

City of Independence, Missouri
Capital Improvement Program
 2022

PROJECTS & FUNDING SOURCES BY DEPARTMENT

Department	Project #	Priority	1-Year Total
Fire			
Aerial w/Equipment	FI01	2	800,000
<i>Sales Tax: Public Safety</i>			<i>800,000</i>
Aerial apparatus to replace a 2001 75' aerial			
Pumper	FI02	2	550,000
<i>Sales Tax: Public Safety</i>			<i>550,000</i>
Replacement of Pumper / Fire Apparatus			
Continued replacement of Pumpers as aged apparatus meet criteria for replacement.			
Fire Total			1,350,000
Municipal Services			
Operation Greenlight	110409	2	23,836
<i>Sales Tax: Street</i>			<i>23,836</i>
The City is a member of the Operation Greenlight (OGL) traffic interconnect program. This program coordinates traffic signals by creating communication abilities between adjacent traffic signals to improve traffic flow efficiency.			
24 HWY Complete Streets	111801	2	6,086,164
<i>Grant: STP</i>			<i>3,500,000</i>
<i>Sales Tax: Street</i>			<i>2,586,164</i>
"This project will improve 24 Highway from River Blvd. to 291 Highway. A continuous center turn lane will be provided to improve safety. There will be curb and gutter installed on both sides of the street. A 10 foot wide shared pedestrian/bicycle path will			
Truman Connected	111815	2	350,000
<i>Grant: STP</i>			
<i>Grant: TAP</i>			
<i>Sales Tax: Street</i>			<i>350,000</i>
The project will create a multi-modal spine along major streets in western Independence connecting transportation users of all types along 7.5 miles of roadway. It includes the 40 Highway Complete Streets Phase 2 project between Sterling and Blue Ridge, w			
Annual Sidewalk Program	112004	3	1,170,000
<i>Other Debt</i>			<i>1,170,000</i>
"The sidewalk program is a city-wide program to complete missing sections of sidewalk in areas with high pedestrian traffic. The program will also include ADA-compliant ramps at intersections. Locations will be identified and scored based upon set criteria			
Deferred Maintenance Curb & Gutter	112005	3	1,170,000
<i>Other Debt</i>			<i>1,170,000</i>
"The curb program will repair concrete curb and gutter on city streets that are in need of maintenance. Selection will be based upon scoring criteria such as street classification and the condition of the infrastructure."			
Truman & Winner Intersection Improvements	112007	3	210,000
<i>Grant: STP</i>			
<i>Sales Tax: Street</i>			<i>210,000</i>
The Truman and Winner project is a transportation safety infrastructure project located in western Independence. The project goal is to improve the pedestrian, bike, vehicular and bus traffic around Van Horn High School which sits on the NE corner of the			
US 24 HWY Phase 2	112011	3	500,000
<i>Grant: STP</i>			
<i>Other Debt</i>			<i>500,000</i>
"This project will improve 24 Highway from River Blvd. to Wilson Road. A continuous center turn lane will be provided to improve safety. There will be curb and gutter installed on both sides of the street. A 10 foot wide shared pedestrian/bicycle path will			
Traffic Signal Components Replacement	112103	3	25,000

