1,700,000 | |

Description:

The Annual Asphalt Overlay Program allocates funding for road maintenance and repairs. Project selection and prioritization is supplemented by the Pavement Condition Index (PCI). Staff evaluates the city's street system and then assigns a PCI grade to streets according to the degree of deterioration, 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.

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 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 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Total |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|------------------|
| Annual Asphalt Program | \$300,000 | \$400,000 | \$400,000 | \$300,000 | \$300,000 | 1,700,000 |

Funding Sources

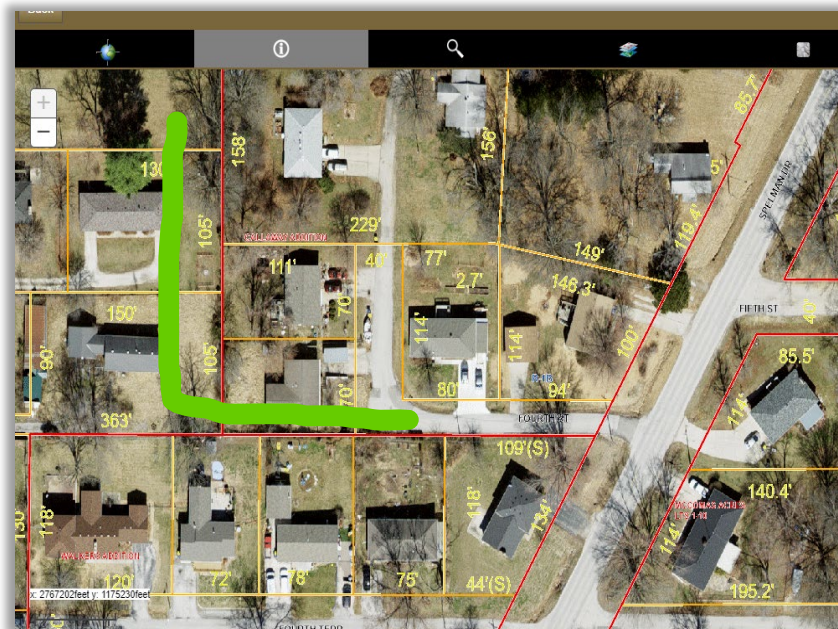
| Source | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Total |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|--------------------|
| Transportation Sales Tax | \$200,000 | \$300,000 | \$300,000 | \$300,000 | \$300,000 | \$1,400,000 |
| General Fund | \$100,000 | \$100,000 | \$100,000 | - | - | \$300,000 |
| Grand Total | \$300,000 | \$400,000 | \$400,000 | \$300,000 | \$300,000 | \$1,700,000 |

Capital Improvement Projects 2023- 2027

| | |
|--|---|
| Project Name: 4th Street Terrace Road Repairs (After Utility Improvements) | Department: Public Works |
| Type of Project: Rehabilitation / Replacement | Contact: Charles Soules |
| Total Project Cost: \$150,000 | |

Description:

After the waterline on 4th Street is replaced, the City will need to reconstruct the road due to the utility construction process. The road is 24' wide, 425' long, and the road will require 6" of asphalt overlay (which is approximately 367 tons in weight). See the aerial map photo below for details on the section (**shown in green**).



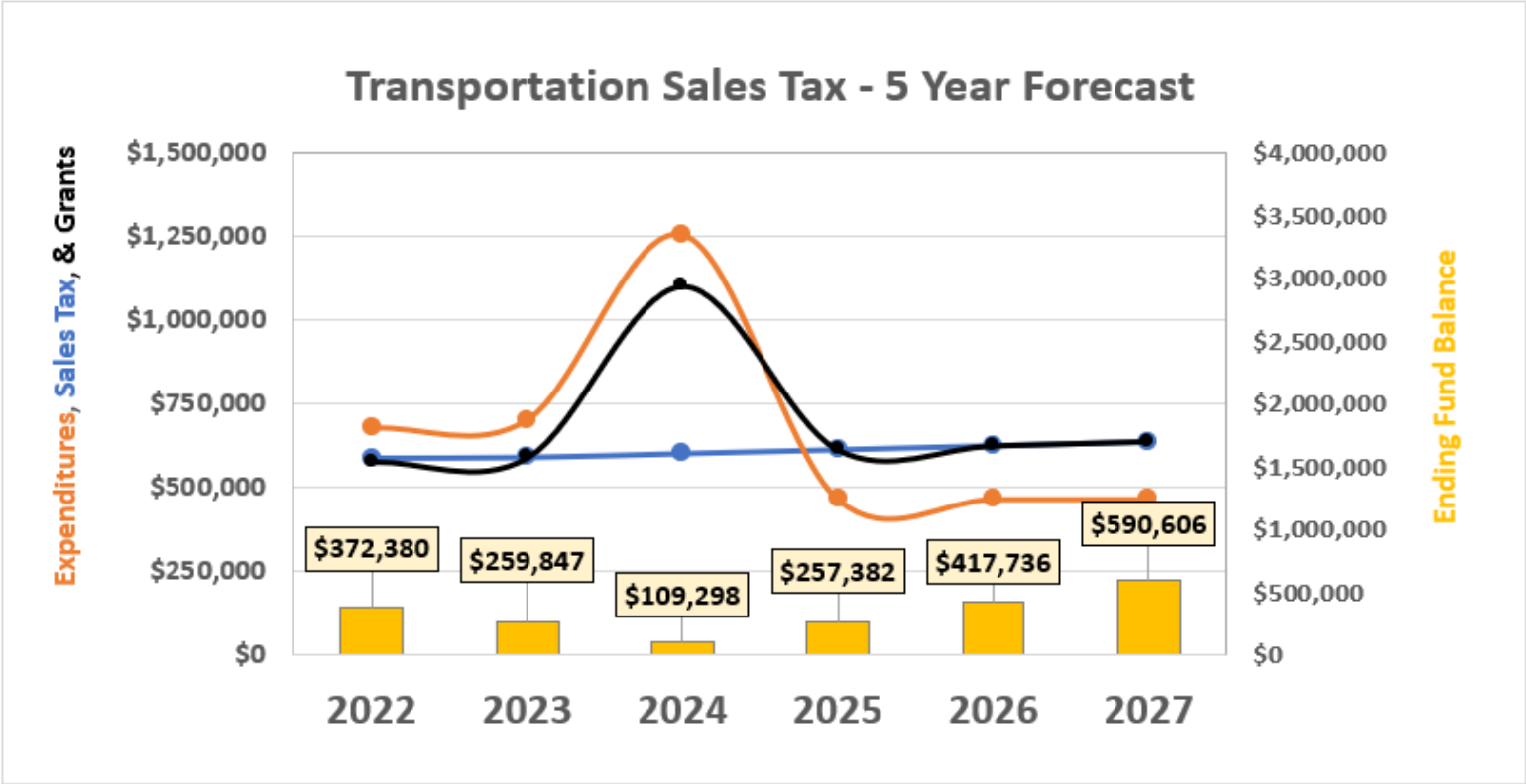
Justification:

Utility improvements will be occurring on 4th Street and new waterlines will be constructed underneath the street. After the utility improvements are completed, the road will need to be reconstructed so residents and visitors can drive on the road again.

