

Capital Improvement Plan



2018-2022



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Introduction

To the Mayor and Board of Aldermen:

I am pleased to transmit to you the proposed 2018-2022 Capital Improvement Plan (CIP).

This proposed plan is not a wish list of unfunded desires. Rather, it is a well thought out planning document that balances planned capital expenditures with projected revenues. The staff views this document, after review, modification and adoption by the Board, as "authorization" for a project to move forward for planning purposes. Funds would still need to be "appropriated" through the annual budget process. Nearly all of the items submitted in the CIP were included in the Fund Planners reviewed at the Strategic Planning Meetings and the pre-budget work session.

While there are a limited number of changes in this plan from previously submitted CIP documents, the changes are not dramatic. We have been trying to instill in the organization a planning discipline for capital improvements. Theoretically, any new projects should only appear in the fifth year of the plan. You will find that this is the case with the vast majority of items included in the binder.

Over the last year, the Board of Aldermen has given staff clear direction on a number of key themes. The CIP addresses your strategic direction and priorities. In addition to meeting the capital needs of the City for the next five years, the plan accomplishes the following:

- Continues the slab replacement program
- Continues and enhances the commitment to Downtown
- Develops a strategy to acquire land for future parks and other facilities
- Leverages funds from other entities
- Funds the continued maintenance and enhancement of aging infrastructure

The proposed plan calls for the expenditure of \$126,352,930 over a five-year time frame and includes funding mechanisms for each item.

Please accept this Capital Improvement Plan for adoption. The Plan has been carefully developed, and involved the participation and insightful thinking of all departments. The plan allows the City to proactively anticipate its future needs while giving it the flexibility to make changes.

Sincerely,



David Gipson
City Administrator

CAPITAL IMPROVEMENT PLAN

2018-2022

Capital Plan

A Five-Year Capital Improvement Plan allows the City to proactively plan its future capital needs well in advance, yet allow flexibility for changing needs. The first year reflects the capital projects included in the 2018 fiscal year budget. The remaining four years represent a schedule and estimate of future capital projects that may be funded based on revenue projections. Capital expenditures are listed by year and have been moved or adjusted to remain in balance. There will be further adjustments as the plan is updated with current information annually.

The **Fund** identifies the particular fund that will be used to pay for each project and the **Department** identifies responsibility. **Outside Funding Sources** identifies expected or estimated funds from grants or bonds. **Project Description** provides a description of each project (location, scope of work, etc.). **Project Justification** attempts to explain exactly why the particular project is needed. Justifications generally involve an effort to conserve funds now or in the future, enhance efficiency, provide a superior and high-quality public service, ensure greater employee or public safety, and/or replace, improve or expand public infrastructure.

Capital Improvements

Capital improvements are physical improvements to public infrastructure in and throughout the City, and include the construction of streets, stormwater systems, bridges, parks, recreational facilities, structural renovations, and numerous other projects that involve physical improvements in and throughout the community.

Financing Methods

As stated, the means of funding for each project is specified herein; the Governmental Fund to be used to complete the physical improvement. Within this Five-Year Capital Improvement Plan, a total of \$126,352,930 is recommended for capital spending. A breakdown of this \$126 million by department indicates that the Transportation Fund will bear the largest burden of this Five-Year Capital Plan, followed by design and construction of the Reclamation Center expansion and reserve drawdowns in the General and Capital Fund for the new City Hall. Of the total \$126 million in total five-year capital spending, \$38.5 million (or 30%) is estimated to be reimbursed by outside funding sources. The City will continue to pursue outside funding to finance (or defray) significant capital costs.

Annual Expenditure Trend

Approximately \$126 million in capital projects are anticipated over the five-year period 2018-2022. For this five-year period, the largest single year of capital outlay will be fiscal year 2018, which includes Phase 2A, B and C of David Hoekel Parkway, Highway 61 Outer Road, Wentzville Parkway South Phase I design, and Historic Downtown Renovations. The fiscal year 2018 includes about \$4.7 million for a two-million gallon spheroid water tower and \$1.9 million for a 1-MGD water well. A new public works facility is planned for design in 2019 with construction commencing in 2020 in the amount of \$11.565 million. The fiscal year 2021 includes \$8.7 million to construct the expansion of the Reclamation Center. The other variances year-to-year are due to Water Fund projects and a number of large Transportation projects. The City has significant street reconstruction and signal projects planned for a number of major streets in this community including: Highway N/Perry Cate Boulevard signal, Wentzville Parkway Turn Lane Phase II, West Meyer Road Phase III, and street and sidewalk maintenance Citywide.

REVENUE SOURCES

General Fund

General Fund capital expenditures are all funded from the Capital Improvements Fund.

Transportation Fund

Transportation Fund revenues are largely sales tax driven. The annual growth rate is consistent with current trends, yet grant funding was added in where appropriate. The variable nature of grant funding renders any visual trend of Transportation Fund revenues difficult to perceive. Transportation equipment is also funded by the Capital Improvements Fund allowing more Transportation funds to be allocated for major road projects. The Transportation Fund will be closely monitored in the out years as construction starts on David Hoekel Parkway, as this will be the largest road project ever taken on by the City.

Capital Improvements Fund

Capital Improvements Fund revenues are used to make lease payments for bond issues and to purchase capital equipment. These are revenues transferred to other funds and budgeted accordingly. The Capital Fund purchases all the capital equipment used in the General, Transportation, Parks and Recreation, Water and Wastewater funds providing a consistent approach.

Water and Wastewater Enterprise Funds

Water and Wastewater Fund revenues were estimated upon community growth rates, as these revenues are largely driven by commercial and residential utility billings. Given that the City tracks its building permits (a proxy for new accounts), this revenue generally mirrors projected growth.

Parks and Recreation Funds

Park Fund equipment purchases are funded by the Capital Fund. This change provides a consistent approach to the funding of capital equipment in the General Fund and Special Revenue Fund.

Debt Financing

Fund debt financing is for projects that cannot be funded without a new revenue source. Possible funding sources for these projects will include General Obligation Bonds for large projects. Revenue Bonds such as the State Revolving Fund could be used for utility projects. Leasehold Revenue Bonds can be used for park development since there is now a Parks sales tax, which will provide a means to repay these types of bonds. In 2018, the City will work with Missouri Highways and Transportation Commission and the Missouri Transportation Finance Corporation (MTFC) to enter into a Direct Loan Agreement and Promissory Note in the amount of \$5,000,000 for the construction of David Hoekel Parkway. The remainder of the project will be funded using City, County and State dollars.

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

PROJECT						
Department	2018	2019	2020	2021	2022	Five Year Total
Information Technology	-	-	-	-	-	-
Community Development	-	-	-	-	-	-
Law Enforcement	126,754	62,338	77,691	72,338	62,338	401,459
Parks	207,788	215,250	290,769	167,263	297,806	1,178,876
Public Works	19,119,300	29,027,500	21,465,000	10,470,000	5,030,000	85,111,800
Water	7,520,000	1,120,000	600,000	3,400,000	715,000	13,355,000
Wastewater	2,587,000	2,078,000	3,630,000	8,720,000	-	17,015,000
TOTAL	29,560,842	32,503,088	26,063,460	22,829,601	6,105,144	117,062,135

EQUIPMENT						
Department	2018	2019	2020	2021	2022	Five Year Total
Information Technology	40,000	-	100,000	-	-	140,000
Community Development	29,800	26,000	26,000	81,300	-	163,100
Law Enforcement	635,680	478,680	922,680	484,680	521,680	3,043,400
Parks	64,845	113,650	227,600	192,300	87,500	685,895
Public Works	538,000	878,000	419,000	779,000	258,000	2,872,000
Water	63,000	367,200	85,200	30,000	149,500	694,900
Wastewater	340,000	222,000	503,000	321,000	305,500	1,691,500
TOTAL	1,711,325	2,085,530	2,283,480	1,888,280	1,322,180	9,290,795

CITYWIDE CAPITAL IMPROVEMENT PLAN SUMMARY

TOTAL PROJECTS AND EQUIPMENT						
	2018	2019	2020	2021	2022	Five Year Total
TOTAL	31,272,167	34,588,618	28,346,940	24,717,881	7,427,324	126,352,930

FUNDING SUMMARY						
Source	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	2,386,079	3,590,868	14,382,846	2,381,618	1,763,018	24,504,429
Park Fund	207,788	190,250	189,094	142,263	297,806	1,027,201
Transportation Fund	63,325	11,611,075	5,300,000	5,220,000	4,030,000	26,224,400
St. Charles County Cost Share	9,770,025	11,901,000	2,000,000	4,250,000	-	27,921,025
MoDOT Cost Share	3,000,000	2,500,000	-	-	-	5,500,000
STP Funding	629,950	1,130,000	-	-	-	1,759,950
East-West Gateway TAP Funding	-	-	-	-	500,000	500,000
CMAQ through EQGCOCG	-	-	2,000,000	500,000	-	2,500,000
Railroad Memorandum of Understanding (MOU)	-	355,425	-	-	-	355,425
MoDOT Loan	5,000,000	-	-	-	-	5,000,000
Water Fund	7,520,000	1,120,000	600,000	3,400,000	715,000	13,355,000
Wastewater Fund	2,695,000	2,190,000	3,875,000	1,824,000	121,500	10,705,500
State Revolving Fund Loan	-	-	-	7,000,000	-	7,000,000
TOTAL	31,272,167	34,588,618	28,346,940	24,717,881	7,427,324	126,352,930



Information Technology

INFORMATION TECHNOLOGY

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Information Technology	Offsite Backup and Disaster Recovery	40,000	-	-	-	-	40,000
Human Resources	Learning Management System	-	-	25,000	-	-	25,000
Information Technology	Virtual Desktop Environment	-	-	75,000	-	-	75,000
TOTAL		40,000	-	100,000	-	-	140,000

FUNDING SOURCE						
	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	40,000	-	100,000	-	-	140,000
TOTAL	40,000	-	100,000	-	-	140,000

OFFSITE BACKUP AND DISASTER RECOVERY

Fund: Capital

Department: Information Technology

Project Cost: \$40,000 | **Outside Funding:** \$-0- | **City Cost:** \$40,00

Description: Funding used to set up a backup datacenter in Public Works building. The current offsite backup solution lacks backup/restore support for virtual images. This location will also allow the City to backup and restore file level data much faster than today's offsite solution.

Justification: The datacenter will serve as a disaster recovery (DR) location. DR will allow the City's mission-critical functions to resume quickly after a disastrous event.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$40,000	\$40,000	-	-	-	-

LEARNING MANAGEMENT SYSTEM

Fund: Capital

Department: Information Technology – Human Resources

Project Cost: \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

Description: Purchase of an online learning management tool.

Justification: The City has nearly 300 year-round employees and 150 seasonal employees. The City needs a solution to accommodate training needs across the City while eliminating paper trails. The City is too large for the paper process with each new policy change, administrative directive, etc. In addition, sending videos through interoffice or requiring employees to attend live training is extremely inefficient.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,000	-	-	\$25,000	-	-

VIRTUAL DESKTOP ENVIRONMENT

Fund: Capital

Department: Information Technology

Project Cost: \$75,000 | **Outside Funding:** \$-0- | **City Cost:** \$75,000

Description: Transition from a physical desktop environment to a virtual desktop environment.

Justification: In 2019, more than 60 work stations/laptops will be due to recapitalization (roughly costing \$60,000). The return on investment on not only the physical hardware, but energy costs would pay for itself over the next 36 months. It would be more cost effective to move to a virtual desktop environment solution, while also creating a more versatile environment for remote capabilities.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$75,000	-	-	\$75,000	-	-

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Community Development

COMMUNITY DEVELOPMENT

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Planning	Compact 4x4 SUV	29,800	-	-	-	-	29,800
Building Inspection	Compact SUV	-	26,000	26,000	56,000	-	108,000
Building Inspection	½-Ton 4x4 Pickup Truck	-	-	-	25,300	-	25,300
TOTAL		29,800	26,000	26,000	81,300	-	163,100

FUNDING SOURCE							
		2018	2019	2020	2021	2022	Five Year Total
Capital Fund		29,800	26,000	26,000	81,300	-	163,100
TOTAL		29,800	26,000	26,000	81,300	-	163,100

VEHICLES

Fund: Capital

Department: Community Development – Building Inspection, Planning

Location: Building Inspection and Planning Divisions

Description: Purchase of replacement vehicles.

Justification: Replacement of vehicles due to age, mileage and ongoing maintenance costs. Replacement will improve reliability and safety, and will reduce the likelihood of repairs exceeding the vehicles' value.

Anticipated Benefit: The replacement vehicles are capable of carrying out all necessary duties, but at a reduced initial purchase price and will lower annual operating costs.

COMPACT 4x4 SUV (Planning)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$29,800	\$29,800	-	-	-	-

COMPACT SUV (Building Inspection)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$108,000	-	\$26,000	\$26,000	\$56,000	-

1/2-TON 4x4 PICKUP TRUCK (Building Inspection)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,300	-	-	-	\$25,300	-

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Law Enforcement

LAW ENFORCEMENT

PROJECT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Law Enforcement	Remodel – Architect/Construction	50,000	-	-	-	-	50,000
Law Enforcement	Flooring/Carpeting	30,000	-	-	-	-	30,000
Law Enforcement	HVAC Software Upgrade	-	-	15,353	-	-	15,353
Law Enforcement	Fencing/Gates	-	-	-	10,000	-	10,000
Law Enforcement	Guaranteed Energy Savings	46,754	62,338	62,338	62,338	62,338	296,106
TOTAL		126,754	62,338	77,691	72,338	62,338	401,459

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Law Enforcement	Copier	15,000	-	-	-	-	15,000
Law Enforcement	Unmanned Aircraft System	25,000	-	-	-	-	25,000
Law Enforcement	License Plate Readers	-	18,000	-	-	-	18,000
Law Enforcement	CAD/RMS System	-	-	400,000	-	-	400,000
Law Enforcement	Strategic Response Vehicle and Equipment	-	-	50,000	-	-	50,000
Law Enforcement	Mobile Command Post	-	-	-	-	25,000	25,000
Law Enforcement	Glock 9mm Pistols	-	-	-	-	16,000	16,000
Law Enforcement	AVL/GPS System	30,000	27,000	27,000	27,000	27,000	138,000
Law Enforcement	911 Maintenance	63,259	63,259	63,259	63,259	63,259	316,295
Law Enforcement	Taser Tap 2 Program	9,225	9,225	9,225	9,225	9,225	46,125
Law Enforcement	Taser Axon Flex Upgrade	44,196	44,196	44,196	44,196	44,196	220,980
Law Enforcement	Emergency Warning Siren	43,000	43,000	43,000	43,000	43,000	215,000
Law Enforcement	Patrol Vehicles and Equipment/Set-up	384,000	250,000	260,000	270,000	280,000	1,444,000
Law Enforcement	Motorcycle and Equipment/Set-Up (less trade-in)	22,000	24,000	26,000	28,000	30,000	130,000
TOTAL		635,680	478,680	922,680	484,680	521,680	3,043,400

LAW ENFORCEMENT

TOTAL PROJECTS AND EQUIPMENT						
	2018	2019	2020	2021	2022	Five Year Total
TOTAL	762,434	541,018	1,000,371	557,018	584,018	3,444,859

FUNDING SOURCE						
	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	762,434	541,018	1,000,371	557,018	584,018	3,444,859
TOTAL	762,434	541,018	1,000,371	557,018	584,018	3,444,859

REMODEL

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

Project Cost: \$50,000 | **Outside Funding:** \$-0- | **City Cost:** \$50,000

Description: The Police Department, due to growth of the agency, wants to remodel the current facility to include a training center and add additional office space for staff.

Justification: The Police Department is at capacity. Offices are being shared by multiple employees and there is a true need for space to use as a training room. That room will be multi-purpose to include housing the FATS firearms simulator and classroom space for in-service training. The additional offices will allow for a centralized work flow between divisions.

Anticipated Benefit: Improvement of work flow and an opportunity for an improved training environment.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$50,000	\$50,000	-	-	-	-

FLOORING/CARPETING

Fund: Capital

Department: Law Enforcement

Project Cost: \$30,000 | **Outside Funding:** \$-0- | **City Cost:** \$30,000

Description: Remove the existing flooring/carpet and replace with new in high traffic areas.

Justification: Flooring/carpeting in the LEC has exceeded its life expectancy and is showing extreme wear. The building was completed in 2001, and a carpet or flooring upgrade has not occurred since.

Anticipated Benefit: Aesthetics.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$30,000	\$30,000	-	-	-	-

HVAC SOFTWARE UPGRADE

Fund: Capital

Department: Law Enforcement

Project Cost: \$15,353 | **Outside Funding:** \$-0- | **City Cost:** \$15,353

Description: Upgrade software to Tracer Summit HVAC system

Justification: Upgrade will help building HVAC operate more efficiently, while reducing maintenance costs incurred from the current system.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,353	-	-	\$15,353	-	-

FENCING/GATES

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$10,000 | **Outside Funding:** \$-0- | **City Cost:** \$10,000

Description and Justification: Fencing and two additional gates for added security at the Law Enforcement Center.

Anticipated Benefit: Added security for the Law Enforcement Center, employees and equipment.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$10,000	-	-	-	\$10,000	-

GUARANTEED ENERGY SAVINGS

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Boulevard

Project Cost: \$296,106 | **Outside Funding:** \$-0- | **City Cost:** \$296,106

Description and Justification: In order to assist public entities with capital planning and long-term building infrastructure improvements, the Missouri State Legislature passed legislation in 1997 on guaranteed energy cost savings contracts. These contracts can apply to any “governmental unit” meaning a state government agency, department, institution, college, university, all local political subdivisions such as counties, municipalities and public school districts, as well as special purpose districts. Guaranteed energy cost savings contracts provide an alternative procurement method that allows for municipalities to comprehensively address aging building infrastructure needs while reducing energy and operating costs, by leveraging annual guaranteed energy savings to assist with cash-flow financing the project. This procurement method minimizes the overall risk the City as the selected Energy Provider, Trane, will provide an annual shortfall check if actual savings from the project are less than the annual program cost as agreed upon contractually and required by statute. Typical improvements include HVAC replacement/upgrades/modifications, installation of building controls, lighting efficiency enhancements and tightening of the overall building envelope (roof, windows, doors, insulation). In history, the City has not replaced HVAC equipment on a revolving replacement schedule and rarely includes these large expenditures in the Five Year CIP. This program allows for a structured equipment replacement plan and allows for annual appropriations at a set amount.

Anticipated Benefit: Guaranteed energy cost savings contracts create an opportunity for municipalities to reduce annual energy and operating costs, while also providing a costs savings guarantee from the provider. Annual guaranteed energy savings for this project are project at \$23,479, increasing each year, and are due to building efficiency updates, new LED lighting, hi efficiency HVAC and building automation controls. Annual maintenance agreement /guarantee administrative costs are around \$15,000 - \$17,000 annually and renewable every five years.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$296,106	\$46,754	\$62,338	\$62,338	\$62,338	\$62,338

COPIER

Fund: Capital

Department: Law Enforcement

Project Cost: \$15,000

|

Outside Funding: \$-0-

|

City Cost: \$15,000

Description: Copier in Records is aging but still serviceable. Police Department is asking to replace that copier with a new one and move the existing copier to the Squad Room for patrol as that one is at the end of its life.

Justification: Makes the Records process more efficient while improving service to the Public. Patrol has access to a reliable copier as opposed to one that breaks down frequently.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,000	\$15,000	-	-	-	-

UNMANNED AIRCRAFT SYSTEM

Fund: Capital

Department: Law Enforcement

Project Cost: \$25,000

|

Outside Funding: \$-0-

|

City Cost: \$25,000

Description: Police Department is proposing the purchase of an unmanned aircraft system to be used to improve situational awareness during critical incidents, to be used during search and rescue operations, to be used to obtain an improved visual perspective, to be used to document crime and fatality accident scenes, and to be used for community development projects.