Department	Project #	Priority	1-Year Total
<i>Sales Tax: Street</i>			25,000
The City maintains over 60 traffic signals which includes, Cabinet, Controller, pull boxes, conduit and wire, vehicle detection systems, structural mast arms, signs, signal heads, and all necessary components to operate. There is nearly \$20 million in traf			
Repair Damaged Guardrail	112105	1	72,000
<i>Other Debt</i>			72,000
Municipal Services maintains a list of guardrail locations and inspects them on a 5 year annual cycle. Current guardrail damage is extensive and must be evaluated for replacement or removal or increase length of need. Additional guardrail locations may be			
Pavement Preventative Maintenance Operations	112201	1	4,595,500
<i>Sales Tax: Street</i>			4,595,500
"Streets included in the City's annual resurfacing projects are carefully evaluated and inspected. This year the City will be utilizing multipletreatment options in order to optimize the budget. Crack sealing will be used to protect pavement integrity. C			
31st Street Sidewalks to Cassel Park Elementary	112202	2	200,000
<i>Sales Tax: Street</i>			200,000
This project will construct sidewalks in the vicinity of the new Cassell Park Elementary School. This portion of the project constructs sidewalks along 31st Street between Hardy Avenue and Northern Boulevard. Future phases will construct sidewalks the re			
Emergency Transportation Projects	112203	1	175,000
<i>Sales Tax: Street</i>			175,000
Emergency project funds are used for unanticipated emergency projects that are identified throughout the year. Funds are used for the emergency design and/or construction of these projects.			
Traffic Signal Structure Replacement	112204	5	250,000
<i>Sales Tax: Street</i>			250,000
The City maintains over 60 traffic signals - many of which have been in place for several decades, with little maintenance. Aged structures lose their structural integrity over time, weathering, and ground shift. Damaged structures are generally the resul			
Traffic Sign Replacement Program	112205	3	55,000
<i>Sales Tax: Street</i>			55,000
Sign inspections occur frequently based on customer requests and proactive review of areas, however; no specific program has been implemented for review of all posted signs and assemblies and no quantitative results are obtained on the condition of signs			
Replace Loop Detection w/Video Detection	112206	3	136,000
<i>Sales Tax: Street</i>			136,000
Loop detection is invasive to roadway pavement and must be replaced whenever there is damage to the curb or area around the traffic loops in the pavement. Loops must be replaced whenever road pavement is replaced at intersections and can be costly to main			
2021 Pavement Reassessment	112207	3	200,000
<i>Sales Tax: Street</i>			200,000
This project will reevaluate the pavement, inventory existing curb/gutter, sidewalks, and will create a sign inventory for all traffic signs. The scan gives the City objective data to evaluate the prioritization of maintenance and repair of various infra			
Trenchless Technology	130508	2	100,000
<i>Sales Tax: Stormwater</i>			100,000
Work will rennovate existing conduits without excavation by the installation of a thermal activated epoxy infused liner.			
Fairmount Highland Storm Drainage	132102	2	600,000
<i>Sales Tax: Stormwater</i>			600,000
This neighborhood project will address undersized stormwater systems at various locations in the Sugar Creek Watershed			
Leslie to Crane & Hereford Phase 1 & 2	132201	2	850,000
<i>Sales Tax: Stormwater</i>			850,000
Project will provide stormwater facilities for in this residential neighborhood of the Crackerneck Creek Watershed where there are little today and address a history of flooding and erosion.			
Rockwood Storm Drainage Improvements	132202	3	210,000
<i>Sales Tax: Stormwater</i>			210,000
Undersized culverts, eroded streambanks, and deteriorated storm drainage facilities have resulted in the need for over 3,500 feet of improvements in this Rock Creek Watershed residential neighborhood			
Neighborhood Projects	302004	2	150,000
<i>Sanitary Sewer</i>			150,000
35th and Kiger. Project will improve system capacity and reduce santiary sewer backups. Hanthone Drive and Gateway, near Tepee Avenue. Project will improve system capacity and reduce sanitary sewer backups.			
Pump Stations - Improvements & Maintenance	302103	2	200,000
<i>Sanitary Sewer</i>			200,000
Preventative maintenance and pump station improvements to address necessary problems prior to the problem compounding, resulting in larger scoped improvements and additional costs.			