Impact on Operating Costs:

This project will reduce future maintenance costs for road repairs. The new road will reduce the potential for cracks and potholes in the area.

5 Year Cash Flow Analysis - Transportation Sales Tax Fund



5 Year CIP Total

\$2,115,000



Pending Projects - Outside 5 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 |

Capital Improvement Projects 2023- 2027

| | |
|---|------------------------------------|
| 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 inspects 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 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Total |
|------------------------|----------|----------|----------|----------|----------|-----------|
| Annual Asphalt Program | \$25,000 | \$75,000 | \$75,000 | \$25,000 | \$25,000 | \$225,000 |

Funding Sources

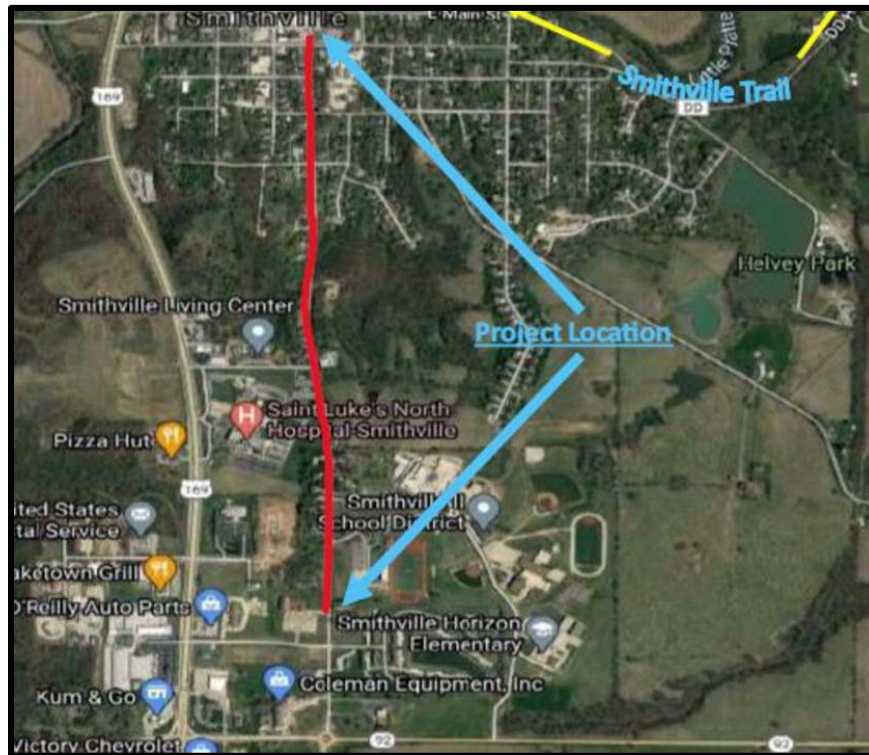
| Source | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 | Total |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| General Fund | - | \$50,000 | \$50,000 | - | - | \$100,000 |
| Transportation Sales Tax | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$25,000 | \$125,000 |
| Total | \$25,000 | \$75,000 | \$75,000 | \$25,000 | \$25,000 | \$225,000 |

Capital Improvement Projects 2023- 2027

| | |
|---|--|
| 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) funding through MoDOT to offset project expense.

Impact on Operating Costs:

The project will be a new sidewalk. There is the potential for future costs for maintenance on the sidewalks, curb and gutter.

Planned Expenditures

| Phase | FY 2023 | FY 2024 |
|--------------|-----------|-----------|
| Engineering | \$150,000 | - |
| Construction | - | \$750,000 |
| Total | \$150,000 | \$750,000 |

Funding Sources

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

Updated: August 16, 2022



Planned Expenditures

| Phase | FY 2023 |
|------------------------|-----------|
| Annual Asphalt Program | \$150,000 |

Funding Sources

| Source | FY 2023 |
|--------------------------|-----------|
| Transportation Sales Tax | \$150,000 |

