Capital Improvement Plan

Road to the Future

2024-2028

City of Maryland Heights

City of Maryland Heights
CAPITAL IMPROVEMENT PROGRAM
2024-2028

INTRODUCTION

The Capital Improvement Program (CIP) is a plan for the City's capital investments over a five (5) year period. The CIP allows the City to project all capital costs, funding and timing. Each year the CIP is reviewed by the City Council within the context of ongoing City, County and State planning, programs and policies, as well as the City's Comprehensive Plan.

In accordance with state law, the Plan Commission reviews the location, extent and character of all proposed improvements of streets and other public facilities.

Capital investments involve major city assets that normally have long, useful lives. Items included within the CIP are usually found within one of the following six (6) categories:

1. The acquisition of land and/or buildings for a public purpose.

2. The construction of a significant facility, i.e., a building or a road, or the addition to or extension of an existing facility.

3. Rehabilitation or major repair to all or part of a facility, i.e., infrequent repairs that are not considered to be recurring maintenance, provided the total cost is estimated to be not less than $100,000.

4. Any specific planning, engineering, design work or construction management activity related to the above three (3) categories.

5. The annual street pavement maintenance program, which includes replacement and cracksealing of concrete pavement sections, and resurfacing/microsurfacing of asphalt pavement streets.

6. Any new or replacement capital equipment or software purchase with an estimated cost of not less than $100,000.

The current CIP includes five (5) years of projected capital expenditure totaling $21,428,000. Additionally, some projects were started prior to 2024 and/or extend beyond 2028 and would increase the total capital costs to $30,432,000. The first year of the Program will be incorporated into the capital portion of the FY2024 Budget. The remaining four (4) years will serve as a financial plan for capital investments. The CIP complements the Annual Budget and is updated each budget cycle.

The City is pursuing a program to upgrade all City streets functionally classified as "collector roads". In addition, the City Council has plans to continue to upgrade unimproved residential "local" streets and add sidewalks in residential areas. Storm water improvement projects are recommended by the Storm Water Advisory Commission using their adopted rating system.

ORGANIZATION OF THE CIP

The CIP's organization permits a comprehensive treatment of all pending capital projects. The major portion of the program contains the individual project descriptions, organized by categories set forth in the Strategic Plan and program areas corresponding to the Annual Budget. Each project sheet contains information regarding the description, existing conditions, funding, benefits and impact on operating costs of each project.

FINANCING THE CIP

The following funding sources may be used to finance a project in the CIP:

- Advance from Reserve - The flow of budgetary funds and the timing of capital project expenditures can cause shortfalls in the funds used for capital projects. The City's Reserve Fund is utilized to advance funds (cash) in order to finance these situations on a short-term basis.
- Available Funds - Cash currently available in one of the City's operating funds.
- Grants - Funding provided to the City by other governmental entities.
- Leasehold Revenue Bonds - To finance certain municipal facilities the Maryland Heights Public Facilities Authority may issue bonds to fund projects and lease the facilities to the City in exchange for annual debt service payments.
- Miscellaneous Sources - Funding sources that do not fall within one of the above categories. When a project lists this as a source of funding, a further description of the funding can be found in the narrative section of the project sheet.
- Private Contributions - Payments by private property owners or developers for public capital facilities (such as storm water facilities and streets) that support or enhance their property or project.
- Special Assessment - Long term borrowing for localized projects repaid through user charges or taxes that are generated within the area of the improvements.
- Tax Increment Financing - Funding provided by incremental taxes resulting from new development in a designated Tax Increment Financing (TIF) District.

City policy provides that 30% of gaming taxes are allocated to the Capital Improvement Fund.

RELATIONSHIP BETWEEN THE OPERATING BUDGET AND CIP

Whenever the City commits to a capital project, there is an associated long-range impact on operating funds. Most capital projects affect future operating budgets either positively or negatively by influencing maintenance costs or by providing capacity for new services to be offered. Such impacts vary widely from project to project and, as such, are evaluated individually during the process of assessing project feasibility. The amount of impact is categorized as: Positive, Negligible, Slight, Moderate or High.

	Definition
Positive	The project will either generate revenue to offset expenses or will actually reduce overall operating costs.
Negligible	The impact will be very small. It will generate less than $10,000 per year in increased operating expenditures or savings.
Slight	The impact will be between $10,000 and $50,000 per year in increased operating expenditures.
Moderate	The impact will be between $50,000 and $100,000 per year in increased operating expenditures.
High	The project will increase operating expenditures by more than $100,000 annually.