Department	Project #	Priority	1-Year Total
Piping Rehabilitation	302105	3	200,000
<i>Sanitary Sewer</i>			<i>200,000</i>
Rehabilitation and/or replacement of internal & external piping at multiple department facilities.			
Upper Adair Interceptor Design	302201	3	800,000
<i>Sanitary Sewer</i>			<i>800,000</i>
Re-route sanitary sewer flows crossing I-70 from area southwest of I-70 and Noland Road to reduce capacity issues. Also, review extraneous flow basin for temporary storage to avoid downstream sewage overflows or backups.			
Crackerneck Creek Slope Rehabilitations	302202	1	1,700,000
<i>Sanitary Sewer</i>			<i>1,700,000</i>
Repairs of slope failures located along Crackerneck Creek and various tributaries. During Spring 2020, various rain events resulted in slope failures along the creek. There are several locations where these failures have occurred that have put sanitary s			
Sanitary Sewer Main Relocation from Streambanks	302203	1	300,000
<i>Sanitary Sewer</i>			<i>300,000</i>
Program to identify various sanitary sewer pipes and infrastructure citywide that is subject to flooding and erosion from waterways. This project will fund relocation of these mains.			
Primary Sludge Pump Facility Rehab	302204	2	700,000
<i>Sanitary Sewer</i>			<i>700,000</i>
Replacement of MCC, corroded valves, & settling basin gear box. Construct walls to isolate wetwell & rework ventilation and electrical boxes as required.			
Clarifier Rehabilitation	302205	3	800,000
<i>Sanitary Sewer</i>			<i>800,000</i>
Rehabilitation of the primary and secondary clarifier rake arms and weir replacement.			
Railing Safety and Stairwell - RCPS&SCPS	302206	3	325,000
<i>Sanitary Sewer</i>			<i>325,000</i>
Replacement of exterior stairwell and safety rails within the Rock Creek Pump Station. Replace existing rail and fence between bar screens and the wetwell at Sugar Creek Pump Station.			
RCTP Septic Pumper Truck Receiving Station	302207	3	300,000
<i>Sanitary Sewer</i>			<i>300,000</i>
Currently, Eastern Jackson County does not have a septic pumper truck receiving station, resulting in pumper trucks traveling further distances to properly discharge their waste. This project will provide a receiving station at the Rock Creek Treatment P			
Trenchless Technology	309757	1	500,000
<i>Sanitary Sewer</i>			<i>500,000</i>
This is an existing project. The project utilizes trenchless technology to identify deteriorated sanitary pipe lining program and other various repair projects using trenchless technologies. Annual project, locations to be determined.			
Annual Facility Roof Repairs	572201	2	456,900
<i>General Fund</i>			<i>456,900</i>
"These projects will address roof repair needs at City facilities throughout Independence. Locations for the upcoming years include Central Garage, Sermon Center, Trail Museum, Palmer Center, City Hall, and the Police Station."			
Springbranch Garage Complex	572202	3	50,000
<i>General Fund</i>			<i>12,500</i>
<i>Sales Tax: Stormwater</i>			<i>12,500</i>
<i>Sales Tax: Street</i>			<i>12,500</i>
<i>Sanitary Sewer</i>			<i>12,500</i>
This project will consolidate the former garages of Water Pollution Control and Public Works Streets and Fleet Maintenance into a single facility providing a location for all four services provided by the Municipal Services Department: Collection Systems			
Municipal Services Total			23,460,400

Parks, Recreation and Tourism

Playgrounds/Spraygrounds	121801	2	0
<i>Sales Tax: Park & Recreation</i>			<i>0</i>
Due to COVID19, all capital projects for Playgrounds and Spraygrounds have been put on hold.			
Park Revitalization	9970	1	200,000
<i>Sales Tax: Park & Recreation</i>			<i>200,000</i>
The Park Revitalization capital project fund is a general "fix-it" account and is used to repair site amenities, fencing, playgrounds, landscaping and irrigations systems, and shelters at City Parks.			

Department	Project #	Priority	1-Year Total
Park Maint - Mobile Equipment	9971	1	50,000
<i>Sales Tax: Park & Recreation</i>			<i>50,000</i>
Mobile equipment replacement of vehicles and equipment used for Park Maintenance.			
Historic Sites Rehab	HP1	1	75,000
<i>Transient Guest Tax</i>			<i>75,000</i>
Maintenance and repair projects at City historic sites.			
NFTM Wall Stabilization / 2nd Floor Finish	NFTM1	2	200,000
<i>Transient Guest Tax</i>			<i>200,000</i>
Funding for wall stabilization at the National Frontier Trail Museum and finishing of the second floor of the building so that this space can be utilized.			
Parks, Recreation and Tourism Total			525,000

Police

Vehicle Replacement Plan	PD-2020-01	2	1,223,508
<i>Sales Tax: Public Safety</i>			<i>1,223,508</i>
Vehicle Replacement Plan for the Police Department. This includes the purchase of new vehicles and all the equipment to be installed in each one, as well as any outsourced labor for the changeover of equipment from one vehicle to another, and graphic dec			
Police Total			1,223,508