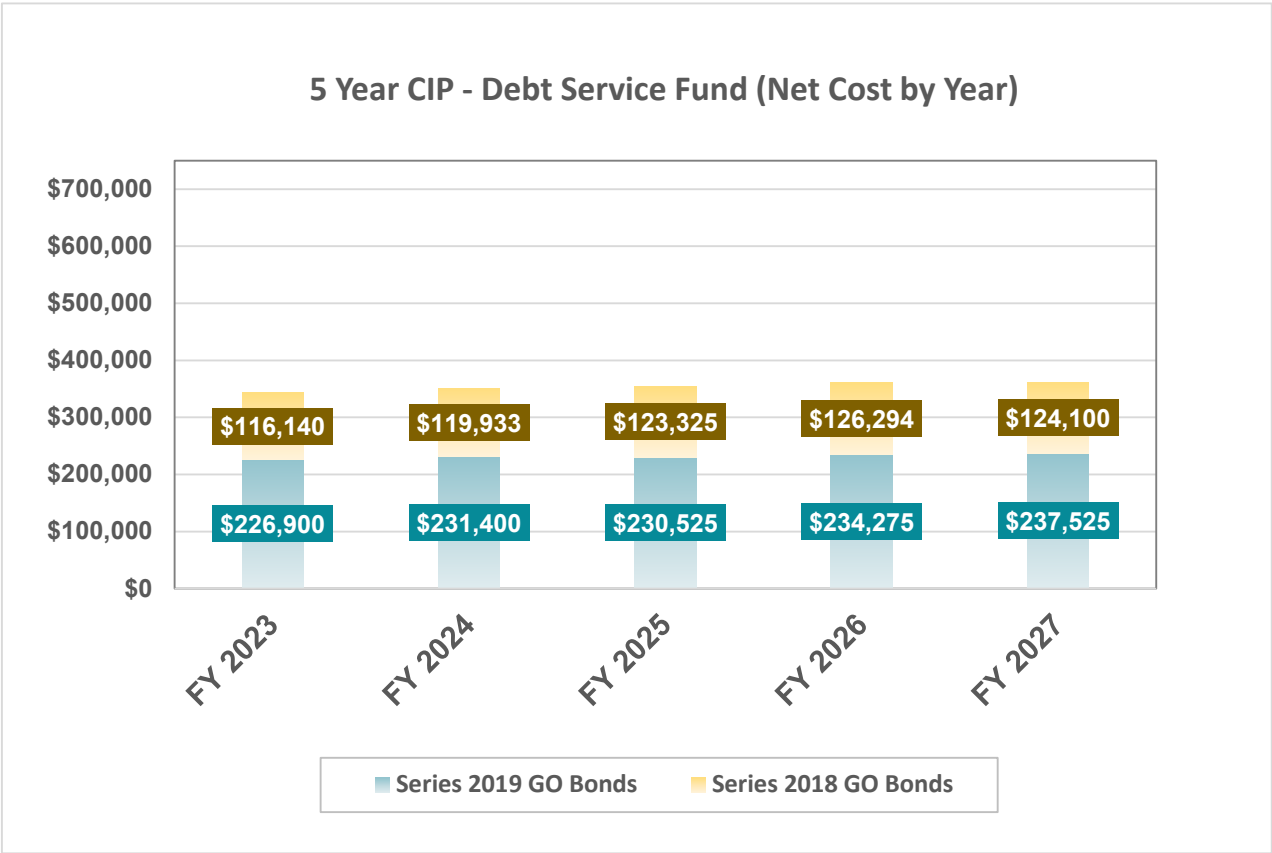
Updated: August 16, 2022

5 Year Capital Improvement Plan - Debt Service Fund

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|----------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Annual Debt Service Payment | Finance | \$343,040 | \$351,333 | \$353,850 | \$360,569 | \$361,625 |

| Debt Service Detail | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Series 2018 (General Obligation 20 Year Bond) | Finance | \$116,140 | \$119,933 | \$123,325 | \$126,294 | \$124,100 |
| Series 2018 ----- Principal (Paid March 1st) | Finance | \$50,000 | \$55,000 | \$60,000 | \$65,000 | \$65,000 |
| Series 2018 ----- Interest (Paid March 1st) | Finance | \$33,358 | \$32,783 | \$32,150 | \$31,175 | \$30,119 |
| Series 2018 ----- Interest (Paid September 1st) | Finance | \$32,783 | \$32,150 | \$31,175 | \$30,119 | \$28,981 |

| Debt Service Detail | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|-----------|-----------|-----------|-----------|-----------|-----------|
| Series 2019 (General Obligation 20 Year Bond) | Finance | \$226,900 | \$231,400 | \$230,525 | \$234,275 | \$237,525 |
| Series 2019 -----Principal (Paid March 1st) | Finance | \$105,000 | \$115,000 | \$120,000 | \$130,000 | \$140,000 |
| Series 2019 ----- Interest (Paid March 1st) | Finance | \$62,263 | \$59,638 | \$56,763 | \$53,763 | \$50,513 |
| Series 2019 ----- Interest (Paid September 1st) | Finance | \$59,638 | \$56,763 | \$53,763 | \$50,513 | \$47,013 |



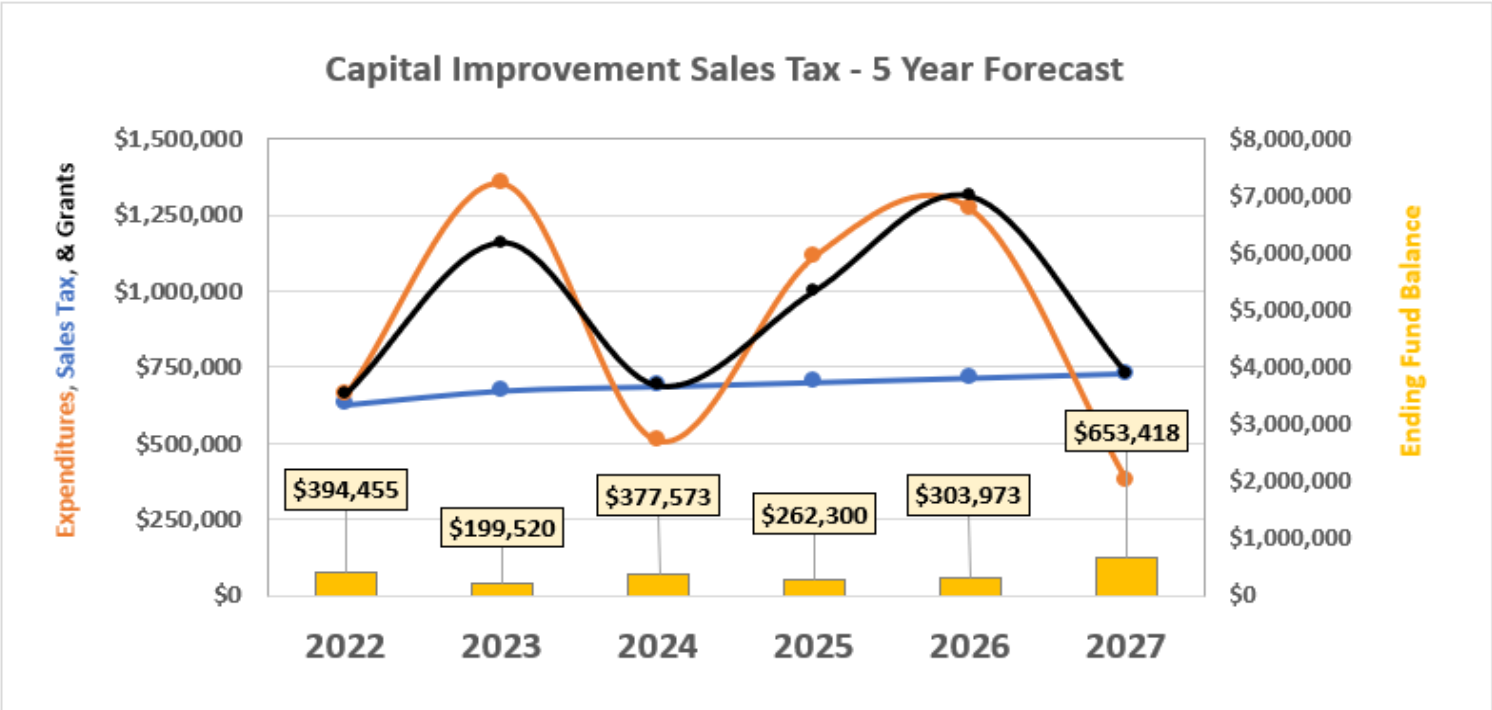
Series 2018 Final Payment Scheduled for March 1st, 2038