Justification: Provides enhanced operations capabilities for critical incidents.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,000	\$25,000	-	-	-	-

LICENSE PLATE READERS

Fund: Capital

Department: Law Enforcement

Project Cost: \$18,000

|

Outside Funding: \$-0-

|

City Cost: \$18,000

Description and Justification: Purchase of two license plate readers to replace existing cameras due to life expectancy of the equipment coming to term.



FUNDING SCHEDULE					
Total	2018	2019 (2)	2020	2021	2022
\$18,000	-	\$18,000	-	-	-

CAD/RMS SYSTEM

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$400,000

|

Outside Funding: \$-0-

|

City Cost: \$400,000

Description: Replace CAD/RMS System with a new system that will support the growth of this Agency and provide the needed information gathering capabilities while providing reliable statistical data that will drive the Police Department's community orientated policing efforts forward. Delivering reliable data will be crucial for any accreditation efforts that are initiated in the near future.

Justification: The original request submitted for the 2014 – 2019 CIP was scheduled for 2017. However, the current vendor, ITI, is preparing to launch a new web-based version of the City's current CAD/RMS system. The launch of the system is slated for 2017. The Police Department is requesting to push this project to 2020 in order to explore the functionality of the upgrade being offered by ITI.

Anticipated Benefit: More accurate reporting.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$400,000	-	-	\$400,000	-	-

STRATEGIC RESPONSE VEHICLE

Fund: Capital

Department: Law Enforcement

Project Cost: \$50,000

| **Outside Funding:** \$-0-

| **City Cost:** \$50,000

Description: Box style vehicle to house and deliver on scene emergency services equipment (i.e. barricades, accident reconstruction equipment, etc.) in a timely manner.

Justification: There are frequent instances where equipment is needed to make an incident scene safe. Resources from other City departments are often unavailable. This vehicle would allow for the timely response of that type of equipment when it is critically needed.

Anticipated Benefit: Provides the opportunity to resolve critical incidents in a timely and safe manner.



FUNDING SCHEDULE					
Total \$50,000	2018	2019	2020	2021	2022
	-	-	\$50,000	-	-

MOBILE COMMAND POST

Fund: Capital

Department: Law Enforcement

Project Cost: \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

Description and Justification: An office trailer or a vehicle that could be moved into areas and used at special events and natural disasters. The Public looks for a specific area that police can be found when situations occur.

Anticipated Benefit: An identified, specific location for the Public to visit at special events and natural disasters.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,000	-	-	-	-	\$25,000

AVL/GPS SYSTEM

Fund: Capital

Department: Law Enforcement

Project Cost: \$138,000 | **Outside Funding:** \$-0- | **City Cost:** \$138,000

Description: The AVL or Automated Vehicle Locator is a GPS based system that tracks police vehicles. This system displays real time locations of police vehicles on a screen in the dispatch center and interfaces with the computer aided dispatch program. With the pending launch of an upgrade to the CAD/RMS system, which includes mapping software, Police is requesting to delay this project until 2018 so that the new CAD/RMS program can be evaluated. The concern being that if this module was purchased and it was later determined to seek a new CAD/RMS vendor, the monies spent on this module would have been wasted. It is worth noting that if this module is purchased today, an unexpected cost of purchasing 4G service for each computer that would have the module loaded on it would be necessary. Based on the above the purchase of this system has been pushed back to 2018.

Justification: The AVL/GPS system increases officer safety and enhances the dispatcher's ability to send the closest unit to an in-progress call for service.

Anticipated Benefit: Faster response to citizens of the community.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$138,000	30,000	\$27,000	\$27,000	\$27,000	\$27,000

911 MAINTENANCE

Fund: Capital

Department: Law Enforcement

Project Cost: \$316,295 | **Outside Funding:** \$-0- | **City Cost:** \$316,295

Description: Annual maintenance contract for the Next Generation Enhanced 911 system.

Justification: Annual maintenance for the seven-year contract agreement of the Next Generation Enhanced 911 system.

Anticipated Benefit: Greater ability for 911 services to the citizens of our community. This includes GPS mapping, texting and photo submission to the 911 centers.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$316,295	\$63,259	\$63,259	\$63,259	\$63,259	\$63,259

TASER TAP 2 PROGRAM

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$46,125 | **Outside Funding:** \$-0- | **City Cost:** \$46,125

Description: Taser assurance/replacement program.

Justification: The program continues to replace equipment that is out of warranty, as replacement parts are unavailable. This project provides an additional 15 units in 2015 and will be duplicated in 2016, which will complete the full deployment for the agency.

Anticipated Benefit: Health and safety.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$46,125	\$9,225	\$9,225	\$9,225	\$9,225	\$9,225

TASER AXON FLEX UPGRADE

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$220,980 | **Outside Funding:** \$-0- | **City Cost:** \$220,980

Description and Justification: The purchase of a TAP program for the Taser Axon Flex camera system including the cost of evidence.com to store and manage the recordings from the cameras as well as the cameras and associated hardware. The TAP program ensures availability of hardware and software updates at no additional costs during the contract period.

Anticipated Benefit: The TAP program allows the Police Department to keep current with the rapidly changing advances in technology associated with this equipment to minimizes the impacts on the budget should this system require unexpected purchases.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$220,980	\$44,196	\$44,196	\$44,196	\$44,196	\$44,196

EMERGENCY WARNING SIRENS

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Project Cost: \$215,000 | **Outside Funding:** \$-0- | **City Cost:** \$215,000

Description: The City will purchase and install emergency weather warning sirens to serve an expanding geographic population, as well as replacing those due to age.

Justification: City expansion and/or aging sirens.

Anticipated Benefit: Safety and liability.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$215,000	\$43,000	\$43,000	\$43,000	\$43,000	\$43,000

PATROL VEHICLES AND EQUIPMENT/SET-UP

Fund: Capital

Department: Law Enforcement

Location: 1019 Schroeder Creek Blvd.

Description: Purchase of vehicles including turnkey outfitting and installation of police vehicle equipment.

Justification: Continue the police rotation program and an effort to address the issues that are prevalent with the existing fleet. This provides for faster deployment of vehicles to patrol duties and quicker turnover of worn-out vehicles.

Anticipated Benefit: Reduced liability, less maintenance and repair costs and safety of officers and residents.

PURSUIT RATED SUV (10) in 2018					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$1,444,000	\$384,000	\$250,000	\$260,000	\$270,000	\$280,000

MOTORCYCLE					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$130,000	\$22,000	\$24,000	\$26,000	\$28,000	\$30,000



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Parks and Recreation

PARKS & RECREATION

PROJECT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Maintenance	Communication Tower at Peruque Valley Park	93,500	-	-	-	-	93,500
Aquatics/Maint.	Shade Structure	43,050	-	-	-	43,050	86,100
Maintenance	Asphalt Parking Lot Around Structures	-	123,625	-	-	-	123,625
Maintenance	ADA Sidewalk Replacement	-	25,000	-	25,000	-	50,000
Maintenance	RTU for Locker Rooms	-	-	75,900	-	-	75,900
Maintenance	Baseball Field Improvements	-	-	43,750	-	-	43,750
Maintenance	ADA Vestibule	-	-	101,675	-	-	101,675
Maintenance	Irrigation and Backstops at Peruque Valley Park	-	-	-	70,000	-	70,000
Maintenance	Public Park Outdoor Improvements	-	-	-	-	81,488	81,488
Maintenance	Preventative Maintenance Asphalt Parking Lots and Trails	-	-	-	-	97,674	97,674
Maintenance	Public Park Facility Improvements	71,238	66,625	69,444	72,263	75,594	355,164
TOTAL		207,788	215,250	290,769	167,263	297,806	1,178,876

PARKS & RECREATION

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Admin	Compact SUV	27,150	-	-	-	-	27,150
Maintenance	John Boat w/Motor and Trailer	25,445	-	-	-	-	25,445
Maintenance	Quik Trak 61" Chariot Mower	-	13,000	-	-	-	13,000
Horticulture & For	3/4-Ton 4x4 Truck w/Utility Bed & Power Inverter	-	38,000	-	-	-	38,000
Maintenance	1-Ton 4x4 Truck w/Landscape Bed & Hoist	-	49,150	-	-	-	49,150
Recreation	8-Passenger Van	-	-	33,150	-	-	33,150
Horticulture & For	6x4 Turf Gator	-	-	13,000	-	-	13,000
Maintenance	Compact Utility Tractor	-	-	15,000	-	-	15,000
Horticulture & For	Boom Truck (used)	-	-	75,650	-	-	75,650
Horticulture & For	1-Ton 4x4 Pickup Truck	-	-	30,000	-	-	30,000
Horticulture & For	1-Ton 4x4 Crew Cab Pickup Truck	-	-	43,000	-	-	43,000
Horticulture & For	1-Ton Truck w/Snow Plow Hookups (2)	-	-	-	96,300	-	96,300
Maintenance	14' Dual Pivot Hook-All Hooklift Attachment	-	-	-	55,000	-	55,000
Horticulture & For	Utility Vehicle	-	-	-	25,000	11,000	36,000
Horticulture & For	Articulating Slope Mower	-	-	-	-	25,000	25,000
Horticulture & For	Compact Mini Skid Loader	-	-	-	-	35,000	35,000
Recreation	Holiday Lights Display	12,250	13,500	17,800	16,000	16,500	76,050
TOTAL		64,845	113,650	227,600	192,300	87,500	685,895

PARKS & RECREATION

TOTAL PROJECTS AND EQUIPMENT						
	2018	2019	2020	2021	2022	Five Year Total
TOTAL	272,633	328,900	518,369	359,563	385,306	1,864,771

FUNDING SOURCE						
	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	64,845	138,650	329,275	217,300	87,500	837,570
Park Fund	207,788	190,250	189,094	142,263	297,806	1,027,201
TOTAL	272,633	328,900	518,369	359,563	385,306	1,864,771

COMMUNICATION TOWER

Fund: Parks & Recreation

Department: Administration

Location: Peruque Valley Park

Project Cost: \$93,500 | **Outside Funding:** \$-0- | **City Cost:** \$93,500

Description and Justification: Funds to be used to construct a communication tower at Peruque Valley Park. The design process for the Peruque Valley Park Project never addressed how access to the internet would be addressed. The Parks and Recreation Staff recently considered the possibilities of:

1. Relocating the existing cell tower from City Hall to a predetermined location at Peruque Valley Park.
2. Provide a completely new tower at a predetermined location at Peruque Valley Park.
3. Relocate the existing cell tower from the LEC to a predetermined location at Peruque Valley Park and add a section.

The lowest bid was \$77,020 to move the City Hall Tower to Peruque Valley Park place in on a new base. The tower will be used to:

1. establish a point-to-point connection between Peruque Valley Park and the water tower on Wentzville Parkway;
2. provide internet access to staff space in the new Parks Maintenance Facility;
3. provide a secured web based connection to the police dispatch to allow 24 hour monitoring of the complex;
4. provide a reliable internet based connection from the point-of-sale station in the concession stand to the City's RecTrac System; and
5. provide an encrypted connection for additional security measures that the City may choose to place in the park.

Anticipated Benefit to the City: Of course it is expected that such a study will determine to what degree of efficiency the City currently has and how the City might chart the course for long term fiscal sustainability. Additionally, this approach brings a third party in to perform the analysis to ensure the approach is in keeping with how others across the nation are evaluating their operations and it removes, to the extent possible, any perceive bias that could be associated with performing the work in house.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$93,500	\$93,500	-	-	-	-

SHADE STRUCTURE

Fund: Parks & Recreation

Department: Aquatics (2018) and Maintenance (2022)

Location: Splash Station (2018) and Progress Park and Rotary Park (2022)

Project Cost: \$86,100 | **Outside Funding:** \$-0- | **City Cost:** \$86,100

Description: Funds utilized to design, purchase, install or construct an additional shade structure at Splash Station and at the playground structures that were installed in Progress Park and Rotary Park.

Justification: Splash: Some shade structures were removed from the scope of the original project and this is one of the top two comments that we receive from users of the facility. Staff is suggesting a two-phase approach to adding additional shade structures to the facility. This is Phase I and will include incorporating a shade structure along the south side (nearest the school) of the leisure pool which has the zero-entry beach and lap lanes. This area was prioritized as the top priority because this is an area where mothers tend to gather to watch the small children utilizing this pool. Phase II will incorporate some additional shade structures along the east side of the facilities by the slide.

Progress Park and Rotary Park: Shade structures were not included when these playgrounds were purchased and installed. Staff has received complaints from parents whose small children have been hurt when playing on the playgrounds or sliding on the slides. The plastics get very hot.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$86,100	\$43,050	-	-	-	\$43,050

ASPHALT PARKING LOT AROUND STRUCTURES

Fund: Parks & Recreation
Department: Maintenance
Location: Rotary Park

Project Cost: \$123,625 | **Outside Funding:** \$-0- | **City Cost:** \$123,625

Description: Funds used to design, purchase and install additional dust-free parking in the areas around the Kolb Exhibition Center at Rotary Park.

Justification: Rotary Park was established in 1981 and many of the structures were added in the years since. The Kolb Exhibition Center was dedicated June 14, 1992, and there is very little dust-free parking around the building. As such, the water runs the path of least resistance causing erosion in the bleacher area along the edges of the roadways, in/across the roadways. Staff is proposing to install hard-surface parking with curb/gutter and eliminate the erosion issues and provide better parking for users of the facility during non-fair times. It is hopeful that this might be a collaborative project with the St. Charles County Fair Board

The Kolb Exhibition Center is used several days per year for large groups, but could be used a lot more if the issue related to parking and lack of restrooms were addressed. Staff estimates that, conservatively, we could double the number of rentals in that facility. In addition to creating a more aesthetically pleasing appearance around the buildings, it also provides an opportunity for increased revenue by making the area more visually appealing.

The proposed project calls for approximately 455LF of curb/guttering and 23,300SF of asphalt. C&G was figured at \$15/LF and asphalt at \$4/SF installed.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$123,625	-	\$123,625	-	-	-

ADA SIDEWALK REPLACEMENT/IMPROVEMENTS

Fund: Capital

Department: Maintenance

Project Cost: \$50,000 | **Outside Funding:** \$-0- | **City Cost:** \$50,000
Capital Fund - \$50,000

Description: Replace cracked, heaved or otherwise damaged sidewalks within the park system or around public facilities. Occasionally, funds are used to install new ADA ramps or new sections of sidewalk on public rights of way to make connections to either the trail system or in heavily traveled areas.

Justification: Funding source for replacing sidewalks that are not ADA-compliant or to add new sidewalks in areas that we need to in order to be compliant with those standards.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$50,000	-	\$25,000	-	\$25,000	-

ROOF TOP UNIT FOR LOCKER ROOMS

Fund: Parks & Recreation

Department: Progress Pool

Project Cost: \$75,900 | **Outside Funding:** \$-0- | **City Cost:** \$75,900

Description: Funds will be used to purchase two new roof top units for providing air conditioning to the locker rooms at the Progress Park Recreation Center. The RTU funding will also include funding to screen the new units to be in compliance with building codes.

Justification: The Recreation Center currently uses only outside air and a series of fans to cool the air. Heating is provided by a separate system and is ducted from a significant distance away. This inefficient system has resulted in numerous complaints about the temperature in the lobby and locker rooms when the outside temperatures are high. Staff has worked with engineers to design a much more compact and efficient system for heating and cooling the air in that space. The system is comprised of two new roof top units that will work independently and control each of the locker areas.

Anticipated Benefit: The City can expect to see some long-term benefits associated with customer satisfaction when using the facility.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$75,900	-	-	\$75,900	-	-

BASEBALL FIELD IMPROVEMENTS

Fund: Parks & Recreation

Department: Progress Park

Project Cost: \$43,750 | **Outside Funding:** \$-0- | **City Cost:** \$43,750

Description: Funds will be used to address drainage and backstop/fence issues at Progress Park Baseball Diamond including:

1. Add soil amendments and laser grade the baseball infield (\$10,000)
2. Repair backstop and install new fence on dugouts (\$15,000)
3. Correct drainage issue caused by water sheet flowing from sidewalks (\$4,000)

Justification: Progress Park field needs to be raised and laser graded, so that we can decrease rainouts and reduce the amount of time that is spent preparing the field after a rain event. This field is used by the City for various youth baseball and adult softball programs. The field has had a significant amount of deferred maintenance and it has reached point where this lack of attention is adversely impacting staff's ability to complete routine tasks in a timely fashion. The longer this work is deferred the more costly the repairs will be in the future.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$43,750	-	-	\$43,750	-	-

ADA VESTIBULE

Fund: Capital

Department: Maintenance

Location: Progress Park Hall Banquet Center

Project Cost: \$101,675 | **Outside Funding:** \$-0- | **City Cost:** \$101,675
Capital Fund - \$101,675

Description: Purchase and install a new ADA vestibule at the Progress Park Banquet Center.

Justification: The building currently has a single set of doors between the interior and exterior of the building. This creates heating and cooling inefficiencies due to the direct exchange of air. While this occurs every time the doors are open and closed, it is most noticeable during the summer and winter seasons each year. The need is further emphasized by the fact that the area immediately inside the door is work out space for fitness classes or seating space for banquet guests utilizing the center. The solution is to install a second set of doors and create a vestibule that allows for a small area to pre-heat/cool the air thus minimizing the amount of temperature change inside the building. Typically, this is done by simply using aluminum storefront and installing a small heating cooling system to control the temperature in that space.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$101,675	-	-	\$101,675	-	-

IRRIGATION AND BACKSTOPS

Fund: Parks & Recreation

Department: Peruque Valley Park

Project Cost: \$70,000 | **Outside Funding:** \$-0- | **City Cost:** \$70,000

Description: Funds will be used to erect the three remaining baseball/softball fields at Peruque Valley Park. Parks would like to develop the three additional baseball fields that were not included in the first phase. This project is a material only cost as Park staff will provide the labor to install all of the backstops and irrigation for these fields. Irrigation supplies are projected to cost roughly \$35,000 for all three fields and the backstop materials will run around \$10,000 each (\$30,000 total).

Anticipated Benefit to the City: Staff feels that by building the three additional fields, they can accommodate larger tournaments that will attract more tournament business. It is anticipated that hotel, retail and restaurant will see an influx of patrons during these tournaments. Having seven fields of various sizes will better accommodate all ages at this complex. It is becoming more common that tournament directors sell the fact that teams play on age-appropriate fields and teams who travel expect that. On average, a complex like this can average 30 plus teams per weekend and can exceed 50 teams. This type of complex can accommodate approximately 20 tournaments a year with proper staffing.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$70,000	-	-	-	\$70,000	-

PUBLIC PARK OUTDOOR IMPROVEMENTS

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$81,488 | **Outside Funding:** \$-0- | **City Cost:** \$81,488

Description and Justification: Funds used to address unanticipated structural deficiencies or failures to outdoor or non-building related infrastructure (pavilions included in this category) such as:

1. Make unscheduled repairs to individual pieces of playground equipment and eventually to install new amenities.
2. Repair, replace or enhance faulty or defective infrastructure such as irrigation systems, aeration fountains, trails, boardwalks, electrical or plumbing, etc.
3. Repair, replace, or enhance structural deficiencies such as foot bridges, drinking fountains, backstops, outfield fences, scoreboards, pavilions, etc.
4. Perform needed construction/renovation projects in a timely fashion.
5. Improve overall efficiency of an operation or facility.

There are a number of smaller projects that get submitted every year that if completed when the issue begins rather than wait until the problem reaches a critical stage will result in future cost savings. The problem is that these types of projects are always dropped during the budget process to focus resources on issues that have already reached the critical phase and we never have an opportunity to catch up. It is proposed that a system be developed to address these issues while they are still in their "infancy". Projects identified for 2022 include: entrance sign at Heartland Park (\$18,000); new play features at Rotary Park playground (\$8,000); slide at Memorial Park (\$8,000); fences at Heartland Park 3&4 (\$13,000); Kolb building landscaping bed (\$7,500); extend retaining wall at Peruque Valley Park (25,000).