Construction management services are performed by City staff and are budgeted in the General Fund. An operating transfer is budgeted from the funds that contain capital projects to the General Fund. Consequently, the CIP includes the cost of these services.

INFLATIONARY IMPACT ON ESTIMATES

An inflation rate of 3% per year is assumed on the estimated cost of all projects included in the CIP. The main funding source, gaming taxes, has no inflationary growth associated with the projected revenues since a significant component is a flat tax on admissions. The casino operator advises the City of likely annual changes in the market and/or market share. A negative balance is shown at the end of 5 years but it should be noted that the amounts shown for each project are estimates based upon the current scope of the project. The scope or limits of a project are modified and refined during design. Therefore, the projected fund balance may be viewed as a reserve or contingency for project modifications.

NEW DEVELOPMENTS

Foreseen additions to the City's infrastructure that are a result of planned new private developments are included in the CIP. While these projects will be financed and constructed by private developers, they will add to the City's future maintenance and service responsibility and represent an investment in the City's infrastructure. Standards of governmental accounting require that the City include these assets in the City's financial statement when completed and accepted for maintenance by the City Council.

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CAPITAL IMPROVEMENT PROGRAM

Summary: All Funds

Estimated Expenditure (000's)

	Total Cost	Prior To 2024	2024	2025	2026	2027	2028	Beyond 2028
CAPITAL IMPROVEMENT FUND	28,018	602	4,220	2,815	3,740	2,980	5,259	8,402
STREETLIGHTING FUND	114	0	7	7	34	32	34	0
PARKS FUND	2,300	0	89	486	575	575	575	0
TOTAL EXPENDITURES	**30,432**	**602**	**4,316**	**3,308**	**4,349**	**3,587**	**5,868**	**8,402**

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COLLECTOR STREET PROJECTS

The collector street system provides land access and traffic circulation within residential neighborhoods, commercial and industrial areas. Urban collector systems may penetrate neighborhoods, distributing trips from the arterials through the area to the ultimate destination. Collector streets also collect traffic from local streets in residential neighborhoods and channel it into the arterial street system.

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CAPITAL IMPROVEMENT PROGRAM (DRAFT 08/28/2023)

CAPITAL IMPROVEMENT FUND

Estimated Expenditure (000's)

PROJ. #	PROJECT NAME	2024	2025	2026	2027	2028	Total 2024-2028	Prior to 2024	Beyond 2028	Total Cost
	COLLECTOR STREET PROJECTS									
	Fee Fee Road (Dorsett Road to Midland Avenue)					400	**400**		2,400	**2,800**
	Creve Coeur Mill Road (Hwy 141 to Waterworks Road)					150	**150**		1,000	**1,150**
	LOCAL STREET PROJECTS									
	DeRuntz Ave.			300	250	1,800	**2,350**		1,800	**4,150**
141	Sidewalk Construction	275	50	140	70	286	**821**		1,057	**1,878**
	Gill/Hedda/Broadview/Daley	375	155	1,375	605	313	**2,823**		2,610	**5,433**
	PRESERVATION/ENHANCEMENT PROJECTS									
004	Pavement Maintenance Concrete Streets, Sidewalks & Asphalt (Repl./CrkSeal)	1,000	1,000	1,000	1,000	1,000	**5,000**			**5,000**
126	Public R/W - Property Enhancements (Trees, Entryway and Wayfinding Signage)	50	50	50	50	50	**250**			**250**
	ROADWAY SUBTOTAL EXPENDITURES	**1,700**	**1,255**	**2,865**	**1,975**	**3,999**	**11,794**	**0**	**8,867**	**20,661**
	FACILITIES/EQUIPMENT									
079	Equipment Replacement	130	150	200	170	200	**850**			**850**
	FACILITIES/EQUIPMENT SUBTOTAL EXPENDITURES	**130**	**150**	**200**	**170**	**200**	**850**	**0**	**0**	**850**
	STORMWATER PROJECTS									
262	12059 Autumn Lakes Drive	215					**215**	70		**285**
	2829 Briarcote Lane (west of street, rear of property)	95		120			**215**			**215**
244	Breezemont Tributary		140		290		**430**			**430**
	Edgeworth Avenue north terminus			160	35	300	**495**			**495**
264	11465 Essex Avenue (north of street, east of property)	100					**100**	55		**155**
260	12102 Glenpark Drive (west of street, rear of property)	85					**85**	42		**127**
	2860 Hathaway Avenue (south of street, rear of property)			115		185	**300**			**300**
252	11814 Jonesdale Court (east of street, rear of property)	225					**225**	65		**290**
	2706 Lakeport Drive (north of street, rear of property)		155				**155**			**155**
242	Metro Tributary (w/o Metro Blvd. to w/o Millwell Drive)				225		**225**		595	**820**
	Rule Place Lane		260				**260**	100		**360**
	Smoke Rise Tributary					290	**290**		740	**1,030**
	Terry Avenue	140	580				**720**	106		**826**
263	2703 Wagner Place	1,100					**1,100**	164		**1,264**
	2325 Wesford Drive (west of street, rear of property)	160					**160**			**160**
240	Project Monitoring/Maintenance of Mitigation Areas per USACE	20	20	20	20	20	**100**			**100**
	STORMWATER SUBTOTAL EXPENDITURES	**2,140**	**1,155**	**415**	**570**	**795**	**5,075**	**602**	**1,335**	**7,012**
	Construction Management Services	250	255	260	265	265	**1,295**			**1,295**
	TOTAL FUND EXPENDITURES	**4,220**	**2,815**	**3,740**	**2,980**	**5,259**	**19,014**	**602**	**10,202**	**29,818**
	SOURCES OF FUNDING									
	Allocation from Gaming Revenue	2,950	2,950	2,950	2,950	2,950	**14,750**			
	Federal STP Grant - Adie Road (Dorsett Road to Lindbergh Blvd.)	820					**820**			
	Balance in fund at beginning of year	2,777	2,327	2,462	1,672	1,642				
	TOTAL FUNDING SOURCES	**6,547**	**5,277**	**5,412**	**4,622**	**4,592**	**15,570**			
	Balance End of Year	**2,327**	**2,462**	**1,672**	**1,642**	**(667)**				