Series 2019 Final Payment Scheduled for March 1st, 2038

5 Year Capital Improvement Plan - Capital Improvement Sales Tax

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|------------------------|-----------|-----------|-----------|-----------|-----------|
| Annual Transfer to Debt Service | Public Works - Streets | \$354,845 | \$357,830 | \$364,875 | \$371,920 | \$378,420 |
| Downtown Streetscape North (Bridge Street) (Construction) | Public Works - Streets | \$800,000 | - | - | - | - |
| MARC Reimbursement (Downtown Streetscape) | Public Works - Streets | (488,000) | - | - | - | - |
| Quincy Blvd & Owen Street Reconstruction, Mill, & Overlay | Public Works - Streets | \$200,000 | - | - | - | - |
| 2 nd Creek Sidewalks (Engineering) | Public Works - Streets | - | \$150,000 | - | - | - |
| 2 nd Creek Sidewalks (Construction) | Public Works - Streets | - | - | \$500,000 | - | - |
| 2 nd Creek Sidewalks (MARC Reimburse) | Public Works - Streets | - | - | (300,000) | - | - |
| 1 st & Bridge Street - Round-A-Bout (Engineering) | Public Works - Streets | - | - | \$250,000 | - | - |
| 1 st & Bridge Street - Round-A-Bout (Construction) | Public Works - Streets | - | - | - | \$900,000 | - |
| 1 st & Bridge Street - Round-A-Bout (MARC Reimbursement) | Public Works - Streets | - | - | - | (600,000) | - |
| Grand Total (Net Cost) | | \$866,845 | \$507,830 | \$814,875 | \$671,920 | \$378,420 |

5 Year Cash Flow Analysis - Capital Improvement Sales Tax Fund



5 Year CIP Total

\$3,239,890



Pending Projects - Outside 5 Year CIP - Capital Improvement Sales Tax

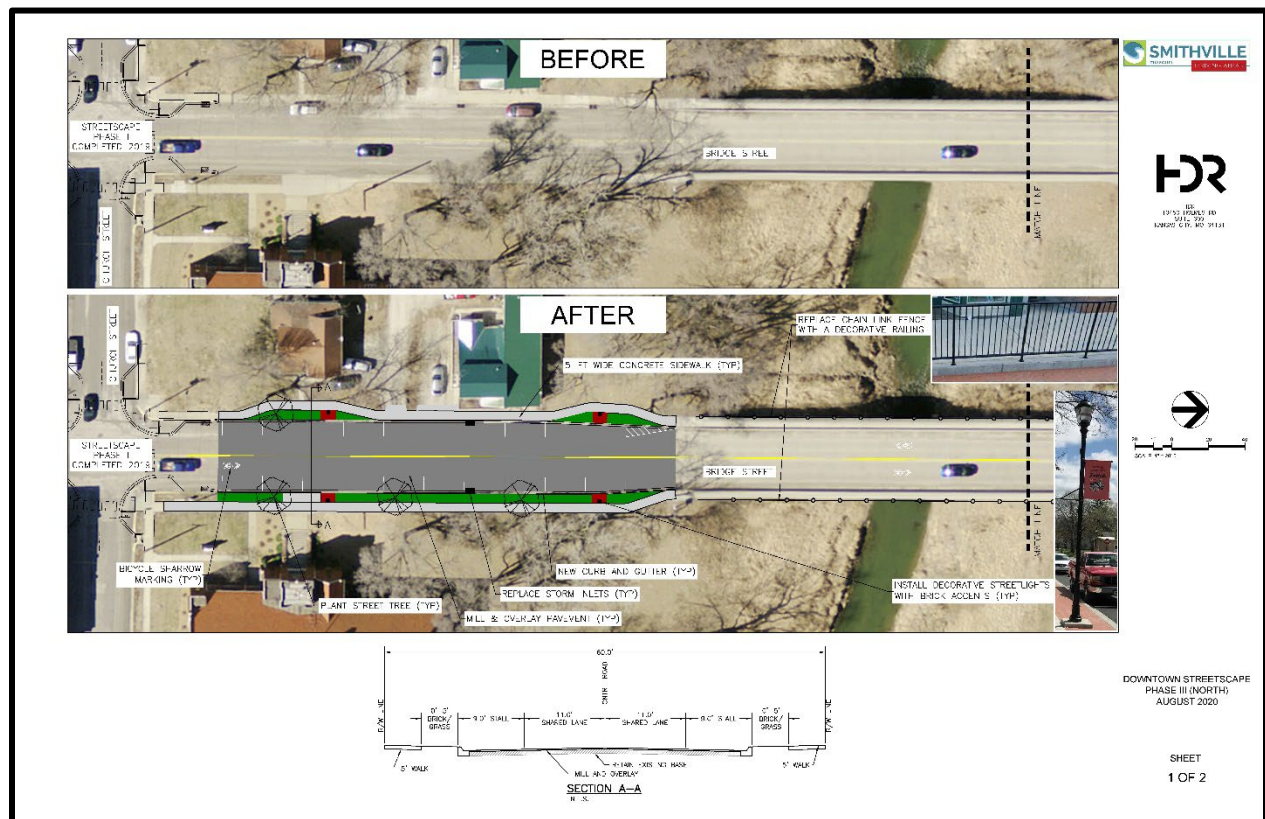
| Pending Projects | Department Name | Cost Estimate |
|---|------------------------|--------------------|
| Downtown Gateway Sign (Engineering) | Public Works - Streets | \$70,000 |
| Downtown Gateway Sign (Construction) | Public Works - Streets | \$200,000 |
| 180 th & Eagle Parkway Round-A-Bout (Engineering) | Public Works - Streets | \$250,000 |
| 180 th & Eagle Parkway Round-A-Bout (Construction) | Public Works - Streets | \$1,000,000 |
| 180 th & Eagle Parkway Round-a-Bout (MARC Reimburse) | Public Works - Streets | (700,000) |
| Pope Lane Round-a-Bout & Connection (Engineering) | Public Works - Streets | \$500,000 |
| Pope Lane Round-a-Bout & Connection (Construction) | Public Works - Streets | \$2,500,000 |
| Pope Lane (172 nd) and Round-a-Bout (MARC Reimburse) | Public Works - Streets | (2,000,000) |
| 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) |
| River Walk Park (Engineering & Construction) | Public Works - Streets | \$4,000,000 |
| River Walk Park (MARC Reimburse) | Public Works - Streets | (3,200,000) |
| Grand Total (Net Cost) | | \$3,170,000 |

Capital Improvement Projects 2023- 2027

| | |
|--|------------------------------------|
| Project Name: Downtown Streetscape North – Phase III (Bridge Street) | Department: Public Works |
| Type of Project: Improvement | Contact: Charles Soules |
| Total Project Cost: \$800,000 | |

Description:

This project will continue the multi-year process of constructing downtown streetscape improvements, including further pedestrian and bicycle improvements, with the 3rd phase of streetscape extending on Bridge Street from Church Street to 1st Street. The project will include a mill and overlay of the pavement, full sidewalk replacement, installation of crosswalk, signs, pedestrian lighting, brick accents, storm water improvements, decorative rail on bridge, bike arrows and “Share the Road” signage.