Anticipated Benefit to the City: Feedback received from residents during the last Park Master Planning Process indicated that 60% (highest number for this category) of the respondents were "Very Supportive" and another 30% were "Somewhat Supportive" of Maintaining/Repairing our existing Parks, Shelters, Facilities, etc. Only 3% were "Not Supportive" and 8% "Don't Know". When asked what "Actions the Respondents would be most willing to support with their tax dollars", 34% of the respondents placed Maintenance of Existing Park, Shelters, Facilities as their 1st, 2nd or 3rd Choice - again, the highest total in this category.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$81,488	-	-	-	-	\$81,488

PREVENTATIVE MAINTENANCE PROGRAM FOR ASPHALT PARKING LOTS AND TRAILS

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$97,674 | **Outside Funding:** \$-0- | **City Cost:** \$97,674

Description and Justification: Funds used to implement a preventative maintenance and repair program for asphalt parking lots and trails within the Parks system. The funds would also be used to add or replace asphalt in places where needed such as short connections, turn radii, additional parking, erosion points, or park entrances. Current projects under consideration are:

1. Crack seal and top coat, perhaps some spot repairs to the base are needed as well for the Parking Lot in Memorial Park
2. Crack seal and top coat Asphalt Trail in Rotary Park

The overall condition of the parking areas in the City Park System is not bad but there is an increasing need to catch up on the maintenance side. With the increasingly difficult budget challenges that we are facing, it is recommended that a review of the current service levels and the related revenues is completed to establish a baseline for establishing a long term maintenance program of asphalt surfaces consist with what is being done on City streets. There are also some areas where it should be considered to add a short connection or a few extra parking spaces and these funds would allow it.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$97,674	-	-	-	-	\$97,674

PUBLIC PARK FACILITY IMPROVEMENT

Fund: Parks & Recreation

Department: Maintenance

Location: Citywide

Project Cost: \$355,164 | **Outside Funding:** \$-0- | **City Cost:** \$355,164

Description: Funds used to:

1. Repair or replace unscheduled mechanical failures such as air conditioners, furnaces, boilers, etc.
2. Repair or replace unanticipated infrastructure deficiencies or structural failures such as roof leaks, electrical, storm/sanitary sewer, plumbing, etc.
3. Perform needed construction/renovation projects in a timely fashion.
4. Improve overall efficiency of an operation or facility.
5. Replace equipment that has been lost to theft or unexpected malfunction and replacement/repair.

Identified projects include:

2018: Fitness equipment for expanded fitness center at Rec Center (\$24,000); Replace a tread mill (4 of 5) at Rec Center (\$7,500); replace AC unit at Banquet Hall (\$25,000); Outdoor camp office renovation (\$8,000); Ceiling treatment for Rec Center Lobby (\$5,000)

2019: Replace a treadmill at the Rec Center (\$7,500); Kitchen remodel at Progress Park Banquet Hall (\$25,000); Replace sound/paging system at Rec Center (\$18,000); Replace shingles on Parapet at Progress Park Banquet Hall (\$7,000)

Justification: These project funds are exclusively to be used for work related to enclosed building structures. There are a number of smaller projects that get submitted every year that if completed when the issue begins rather than waiting until the problem reaches a critical stage will result in future cost savings. The problem is that these types of projects are always dropped during the budget process to focus resources on issues that have already reached the critical phase and the department never has an opportunity to catch up. It is proposed that system be developed to address these issues while they are still in their "infancy." Feedback received from residents during the last Park Master Planning Process indicated that 60 percent (highest number for this category) of the respondents were "Very Supportive" and another 30 percent were "Somewhat Supportive" of Maintaining/Repairing our existing Parks, Shelters, Facilities, etc. Only 3 percent were "Not Supportive" and 8 percent "Don't Know." When asked what "Actions the Respondents would be most willing to support with their tax dollars," 34 percent of the respondents placed Maintenance of Existing Park, Shelters, and Facilities as their 1st, 2nd or 3rd choice – again, the highest total in this category.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$355,164	\$71,238	\$66,625	\$69,444	\$72,263	\$75,594

COMPACT SUV

Fund: Capital

Department: Administration

Project Cost: \$27,150 | **Outside Funding:** \$-0- | **City Cost:** \$27,150

Description: This unit is used by the Parks and Recreation Director for daily transportation to various meetings and transporting visiting professionals around to different job sites.

Justification: The Director is often on construction jobsites and is part of the City's emergency response team. An AWD vehicle is necessary for meeting those job responsibilities. The current vehicle has a bigger payload, seats up to five passengers, and gets 14/20 mpg. The new vehicle would have less payload space, seat up to five passengers, and get 22/32 mpg. There is a real need for having another vehicle in the Department for the Recreation Division to use to transport staff and/or equipment to and from remote work locations. Currently, the Director utilizes their personal vehicle almost as much time as they do the City's vehicle because the recreation staff does not have the proper number of vehicles to perform the functions they need to.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$27,150	\$27,150	-	-	-	-

JOHN BOAT WITH MOTOR AND TRAILER

Fund: Capital

Department: Maintenance

Project Cost: \$25,445 | **Outside Funding:** \$-0- | **City Cost:** \$25,445

Description: Funds will be used to replace a 12' John Boat with no motor as part of a scheduled replacement program. Staff is proposing to purchase a slightly larger and more functional 18' flat bottom John Boat to include an outboard gas 10 HP motor and dedicated boat trailer.

Justification: This boat is used to perform maintenance functions at Rotary Park and Heartland Park. This includes taking water chemistry samples, removing logs and debris from the overflow structures, algae removal and maintenance/removing the floating fountains (300lbs). During the winter months, it is used to transport large bundles of Christmas trees and anchor materials for submerging fish habitat in the lakes. The current boat is somewhat unsafe because of the limited room place material/supplies and to maneuver within the boat when placing fish habitat. Furthermore, the current boat does not have a load platform. The current boat does not have motor, which limits load size and functionality of the unit when placing lake chemicals.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,445	\$25,445	-	-	-	-

QUIK TRAK 61" CHARIOT MOWER

Fund: Capital

Department: Maintenance

Project Cost: \$13,000 | **Outside Funding:** \$-0- | **City Cost:** \$13,000

Description: Funds will be used to purchase a replacement John Deere John Deere 661R Quik Trak Chariot 61" Mower for the Park Division.

Justification: This chariot-style, zero-turn unit has a 61" wide mowing deck, which is ideal for park related mowing in small areas and is used daily during the mowing season to mow parks and public areas in the park system. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs. The anticipated life cycle for a mower like this in park setting is expected to be around eight years or 1,800 hours. Substantial productivity gains can also be expected because of quicker loading and unloading between job sites, shorter interruptions for debris collection while mowing, and reduced operator fatigue.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$13,000	-	\$13,000	-	-	-

3/4-TON 4X4 WITH UTILITY BED & POWER INVERTER

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$38,000 | **Outside Funding:** \$-0- | **City Cost:** \$38,000

Description: Funds will be used to purchase a 4/4-ton pickup truck with a utility bed.

Justification: This vehicle is used in daily Park operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors and other construction-related equipment. There are, often, time when the demands of the job site requires additional/different equipment and it may require additional trips to the shop. By incorporating a utility bed, much of the standard equipment can be kept on the truck and this will increase productivity of the staff by not having to make extra trips.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$38,000	-	\$38,000	-	-	-

1-TON 4X4 TRUCK WITH LANDSCAPE BED & HOIST

Fund: Capital

Department: Maintenance

Project Cost: \$49,150 | **Outside Funding:** \$-0- | **City Cost:** \$49,150

Description: 1-ton 4x4 truck with landscape bed and hoist.

Justification: This vehicle is used daily by staff for hauling materials/equipment and pulling trailers/equipment to and from jobsites. By incorporating a utility bed, much of the standard tools and equipment can be kept on the truck, which will increase productivity.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$49,150	-	\$49,150	-	-	-

8-PASSENGER VAN

Fund: Capital

Department: Recreation

Project Cost: \$33,150 | **Outside Funding:** \$-0- | **City Cost:** \$33,150

Description: Funds will be used to replace an eight-passenger van used by the staff of the Recreation Division.

Justification: This vehicle is used in daily Recreation Division for hauling materials, supplies and equipment to and from job sites. During the summer months the vehicle is used to transport groups of children to various sports camps and occasionally to field trips. The anticipated life cycle of the new unit is expected to be 10 years or 100,000 miles. This vehicle will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$33,150	-	-	\$33,150	-	-

6X4 TURF GATOR

Fund: Capital

Department: Horticulture & Forrestry

Project Cost: \$13,000 | **Outside Funding:** \$-0- | **City Cost:** \$13,000

Description: Funds will be used to purchase a John Deere 6X4 utility vehicle as part of a scheduled replacement program.

Justification: Because of its light-duty construction, the current utility vehicle has very limited use beyond transporting personnel and minor equipment to/from job sites. Staff is proposing to replace this unit with a more functional heavy duty utility vehicle with a payload capable of handling bulk materials. The John Deere 6X4 Turf Gator has one of the bigger payload capacities (1,500 lbs.) on the market and has a proven track record for the type of use being proposed. Public Works has expressed interest in this unit for conducting their slab condition survey. The life cycle expected of this type of equipment is six years or 2,800 hours.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$13,000	-	-	\$13,000	-	-

COMPACT UTILITY TRACTOR

Fund: Capital

Department: Maintenance

Project Cost: \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

Description: Funds will be used to purchase a replacement 23 HP tractor with turf tires for Park Facility Maintenance staff.

Justification: This unit is used by Horticulture & Parks staff in the execution of the turf - maintenance program. It pulls seeders, fertilizing attachments, aerators, top dressers and turf-vac equipment. The anticipated life cycle of the new unit is expected to be 20 years or 5,000 hours. This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs and parts are increasingly hard to obtain due to the age of the unit.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,000	-	-	\$15,000	-	-

BOOM TRUCK

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$75,650 | **Outside Funding:** \$-0- | **City Cost:** \$75,650

Description: Funds will be used to purchase a used 45' boom truck be used by the Parks crews to trim trees, change field lights and hang Christmas lights.

Justification: There is no vehicle in the City that can safely lift staff to those heights. The City should consider purchasing a fleet truck from a utility company.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$75,650	-	-	\$75,650	-	-

1-TON 4X4 TRUCKS

Fund: Capital

Department: Horticulture & Forrestry

Description: Funds will be used to purchase a replacement 4x4 standard cab/bed pickup truck for the Park Facility Maintenance staff.

Justification: This vehicle is used in daily Park Maintenance operations for hauling materials/equipment and pulling trailers/equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors, and other construction related equipment. Often, there are times when the demands of the job site require additional/different equipment and it may require additional trips to the shop.

1-TON 4X4 PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$30,000	-	-	\$30,000	-	-

1-TON 4X4 CREW CAB PICKUP TRUCK					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$43,000	-	-	\$43,000	-	-

1-TON PICKUP TRUCK WITH SNOW PLOW HOOKUPS

Fund: Capital

Department: Maintenance and Horticulture & Forestry

Project Cost: \$96,300 | **Outside Funding:** \$-0- | **City Cost:** \$96,300

Description: Funds will be used to purchase a 4x4 crew cab pickup truck with a standard bed. This truck will replace truck #803 and #807.

Justification: This vehicle is used in daily Park operations for hauling materials and/or equipment and pulling trailers and/or equipment to and from job sites. The work unit routinely hauls various power and hand tools, ladders, generators, compressors, and other construction related equipment. There are often times when the demand of the job site requires additional or different equipment and it may require additional trips to the shop. These vehicles have exceeded the expected useful life and are in need of replacement to avoid escalating maintenance costs.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021 (2)	2022
\$96,300	-	-	-	\$96,300	-

14' DUAL PIVOT HOOK-ALL HOOKLIFT ATTACHMENT

Fund: Capital

Department: Maintenance

Project Cost: \$55,000 | **Outside Funding:** \$-0- | **City Cost:** \$55,000

Description: Funds will be used to purchase a 14' dual pivot Hook-All hooklift attachment for Truck 813.

Justification: Hook-All hooklifts are an easy way to increase utilization of a single-axle truck chassis. Hook-All hooklifts incorporate quick change bodies that convert a single truck into a container, dump or flatbed. Bodies can be quickly switched or left at a jobsite and can be dumped at more than 50". Bodies include a roll off body, a dump body and a chipper body. This attachment allows for greater versatility of the current fleet and could reduce the number of vehicles in the fleet.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$55,000	-	-	-	\$55,000	-

UTILITY VEHICLE

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$36,000 | **Outside Funding:** \$-0- | **City Cost:** \$36,000

Description: Funds will be used to purchase a John Deere ProGator 2020A (2021) and a John Deere HPX Gator (2022) utility vehicle as part of a scheduled replacement program.

Justification: The Gator's are a heavy duty utility cart that is used on a daily basis by maintenance personnel for transportation and heavy duty hauling of sod, gravel and needed tools to perform daily tasks as well as pulling various attachments for sweeping, topdressing, spraying, etc. These units are a heavy-duty utility vehicle that is used on a daily basis by Horticulture and Forestry staff for hauling and dispensing materials and spraying in areas that a full-size truck is unable to. These utility vehicles will replace machines that have exceeded its expected useful life that is in need of replacement to avoid escalating maintenance costs and parts that are increasingly hard to obtain due to the age of the unit.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$36,000	-	-	-	\$25,000	\$11,000

STIENER 440 ARTICULATING SLOPE MOWER

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$25,000 | **Outside Funding:** \$-0- | **City Cost:** \$25,000

Description and Justification: Funds will be used to replace 2016 mower under a scheduled replacement program. The replacement unit is being proposed to be an articulation mower which is a more specialized mower capable of safely mowing the slopes that exist in the park system. With the addition of Splash Station, Heartland Park and Peruque Park, the City has added a substantial amount of area where staff has to be able to mow slopes of twenty-five degrees or more. Currently Splash Station and Heartland has slopes that are 30 degrees and it takes a specialty mower to mow over 22 degrees. Staff has been directed to not mow these areas under certain conditions because of safety concerns. When these conditions exist, staff ends up mowing the areas with weed eaters which is very labor intensive.

Anticipated Benefit to the City: Staff is proposing to purchase a Steiner Model 440 Articulating Mower because it is also a more versatile unit than a traditional mower which is used for one purpose. The unit has the ability to utilize multiple attachments ranging from mowing decks, to core aerators, trenchers, and snow blowers which will provide more flexibility to how the equipment is used. The City should also benefit from the decreased risk of mowing these areas with equipment that is not designed for it.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$25,000	-	-	-	-	\$25,000

BOXER 532DX COMPACT MINI SKID LOADER WITH TRAILER AND ATTACHMENTS

Fund: Capital

Department: Horticulture & Forestry

Project Cost: \$35,000 | **Outside Funding:** \$-0- | **City Cost:** \$35,000

Description and Justification: Funds will be used to purchase a compact/mini skid loader for the Horticulture & Forestry Division. This is a mobile and versatile piece of equipment that can be used in all seasons. It is smaller than most equipment that the department currently have so it is ideal for those little jobs that require lots of labor. The department currently rents this type of equipment when needed but one can readily see that over a few years they could own one for what they have invested in renting one. The equipment can more efficiently do the labor intensive work like moving dirt/mulch, trenching, tilling, snow removal, etc. Again, it is capable of working in tighter areas than the larger equipment will. Additionally, a wide variety of attachments can be purchased to increase the functionality of the equipment. The anticipated Life Cycle for a mower like this in park setting is expected to be around 12-14 years or 3,000 hours.

Justification: This unit will have passed its expected useful life and is in need of replacement to avoid escalating maintenance costs.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$35,000	-	-	-	-	\$35,000

HOLIDAY LIGHTS DISPLAY

Fund: Capital

Department: Recreation

Location: Rotary Park

Project Cost: \$76,050 | **Outside Funding:** \$-0- | **City Cost:** \$76,050

Description: Funds used to purchase new animated displays for the holiday lights special event at Rotary Park.

Justification: Staff is looking to rejuvenate the Holiday Night Lights display event by starting to add a new component/display each year. The event has stagnated and has been exactly the same for a number of years and people have not been willing to revisit it year after year. By changing the layout and adding a new component each year it should be possible to make this an annual event that families visit each year.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$76,050	\$12,250	\$13,500	\$17,800	\$16,000	\$16,500

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**Public Works &
Transportation**

PUBLIC WORKS

PROJECT								
Department	Description	PRIOR	2018	2019	2020	2021	2022	Five Year Total
PW - Stormwater	1100 – 1101 Ironhorse Ct.		61,000	-	-	-	-	61,000
PW – Admin	Church Street Hwy Z Roundabout Landscaping	-	20,000	-	-	-	-	20,000
PW - Stormwater	Utility Stabilization - 4610 Darkwoods Dr.	-	25,000	65,000	-	-	-	90,000
PW - Stormwater	Norwood Lane	-	50,000	200,000	-	-	-	250,000
PW – Stormwater	Spot Fawn/Jagged Rock Intersection Flood Relief	-	-	-	100,000	-	-	100,000
PW – Admin	Public Works Facility	-	-	765,000	11,565,000	-	-	12,330,000
PW - Admin	General Land Acquisition	400,000	400,000	400,000	400,000	400,000	400,000	2,000,000
PW – Stormwater	Stormwater Maintenance Reserve	100,000	100,000	100,000	100,000	100,000	100,000	500,000
Transp. – Admin	Peine/P/Hwy 61 Interchange Cost Share	15,770,526	1,000,000	-	-	-	-	1,000,000
Transp. – Admin	Hwy 61 Outer Road – Phase II and III	-	1,100,000	-	-	-	-	1,100,000
Transp. – Admin	Hwy N/Perry Cate Blvd. Signal	60,150	400,850	-	-	-	-	400,850
Transp. – Admin	Historic Downtown Revitalization – South Linn Ave. Main to W. Fourth	-	802,450	-	-	-	-	802,450
Transp. – Admin	Historic Downtown Revitalization – Pearce/Allen Corridor	-	250,000	500,000	750,000	750,000	750,000	3,000,000
Transp. – Admin	Historic Downtown Revitalization – Main/Pearce/Meyer/Pitman Corridor	-	250,000	500,000	750,000	750,000	750,000	3,000,000
Transp. – Admin	Wentzville Parkway Turn Lane - Phase II	206,000	375,000	2,260,000	-	-	-	2,635,000
Transp. – Admin	West Meyer Road – Phase III	535,200	300,000	5,007,500	-	-	-	5,307,500
Transp. – Admin	David Hoekel Parkway Phase 2ABC	1,695,000	7,085,000	16,230,000	-	-	-	23,315,000
Transp. – Admin	David Hoekel Parkway Phase 2D	-	-	500,000	-	5,000,000	-	5,500,000
Transp. – Admin	Highway Z/I-70 Interchange Improvements	-	\$500,000	\$100,000	\$5,400,000	-	-	\$6,000,000
Transp. – Admin	Wentzville Parkway South - Phase I	-	4,000,000	-	-	1,000,000	-	5,000,000
Transp. – Admin	West Pearce Blvd. – May Road to Goodfellow Asphalt Overlay	-	-	-	-	70,000	630,000	700,000
Transp. – Streets	Contracted Street and Sidewalk Maintenance	2,600,000	2,400,000	2,400,000	2,400,000	2,400,000	2,400,000	12,000,000
TOTAL		21,366,876	19,119,300	29,027,500	21,465,000	10,470,000	5,030,000	85,111,800