Power & Light

69 KV Transmission Line Rebuild	201603	2	800,000
<i>Power and Light Fund</i>			<i>800,000</i>
Contracting Phase III of Substation E to F Rebuild.			
Substation Fiber Optic Network Equip. Replacement	202101	2	750,000
<i>Power and Light Fund</i>			<i>750,000</i>
GE JungleMux - Equipment Replacement Study			
Traffic Controller Upgrades	202102	1	60,000
<i>Power and Light Fund</i>			<i>60,000</i>
20 Remaining sites, 10 per year for 2 years.			
Traffic Camera System Upgrades	202103	2	20,000
<i>Power and Light Fund</i>			<i>20,000</i>
Replace Cameras Valley View at Costco/Truman & Lee's Summit Rd. - Next 4 Cameras Standard Equipment			
Motorola APX Radio Purchase - 2nd Phase	202107	1	70,000
<i>Power and Light Fund</i>			<i>70,000</i>
Motorola APX Radio Purchase - 2nd Phase, 40 Units			
Substation Modeling	202109	3	100,000
<i>Power and Light Fund</i>			<i>100,000</i>
Spatial Modeling of all IPL Substations for Asset Management			
Transmission Pole Replacement Program	202111	2	300,000
<i>Power and Light Fund</i>			<i>300,000</i>
Plan is to perform a transmission pole inspection in the next two years. This will result in the need to make replacements. Report will determine more accurate estimates.			
Substation A Transformer T-9 Maintenance	202201	2	180,000
<i>Power and Light Fund</i>			<i>180,000</i>
Maintenance on a 100 MVA Transformer			
T&D Truck Shed	202203	3	1,000,000
<i>Power and Light Fund</i>			<i>1,000,000</i>
Truck Housing			
Relay Test Set	202204	3	80,000
<i>Power and Light Fund</i>			<i>80,000</i>
1 of 2 sets - will no longer be supported for updates/calibrations.			
Desert Storm Switchgear Cabinets	202205	1	250,000
<i>Power and Light Fund</i>			<i>250,000</i>

Department	Project #	Priority	1-Year Total
Replacement for 5 switchgear cabinets.			
T&D Road Improvement Projects	202206	1	500,000
<i>Power and Light Fund</i>			<i>500,000</i>
Relocating/Upgrading existing equipment with road changes			
Systematic Undergrounding of Distribution Systems	202207	4	500,000
<i>Power and Light Fund</i>			<i>500,000</i>
This is for systematic, data driven improvements.			
Traffic Signal Detection Systems	202208	3	50,000
<i>Power and Light Fund</i>			<i>50,000</i>
Replace radar traffic detection at three (3) intersections.			
Fiber Optic Business Plan	202209	4	300,000
<i>Power and Light Fund</i>			<i>300,000</i>
Update and/or create ne Fiber Optic Business Plan for City broadband deployment.			
IPL Service Center PBX Upgrade to IP Flex	202210	3	70,000
<i>Power and Light Fund</i>			<i>70,000</i>
Upgrade IPL Service Center PBX for IPL Flex System from AT&T.			
Transmission & Distribution Emergency Maintenance	70200815	2	250,000
<i>Power and Light Fund</i>			<i>250,000</i>
Provide for the necessary and required system maintenance of the Transmission and Distribution system. Includes repair and replacement of equipment that have been damaged or at the end of its useful life based industry standards.			
This is for systemati			
Fiber Optic Network	70200828	1	105,956
<i>Power and Light Fund</i>			<i>105,956</i>
Fiber Optic Network expansion to provide communications services and links of critical infrastructure to city facilities, its departments and business customers.			
69 KV Substation Facilities	70201106	2	300,000
<i>Power and Light Fund</i>			<i>300,000</i>
This project is for routine and emergent orijects that come up during the year. Examples would be 1) the replacement of transmission breakers at Sub M, 2) installing Arc Flash equipment in Sub F,I and L 3) Replacing "H" Frame structures found bad on 16			
Substation E Transformer & Switchgear Replacement	70201804	2	950,000
<i>Power and Light Fund</i>			<i>950,000</i>
This project is a major upgrade to the transformer and switchgear at this substation. The equipment is one of the oldest in our fleet and one of the transformer failed in November of 2017. The upgrade will allow for the rewinding of the transformers to			
Service Center Emergency Maintenance	70209669	3	150,000
<i>Power and Light Fund</i>			<i>150,000</i>
Projects that require immediate remedy to mitigate and repair unforeseen failures to prevent additional damage and repairs in an expedited manner. This may include items such as equipment failure repairs or major building/facility repairs. Additionally,			
Power & Light Total			6,785,956
Water			
23rd St. Main Replacement	70401301	2	150,000
<i>Water Fund</i>			<i>150,000</i>
This project will replace the existing 12" transmission main which is installed under the roadway of 23rd St. This main has experienced an excessive amount of breaks resulting in costly road repairs and traffic interruptions.			
Lime Silo	70401608	2	1,300,000
<i>Water Fund</i>			<i>1,300,000</i>
The Courtney Bend Water Plant utilizes lime to soften the ground water in its purification process. This project will provide additional lime slaking equipment to help ensure that this process will not be interrupted.			
Filter Valve House Roof Improvements	70401804	2	75,000
<i>Water Fund</i>			<i>75,000</i>
The roofs of two of the seven filter valve houses at the Courtney Bend Water Plant have developed leaks and need to be replaced. This project will address the leaks and provide a better environment for the staff and the equipment that is housed in them.			
Courtney Bend Plant Emergency Generator	70402007	3	1,000,000
<i>Water Fund</i>			<i>1,000,000</i>