“Before and After” Design Plans



Impact on Operating Costs:

The project plans include decorative street lighting. The City is responsible for the maintenance on these lights, resulting in future operational costs. The new mill and overlay will reduce the amount of road repairs in the future in this area.

Planned Expenditures

| Phase | FY 2022 | FY 2023 | Project Total |
|--------------|-----------------|------------------|------------------|
| Engineering | \$97,000 | - | \$97,000 |
| Construction | - | \$800,000 | \$800,000 |
| Total | \$97,000 | \$800,000 | \$897,000 |

Funding Sources

| Source | FY 2022 | FY 2023 | Project Total |
|-------------------------------|-----------------|------------------|------------------|
| Capital Improvement Sales Tax | \$97,000 | \$312,000 | \$409,000 |
| TAP Funding (MoDOT) | - | \$488,000 | \$488,000 |
| Total | \$97,000 | \$800,000 | \$897,000 |

Updated: August 16, 2022

5 Year Capital Improvement Plan - Park & Stormwater Sales Tax

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|--------------------|------------------|------------------|------------------|------------------|------------------|
| Quincy Boulevard/Owen Street - Stormwater (Construction) | Public Works | \$250,000 | - | - | - | - |
| Stormwater Master Plan | Public Works | \$150,000 | | | | |
| City Wide Park Signage | Parks & Recreation | \$30,000 | - | - | - | - |
| Diamondcrest Multiuse Trail (Construction) | Parks & Recreation | - | \$281,000 | - | - | - |
| Diamondcrest Multiuse Trail - Grant | Parks & Recreation | - | (181,000) | - | - | - |
| Emerald Ridge Neighborhood Park & Signage | Parks & Recreation | - | \$300,000 | - | - | - |
| Emerald Ridge Neighborhood Park & Signage - Grant | Parks & Recreation | - | (150,000) | - | - | - |
| Annual Stormwater Program (Projects TBD) | Public Works | - | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| Heritage Park - 2 Shelters | Parks & Recreation | - | \$150,000 | - | - | - |
| Smith's Fork (Sport Courts, Skate Park, B-Ball Court) | Parks & Recreation | - | - | \$300,000 | \$300,000 | - |
| Smith's Fork (Sport Courts, Skate Park, B-Ball Court) - Grant | Parks & Recreation | - | - | (300,000) | - | - |
| Smith's Fork Park Complex (Design) | Parks & Recreation | - | - | - | - | \$640,000 |
| Grand Total (Net Cost) | | \$430,000 | \$500,000 | \$100,000 | \$400,000 | \$740,000 |

| Project Totals By City Department | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|-----------------------------------|------------------|------------------|------------------|------------------|------------------|
| Parks & Recreation | \$30,000 | \$400,000 | \$300,000 | \$300,000 | \$640,000 |
| Public Works | \$400,000 | \$100,000 | \$100,000 | \$100,000 | \$100,000 |
| Grand Total (Net Cost) | \$430,000 | \$500,000 | \$400,000 | \$400,000 | \$740,000 |

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Diamond Crest Multi-Use Trail | Department: Parks & Recreation |
| Type of Project: Rehabilitation | Contact: Matt Denton |
| Total Project Cost: \$281,000 | |

Description:

The Diamond Crest Trail Phase I will initiate a long-term community vision of providing better access to our current trail amenities and connecting 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 for residents and visitors to safely access Diamond Crest 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 Diamond Crest Trail project. Phase I of the trail will connect the Diamond Crest, 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 the 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 Diamond Crest Trail. It is anticipated that the entire project would be completed in the next 5-10 years. The City would contract engineering services and construction for Phase II and Phase III.

The Diamond Crest 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 Diamond Crest Park amenities. Diamond Crest 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 Diamond Crest Trail is recognized in the Parks and Recreation Master Plan, and in the Transportation Master Plan.

Impact on Operating Costs

The improvements to Diamond Crest 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 to ensure trash containers remain empty and safety inspections are completed more frequently. There will also be maintenance cost to replace concrete slabs as they crack.

Planned Expenditures

| Phase | FY 2023 | Total |
|--------------|------------------|------------------|
| Construction | \$281,000 | \$281,000 |
| Total | \$281,000 | \$281,000 |

Funding Sources

| Source | FY 2023 | Total |
|-----------------------------|------------------|------------------|
| Park & Stormwater Sales Tax | \$100,000 | \$100,000 |
| MARC Grant Reimbursement | \$181,000 | \$181,000 |
| Total | \$281,000 | \$281,000 |

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Emerald Ridge Neighborhood Park & Signage | Department: Parks & Recreation |
| Type of Project: Rehabilitation / Replacement | Contact: Matt Denton |
| Total Project Cost: \$150,000 | |

Description:

In FY2023, 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 structure walkway 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 will be applying for a Land and Water Conservation Fund (LWCF) Grant through the Missouri Department of Conservation to help fund the project. There is a minimum 50% match.

Justification:

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

Planned Expenditures

| Phase | FY 2023 |
|--------------|-----------|
| Construction | \$150,000 |

Funding Sources

| Source | FY 2023 |
|-----------------------------|-----------|
| Park & Stormwater Sales Tax | \$150,000 |

Impact on Operating Costs

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

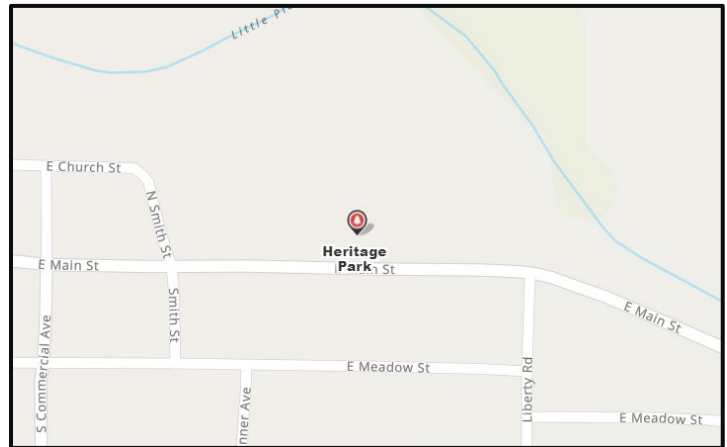
| | |
|--|--|
| Project Name: Heritage Park – 2 Shelters | Department: Parks & Recreation |
| Type of Project: Recreational Capacity | Contact: Matt Denton |
| Total Project Cost: \$150,000 | |

Description:

This project includes the addition of two new shelter houses for Heritage Park. Currently, there is only one shelter house near Heritage Playground. These two new shelters will increase shelter capacity to accommodate more Smithville residents and visitors.

Justification:

This project was identified as a FY2024 priority in the Parks and Recreation Master Plan.