PUBLIC WORKS

EQUIPMENT								
Department	Description		2018	2019	2020	2021	2022	Five Year Total
PW – Street Sign.	6 ft. x 10 ft. Equipment Trailer		5,000	-	-	-	-	5,000
PW – Facility Op.	Scissor Lift		22,000	-	-	-	-	22,000
PW - Stormwater	Storm System Inspection Camera		39,000	-	-	-	-	39,000
PW – Admin	Green Lantern A/C Replacement		20,000	-	-	-	-	20,000
PW – Street Sign.	One-Ton Dump Truck w/Plow and Spreader		86,000	90,000	92,000	94,000	-	362,000
PW – Facility Op.	Drop Spreader for Compact Utility Tractor		-	-	6,500	-	-	6,500
PW – Facility Op.	Pickup Salt V Spreader		-	-	8,500	-	-	8,500
PW – Facility Op.	HVAC Maintenance Van		-	-	-	-	41,000	41,000
PW – Street Sign.	Concrete Saw		-	-	-	-	34,000	34,000
PW – Street Sign.	Hydraulic Concrete Breaker		-	-	-	-	13,000	13,000
PW – Engineering	Colorado Crew Cab 4x4		-	-	-	34,000	-	34,000
PW – Engineering	1/2-Ton 4X4 Pickup Truck		64,000	32,000	33,000	70,000	-	199,000
PW	3/4-Ton 4x4 Pickup Truck		102,000	34,000	37,000	-	-	173,000
PW – Fleet	3/4-Ton 4x4 Service Truck		-	-	47,000	-	-	47,000
PW	New Personnel		68,000	-	-	-	-	68,000
Transp. – Streets	Changeable Message Board		16,000	17,000	35,000	18,000	-	86,000
Transp. – Streets	Crack-Sealer Machine		60,000	-	-	-	-	60,000
Transp. – Streets	Skid-Steer Loader		56,000	-	-	63,000	-	119,000
Transp. – Streets	Sweeper		-	324,000	-	-	-	324,000
Transp. – Streets	Salt Storage Facility		-	180,000	-	-	-	180,000
Transp. – Streets	Vibratory Roller		-	48,000	-	-	-	48,000
Transp. – Streets	Single-Axle Dump Truck w/Plow and Spreader		-	153,000	160,000	165,000	170,000	648,000
Transp. – Streets	Tractor with ROW Mowing Arm		-	-	-	145,000	-	145,000
Transp. – Streets	Tandem Axle Dump Truck w/Plow and Spreader		-	-	-	190,000	-	190,000
TOTAL			538,000	878,000	419,000	779,000	258,000	2,872,000

PUBLIC WORKS

TOTAL PROJECTS AND EQUIPMENT

	PRIOR	2018	2019	2020	2021	2022	Five Year Total
TOTAL	21,366,876	19,657,300	29,905,500	21,884,000	11,249,000	5,288,000	87,983,800

FUNDING SOURCE

Source	PRIOR	2018	2019	2020	2021	2022	Total
Capital Fund	500,000	1,194,000	2,408,000	12,584,000	1,279,000	758,000	18,223,000
Transportation Fund	4,657,675	63,325	11,611,075	5,300,000	5,220,000	4,030,000	26,224,400
St. Charles County Cost Share	540,675	9,770,025	11,901,000	2,000,000	4,250,000	-	27,921,025
STP Funding	103,000	629,950	1,130,000	-	-	-	1,759,950
MoDOT Cost Share	-	3,000,000	2,500,000	-	-	-	5,500,000
East-West Gateway TAP Funding	-	-	-	-	-	500,000	500,000
CMAQ through EWGCOCG	-	-	-	2,000,000	500,000	-	2,500,000
Railroad MOU	-	-	355,425	-	-	-	355,425
MoDOT Loan	-	5,000,000	-	-	-	-	5,000,000
TOTAL	5,801,350	19,657,300	29,905,500	21,884,000	11,249,000	5,288,000	87,983,800

1100 – 1101 IRONHORSE CT.

Fund: Capital

Department: Public Works – Stormwater

Location: Ironhorse Ct.

Project Cost: \$61,000 | **Outside Funding:** \$-0- | **City Cost:** \$61,000

Description and Justification: Install two storm drains and 400' of 18" reinforced concrete pipe to collect and divert significant offset drainage in areas to prevent structural flooding. This concern was not apparent until homes were constructed in the last two years.

Anticipated Benefit: Decreased resident concerns and improved stormwater management in an area at risk of structural flooding.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$61,000	\$61,000	-	-	-	

CHURCH STREET HIGHWAY Z ROUNDBABOUT LANDSCAPING

Fund: Capital

Department: PW – Admin/Parks

Location: Center of MoDOT Roundabout at Church/I70/Hwy Z

Project Cost: \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

Description: Through maintenance agreement with MoDOT provide enhanced landscaping in the center island of newly constructed roundabout.

Justification: Provide aesthetic enhancement for those entering the City and the Village center.

Anticipated Benefit: Improved appearance when entering the City, which promotes a positive environment and an atmosphere for growth and development.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$20,000	\$20,000	-	-	-	-

UTILITY STABILIZATION – 4610 DARKWOODS DR.

Fund: Capital

Department: Public Works – Stormwater

Location: 4610 Darkwoods Dr.

Project Cost: \$90,000 | **Outside Funding:** \$-0- | **City Cost:** \$90,000

Description: Stabilize 18" HDPE storm line in meandering stream with composite revetment and bio-stabilization and property easement restoration.

Justification: Address function and stabilization of stormwater infrastructure.

Anticipated Benefit: Prevent public infrastructure damage.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$90,000	\$25,000	\$65,000	-	-	-

NORWOOD LANE

Fund: Capital

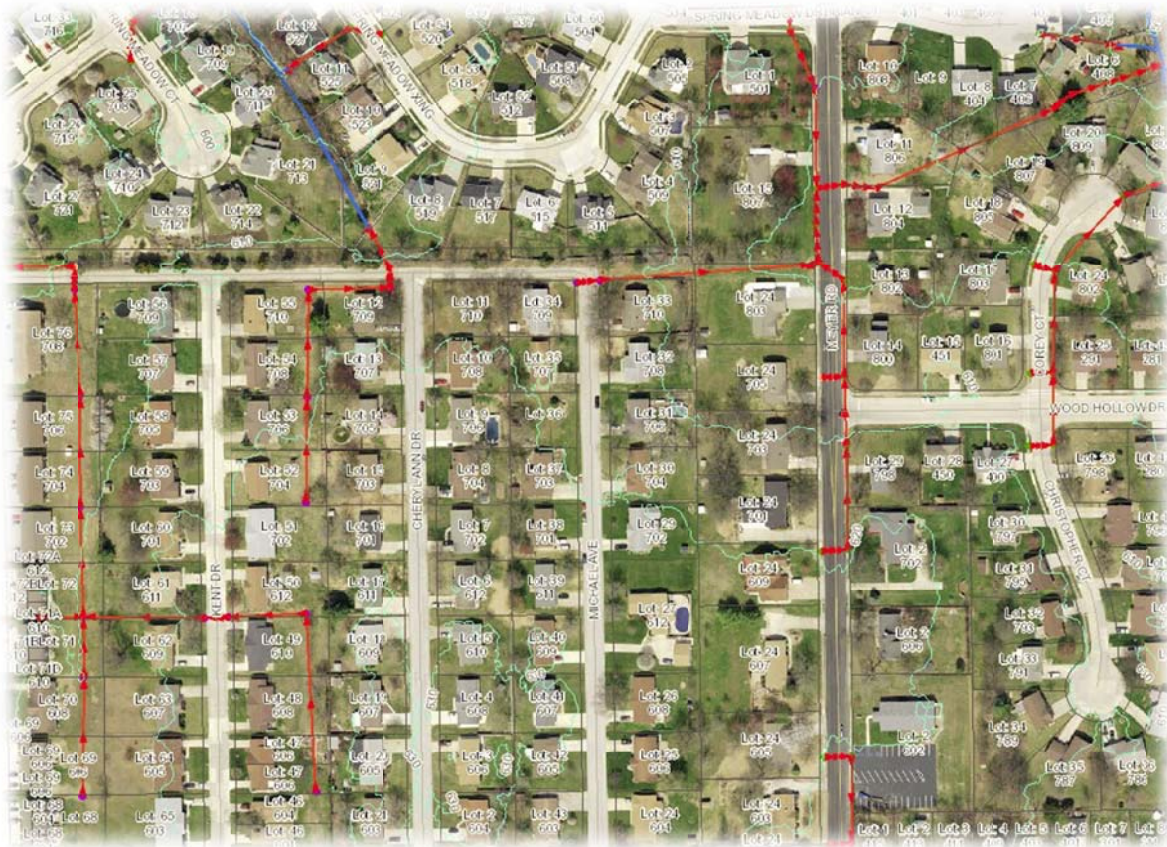
Department: Public Works – Stormwater

Location: Norwood Lane

Project Cost: \$250,000 | **Outside Funding:** \$-0- | **City Cost:** \$250,000

Description and Justification: Expand stormwater storage and flood control in some historic downtown areas; flow through yards in Spring Meadows, W. Meyer and behind Brian Ct. and ponding on Norwood Lane near grate inlets has caused concerns from multiple property owners over the last 10 years. Regional detention project could be coordinated with future slab replacement projects for cost efficiency.

Anticipated Benefit: Decreased resident concerns and improved stormwater management in an area at risk of structural flooding.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$250,000	\$50,000	\$200,000	-	-	-

SPOTTED FAWN & JAGGED ROCK INTERSECTION FLOOD RELIEF

Fund: Capital

Department: Public Works – Stormwater

Location: Spotted Fawn and Jagged Rock to Cripple Creek Court

Project Cost: \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000

Description: Replacing existing pipe (12", 15" and 18") with 18" and 36" pipe. To be modeled to determine extent of repair and maintenance and designed in-house.

Justification: Expanding system detention to reduce intersection flooding during heavy rains.

Anticipated Benefit: Reduces street intersection frequency of flooding during rain events.



FUNDING SCHEDULE					
Total \$100,000	2018	2019	2020	2021	2022
	-	-	\$100,000	-	

PUBLIC WORKS FACILITY

Fund: Capital

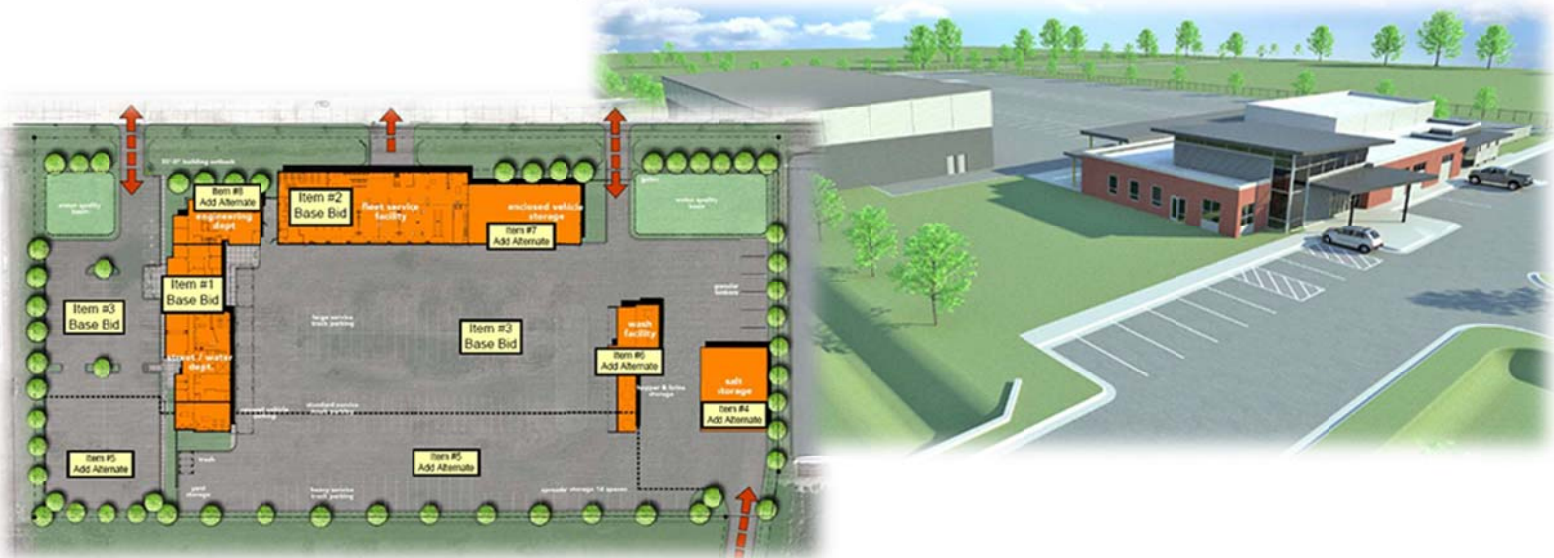
Department: Public Works – Administration

Location: TBD

Project Cost: \$12,330,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,330,000

Description and Justification: The existing Public Works Facility reached capacity in 2012 and needs to be relocated to a larger land space to accommodate the equipment and material storage needs for the ongoing growth of the City. A Public Works Facility preliminary design was underway when it was determined by the Board that a City Hall project would be prioritized ahead of it. The City Administrator directed staff to delay the Public Works replacement facility for 6 to 8 years and make minimal improvements and existing facility expansions for that timeline. Funds to acquire land, estimated at a cost of \$1,000,000 to \$1,400,000, are available from the annual general fund land acquisition funds of \$400,000 in 2017, 2018 and 2019 and up to \$200,000 from the Water Fund.

Anticipated Benefit: This investment will improve safety of operations, productivity and addresses NPDES permit compliance for all field operations. The investment improves productivity by adding mechanic bays and efficiency improvements for repair and maintenance of vehicles and equipment. The facility provides secure space for material and equipment storage for all Public Works divisions including Water and Wastewater Collections. The design includes larger protected salt storage bays and will contain heated storage for weather sensitive equipment and energy efficient lighting and HVAC.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$12,330,000	-	\$765,000	\$11,565,000	-	-

GENERAL LAND ACQUISITION

Fund: Capital

Department: Citywide

Location: TBD

Project Cost: \$2,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$2,000,000

Description and Justification: These funds will be earmarked to allow for future land acquisitions for parks, City facilities, development or any other public purpose. 2017, 2018 and 2019 funds will be used to acquire land for the new Public Works Facility, schedule for design in 2019 and construction in 2020.

Anticipated Benefit: This funding would be used to reserve funds for any future acquisition of land for public purpose when the opportunity arises. Reserving these funds for future use allows the City to proactively pursue lands that have been identified and to respond to unexpected opportunities that may arise.

FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$2,000,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000

STORMWATER MAINTENANCE RESERVE

Fund: Capital

Department: Public Works – Stormwater

Location: Citywide

Project Cost: \$500,000 | **Outside Funding:** \$-0- | **City Cost:** \$500,000

Description and Justification: Unlike most municipal counterparts, the City does not have a dedicated revenue source or maintenance reserve to meet the needs of operating, maintaining and improving an aged stormwater system. Without dedicated revenue, the scope or scale of work undertaken on the stormwater system is limited to small reactive projects rather than proactive maintenance. With an aged infrastructure system such as in Historic Downtown, the City needs to establish reserve funds such as in water, wastewater and transportation funds to ensure funds are available for repair or improvements to the system in the future. The stormwater reserve could be utilized for updates to the Master Plan, inspection and repair of aging infrastructure, large scale replacement and maintenance, as well as Board approved stormwater improvement projects.

Anticipated Benefit: Compliance with federal regulations, preservation of the existing system, reduced emergency repairs, improved functionality of the system and ability to develop capital improvements.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$500,000	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000

PEINE/P/HWY 61 INTERCHANGE COST SHARE

Fund: Transportation

Department: Administration

Location: Highway 61 Corridor from Wentzville Parkway to Peine Road

Project Cost: \$15,770,526 | **Outside Funding:** \$12,298,533 | **City Cost:** \$3,471,993
 \$14,770,525 Supplemental Cost Share Agreement with MoDOT 50%, St. Charles County 28%,
 City 22% in the amount of \$3,286,779
 Utility Credit - \$154,272
 Enhancements (100% City) - \$119,486 paid through 2017
 \$1,000,000 contingency in 2018 for unforeseen expenses (22% City) - \$220,000

Description: Construct interchange at Peine/P/61 to eliminate at-grade crossings as well as address additional at-grade crossings along the corridor.

Justification: To improve safety and efficiency of access to and from Highway 61 and to reduce the risk of severe T-bone accidents along the 61 corridor associated with the use of the at-grade intersections. Interchange will also improve access along Peine Road and promote additional development and growth while also improving access to Splash Station and many residential neighborhoods.

Anticipated Benefit: Reduction in fatal accidents and overall improved safety, improved access for residents and Splash Station, and facilitates growth.



FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$15,770,526	\$14,770,526	\$1,000,000	-	-	-	-
MoDOT	\$7,402,656	\$500,000	-	-	-	-
County	\$4,115,877	\$280,000	-			

HIGHWAY 61 OUTER ROAD DESIGN PHASE 2 AND 3

Fund: Transportation

Department: Administration

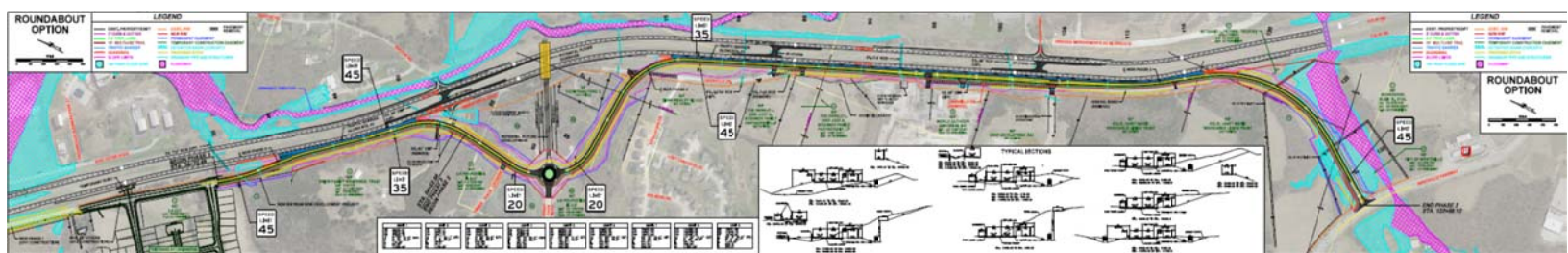
Location: West side of Highway 61 from Wentzville Parkway to Timber Trace

Project Cost: \$1,100,000 | **Outside Funding:** \$880,000 | **City Cost:** \$220,000
Cost Share with St. Charles County (80/20) - \$880,000

Description: Complete the final design for Phase 2 and 3 of a new Highway 61 Outer Road system that will link and connect Phase 1 at Peine Road back to Wentzville Parkway.

Justification: Once completed, the 2.5 miles of new roadway as well as sidewalk/trail will satisfy a key component of the City's Transportation Master Plan to create a transportation link to the heart of the City from the northern edge of the community. The priority of this project continues to rise with increasing traffic volumes along Highway 61 as well as the current safety improvements associated with the Peine P Interchange which will further reduce access. This project will improve safety along Highway 61 with a goal of further reducing accidents and congestion along the corridor. With the proactive completion of the Phase 2 and 3 Conceptual Study to evaluate the corridor, a full design is the next step to improve outside funding opportunities as well as reduce the timeframe for when a project could be implemented.

Anticipated Benefit: Improved access to the community for residents and business in the northern section of the City. Reduction in accidents and congestion along the Highway 61 corridor associated with traffic volume and at-grade access locations. Expanded opportunities for commercial and residential development.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$1,100,000	\$1,100,000	-	-	-	-
County	\$880,000	-	-	-	-

HIGHWAY N/PERRY CATE BLVD. SIGNAL

Fund: Transportation

Department: Administration

Location: Highway N at Perry Cate Blvd.