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS and BRIDGES
PROJECT
FEE FEE ROAD
(Dorsett Road to Midland Avenue)

Existing Condition

The existing asphalt pavement is beginning to show signs of aging. In addition the street narrows from three lanes to two lanes near Grape Avenue before widening back to thee lanes.

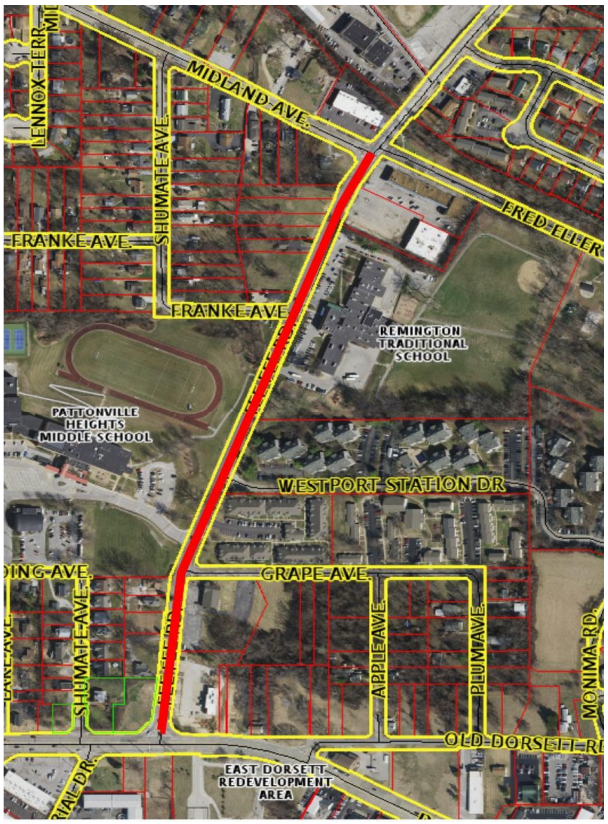
Goals

- Upgrade aging asphalt pavement.
- Widen narrow section of Fee Fee Road.
- Provide improved safety condition for both motorists and pedestrians.

Impact: Positive

Description

This project involves the reconstruction of Fee Fee Road from Dorsett Road to Midland Avenue. The existing street will be reconstructed using concrete pavement. The three lane section will be extended from Grape Avenue to near Fee Fee Road. The sidewalks will be reconstructed to be ADA compliant. An application for funding will be submitted to East-West Gateway Council of Governments for future constructions costs.



Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028*
$2,800,000						$400,000	$2,400,000

*Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund and Federal Surface Transportation Program.

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS and BRIDGES
PROJECT
CREVE COEUR MILL ROAD RE-SURFACING (Water Works Road to St. Louis County Soccer Park

Description

The project involves the asphaltic overlay of the existing Creve Coeur Mill Road. The overlay road will have a 24 foot wide section.

Existing Condition

The existing segment of Creve Coeur Mill Road needs to be resurfaced based on the condition rating.

Goals

- Improve storm water drainage from the road.
- Improve the pavement condition.
- Provide for improved safety conditions with a new driving surface.

Impact: Positive

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028*
$1,150,000						$150,000	$1,000,000

*Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund and Federal Surface Transportation Program.

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LOCAL STREET PROJECTS

The local street system comprises all facilities not on one of the higher street systems. Its primary purpose is to provide direct access to abutting land and connect to the collector system.

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS & BRIDGES
PROJECT
DERUNTZ AVENUE

Description

This project will consist of removing the asphalt pavement and replacing with concrete pavement. This project will include new sidewalks on both sides of the existing road. A cul-de-sac will be constructed on the end of the current avenue. Storm drainage improvements will be incorporated as part of the project.

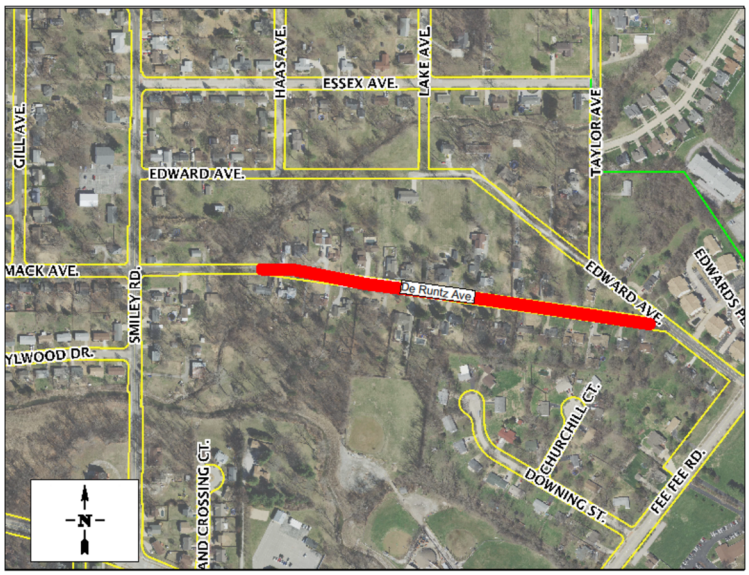
Existing Condition

The roadway is an asphalt pavement that is 26 feet wide without sidewalks on either side of the road.

Goals

- Enhance the appearance of this residential area with a new roadway.
- Provide for improved safety conditions for both motorists and pedestrians with curbs and sidewalks.
- Provide improved storm water drainage..

Impact: Positive



Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028*	Beyond 2028
$2,350,000				$300,000	$250,000	$1,800,000	

*Project Completed

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS & BRIDGES
PROJECT
SIDEWALK CONSTRUCTION

Description

This project will provide for completing gaps in neighborhood sidewalks on public streets to increase pedestrian safety and accessibility.

Existing Condition

Currently there are many areas where no sidewalks exist or where gaps are present in the existing sidewalk network.

Goals

- Create a sense of community.
- Enhance existing property values.
- Improve pedestrian activity and accessibility.
- Enhance City image.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028*
$1,878,000		$275,000	$50,000	$140,000	$70,000	$286,000	$1,057,000

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS & BRIDGES
PROJECT
GILL/HEDDA/BROADVIEW/ DALEY/TERRY

Description

This project will consist of removing the asphalt pavement and replacing with concrete pavement on the roadway projects. This project will include new sidewalks on both sides of the existing roads. Storm drainage improvements will be included with these projects.