Planned Expenditures

| Phase | FY 2024 |
|--------------|------------------|
| Engineering | TBD |
| Construction | TBD |
| Total | \$150,000 |

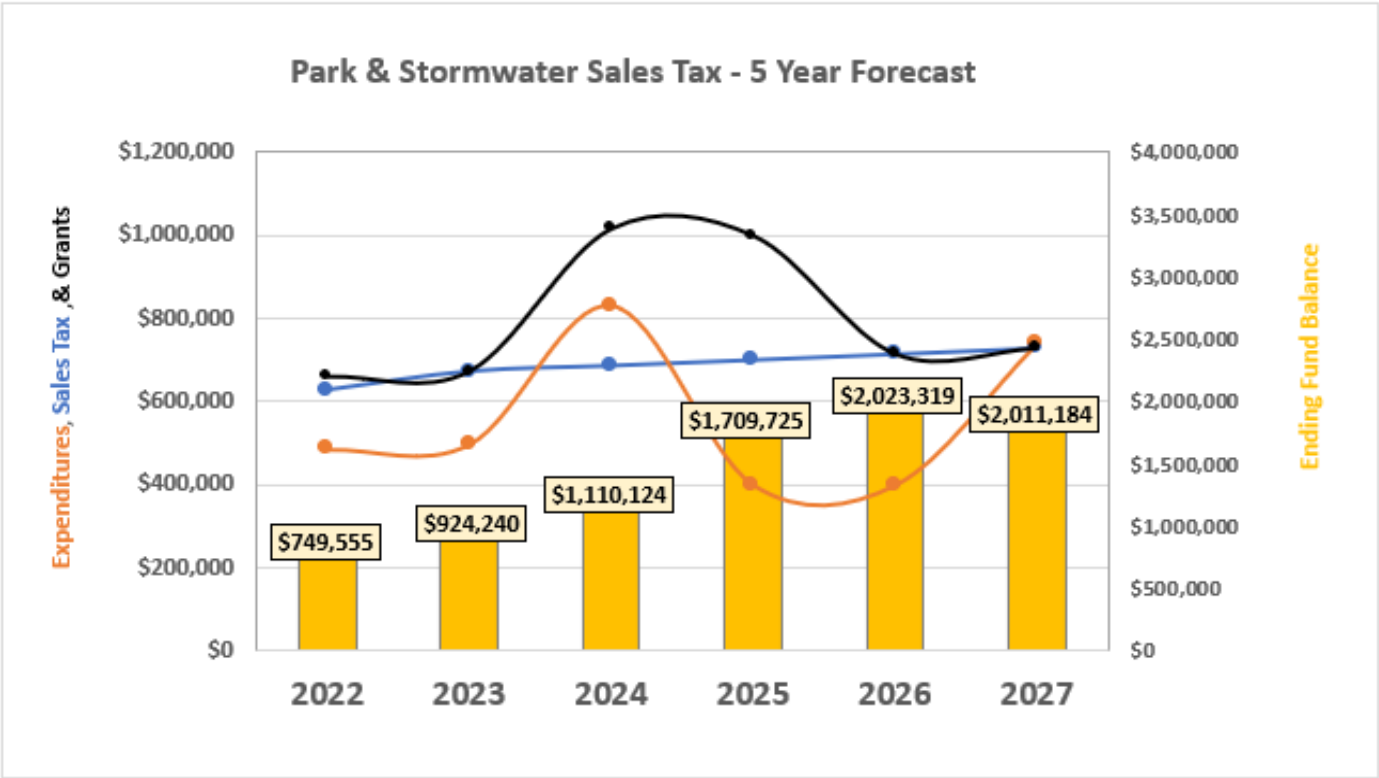
Funding Sources

| Source | FY 2024 |
|------------------------------|------------------|
| Parks & Stormwater Sales Tax | \$150,000 |
| Total | \$150,000 |

Impact on Operating Costs

Updated: August 16, 2022

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



5 Year CIP Total

\$2,470,000



Pending Projects Outside 5 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 |
| Dundee Road ----- Curbs & Stormwater (Engineering) | Public Works | \$18,200 |
| Dundee Road ----- Curbs & Stormwater (Construction) | Public Works | \$91,000 |
| 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 | | \$14,423,200 |

*Proposed project from the Parks and Recreation Master Plan

5 Year Capital Improvement Plan - American Rescue Act Plan Fund

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|---|--------------------------|-----------|---------|---------|---------|---------|
| Finish Raw Water Pump Station, Copper Ion (Construction) | Public Works - Utilities | \$953,270 | - | - | - | - |
| Grand Total | | \$953,270 | - | - | - | - |

Capital Improvement Projects 2023-2027

| | |
|---|---|
| Project Name: Renovation – Portion of Litton Visitor Center | Department: Parks & Recreation / Public Works |
| Type of Project: Renovation | Contact: Matt Denton / Chuck Soules |
| Total Project Cost: \$200,000 | |

Description:

The City of Smithville will be partnering with the U.S. Army Corps of Engineers to renovate the Litton Visitor Center. The renovations will establish administrative offices for Parks & Recreation and Public Works staff. Additionally, there will be a multi-purpose room that would be used to accommodate classes, training, camps, programming, and public meetings.

The building will be shared space between the two entities, and the City will be responsible for the ongoing Utility costs at the building.



Justification:

The City works closely with the U.S. Army Corps of Engineers on flood protection, resource conservation, water runoff and water supply, and Smith Fork Park and Campground. The new facility will enhance the public interaction with the Parks & Recreation Department and allow for increased programming capacity in this new space.

Planned Expenditures

| Phase | FY 2023 |
|--------------|------------------|
| Construction | 200,000 |
| Total | \$200,000 |

Funding Sources

| Source | FY 2023 |
|--------------|------------------|
| General Fund | \$200,000 |
| Total | \$200,000 |

Impact on Operating Costs

The City will be responsible for Utility costs at the Litton Center, which will be an additional annual operating cost to the budget.

Updated: October 18, 2022

Capital Improvement Projects 2023-2027

| | |
|---|--|
| Project Name: Park Signage | Department: Parks & Recreation |
| Type of Project: New Infrastructure | Contact: Matt Denton |
| Total Project Cost: \$30,000 | |

Description:

Currently, only two City parks have signs recognizing them as official “City of Smithville” Parks. Seven more signs are needed to complete park sign recognition. The Parks and Recreation Committee provided feedback and a recommendation to select a “rock/boulder” style sign which would be very similar to the Courtyard Park rock/boulder sign located in Downtown Smithville. This selection will keep the rock/boulder sign theme consistent throughout the entire City.

The seven parks which would receive rock signs would include Heritage Park, Smith’s Fork Park, Diamond Crest Neighborhood Park, Emerald Ridge Neighborhood Park, Helvey Park, Hawthorne Park, and Wildflower Park.