Project Cost: \$461,000 | **Outside Funding:** \$230,500 | **City Cost:** \$230,500
St. Charles County (50%) - \$230,500

Description: and Justification: This project will install a new traffic signal at the intersection of Missouri State Route N and Perry Cate Boulevard. This intersection experiences heavy congestion during peak periods due to the close proximity to three Wentzville Schools and a soon to be fourth. With approximately 14,000 vehicles traveling along Highway N each day the intersection meets volume warrant for a signal per a recent MoDOT study. This project will improve safety at the intersection while reducing congestion.

Anticipated Benefit: Improve motorist safety, reduce travel time and congestion.



FUNDING SCHEDULE

	PRIOR	2018	2019	2020	2021	2022
Total \$461,000	\$60,150	\$400,850	-	-	-	-
County	\$30,075	\$200,425	-	-	-	-

HISTORIC DOWNTOWN REVITALIZATION – SOUTH LINN AVE. MAIN TO W. FOURTH

Fund: Transportation

Department: Administration

Location: Downtown Linn Avenue from Main Street to West Fourth Street

Project Cost: \$812,950 | **Outside Funding:** \$442,950 | **City Cost:** \$370,000
Federal STP Funding - \$442,950

Description: Reconstruct downtown streets and sidewalks consistent with the Village Center Study.

Justification: Improve both vehicular and pedestrian traffic downtown while improving the aesthetic streetscape and promoting economic growth.

Anticipated Benefit: Improved travel, pedestrian accessibility, and promote redevelopment and growth.



FUNDING SCHEDULE

Total	PRIOR	2018	2019	2020	2021	2022
\$812,950	\$10,500	\$802,450	-	-	-	-
Outside Funding		\$442,950	-	-	-	-

Fund: Transportation
Department: Administration
Location: Historic Downtown

Location: Historic Downtown

Construction - \$2,500,000



HISTORIC DOWNTOWN REVITALIZATION – MAIN/PEARCE/MEYER/PITMAN CORRIDOR

Fund: Transportation

Department: Administration

Location: Historic Downtown

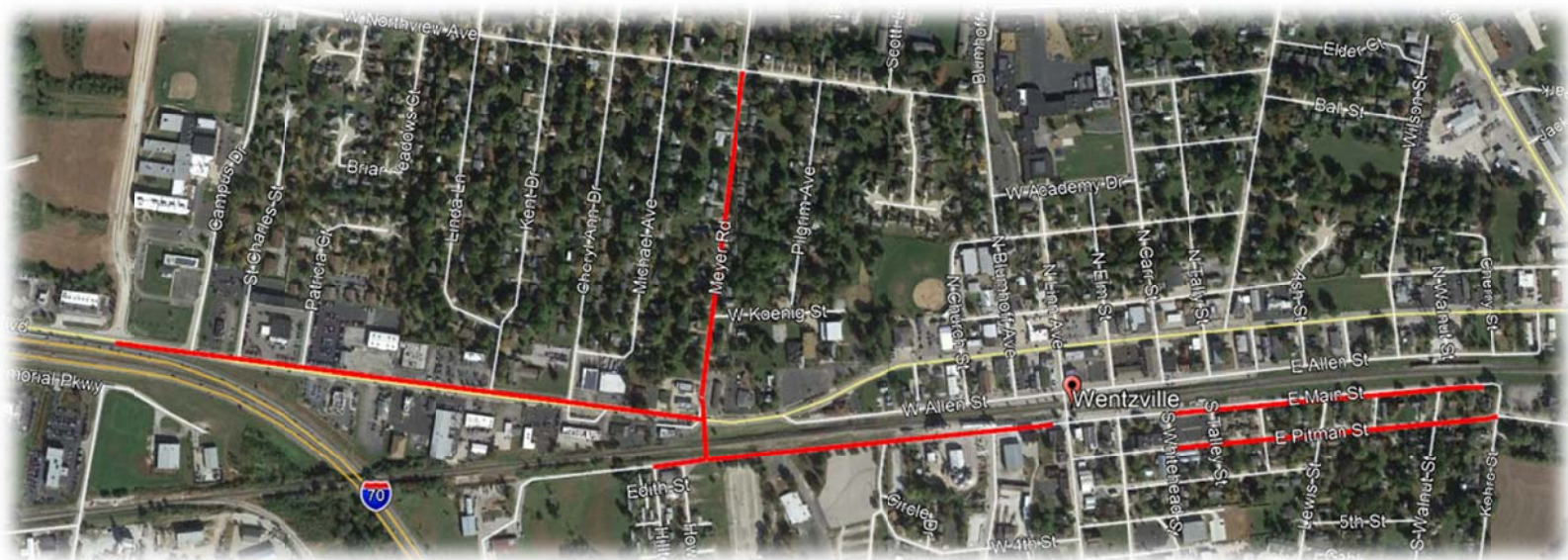
Project Cost: \$3,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,000,000

Pre-Construction - \$250,000

Construction - \$2,750,000

Description and Justification: Intersection improvements at W. Pearce and Meyer Road to include review of new at-grade railroad crossing to connect with Main Street via traffic signal or roundabout. This project may be eligible for partial CMAQ and/or Road Board funding and may require closure of lower quality at-grade railroad crossings at Hepperman and/or Wilmer Road after Wentzville Parkway South Extension is complete. This project pairs well with Mar Lee Drive redevelopment and future development of undeveloped parcels south of Pitman with potential for interstate access improvements at Pitman and Luetkenhaus under Envision I-70 planning by MoDOT. This cost estimate is for roundabout option at Meyer. There would be ROW and construction cost savings if constructed as traffic signal. Resurfacing work on Pearce to Schroeder Creek Blvd. may also be eligible for STP funding.

Anticipated Benefit: Improved accessibility, increased ADT and expanded parking and economic development opportunity for the Historic Downtown.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$3,000,000	\$250,000	\$500,000	\$750,000	\$750,000	\$750,000

WENTZVILLE PARKWAY TURN LANE – PHASE II

Fund: Transportation

Department: Administration

Location: Wentzville Parkway from Schroeder Creek Boulevard to Will Ron Drive

Project Cost: \$2,841,000 | **Outside Funding:** \$2,556,000 | **City Cost:** \$285,000

Planning and Engineering - \$206,000

Pre-Construction - \$375,000

Construction - \$2,260,000

Federal STP (50/50) - \$1,420,000 and Road Board (80/20) - \$1,136,000

Description: Construct pavement widening to allow for a center left turn lane similar to Phase I from William Dierberg Drive to Schroeder Creek Boulevard Project; will also include enhanced pedestrian facilities such as ADA ramps and a 10-foot wide, multi-use trail.

Justification: Project to correct existing safety and congestion issues as cars must currently stop in the through drive lane to yield to oncoming traffic before making a left turn. In a three-year period, 58 accidents occurred in this section of the Parkway. This project will meet the current need and will allow for future utilization of commercial property along the Parkway. The continued trail will also provide connectivity between Heartland and Progress parks.

Anticipated Benefit: Improved safety, reduced congestion, and improved travel time, while also providing capacity for future growth and pedestrian accessibility.



FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$2,841,000	\$206,000	\$375,000	\$2,260,000	-	-	-
Federal STP	\$103,000	\$187,000	\$1,130,000	-	-	-
County	\$82,400	\$149,600	\$904,000	-	-	-

WEST MEYER ROAD – PHASE III

Fund: Transportation

Department: Administration

Location: West Meyer Road from North Point Prairie Road to City Bridge West of Rotary Park

Project Cost: \$5,842,700 | **Outside Funding:** \$4,674,200 | **City Cost:** \$1,168,500

Planning and Engineering - \$535,200

Pre-Construction - \$300,000

Construction - \$5,007,500

Cost Share with St. Charles County (80/20) - \$4,674,200

Description: Complete reconstruction of West Meyer Road from North Point Prairie Road to City constructed bridge west of Rotary Park. Application for additional Federal funding assistance will be completed in spring of 2017 to reduce the overall fiscal impact to both the City and County. The participation percentage will be evaluated to provide the most competitive project possible.

Justification: Largest section has a PCI of 39 and there are currently no pedestrian facilities located along the road. This project would construct roadway with a PCI of 100 and a life expectancy of 30 to 40 years. The project would increase capacity for residential growth as well as large events at Rotary Park such as the County Fair. The project will also include sidewalks and a 10-foot wide pedestrian trail to provide connectivity from existing trail to Rotary Park.

Anticipated Benefit: Complete reconstruction of roadway will meet current needs, and add capacity for utilization of Rotary Park and to encourage both residential and commercial growth along the corridor. This project will lay the ground work for the David Hoekel Parkway project by creating an adequate east-west system to distribute traffic from the new I-70 Interchange.



FUNDING SCHEDULE

	PRIOR	2018	2019	2020	2021	2022
Total \$5,842,700	\$535,200	\$300,000	\$5,007,500	-	-	-
County	\$428,200	\$240,000	\$4,006,000	-	-	-

DAVID HOEKEL PARKWAY – PHASE 2ABC

Fund: Transportation

Department: Administration

Location: I-70 west of Point Prairie from Goodfellow to Interstate Drive

Project Cost: \$25,010,000 | **Outside Funding:** \$18,122,425 | **City Cost:** \$6,887,575

Design (2017) - \$1,695,000

Supplemental Design, ROW, Utilities, CE, Access Road Construction (2018) - \$7,085,000

Interchange Construction and Enhancements (2019) – \$16,230,000

Cost Share with St. Charles County - \$12,767,000

MoDOT Cost Share - \$5,000,000

Railroad Memoranda of Understanding (MOU) - \$355,425

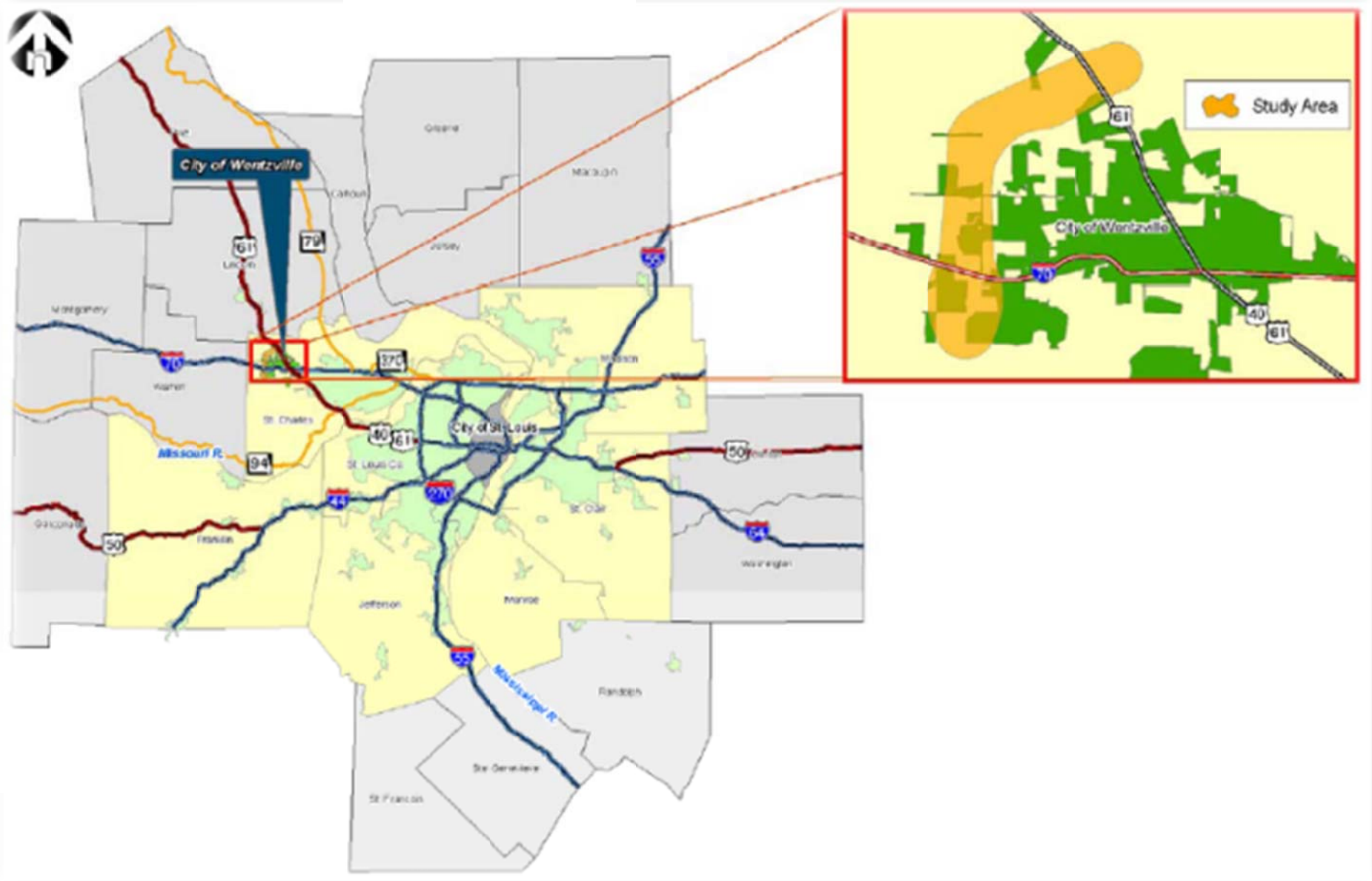
MoDOT Loan - \$5,000,000

Description and Justification: Construction of an interchange at I-70 and new roadways to connect from Interstate Drive to Goodfellow Road. This project provides a 4-ramp interchange at I-70 to mitigate congestion and improve safety by reducing peak hour traffic backups on I-70 and on Wentzville Parkway. The project consists of three phases: 2A – Realignment of North Outer Road, 2B – Interchange, and 2C – Roadway Extension to Interstate Drive.

Anticipated Benefit: This project will improve safety for drivers and open a new corridor for economic development while providing access to alternate travel routes to and from I-70, I-64/364 and Highway 61.

FUNDING SCHEDULE						
		DHP 2A and DHP 2B	DHP 2B and DHP 2C			
Total	PRIOR	2018	2019	2020	2021	2022
\$25,010,000	\$ 1,695,000	\$7,085,000	\$16,230,000	-	-	-
County	\$ 1,356,000	\$4,820,000	\$6,591,000	-	-	-
MoDOT Cost Share	-	\$2,500,000	\$2,500,000	-	-	-
Railroad MOU	-	-	\$355,425	-	-	-
MoDOT Loan	-	\$5,000,000	-	-	-	-
Full build out of Phase 2A, 2B and 2C is dependent upon ROW donations, award of 2017 County Road Board and MoDOT Cost Share applications and Railroad MOU as well as loan from MoDOT.						

DAVID HOEKEL PARKWAY – PHASE 2ABC



DAVID HOEKEL PARKWAY – PHASE 2D

Fund: Transportation

Department: Administration

Location: David Hoekel Parkway between Goodfellow Road and West Meyer

Project Cost: \$5,500,000 | **Outside Funding:** \$4,400,000 | **City Cost:** \$1,100,000

Planning and Engineering (2019) - \$500,000

Construction (2021) – \$5,000,000

Cost Share with St. Charles County (80/20) - \$4,400,000

Description and Justification: Construction of David Hoekel Parkway to complete the connection from Goodfellow Road to West Meyer Road. This section of roadway will provide greater connectivity for the community by providing access from I-70 to a major east west collector in West Meyer Road. This will connect the west side of Wentzville to Highway 61 and I-64 via Wentzville Parkway. The project will be designed to accommodate the eventual complete four-lane cross section. However, the initial construction will be planned only as a two-lane roadway based on current demand and budget constraints. The right of way necessary for this project has been acquired.

Anticipated Benefit: Improve safety for drivers as well as add an additional platform for commercial growth and development. This extension will better allow full utilization of the I-70 DHP Interchange by making connection with a major east west collector.



FUNDING SCHEDULE

	2018	2019	2020	2021	2022
Total \$5,500,000	-	\$500,000	-	\$5,000,000	-
County	-	\$400,000	-	\$4,400,000	-

HIGHWAY Z/I-70 INTERCHANGE IMPROVEMENTS

Fund: Transportation

Department: Administration

Location: I-70 Highway Z Interchange from Wagner to Interstate Drive

Project Cost: \$6,000,000 | **Outside Funding:** \$4,000,000 | **City Cost:** \$2,000,000

Planning and Engineering - \$500,000

Pre-Construction - \$100,000

Construction - \$5,400,000

Congestion Mitigation Air Quality (CMAQ) funding administered through EWGCOCG - \$2,000,000

St. Charles County - \$2,000,000

Description and Justification: Complete design and construction of improvements to alleviate congestion and delay as well as improve safety and access.

Anticipated Benefit: Improved access into the City for both residents and visitors, overall improvement in safety and reduction in delay and congestion.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$6,000,000	\$500,000	\$100,000	\$5,400,000	-	-
County	-	-	\$2,000,000	-	-
CMAQ	-	-	\$2,000,000	-	-

WENTZVILLE PARKWAY SOUTH – PHASE I

Fund: Transportation

Department: Administration

Location: Veterans Memorial Parkway to Interstate Drive

Project Cost: \$5,000,000 | **Outside Funding:** \$3,950,000 | **City Cost:** \$1,050,000

Planning and Engineering - \$5,000,000

Cost Share with St. Charles County - \$3,450,000

Congestion Mitigation Air Quality (CMAQ) funding administered through EWGCOGC - \$500,000

Description: Construct an extension of Wentzville Parkway south from the current terminus at Veterans Memorial Parkway to Interstate Drive.

Justification: Will provide a major north-south arterial for traffic flow, and will provide additional opportunities for commercial development.

Anticipated Benefit: Improved access and economic development.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$4,000,000	\$4,000,000	-	-	\$1,000,000	-
County	\$3,200,000	-	-	\$250,000	-
CMAQ	-	-	-	\$500,000	-

WEST PEARCE BLVD. – MAY ROAD TO GOODFELLOW ASPHALT OVERLAY

Fund: Transportation

Department: Streets

Location: West Pearce Boulevard

Project Cost: \$700,000 | **Outside Funding:** \$500,000 | **City Cost:** \$200,000
East West Gateway - \$500,000

Description: Two-inch mill and overlay of existing roadway approximately 8,000 feet long and 25 feet wide that coincides with upgrading conditions with completion of David Hoekel Parkway/I-70 Interchange.

Justification: Roadway is in need of normal maintenance; mill and overlay would improve condition of road and extend the serviceable life.

Anticipated Benefit: Improved ride quality and reduced annual maintenance costs while considerably extending the serviceable life of the roadway.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$700,000	-	-	-	\$70,000	\$630,000
Outside Funding	-	-	-	-	\$500,000

CONTRACTED STREET AND SIDEWALK MAINTENANCE – ASPHALT AND CONCRETE REPLACEMENT

Fund: Transportation

Department: Streets

Location: Citywide

Project Cost: \$12,000,000 | **Outside Funding:** \$-0- | **City Cost:** \$12,000,000

Description: Ongoing street and sidewalk maintenance based on PCI condition, as well as factors such as ADT and safety.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$12,000,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000	\$2,400,000

6 FT. X 10 FT. EQUIPMENT TRAILER

Fund: Capital

Department: Public Works – Streets and Signals

Location: Street Division

Project Cost: \$5,000 | **Outside Funding:** \$-0- | **City Cost:** \$5,000

Description: Purchase of a 6-foot x 10-foot equipment trailer.

Justification: This 6-foot x 10-foot equipment trailer will replace an outdated 1997 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and heavy use.

Anticipated Benefit: Increase reliability and reduce repair and maintenance costs.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$5,000	\$5,000	-	-	-	-

ONE-TON DUMP TRUCK WITH PLOW AND SPREADER

Fund: Capital

Department: Public Works – Stormwater and Streets and Signals

Location: Street Division

Project Cost: \$362,000 | **Outside Funding:** \$-0- | **City Cost:** \$362,000

Description: Purchase of a one-ton dump truck with plow and spreader.