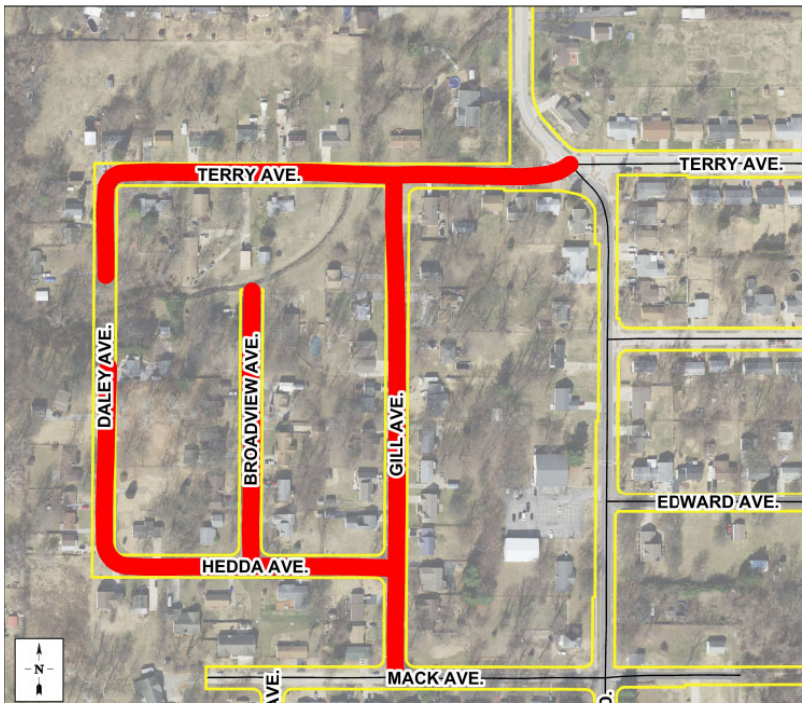
Existing Condition

The roadways are asphalt pavement that is 20-22 feet wide without sidewalks on either side of the road.

Goals

- Enhance the appearance of this residential area with a new roadways.
- Provide for improved safety conditions for both motorists and pedestrians with curbs and sidewalks.
- Provide improved stormwater drainage.

Impact: Positive



Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028*
$5,433,000		$375,000	$155,000	$1,375,000	605,000	$313,000	$2,610,000

*Project Completed

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund

PRESERVATION

AND

ENHANCEMENT PROJECTS

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS and BRIDGES
PROJECT
PAVEMENT MAINTENANCE CONCRETE STREETS, SIDEWALKS & ASPHALT STREETS (Resurfacing/Cracksealing)

Description

The program involves the replacement of deteriorated sections of concrete pavement and cracksealing of concrete pavement. In addition, the program includes annual resurfacing of asphaltic pavement and microsurfacing of asphaltic streets based on pavement condition surveys.

Existing Condition

The City has over 120 lane miles of concrete pavement. It is necessary to continue an annual replacement program to maintain a satisfactory condition for these pavements. The City also has approximately 28 miles of asphalt streets with varying conditions. This program will enhance the present condition and longevity of these streets.

Goals

- Enhance pavement condition and riding surface.
- Extend the life of asphalt streets.
- Provide a safe environment for motorists using the City's streets.
- Maintain property values.

Impact: Positive

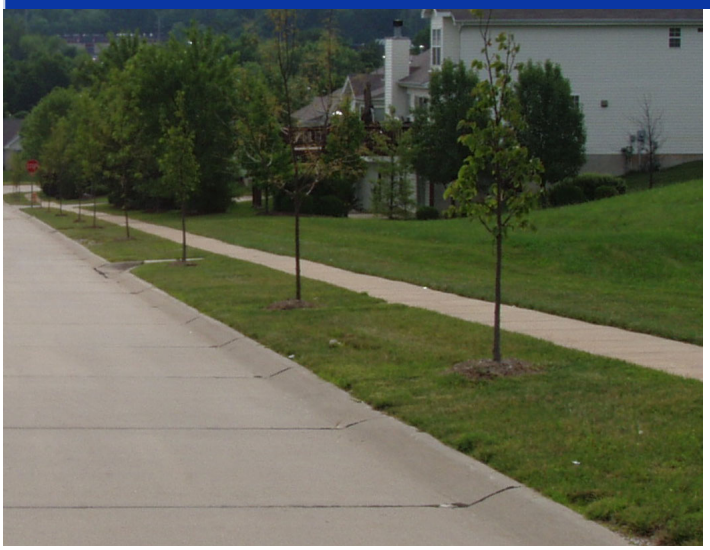
Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028
$5,000,000		$1,000,000	$1,000,000	$1,000,000	$1,000,000	$1,000,000	

* Projects will continue indefinitely at some level of funding.