Department	Project #	Priority	1-Year Total
This project will increase the reliability of the City's water source in the event that an electrical power outage were to occur on the Plant's power sources. This generator may also be used to reduce the demand of energy provided to the plant through the			
Wellfield Electrical Improvements	70402008	2	800,000
<i>Water Fund</i>			<i>800,000</i>
A portion of the Courtney Bend Plants wellfield overhead wiring was installed in the 1950's during the initial construction of the Water Plant. The system has become less than optimum and repairs are becoming more frequent. The components of the system			
Main Replacement: Truman Rd. (Powell to 23rd)	70402103	2	50,000
<i>Water Fund</i>			<i>50,000</i>
This project will replace approximately 1,100 feet of 12 in. water main which was installed in 1955 and has experienced an excessive amount of breaks. The new main will be installed outside of the pavement, will reduce the number of breaks and provide a			
Basin Drive Improvements	70402108	3	250,000
<i>Water Fund</i>			<i>250,000</i>
The Courtney Bend Plant currently has 8 contact basins and 6 settling basins which provide softening, disinfectant contact time, and settling for the treatment process. The process equipment utilize mechanical drive units which need to be inspected and r			
Main Replacement: Pacific (Trail Ridge to Ellison)	70402201	3	660,000
<i>Water Fund</i>			<i>660,000</i>
This project will replace approximately 1700 feet of 6 in. water main which was installed in 1951 and has experienced an excessive amount of breaks. The new main will be installed outside of the pavement, will reduce the number of breaks and provide a mo			
Main Replacement: E. 5th St (Dover to Jennings)	70402202	3	350,000
<i>Water Fund</i>			<i>350,000</i>
This project will replace approximately 1400 feet of 6 in. water main which was installed in 1971 and has experienced an excessive amount of breaks. The new main will be installed outside of the pavement, will reduce the number of breaks and provide a mo			
Lime Slaker No. 1	70402203	2	350,000
<i>Water Fund</i>			<i>350,000</i>
Lime slakers provide slaked lime to our basins for the purpose of softening the water. This project will replace the existing Lime Slaker No. 1 at the Courtney Bend Water Plant. This Lime Slaker has exceeded its useful life and is needing to be replaced			
Main Replace: Hall Rd. (Westport to 23rd St.)	70402204	2	415,000
<i>Water Fund</i>			<i>415,000</i>
This project will replace approximately 1300 feet of 6 in and 2 in. water main which was installed in 1946 and has experienced an excessive amount of breaks. The new main will reduce the number of breaks, provide better fire protection and a more reliabl			
Main Replace: Forest Ave. (Truman to White Oak)	70402205	2	100,000
<i>Water Fund</i>			<i>100,000</i>
This project will replace approximately 400 feet of 12 in. water main which was installed in 1946 and has experienced an excessive amount of breaks. The new main will reduce the number of breaks and provide a more reliable source of water for the custome			
Main Replace: Bellevista Dr. (Leslie to Partridge)	70402206	2	220,000
<i>Water Fund</i>			<i>220,000</i>
This project will replace approximately 800 feet of 6 in. water main which was installed in 1954 and has experienced an excessive amount of breaks. The new main will be installed outside of the pavement, will reduce the number of breaks and provide a mor			
Courtney Bend Electrical Switchgear Improvements	70402207	2	200,000
<i>Water Fund</i>			<i>200,000</i>
This project will provide improvements and upgrades to a portion of the electrical switchgear at the Courtney Bend Water Plant. This equipment ranges in age as far back as the 1950's.			
Security Upgrades	9952	2	250,000
<i>Water Fund</i>			<i>250,000</i>
Provide additional equipment and upgrades to existing security features throughout Department facilities			
Water Total			6,170,000
GRAND TOTAL			39,514,864

Report criteria:

- All Categories
- All Contacts
- All Departments
- All Priority Levels
- All Projects
- All Source Types
- Status: Active
- Type: E or I or M or Z