Justification:

As part of the first two years of the Parks and Recreation Master Plan, staff has budgeted funds for park welcoming/recognition signage.

Planned Expenditures

| Phase | FY 2023 |
|--------------|-----------------|
| Construction | \$30,000 |
| Total | \$30,000 |

Funding Sources

| Source | FY 2023 |
|-----------------------------|-----------------|
| Park & Stormwater Sales Tax | \$30,000 |
| Total | \$30,000 |

Impact on Operating Costs

Updated: August 16, 2022

Capital Improvement Projects 2023-2027

| | |
|--|--|
| Project Name: Smith's Fork Park – Sport Courts | Department: Parks & Recreation |
| Type of Project: New Construction | Contact: Matt Denton |
| Total Project Cost: \$600,000 | |

Description:

This project allows for the relocation of sports courts, which are currently located at Heritage Park, to the Smith's Fork Park. This relocation will make space for the new recreational sports fields. This project will contribute to the eventual creation of an entire Sports Complex. This project is funded with Park and Stormwater sales tax dollars across multiple fiscal years within the 5 Year CIP. There is also a Land Water Conservation Fund match opportunity (50%) which could provide \$300,000 in revenue to help offset expense for this project.

Justification:

This project is a FY2025 priority from the Parks and Recreation Master Plan.

Planned Expenditures

| Phase | FY 2025 | FY 2026 |
|----------------------------|-----------|-----------|
| Engineering & Construction | \$300,000 | \$300,000 |

Funding Sources

| Fund | FY 2025 | FY 2026 |
|------------------------------|-----------|-----------|
| Parks & Stormwater Sales Tax | \$300,000 | \$300,000 |

Impact on Operating Costs

Updated: August 16, 2022

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: August 16, 2022

Capital Improvement Projects 2023- 2027

| | |
|---|------------------------------------|
| Project Name: Annual Stormwater Program | Department: Public Works |
| Type of Project: Improvement | Contact: Charles Soules |
| Total Project Cost: \$400,000 | |

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 \$100,000 on an annual basis in the Park & Stormwater Sales Tax Fund to pay for stormwater related projects. The 5 Year CIP features a \$100,000 annual allocation for stormwater infrastructure projects from FY2024 through FY2027.

Justification:

The SMP will outline the future needs of the City's stormwater and annual programmatic funding will be requirement to execute the project recommendations sourced from the SMP. \$100,000 is a starting point which can adequately begin to fund the SMP identified projects.

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 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|---------------------------|---------|-----------|-----------|-----------|-----------|
| Annual Stormwater Program | - | \$100,000 | \$100,000 | \$100,000 | \$100,000 |

Funding Sources

| Fund | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|-----------------------------|---------|-----------|-----------|-----------|-----------|
| Park & Stormwater Sales Tax | - | \$100,000 | \$100,000 | \$100,000 | \$100,000 |

Updated: August 16, 2022

Capital Improvement Projects 2023- 2027

| | |
|--|------------------------------------|
| Project Name: Stormwater Master Plan | Department: Public Works |
| Type of Project: Improvement | Contact: Charles Soules |
| Total Project Cost: \$150,000 | |

Description:

A Stormwater Master Plan (SMP) will outline, identify, and assist in prioritizing future stormwater needs in the City of Smithville. In short, proper stormwater management protects life and property against the threat of local and regional flooding and allows the City to meet regulatory requirements intended to protect the environment. As communities, like Smithville, continue to grow and develop with increasing amounts of impervious area, the need to consider the effects of the environment become more important. The development of an SMP is expected to cost about \$150,000 and is proposed for the FY2023 Budget.

Justification:

Currently, the City is surveying the stormwater infrastructure throughout the City and inputting the results into a GIS system. After the stormwater infrastructure is mapped, the City will need to determine how to address and prioritize future competing stormwater needs. The City has aging stormwater infrastructure that needs to be replaced and the SMP will help staff identify which infrastructure needs to be prioritized for immediate replacement. To fund the projects recommended out of the SMP, the City will allocate \$100,000 each year to fund stormwater improvements.

Impact on Operating Costs:

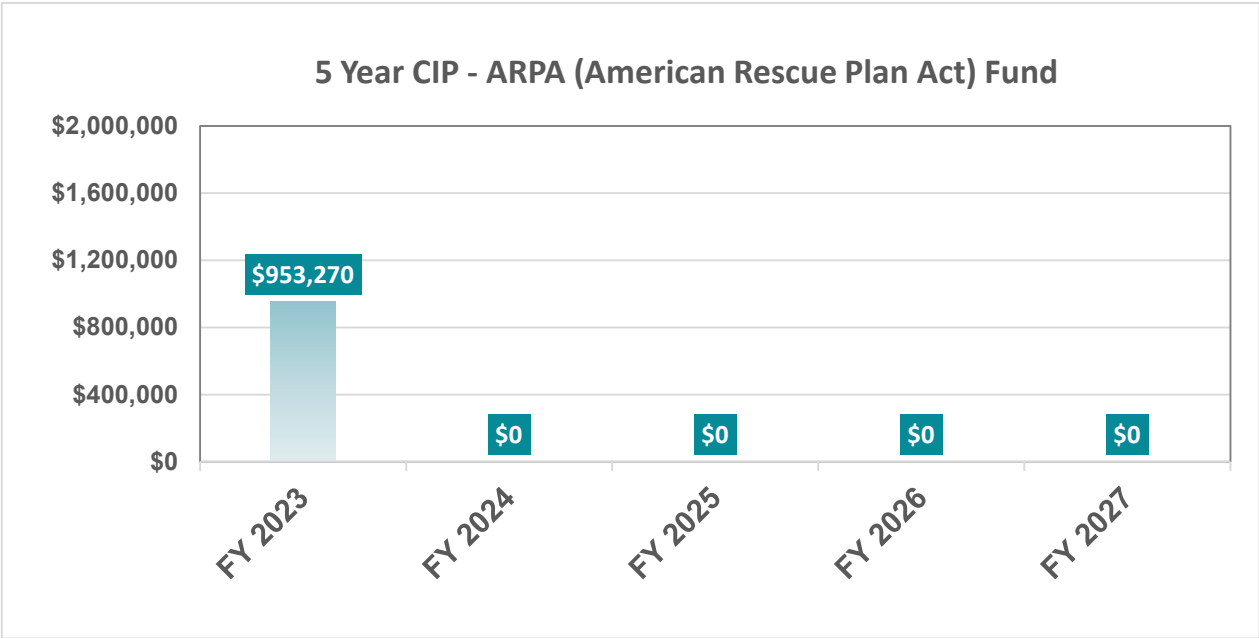
The Stormwater Master Plan is a planned document so the actual project will not have future costs. However, future projects will be identified from the Stormwater Master Plan.