Funding Source: Available Funds

This project will be funded with revenues from the Capital Improvement Fund.



DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS & BRIDGES
PROJECT
PUBLIC RIGHT-OF-WAY PROPERTY ENHANCEMENTS (Trees, Entryway & Wayfinding Signage)

Existing Condition

Currently there are many areas in need of additional street trees and major entryways into the City are not adequately identified.

Description

These projects will implement improvements to the rights-of-way of public streets and public property to enhance their appearance. These projects will include planting of street trees. The City Council has adopted a goal to increase the number of trees planted each year. All residential streets being reconstructed will be enhanced by the installation of decorative crosswalks, new post-top type street lighting, and street trees. Funds are included to continue to install signs at key locations.

Goals

- Create a sense of community.
- Enhance existing property values.
- Identify areas where highway noise levels exceed established criteria.
- Improve property values.
- Enhance City image.

Impact: Slight

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028
$250,000		$50,000	$50,000	$50,000	$50,000	$50,000	

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

FACILITIES/EQUIPMENT

DEPARTMENT
PUBLIC WORKS
PROGRAM
ROADS & BRIDGES
PROJECT
EQUIPMENT REPLACEMENT

Description

Funding is provided to purchase replacement of tandem and single-axle dump trucks with plows and spreaders, street sweeper and other high value equipment for the Department of Public Works. This equipment is for hauling construction material and roadway deicing operations.

Existing Condition

This dump truck will be an addition to the Public Works fleet. The smaller size allows for easier snow removal on cul-de-sacs and narrow streets.

Goals And Impacts

- Provide improved snow removal in cul-de-sacs and narrow pavement..

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028
$850,000		$130,000	$150,000	$200,000	$170,000	$200,000	

*** Project Complete**

Funding Source: Available Funds

This project would be funded from the Capital Improvements Fund.

STORM WATER

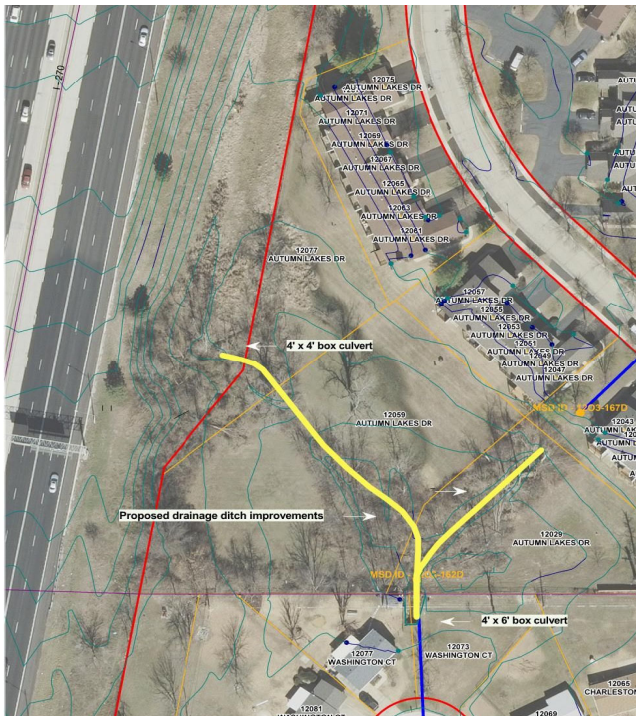
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
12059 AUTUMN LAKES DRIVE

Description

This project restores and/or improves storm water flow between a 4' x 4' box culvert extending under I-270 to the west, discharge from the Autumn Lakes lower dam to the north and a 4' x 6" box culvert located at the rear of Washington Court to the south that receives the drainage. The work includes the removal of vegetation and sediment, the installation of a new culvert(s) at the access point to a rear parcel to replace a culvert that is buried, and placement of heavy stone revetment or other protection measures along the open conveyance to deter and control surface erosion. Biostabilization techniques may be used to restore and enhance the channel corridor.

Existing Condition

A plan for an initial phase of the Autumn Lakes housing development circa 1980 depicts drainage from the I-270 right-of-way crossing an isolated rear southeast corner of the Autumn Lakes property before entering a box culvert located near Washington Court. It appears the flow path has changed due to an overgrowth of vegetation, sediment and debris buildup, diverting drainage to the north and close to one or more buildings within the Autumn Lakes development. Water has reportedly entered the basement(s) of one of these structures.