Justification: Replacement trucks (#308, #316 and #317) for outdated models with high maintenance costs due to age and use. Addition of new one ton outfitted with plow and spreader for proposed Stormwater personnel in 2020.

Anticipated Benefit: Increase reliability, reduce repair and maintenance costs, and improve fuel economy.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$362,000	\$86,000	\$90,000	\$92,000	\$94,000	-

SCISSOR LIFT

Fund: Capital

Department: Public Works – Facility Operations

Project Cost: \$22,000 | **Outside Funding:** \$-0- | **City Cost:** \$22,000

Description and Justification: This lift will be utilized in the new City Hall and Law Enforcement Center for ceiling, lighting and window work performed by Facility Operations.

Anticipated Benefit: The City does not currently own a scissor lift and Facility Operations must rent or lease the equipment on a frequent basis as lighting and other high ceiling work becomes necessary.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$22,000	\$22,000	-	-	-	-

STORM SYSTEM INSPECTION CAMERA

Fund: Capital

Department: Public Works – Stormwater

Project Cost: \$39,000 | **Outside Funding:** \$-0- | **City Cost:** \$39,000

Description and Justification: Portable inspection camera, controller and related equipment to assess condition of larger storm pipe infrastructure. Currently borrow the Wastewater camera, however scheduling will become problematic and the truck-mounted camera cannot access remote areas.

Anticipated Benefit: Preventative maintenance program to better understand needs and priorities for long-term asset management and public concerns/response.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$39,000	\$39,000	-	-	-	-

GREEN LANTERN A/C REPLACEMENT

Fund: Capital

Department: Public Works – Administration

Project Cost: \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

Description and Justification: The existing unit has reached its serviceable life at 22 years old and is experiencing significant related repairs of more than \$7,000.

Anticipated Benefit: Improved reliability for Green Lantern users as well as reduced operating costs with installation of a newer, more efficient unit.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$20,000	\$20,000	-	-	-	-

DROP SPREADER FOR COMPACT UTILITY TRACTOR

Fund: Capital

Department: Public Works – Facility Operations

Project Cost: \$6,500 | **Outside Funding:** \$-0- | **City Cost:** \$6,500

Description: Drop spreader attachment for the compact utility tractor.

Justification: Drop spreader will help facilitate the removal of snow and ice from sidewalks and walkways during winter events. Mountable unit will improve efficiency and overall effectiveness.

Anticipated Benefit: Drop spreader will more effectively use salt reducing usage as well as damage to vegetation near walkways resulting from use of broadcast spreaders.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$6,500	-	-	\$6,500	-	-

PICKUP SALT V SPREADER

Fund: Capital

Department: Public Works – Facility Operations

Project Cost: \$8,500 | **Outside Funding:** \$-0- | **City Cost:** \$8,500

Description: Stainless Steel Pickup Mounted Salt V Spreader.

Justification: Stainless Steel V Pickup V spreader will replace small tailgate mounted spreader currently in use allowing for use of less-expensive rock salt versus bag salt, as well as increased capacity to improve efficiency when clearing snow and ice from parking lots in winter events. Spreader will also provide flexibility that the fully outfitted truck could be used for street snow removal if conditions demanded.

Anticipated Benefit: More efficient snow removal with reduction in time from additional salt capacity and reduced material cost by using rock salt rather than bag salt.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$8,500	-	-	\$8,500	-	-

HVAC MAINTENANCE VAN

Fund: Capital

Department: Public Works – Facility Operations

Project Cost: \$41,000 | **Outside Funding:** \$-0- | **City Cost:** \$41,000

Description and Justification: This van will replace a 2008 3/4-ton pickup with a vehicle better suited for the maintenance of HVAC equipment. The extra enclosed storage capacity will allow secure, safe storage of necessary tools as well as pipes and specialized holders for coolant transport.

Anticipated Benefit: Provide quicker response times by allowing HVAC tools and supplies to be stored in one location and improve safety by specializing method of transport.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$41,000	-	-	-	-	\$41,000

CONCRETE SAW

Fund: Capital

Department: Public Works – Streets & Signals

Project Cost: \$34,000 | **Outside Funding:** \$-0- | **City Cost:** \$34,000

Description and Justification: This concrete saw will replace an outdated model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by growing maintenance costs due to age and use. The service use this saw is heavy use cutting concrete slabs.

Anticipated Benefit: Reliability with a reduction in maintenance and repair cost.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$34,000	-	-	-	-	\$34,000

HYDRAULIC CONCRETE BREAKER

Fund: Capital

Department: Public Works – Streets & Signals

Project Cost: \$13,000 | **Outside Funding:** \$-0- | **City Cost:** \$13,000

Description and Justification: This hydraulic concrete breaker will replace an outdated model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by growing maintenance costs due to age and use. The service use of this breaker is heavy with extreme pressure and vibration.

Anticipated Benefit: Reliability with a reduction in maintenance and repair cost.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$13,000	-	-	-	-	\$13,000

VEHICLES

Fund: Capital

Department: Public Works – Stormwater, Engineering, Streets and Signals, Fleet, Facility Operations

Location: Public Works – Stormwater, Engineering, Streets and Signals, Fleet, Facility Operations

Description and Justification: Purchase of replacement vehicles due to age, mileage and ongoing maintenance costs. Replacement will improve reliability, safety and reduce the likelihood of repairs exceeding the vehicles' value.

Anticipated Benefit: Reliability, reduction in repair and maintenance costs, and improved fuel economy.

COLORADO CREW CAB 4x4 (Engineering)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$34,000	-	-	-	\$34,000	-

1/2-TON 4x4 PICKUP TRUCK (Engineering)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021(2)	2022
\$199,000	\$64,000	\$32,000	\$33,000	\$70,000	-

3/4-TON 4x4 PICKUP TRUCK (Streets and Signals, Fleet, Stormwater, Facility Operations)					
FUNDING SCHEDULE					
Total	2018 (3)	2019	2020	2021	2022
\$173,000	\$102,000	\$34,000	\$37,000	-	-

3/4-TON 4x4 SERVICE TRUCK (Fleet)					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$47,000	-	-	\$47,000	-	-

NEW PERSONNEL (Engineering/Stormwater)					
1/2 Ton 4x4 Extended Cab					
1/2 Ton 4x4 Crew Cab					
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$86,000	\$86,000	-	-	-	-

CHANGEABLE MESSAGE BOARD

Fund: Capital

Department: Transportation – Streets

Project Cost: \$86,000 | **Outside Funding:** \$-0- | **City Cost:** \$86,000

Description: Purchase of changeable message boards.

Justification: These changeable message boards will replace two, outdated 2007 models of like kind.

Anticipated Benefit: The anticipated benefit for the replacement of this equipment is greater safety measures for road projects, efficiency and flexibility. In addition these units are used City wide by other departments to advertise City events.

FUNDING SCHEDULE					
Total	2018	2019	2020 (2)	2021	2022
\$86,000	\$16,000	\$17,000	\$35,000	\$18,000	-

CRACK-SEALER MACHINE

Fund: Capital

Department: Transportation – Streets

Project Cost: \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

Description: Purchase of a crack-sealer machine.

Justification: Machine will replace an outdated 2002 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use.

Anticipated Benefit: The purchase of a new machine will increase reliability, reduce down time and maintenance cost as well as raise the efficiency of the crack seal operation throughout the City.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$60,000	\$60,000	-	-	-	-

SKID-STEER LOADER

Fund: Capital

Department: Transportation – Streets

Project Cost: \$119,000 | **Outside Funding:** \$-0- | **City Cost:** \$119,000

Description: Purchase of a skid-steer loader to replace the current machine.

Justification: Replace an outdated 2014 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by maintenance costs due to age and use.

Anticipated Benefit: This skid-steer loader is on a three year replacement cycle as it is the work horse of small equipment. In addition to standard loading, dumping and material moving, this equipment attaches to, and runs numerous attachments used for different situation of street work, such as fork-lift forks for moving pallets and materials, Concrete and Asphalt Breaker HB 980, Finish Grinder 24” high flow Planer for the removal of asphalt and concrete, and a new attachment which is the Rock Saw (included in this bid). These attachments exert enormous pressures/vibrations on the loader.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$119,000	\$56,000	-	-	\$63,000	-

SWEEPER

Fund: Capital

Department: Streets and Stormwater

Project Cost: \$324,000 | **Outside Funding:** \$-0- | **City Cost:** \$324,000

Description: Purchase of a sweeper.

Justification: This sweeper vehicle is considered severe duty. This sweeper will replace an outdated 2009 model of similar nature that exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use.

Anticipated Benefit: The City has placed all equipment on a regular replacement schedule. Equipment will be replaced after a fixed number of years, before it has the opportunity to become a financial drain. Street sweeping is an integral part of compliance with the City’s MS4 stormwater permit.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$324,000	-	\$324,000	-	-	-

SALT STORAGE FACILITY

Fund: Capital

Department: Transportation – Streets

Location: Street Division

Project Cost: \$180,000 | **Outside Funding:** \$-0- | **City Cost:** \$180,000

Description: Add additional salt storage capacity through construction of standalone structure. Utilize MoDOT Bid for modular block construction and fabric roof.

Justification: Add additional salt storage capacity of approximately 650 tons to current 1,100 tons. This covered storage would comply with state and federal regulations and allow the flexibility to order and have salt delivered during summer months when demand is low. The use of appropriate storage facility will also reduce waste as a result of exposure to the elements. Our long-range goal is to have enough onsite storage to make it through winter without supplementary deliveries.

Anticipated Benefit: Cost savings by allowing salt to be purchased and delivered during the off-season. Reduce risk of running out of salt during winter event, thereby improving motorist safety and accessibility.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$180,000	-	\$180,000	-	-	-

VIBRATORY ROLLER

Fund: Capital

Department: Transportation – Streets

Project Cost: \$48,000 | **Outside Funding:** \$-0- | **City Cost:** \$48,000

Description: Purchase of a vibratory roller.

Justification: Replacement of an outdated 2002 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by high-maintenance costs due to age and use.

Anticipated Benefit: A new vibratory roller machine will increase reliability, reduce down time and maintenance cost, and raise the efficiency of operations throughout the City.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$48,000	-	\$48,000	-	-	-

SINGLE-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Capital

Department: Transportation – Streets

Project Cost: \$648,000 | **Outside Funding:** \$-0- | **City Cost:** \$648,000

Description: Purchase of four (one per year) single-axle dump trucks with plow and spreader.

Justification: These dump trucks will replace three existing and one will be added to the fleet.

Anticipated Benefit: The addition of this vehicle allows for a more efficient snow removal operation. Trucks of this size are better equipped to handle large snow fall of 3 or more inches.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$648,000	-	\$153,000	\$160,000	\$165,000	\$170,000

TRACTOR WITH ROW MOWING ARM

Fund: Capital

Department: Transportation – Streets

Project Cost: \$145,000 | **Outside Funding:** \$-0- | **City Cost:** \$145,000

Description: Purchase of a tractor with ROW mowing arm.

Justification: Replace outdated 1997 model of similar nature that has been in service for many years, exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use.

Anticipated Benefit: The City has placed equipment on a regular replacement schedule. Equipment will be replaced after a fixed number of years, before it has the opportunity to become a financial drain. Naturally, vehicles wearing out before expected will be replaced prior to their schedule, and those remaining in good condition when replacement is otherwise scheduled will be retained for additional years. The City intends to adhere to the schedule in order to minimize long-term maintenance costs.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$145,000	-		-	\$145,000	-

TANDEM-AXLE DUMP TRUCK WITH PLOW AND SPREADER

Fund: Capital

Department: Transportation – Streets

Project Cost: \$190,000 | **Outside Funding:** \$-0- | **City Cost:** \$190,000

Description and Justification: Tandem-axle dump truck with plow and spreader. This dump truck will replace an outdated 2007 model that exhibits considerable wear and tear, and is accompanied by high maintenance costs due to age and use. Dump truck is a material hauler and snow plow vehicle, which is considered heavy duty.

Anticipated Benefit: All equipment is placed on a regular replacement schedule where it is replaced after a fixed number of years to maintain fleet reliability during emergency operations and to minimize out of service time and repair costs associated with heavy use of aged equipment. Tandem trucks are critical pieces of the street pavement repair and snow removal operations and must be replaced every 10 years to ensure availability during critical and emergency-response events.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$190,000	-	-	-	\$190,000	-

An abstract graphic design featuring three curved, overlapping bands at the bottom of the page. The top band is dark grey, the middle band is orange, and the bottom band is red. The word "Water" is written in white, bold, sans-serif font on the dark grey band.

Water

WATER

PROJECT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Water	2-Million Gallon Spheroid Tower	4,700,000	-	-	-	-	4,700,000
Water	1-MGD Water Well	1,900,000	-	-	2,200,000	-	4,100,000
Water	Land Acquisition for Public Works Facility	200,000	-	-	-	-	200,000
Water	Interior Inspect of East Booster Pump	200,000	-	-	-	-	200,000
Water	Coating Interior/Exterior Tower #1 Extend Fill Line to Top	-	550,000	-	-	-	550,000
Water	Coating Interior of 2 MG GM Ground Storage Tank	-	-	270,000	-	-	270,000
Water	Demo Tower #4, Vault Removal and Land Improvement	-	-	-	220,000	-	220,000
Water	Waterline Extensions and Replacement	520,000	570,000	330,000	980,000	715,000	3,115,000
TOTAL		7,520,000	1,120,000	600,000	3,400,000	715,000	13,355,000

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Water	1/2-Ton 4x4 Pickup Truck	27,000	-	-	-	-	27,000
Water	3/4-Ton 4x4 Pickup Truck	36,000	76,000	80,000	-	-	192,000
Water	Metrotech vLoc/9800 Locator	-	5,200	5,200	-	5,500	15,900
Water	Orion Meter Reading System	-	18,000	-	-	-	18,000
Water	Skid Loader	-	90,000	-	-	-	90,000
Water	Tandem-Axle Dump Truck w/Snow Removal Set-Up	-	178,000	-	-	-	178,000
Water	Hydraulic Hammer	-	-	-	15,000	-	15,000
Water	78" Rotary Cutter	-	-	-	15,000	-	15,000
Water	Backhoe	-	-	-	-	130,000	130,000
Water	Well Cargo Box Trailer	-	-	-	-	14,000	14,000
TOTAL		63,000	367,200	85,200	30,000	149,500	694,900

WATER

TOTAL PROJECTS AND EQUIPMENT						
	2018	2019	2020	2021	2022	Five Year Total
TOTAL	7,583,000	1,487,200	685,200	3,430,000	864,500	14,049,900

FUNDING SOURCE						
	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	63,000	367,200	85,200	30,000	149,500	694,900
Water Fund	7,520,000	1,120,000	600,000	3,400,000	715,000	13,155,000
TOTAL	7,583,000	1,487,200	685,200	3,430,000	864,500	14,049,900

TWO-MILLION GALLON SPHEROID TOWER

Fund: Water

Department: Water

Location: Schroeder Creek Blvd.

Project Cost: \$5,049,500 | **Outside Funding:** \$-0- | **City Cost:** \$5,049,500

Description: Construction of a two-million gallon water spheroid tower.

Justification: This tower is needed to meet the water storage needs and fire protection requirements for existing demand and anticipated future City growth. Current peak season demand is six to eight MGD and the City has 5.3 million gallons of storage. The new water tower will provide an additional 2 million gallons of elevated system storage, plus covers to loss of storage volume after the demolition of tower #4. The new tower will allow us to take other towers out of service for maintenance while still being able to provide adequate water pressure.

Anticipated Benefit: Maintains the City's ability to provide adequate water supply and pressure for both drinking water and fire protection and to keep up with growth demands.



FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$5,049,500	\$349,500	\$4,700,000	-	-	-	-

1-MGD WATER WELL(S)

Fund: Water

Department: Water

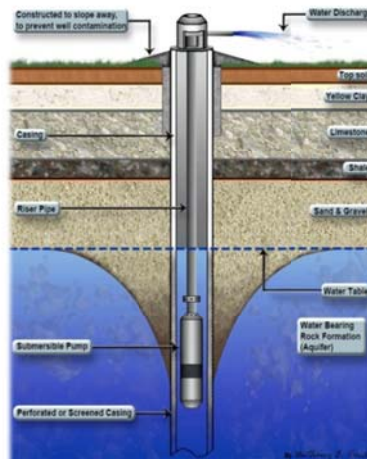
Location: Schroeder Creek Blvd.

Project Cost: \$4,370,500 | **Outside Funding:** \$-0- | **City Cost:** \$4,370,500

Description: Construct a new emergency drinking water well.

Justification: The construction of an emergency supply and peak demand operational wells will provide the City with a cost effective and reliable water supply during peak demand months and they will serve as a year-round emergency water source when PWDS #2 fails to meet the City's supply needs. The City has experienced water shortage or pressure loss conditions associated with the PWSD #2 supply system failures every year for the last four years. These source supply failures are the result of PWSD #2 operating with low transmission system redundancy and limited elevated storage capacity to serve their growing customer base in addition to Wentzville's expanding needs. This condition is particularly evident during peak summer season. The City's summer consumption during July, July and August is twice the winter consumption in January, February and March. The City sells up to eight million gallons on a hot and dry day. Without the introduction of two additional wells to support the peak summer demand, the City is at risk of experiencing an increasing number of extended water conservation and/or precautionary boil orders due to low pressure when the PWSD #2 tower, pumps or transmission mains need repair.

Anticipated Benefit: Stabilizes the City's ability to reliably provide adequate water supply for both drinking water and fire protection and to keep up with commercial, industrial and residential growth demands.



FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$4,370,500	\$270,500	\$1,900,000	-	-	\$2,200,000	-

INTERIOR INSPECT AND REPAIR OF EAST BOOSTER PUMP STATION

Fund: Water

Department: Water

Location: Edinger Road

Project Cost: \$200,000 | **Outside Funding:** \$-0- | **City Cost:** \$200,000

Description: Interior inspection of the underground station is recommended for 2018 in lieu of a planned design for above ground rebuild.

Justification: In order to confirm the integrity of the booster pump station and tank, an interior inspection is recommended.

Anticipated Benefit: A complete rebuild of the station could be delayed if the integrity is found to be satisfactory.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$200,000	\$200,000	-	-	-	-

COATING INTERIOR AND EXTERIOR OF TOWER #1 AND EXTEND FILL LINE TO TOP OF TANK

Fund: Water

Department: Water

Location: Medical Drive

Project Cost: \$550,000 | **Outside Funding:** \$-0- | **City Cost:** \$550,000

Description: Take water tower #1 out of service to extend fill line to the top of the tank and then prepare the interior and exterior of the tower for coating.

Justification: The fill line to the tower needs to be extended to the top of the bowl both to allow Chlorine contact time when we run an emergency well water supply to the this tower and to keep water fresh without needing turn over in the tank. Water towers need to be coated inside and out on a regular basis to protect the tower from corrosion and failure.

Anticipated Benefit: Making the investment to coat water towers on a regular as needed basis greatly extends the life of the City's tower infrastructure.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$550,000	-	\$550,000	-	-	-

COATING INTERIOR OF TWO-MILLION GAL GM GROUND STORAGE TANK

Fund: Water

Department: Water

Location: East Booster Station (Edinger Road)

Project Cost: \$270,000 | **Outside Funding:** \$-0- | **City Cost:** \$270,000

Description: Take the two-million gallon ground storage tank out of service and prep and paint; the interior floor, roof and walls of the tank.

Justification: Water tanks need to be re-coated inside and out on a regular as needed basis to protect the tower from corrosion and failure. At this time, only the interior needs to be coated.