Planned Expenditures

| Phase | FY 2024 |
|--------------------|-----------|
| Development of SMP | \$150,000 |

Funding Sources

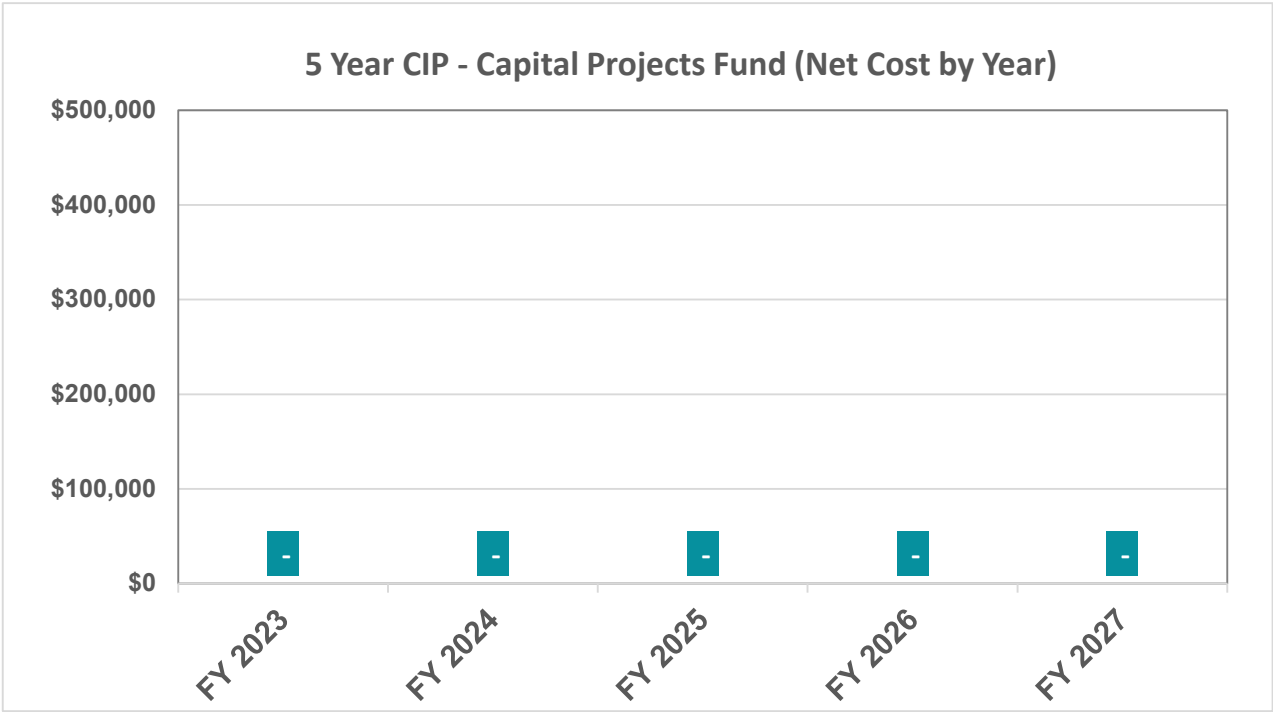
| Fund | FY 2023 |
|-----------------------------|-----------|
| Park & Stormwater Sales Tax | \$150,000 |



| 5 Year CIP Total |
|------------------|
| \$953,270 |

5 Year Capital Improvement Plan - Capital Projects Fund

| Capital Improvement Project Name | Dept Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|----------------------------------|-----------|---------|---------|---------|---------|---------|
| No Projects | None | - | - | - | - | - |
| Grand Total | | - | - | - | - | - |

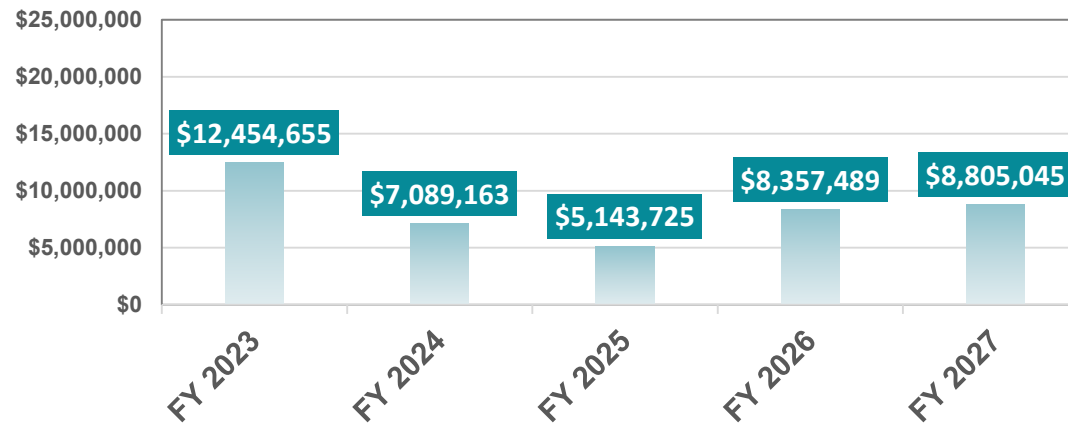


| 5 Year CIP Total |
|------------------|
| \$0 |

All Funds - 5 Year Capital Improvement Project Summary

| Fund Name | FY 2023 | FY 2024 | FY 2025 | FY 2026 | FY 2027 |
|--|---------------------|--------------------|--------------------|--------------------|--------------------|
| General Fund | 500,000 | 150,000 | 150,000 | - | - |
| Combined Water/Wastewater Fund - Non Impact Projects | 7,896,500 | 3,805,000 | 3,400,000 | 6,600,000 | 7,000,000 |
| Combined Water/Wastewater Fund - Water Impact Projects | 200,000 | 550,000 | - | - | - |
| Combined Water/Wastewater Fund - Wastewater Impact Projects | 700,000 | 650,000 | - | - | - |
| Transportation Sales Tax Fund | 565,000 | 575,000 | 325,000 | 325,000 | 325,000 |
| Debt Service Fund | 343,040 | 351,333 | 353,850 | 360,569 | 361,625 |
| Capital Improvement Sales Tax Fund | 866,845 | 507,830 | 814,875 | 671,920 | 378,420 |
| Parks and Stormwater Sales Tax Fund | 430,000 | 500,000 | 100,000 | 400,000 | 740,000 |
| Capital Projects Fund | - | - | - | - | - |
| ARPA Fund | 953,270 | - | - | - | - |
| Grand Total | \$12,454,655 | \$7,089,163 | \$5,143,725 | \$8,357,489 | \$8,805,045 |

5 Year CIP - All Funds Fund (Net Cost by Year)



Grand 5 Year CIP Total

\$41,850,076