Anticipated Benefit: Making the investment to coat water tanks on a regular as needed basis greatly extends the life of the City's tank infrastructure.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$270,000	-	-	\$270,000	-	-

DEMO TOWER #4, VAULT REMOVAL, AND LAND

Fund: Water

Department: Water

Location: 802 East Pearce Boulevard

Project Cost: \$220,000 | **Outside Funding:** \$-0- | **City Cost:** \$220,000

Description: Demo of Tower #4 located at 802 East Pearce Blvd. to include control valve vault removal and land improvement upon completion.

Justification: The 300,000 gallon tower is failing primarily due to coating issues. Re-coating this tower would cost more than demolition. In 2018, it is proposed that a new tower will be constructed as replacement.

Anticipated Benefit: Demo of this tower would remove a high maintenance tower from service, improving storage capacities and providing a more stable pressure and fire flow capabilities.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$220,000	-	-	-	\$220,000	-

WATERLINE EXTENSIONS AND REPLACEMENTS

Fund: Water

Department: Water

Location: City Wide

Project Cost: \$3,115,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,115,000

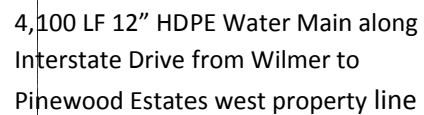
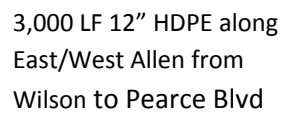
PROJECT DESCRIPTION					
YEAR	LOCATION	SIZE (IN)	LENTH (FT)	IN HOUSE WORK (Y/N)	COST (\$)
2018	E. Allen/W. Allen St.	12	3,000	Y	300,000
2018	Interstate Dr. from Wilmer to Pinewoods Estate partnership agreement	12	4,100	N	220,000
2019	4-inch Watermain Replacements	8	1,000	Y	100,000
2019	West Pearce Blvd. from Langtree to Shadow Pines	12	1,300	N	130,000
2019	West Pearce Blvd. from Langtree to North Point Prairie	12	2,500	N	250,000
2019	W. Main from Church to Howard partnership to upsize from 8 to 12	12	1,800	Y	90,000
2020	Boulder Ridge to Interstate Dr.	12	1,000	N	250,000
2020	Meyer from Northview to Wood Hollow	8	800	Y	80,000
2021	Parr St.	8	800	Y	130,000
2021	North Point Prairie to Albany partnership to upsize 8 to 16	16	8,000	N	600,000
2021	David Hoekel Parkway Phase 2 upsize 8 to 12 upsize	12	2,000	N	250,000
2022	Wall St.	8	1,900	Y	190,000
2022	W. Pearce from Allen to Schroeder Creek	16	3,500	N	525,000

Justification: Projects include replacement and upsizing of deteriorated water main sections and completing transmission main system loops to increase pressure and fire flow capability while reducing maintenance cost and system repair downtime. By utilizing City staff to complete several of these projects, waterlines can be installed at a lower cost than hiring a contractor. Factoring in the cost of the additional staff and equipment needed to complete these projects, savings may exceed \$500,000 in the next five years.

Anticipated Benefit: Water line projects will reduce maintenance cost, water outages, precautionary boil advisories while greatly increasing pressures and fire flow capabilities.

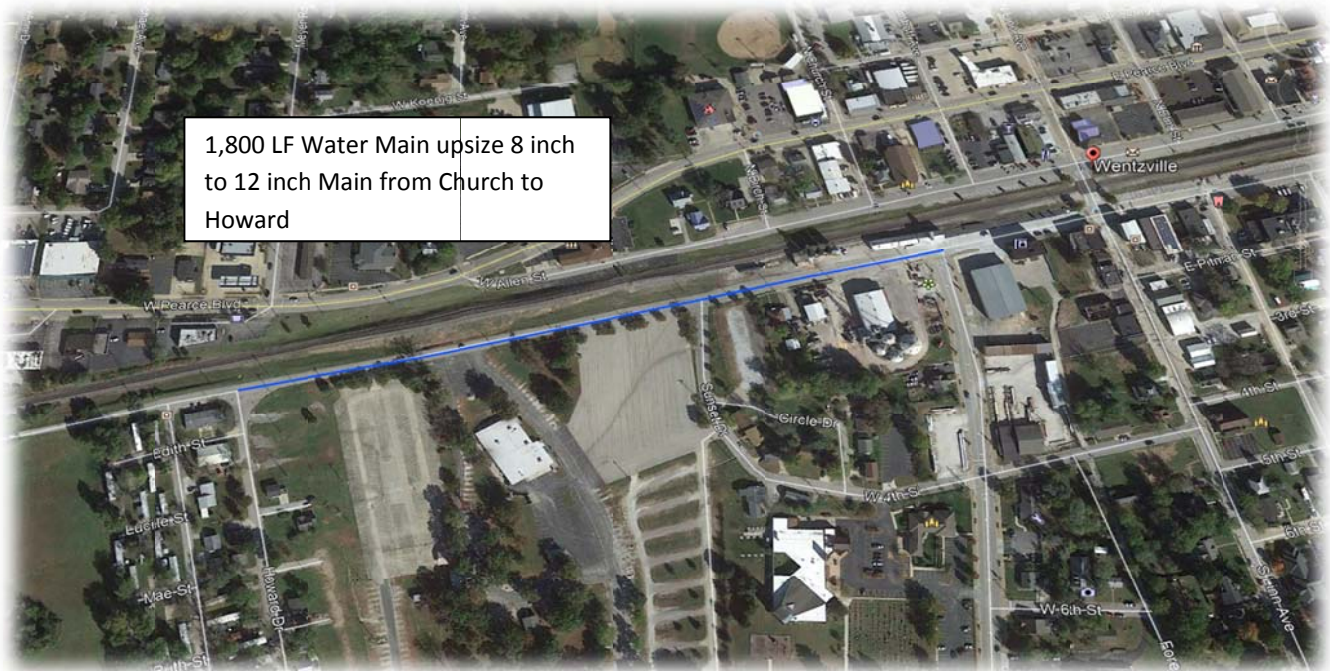
FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$3,115,000	\$520,000	\$570,000	\$330,000	\$980,000	\$715,000

2018



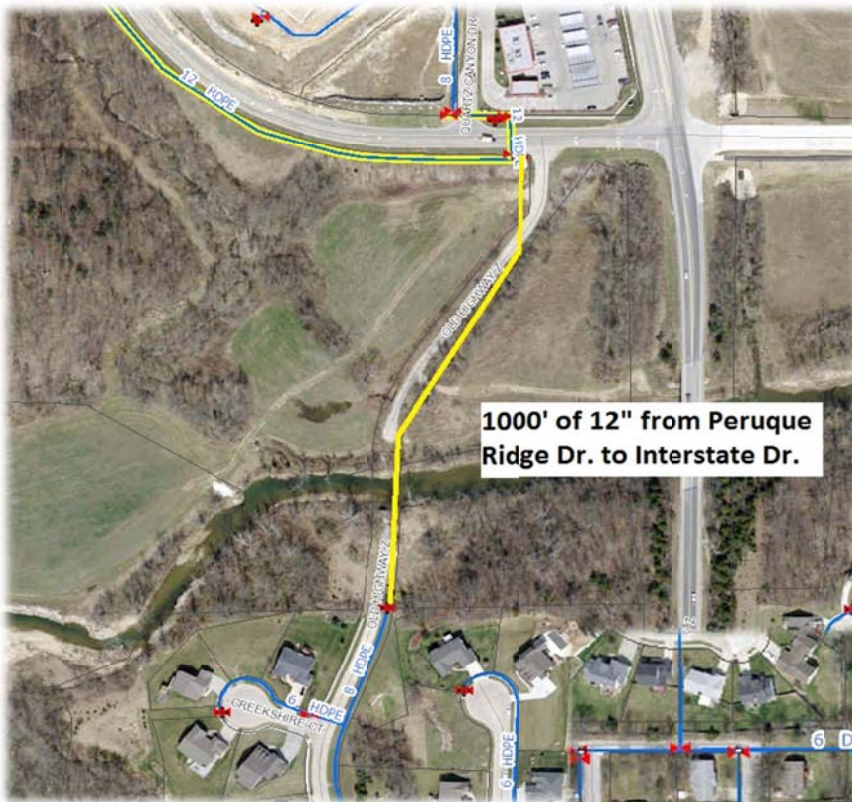
WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2019



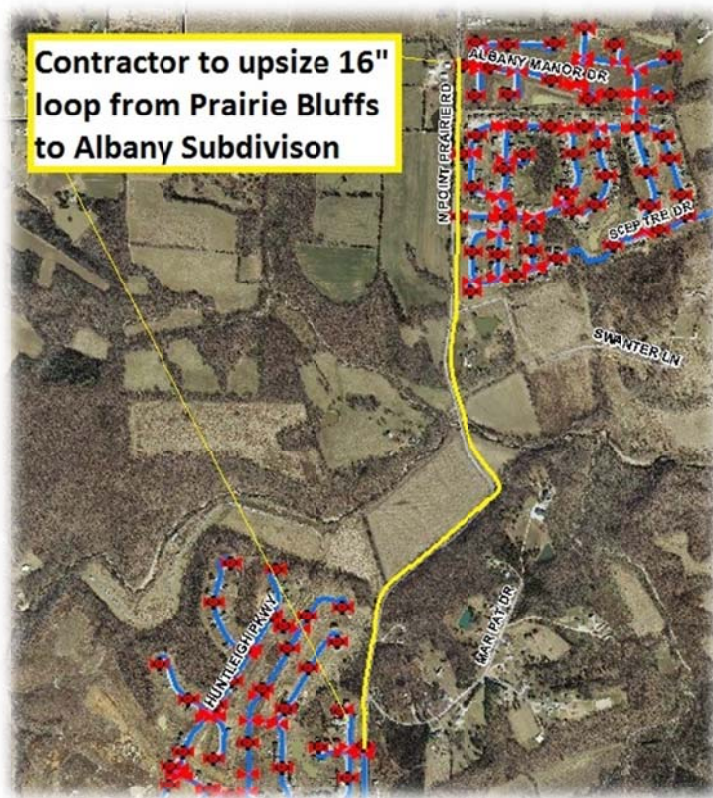
WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2020



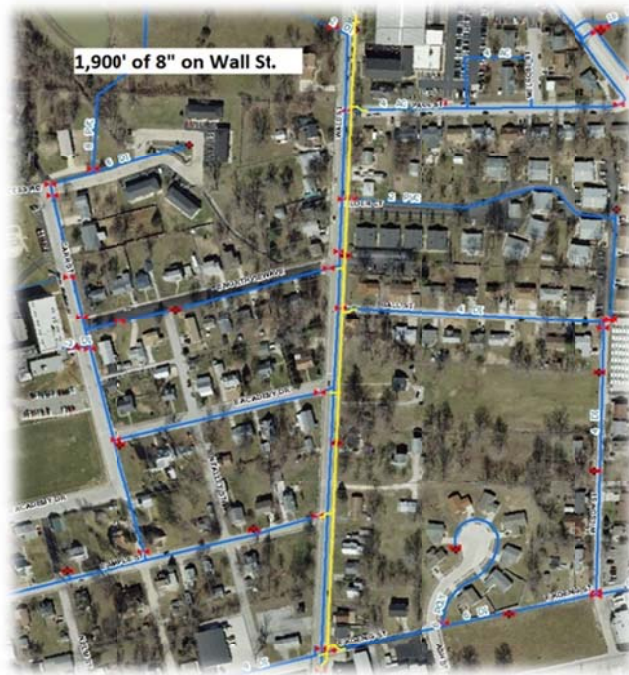
WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2021



WATERLINE EXTENSIONS AND REPLACEMENTS MAPS

2022



4X4 PICKUP TRUCK

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$219,000 | **Outside Funding:** \$-0- | **City Cost:** \$219,000

Description: 1/2-ton 4x4 pickup used for Locator, Meter Reader, Service positions.
3/4-ton 4x4 pickup Truck used to conduct heavy duty field operations.

- 2018: 1/2-ton 4x4 pickup truck (1) and 3/4-ton 4x4 pickup truck (1)
- 2019: 3/4-ton 4x4 pickup trucks (2)
- 2020: 3/4-ton 4x4 pickup trucks (2)

Justification: 3/4 ton trucks will be used to conduct field and emergency heavy-duty operations and will need to have electric brake controller, HD class V hitch, and emergency LED lights added to the truck for a cost of \$930 each. Half-ton trucks were introduced in 2015 to reduce fleet costs while serving the light-duty needs of the division such as the meter reader and locator. These trucks will double as runner trucks during field operations or emergency repairs. Half-ton trucks need to have LED emergency lights added for a cost of \$350 each.

Anticipated Benefit: Water is in need of additional vehicles due to recent addition of positions, so we are extending our vehicle replacement cycle from 10-year average age to 12-year average age, in an effort to reduce cost of increasing our fleet size while maintaining a reliable fleet to keep Water Operations running smoothly.



FUNDING SCHEDULE					
	2018	2019	2020	2021	2022
1/2-Ton 4x4 Pickup	\$27,000	-	-	-	-
3/4-Ton 4x4 Pickup	\$36,000	\$76,000	\$80,000	-	-
TOTAL	\$63,000	\$76,000	\$80,000	-	-

METROTECH VLOC/9800 LOCATOR

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$15,900 | **Outside Funding:** \$-0- | **City Cost:** \$15,900

Description: Metrotech v/Loc 9800 locator used for locating water and sewer mains for Missouri One Call.

Justification: Locators are on a five-year replacement plan.

Anticipated Benefit: Cycling out locators at five years keeps the City up to date on the utility-locating technology to protect the water and sewer mains from damage.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,900	-	\$5,200	\$5,200	-	\$5,500

ORION METER READING SYSTEM

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$18,000 | **Outside Funding:** \$-0- | **City Cost:** \$18,000

Description: Orion meter reading system is used for reading meters monthly for water /sewer utilities.

Justification: Orion meter reading system is on a five-year replacement program.

Anticipated Benefit: Cycling the reading system out will assure the computer and software stays current and up to date on technology.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$18,000	-	\$18,000	-	-	-

SKID LOADER

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$90,000 | **Outside Funding:** \$-0- | **City Cost:** \$90,000

Description: Replacement of worn CT332 Skid Loader.

Justification: This piece of equipment was purchased by the City in 2009. This machine has had power issues for the type of work we use it for. It is recommended that it be upsized when replaced. It is important to keep reliable equipment in order to minimize the risk of failures during emergencies.

Anticipated Benefit: Allows us to maintain the highest level of service to our residents when having a new, reliable piece of equipment on a water repair.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$90,000	-	\$90,000	-	-	-

TANDEM-AXLE DUMP TRUCK W/SNOW REMOVAL SET-UP

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$178,000 | **Outside Funding:** \$-0- | **City Cost:** \$178,000

Description and Justification: The Water Division currently relies on borrowing tandem-axle dump trucks from the Street Division to perform emergency water outages or main installation projects. Having a tandem axle would save the amount of trips needed to haul off spoil dirt in comparisons to a single-axle. The truck would also be outfitted with a snow plow and salt spreader which would add a vehicle to the snow fighting fleet and help assist the Street Division in snow removal.

Anticipated Benefit: More efficient water repairs and replacement projects in addition to adding a snow removal vehicle to the fleet.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$178,000	-	\$178,000	-	-	-

HYDRAULIC HAMMER

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

Description: Replacement of hydraulic hammer attachment with adapter plates.

Justification: Hammer attachment is used to break pavement to make emergency and routine repairs located in the street, driveway or sidewalk.

Anticipated Benefit: Allows the Water Department to maintain reliable construction equipment to reduce the time and cost during emergency repairs and waterline construction projects.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,000	-	-	-	\$15,000	-

78" ROTARY CUTTER

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$15,000 | **Outside Funding:** \$-0- | **City Cost:** \$15,000

Description: Replacement of 78" rotary cutter attachment for the skid loader.

Justification: This attachment is used to cut brush on utility easements. It is important to perform regular easement maintenance to ensure the Water Department can gain access during emergency repairs to water and wastewater systems.

Anticipated Benefit: Allows the Water Department to maintain reliable easement maintenance equipment to reduce the time and cost during emergency repairs and waterline construction projects that require vegetation clearing.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$15,000	-	-	-	\$15,000	-

BACKHOE

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$130,000 | **Outside Funding:** \$-0- | **City Cost:** \$130,000

Description and Justification: A new backhoe in 2022 would replace the current 2012 backhoe that has 2,180 hours on it and is projected to have over 4,000 hours by 2022. A new backhoe would ensure reliable equipment with minimum maintenance costs and minimize the risk of failures during emergencies. It will also keep production high during projects such as waterline extensions and replacements.

Anticipated Benefit: Allows the Water Division to maintain the highest level of service to Wentzville residents while having a new reliable piece of equipment on a project or emergency water repair.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$130,000	-	-	-	-	\$130,000

WELLS CARGO BOX TRAILER

Fund: Capital

Department: Water

Location: Citywide

Project Cost: \$14,000 | **Outside Funding:** \$-0- | **City Cost:** \$14,000

Description and Justification: A replacement box trailer for the fusion machine in 2022 would ensure proper transportation and protection for the HDPE butt fusion machine and its accessories. The current box trailer was built in 2004 and is too small for what it is being used for now with the purchase of the fusion machine. The current trailer was used by wastewater for their camera system and is starting to show wear from loading and unloading the fusion machine into it.

Anticipated Benefit: Allows the Water Division to maintain the highest level of service to Wentzville residents while having a new reliable and secure trailer for the HDPE butt fusion machine and its accessories on projects or emergency water repairs.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$14,000	-	-	-	-	\$14,000

The bottom of the page features three overlapping curved bands. The top band is dark grey, the middle band is orange, and the bottom band is red. The word 'Wastewater' is written in white on the dark grey band.

Wastewater

WASTEWATER

PROJECT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Wastewater	MSP Lift Station Replacement	1,020,000	-	-	-	-	1,020,000
Wastewater	Highway P Lift Station Sluice Gate	170,000	-	-	-	-	170,000
Wastewater	Land Acquisition for Bio-Solids Land Application	250,000	-	-	-	-	250,000
Wastewater	Legion Lift Station	463,500	-	-	-	-	463,500
Wastewater	Norfolk and Southern Lift Station	523,500	-	-	-	-	523,500
Wastewater	Treatment Unit No. 2 Restoration	100,000	-	-	-	-	100,000
Wastewater	Treatment Unit No. 5 Anoxic Zone Conversion	60,000	40,000	-	-	-	100,000
Wastewater	Bubbling Springs II Utility/Storm/Creek Bank Stabilization	-	150,000	-	-	-	150,000
Wastewater	Equipment Storage Building	-	255,000	-	-	-	255,000
Wastewater	St. Lukes Lift Station	-	300,000	-	-	-	300,000
Wastewater	East Lift Station Replacement	-	113,000	750,000	-	-	863,000
Wastewater	Bio-Solids Building Expansion	-	420,000	2,880,000	-	-	3,300,000
Wastewater	Reclamation Center Expansion Design and Construction	-	800,000	-	8,700,000	-	9,500,000
Wastewater	GM Force Main Inspect/Repair	-	-	-	20,000	-	20,000
TOTAL		2,587,000	2,078,000	3,630,000	8,720,000	-	17,015,000

WASTEWATER

EQUIPMENT							
Department	Description	2018	2019	2020	2021	2022	Five Year Total
Wastewater	Trailer	14,000	-	-	-	-	14,000
Wastewater	Lift Flow Meters	12,000	12,000	12,000	-	-	36,000
Wastewater	Portable Generator	110,000	-	-	115,000	-	225,000
Wastewater	Crane Truck	-	-	86,000	-	-	86,000
Wastewater	Skid Loader	-	-	60,000	-	-	60,000
Wastewater	Sewer Jet Trailer	-	-	-	-	80,000	80,000
Wastewater	¾-Ton 4x4 Pickup Truck	36,000	38,000	40,000	42,000	44,000	200,000
Wastewater	Portable Generator Transfer Switches	60,000	60,000	60,000	60,000	60,000	300,000
Wastewater	Lift Station Spare Pumps, VFDs and Replacement	108,000	112,000	245,000	104,000	121,500	690,500
TOTAL		340,000	222,000	503,000	321,000	305,500	1,691,500

TOTAL PROJECTS AND EQUIPMENT						
	2018	2019	2020	2021	2022	Five Year Total
TOTAL	2,927,000	2,300,000	4,133,000	9,041,000	305,500	18,706,500

FUNDING SOURCE						
	2018	2019	2020	2021	2022	Five Year Total
Capital Fund	232,000	110,000	258,000	217,000	184,000	1,001,000
Wastewater Fund	2,695,000	2,190,000	3,875,000	1,824,000	121,500	10,705,500
Bond Issuance – State Revolving Fund	-	-	-	7,000,000	-	7,000,000
TOTAL	2,927,000	2,300,000	4,133,000	9,041,000	305,500	18,706,500

MSP LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 2355 Mette Rd.

Project Cost: \$1,141,000 | **Outside Funding:** \$-0- | **City Cost:** \$1,141,000

Description: MSP lift station is 36 years old. With more flow and repair and operating costs, the lift station has exceeded its useful life and is undersized for future flows.

Justification: As identified in the Wastewater Collection System Master Plan, the lift station has exceeded its useful life and a new station is needed to provide capacity for future flows as well as to improve operator safety and add redundancy.

Anticipated Benefit: More efficient system for pumping system, increased reliability versus a 40-year old deteriorating panel.



FUNDING SCHEDULE						
Total	PRIOR	2018	2019	2020	2021	2022
\$1,141,000	\$121,000	\$1,020,000	-	-	-	-

HIGHWAY P LIFT STATION SLUICE GATE

Fund: Wastewater

Department: Wastewater

Location: Highway P Lift Station

Project Cost: \$170,000 | **Outside Funding:** \$-0- | **City Cost:** \$170,000

Description: Install sluice gate to control high flow events and direct flows as needed between the MSP and Highway P Lift Stations.

Justification: Sluice gate is needed to control and divert high flows during wet weather events at the main pump station and Highway P Lift.

Anticipated Benefit: Currently entering a confined space to set sand bags for high flow events. New sluice gate will improve ability to control flows and safety of operators by eliminating the need to perform and entry to adjust levels.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$170,000	\$170,000	-	-	-	-

LAND ACQUISITION FOR BIO-SOLIDS LAND APPLICATION

Fund: Wastewater
Department: Wastewater
Location: TBD

Project Cost: \$250,000 | **Outside Funding:** \$-0- | **City Cost:** \$250,000

Description and Justification: Acquire additional property for wet and dry bio-solids land application in preparation of increased removal demand and potential loss of shared crop field locations in the future.

Anticipated Benefit: To prevent expensive contracted removal expenses, maintain compliance with Current NPDES Permit and avoid MODNR and EPA violations.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$250,000	\$250,000	-	-	-	-

LEGION LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 506 Luetkenhaus Blvd.

Project Cost: \$463,500 | **Outside Funding:** \$-0- | **City Cost:** \$463,500

Description and Justification: Replacement of Legion Lift Station and control panel due to age, condition, and pumping capacity, in an effort to provide adequate service to the related sewer shed in lieu of the US 61 gravity main project per the Wastewater Master Plan.

Anticipated Benefit: This type of Lift Station is proposed for safety, uniformity, ease of maintenance, and life cycle costs. It will also increase flow capability, reliability, and operability at this location.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$463,500	\$463,500	-	-	-	-

NORFOLK AND SOUTHERN LIFT STATION

Fund: Wastewater
Department: Wastewater
Location: 101 Edinger Rd.

Project Cost: \$523,500 | **Outside Funding:** \$-0- | **City Cost:** \$523,500

Description and Justification: Replace Smith and loveless Lift Station (35 years old). Lift Station frame (can unit) has deteriorated to the point replacement is required. Station was constructed in 1981. The lift station will be replaced with the City design standard submersible pump lift station.

Anticipated Benefit: This type of station is proposed for safety, uniformity, ease of maintenance, and life cycle costs.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$523,500	\$523,500	-	-	-	-

TREATMENT UNIT NO. 2 RESTORATION

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

Project Cost: \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000

Description and Justification: Restore Unit 2 to design in 2018 to increase plant capacity, improve treatment and prevent advanced sludge age, elevated solids concentrations, poor settling and foaming.

Anticipated Benefit: To maintain compliance with Current NPDES Permit and avoid MODNR and EPA violations.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$100,000	\$100,000	-	-	-	-

TREATMENT UNIT NO. 5 ANOXIC ZONE CONVERSION

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

Project Cost: \$100,000 | **Outside Funding:** \$-0- | **City Cost:** \$100,000

Description and Justification: Upgrade Unit 5 Aeration Basin Anoxic Zone to design in 2018 and addition backup in 2019 to improve circulation and eliminate anaerobic conditions, advanced sludge age, elevated solids concentrations, poor settling and foaming.

Anticipated Benefit: To maintain compliance with Current NPDES Permit and avoid MODNR and EPA violations.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$100,000	\$60,000	\$40,000	-	-	-

BUBBLING SPRINGS II UTILITY/STORM/CREEK BANK STABILIZATION

Fund: Wastewater
Department: Wastewater
Location: Spring Meadows

Project Cost: \$150,000 | **Outside Funding:** \$-0- | **City Cost:** \$150,000

Description: Sanitary and storm utilities re-grading, composite revetment and bio-stabilization, boulder grade controls, sanitary sewer concrete cap, and property-easement restoration.

Justification: To provide grade and stream bank control in order to stabilize storm and sanitary infrastructure and prevent damage, which could contaminate the creek with pollutants.

Anticipated Benefit: Protect public health and prevent compliance and liability issues. Avoid DNR and EPA fines.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$150,000	-	\$150,000	-	-	-

EQUIPMENT STORAGE BUILDING

Fund: Wastewater

Department: Wastewater

Location: 2355 Mette Rd.

Project Cost: \$255,000 | **Outside Funding:** \$-0- | **City Cost:** \$255,000

Description: Building for housing equipment and large pumps. This would be a 24' x 50' metal building.

Justification: The building houses a tractor and disc for land application, tractor, brush hog and large pumps for lift stations.

Anticipated Benefit: The building will provide heated protection and storage of essential equipment that fails in freezing temperatures such as block heaters, water tanks, pumps, etc.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$255,000	-	\$255,000	-	-	-

ST. LUKES LIFT STATION

Fund: Wastewater

Department: Wastewater

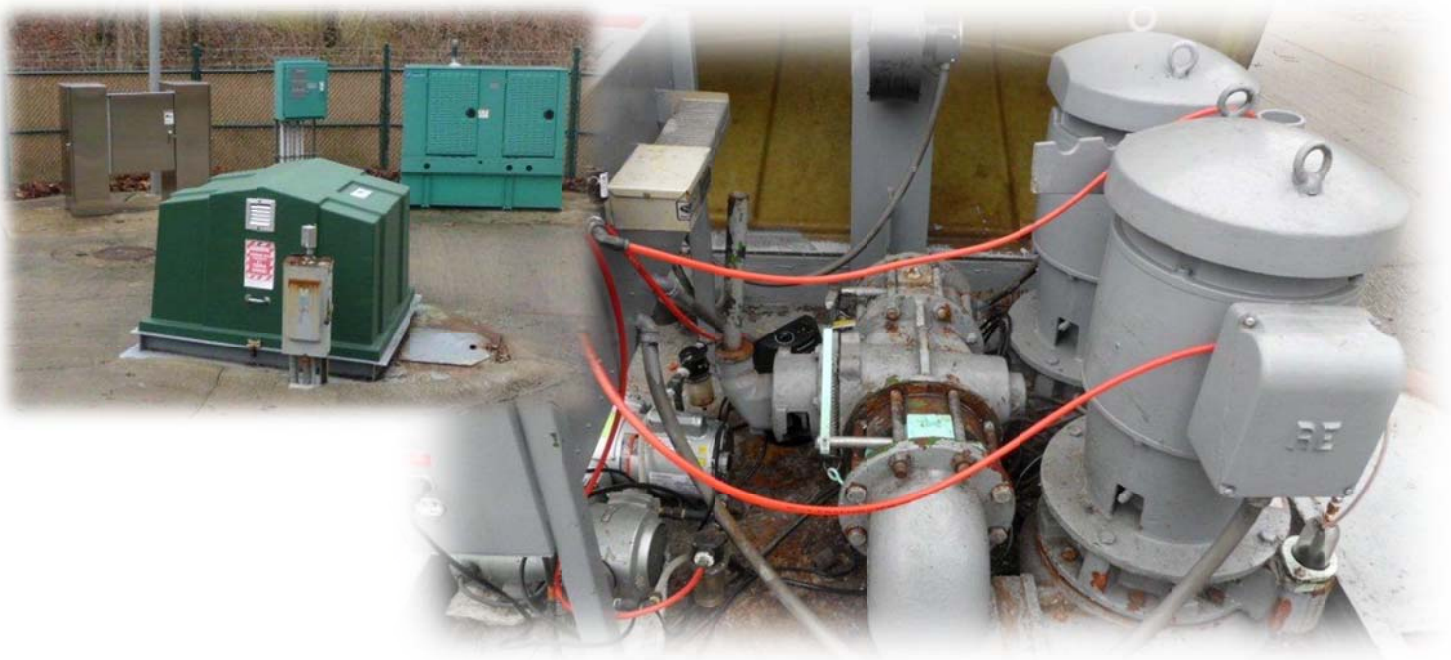
Location: St. Luke's Lift Station

Project Cost: \$300,000 | **Outside Funding:** \$-0- | **City Cost:** \$300,000

Description: Replace Smith and Loveless Lift Station (34 years old in 2019). Lift station frame (can unit) has deteriorated to the point replacement is required. Note: Station was constructed in 1985. Station will be replaced with a new wet well and valve vault and removal of existing Smith and Loveless station, while incorporating the existing 10-year old control panel, transfer switch, and generator to minimize costs.

Justification: Replacement of the current station is needed due to age (34 years) of this type of station. Current condition of station makes extensive rehabilitation unfeasible.

Anticipated Benefit: New station will provide increased safety and reliability as well as increased pumping efficiency. Station will be re-engineered to conform to new service area and to better address the flow requirements of new subdivisions and the Quail Ridge Park Lift Station. New station will be constructed to conform to existing submersible station City specifications.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$300,000	-	\$300,000	-	-	-

EAST LIFT STATION REPLACEMENT

Fund: Wastewater

Department: Wastewater

Location: 1520 E. Pitman Avenue

Project Cost: \$863,000 | **Outside Funding:** \$-0- | **City Cost:** \$863,000

Planning/Engineering - \$113,000

Construction - \$750,000

Description: This is a replacement of a 1977 lift station that runs inefficiently and has safety issues. Project will replace 37-year-old, dry-well lift station with submersible pumps and controls and reroute that station's force main to discharge a manhole on Edinger Road. The concrete wet well at this station is showing high deterioration from the hydrogen sulfide (H₂S). The Engineering Division recommends replacement with the addition of an eight-hour retention tank.

Justification: The lift station will be replaced with the City Design Standard submersible pump lift station. This type of lift station is proposed for safety, uniformity, ease of maintenance and lift-cycle costs.

Anticipated Benefit: More efficient system for pumping system, increased reliability and operation redundancies needed to ensure continuous operation of this lift station.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$863,000	-	\$113,000	\$750,000	-	-

BIO-SOLIDS BUILDING EXPANSION

Fund: Wastewater

Department: Wastewater

Location: Wastewater – Water Reclamation Center

Project Cost: \$3,300,000 | **Outside Funding:** \$-0- | **City Cost:** \$3,300,000

Description and Justification: For the rehabilitation of the Bio-Solids Building, the installation of new bio-solids dewatering equipment and the construction of additional storage

Anticipated Benefit: To maintain compliance with Current NPDES Permit and avoid MODNR and EPA violations.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$3,300,000	-	\$420,000	\$2,880,000	-	-

RECLAMATION CENTER EXPANSION

Fund: Wastewater

Department: Wastewater

Location: 2455 Mette Rd.

Project Cost: \$9,500,000 | **Outside Funding:** \$-0- | **City Cost:** \$9,500,000

Planning/Engineering - \$800,000

Construction (2021) - \$8,700,000

State Revolving Fund Loan - \$7,000,000

Description: Treatment Plant Expansion Phase Three Addition of needed additional; treatment unit(s), clarifier(s), bio-solids storage and processing equipment, and an all-weather bridge access across McCoy Creek.

Justification: Expansion will be needed in this timeframe to address continued rapid residential and commercial growth throughout the City.

Anticipated Benefit: City will maintain compliance with current NPDES permit and reclamation center will be sized appropriately to accept future growth and development.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$9,500,000	-	\$800,000	-	\$8,700,000	-
State Revolving Fund Loan	-	-	-	\$7,000,000	-

GM LIFT FORCE MAIN INSPECT/REPAIR

Fund: Wastewater

Department: Wastewater

Location: GM Lift Station

Project Cost: \$20,000 | **Outside Funding:** \$-0- | **City Cost:** \$20,000

Description: Inspect the General Motors lift station with thickness testing at five areas of interest as identified in the Wastewater Master Plan study.

Justification: The 35-year-old force main was recently evaluated using smart ball technology to look for wall stress and leaks. No leaks were detected during the force main investigation. However, there were five areas of interest where it was recommended that wall thickness tests be performed.

Anticipated Benefit: Performing the investigation will assist in verifying pipe condition in areas identified in the Wastewater Master Plan with the overall goal of providing uninterrupted wastewater service at the GM Assembly Center.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$20,000	-	-	-	\$20,000	-

TRAILER

Fund: Capital

Department: Wastewater

Location: Wastewater – Reclamation Center

Project Cost: \$14,000 | **Outside Funding:** \$-0- | **City Cost:** \$14,000

Description: Replace, update and outfit old sewer camera trailer with confined space entry equipment, safety equipment and tools and supplies needed to more quickly respond to various Wastewater emergencies Citywide.

Justification: Replacement trailer will be needed due to age of existing trailer in 5-7 years on 15-year replacement cycle.

Anticipated Benefit: Benefits to the City include reducing response times for emergency repairs, and reducing time required to load and unload vehicles with a variety of supplies, tools and materials for each emergency. In addition, the trailer will be equipped with a 5-10 kW generator to facilitate emergency repairs.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$14,000	\$14,000	-	-	-	-

LIFT FLOW METERS

Fund: Capital

Department: Wastewater

Location: Golf Club West, Golf Club East and Dove Meadows #1 Lift Stations

Project Cost: \$36,000 | **Outside Funding:** \$-0- | **City Cost:** \$36,000

Description: Flow meter installation and programming at all large flow stations to remotely monitor flows and potential inflow and infiltration from the receiving sewers upstream of the lift station.

Justification: Remote real-time monitoring of flows via meter and SCADA system at several large stations Citywide will enable Collections Division staff to more effectively monitor storm-related flows and daily normal flows and address concerns, as well as help to monitor and troubleshoot potential issues.

Anticipated Benefit: These meters will allow personnel to address flow concerns and help to monitor and troubleshoot potential issues with pumps and controls, in an effort to reduce inflow and infiltration, improve efficiency and reduce related electrical and maintenance expenses.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$36,000	\$12,000	\$12,000	\$12,000	-	-

PORTABLE GENERATOR

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

Project Cost: \$225,000 | **Outside Funding:** \$-0- | **City Cost:** \$225,000

Description: 150 KW and 200 KW portable generators to supply emergency stand-by power to Public Works, up to seven lift stations as transfer switches are installed at all locations.

Justification: The trailer-mounted generator will provide power redundancy and enable emergency operations to continue in the event of a prolonged outage at a lift station and the City's Public Work facility.

Anticipated Benefit: The generator will provide a reliable power alternative while increasing the ability of the City to provide support or emergency services during a prolonged outage.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$225,000	\$110,000	-	-	\$115,000	-

CRANE TRUCK 4X4

Fund: Capital

Department: Wastewater

Location: Water Reclamation Center

Project Cost: \$86,000 | **Outside Funding:** \$-0- | **City Cost:** \$86,000

Description: Crane truck replacement

Justification: The truck will be used to conduct field and emergency heavy-duty operations. It is required that the truck have electric brake controller, HD class V hitch, and emergency LED light added to the truck. Replacing 2009 year old crane truck at the Wastewater Plant.

Anticipated Benefit: Rotating out 10-year-old trucks in 2020 will reduce repair cost and improve reliability for emergency service.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$86,000	-	-	\$86,000	-	-

SKID LOADER

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

Project Cost: \$60,000 | **Outside Funding:** \$-0- | **City Cost:** \$60,000

Description: Skid Loader for Wastewater Division

Justification: Skid loader will be used by the Wastewater Collection mainly for pushing in rock, and dirt after manhole and sewer-line repairs and for clearing right-of-ways and easement maintenance.

Anticipated Benefit: A skid loader in the Wastewater Collections Division will save on time when trying to schedule with other departments to use their equipment.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$60,000	-	-	\$60,000	-	-

SEWER JET TRAILER

Fund: Capital

Department: Wastewater

Location: Wastewater Reclamation Center

Project Cost: \$80,000 | **Outside Funding:** \$-0- | **City Cost:** \$80,000

Description and Justification: Replacement of sewer jet trailer purchased in 2006 to reduce maintenance costs for the old 17 year old trailer.

Anticipated Benefit: Replacement of the City's sewer jet trailer will increase efficiency, productivity, safety, and reliability of the Collections Division's sewer jetting and maintenance programs.



FUNDING SCHEDULE					
Total \$80,000	2018	2019	2020	2021	2022
	-	-	-	-	\$80,000

3/4-TON 4X4 PICKUP

Fund: Capital

Department: Wastewater

Project Cost: \$200,000 | **Outside Funding:** \$-0- | **City Cost:** \$200,000

Description: Replacement of existing 3/4-ton trucks.

Justification: 3/4-ton trucks will be used to conduct field and emergency heavy-duty operations and will include an electric brake controller, HD class V hitch, and emergency LED lights.

Anticipated Benefit: Rotating out 14 to 15-year-old trucks will help to cut back on repair cost.

FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$200,000	\$36,000	\$38,000	\$40,000	\$42,000	\$44,000

PORTABLE GENERATOR TRANSFER SWITCHES

Fund: Capital

Department: Wastewater

Location: Wastewater Collections

Project Cost: \$300,000 | **Outside Funding:** \$-0- | **City Cost:** \$300,000

Description: Outfitting lift stations for emergency generator applications by installing two to three manual transfer switches per year for portable emergency generator service to provide additional protection during extended outages.

Justification: Provides emergency power supply to lift stations during power loss.

Anticipated Benefit: Improve reliability and reduce downtime during a major power failure at pump stations or other city sites to protect public health and prevent compliance and liability issues. Avoid DNR and EPA fines.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$300,000	\$60,000	\$60,000	\$60,000	\$60,000	\$60,000

LIFT STATION SPARE PUMPS, VFDs & REPLACEMENT

Fund: Capital

Department: Wastewater

Location: Lift Stations Citywide

Project Cost: \$690,500 | **Outside Funding:** \$-0- | **City Cost:** \$690,500

Description: Replacement pumps, variable frequency drives and related equipment for several Lift Stations Citywide as needed.

Justification: These pumps and VFDs are being budgeted to replace due to age or lack of a spare pump, increased flows, repair, and rebuild history, new pump designs that increase electrical and hydraulic efficiency, and the ability of pumps to pump solids and debris commonly removed from the existing pumps.

Anticipated Benefit: Replacement of these pumps will increase efficiency, flow rate and reliability of the related stations for the City and reduce maintenance and repair costs associated with older pumps.



FUNDING SCHEDULE					
Total	2018	2019	2020	2021	2022
\$690,500	108,000	\$112,000	\$245,000	\$104,000	\$121,500



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