Goals

- Eliminate or reduce erosion and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$285,000	$70,000	$215,000					

* Project Complete

Funding Source: Available Funds

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
2829 BRIARCOTE LANE
(WEST OF STREET, NEAR OF PROPERTY)

Description

This project provides for the construction of a new storm sewer system to intercept and convey storm-water that flows along the rear of the site. The system would consist of approximately 205' of 12" reinforced concrete pipe or approved alternative, multiple area inlets and other appurtenances. It would connect to an existing storm sewer system located along the side property line between 2825 and 2829 Briarcote Lane.

Existing Condition

Stormwater runoff emanating from twelve (12) residential lots located north and west of this location flows to the rear of the property where it is redirected by a retaining wall and pavement area to the lower yard. The runoff is frequently excessive and has entered the split level home at 2829 Briarcote Lane through a lower door opening, resulting in extreme water damage to the structure. There is also minor yard erosion along the north side property and the rear yard of an adjoining property. An existing area inlet located in the rear southwest corner of the property is ineffective in intercepting this flow due to its location.

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026*	2027	2028	Beyond 2028
$215,000		$95,000		$120,000			

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
BREEZEMONT TRIBUTARY

Existing Condition

This site is located in a residential neighborhood. The lower reach of Breezemont Tributary exhibits vertical bank instability at various locations and there are signs that the channel bed is actively incising. A bridge that provides pedestrian access between the north and south sections of Brookside Subdivision is threatened and there is moderate erosion risk to some fences and retaining walls along the drainage way. The total length of the affected channel is about 2,200 linear feet.

Description

This project stabilizes the channel and banks along the reach of Breezemont Tributary, located in Brookside Subdivision common ground between Brookmont Drive on the north and Breezemont Drive/Foxwood Drive on the south, using grade control structures and bio-stabilization techniques. Existing storm sewer infrastructure located within the tributary reach that is failed or in need of attention will be repaired or replaced. Urban forestry practices may be used to restore and enhance the riparian corridor.

Goals

- Install grade control structures to stabilize the channel and prevent further erosion.
- Use urban forestry to protect and enhance existing vegetation along the stream corridor.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027*	2028	Beyond 2028
$430,000			$140,000		$290,000		

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
EDGEWORTH AVENUE north terminus

Description

This project provides for the construction of a regulation cul-de-sac or alternative turnaround at the end of Edgeworth Avenue, complete with curbing and a new storm sewer system, to intercept runoff from the street corridor as appropriate. A retaining wall or other suitable means may be required to stabilize the rear slope abutting the cul-de-sac due to the vertical drop in grade.

Existing Condition

This site is located in a residential area, north of Midland Avenue and east of Eldon Avenue. Bank erosion along the back edge of the north terminus of Edgeworth Avenue is threatening the Edgeworth Avenue turnaround that is deficient in both design and construction. There is no enclosed drainage along this stretch of roadway to intercept and control runoff.

Goals

- Construct turnaround to intercept drainage and eliminate or reduce potential for erosion, structure and yard flooding in the impacted area(s).
- Maintain/improve property values of neighborhood residents and enhance the safety and driving experience of the motoring public.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

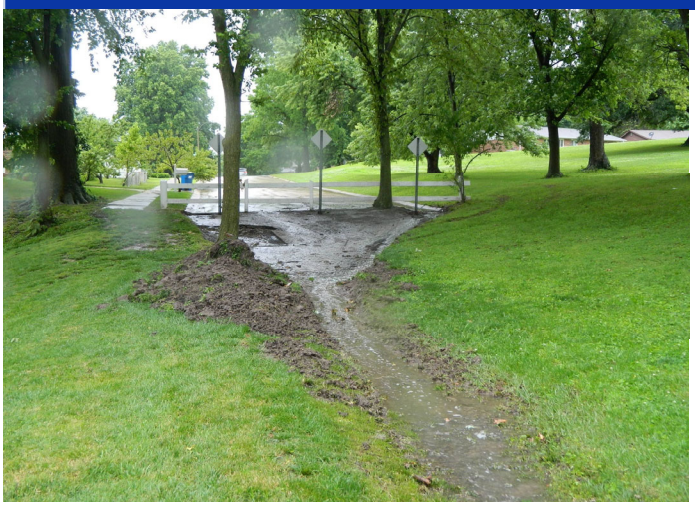
Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028*	Beyond 2028
$495,000				$160,000	$35,000	$300,000	

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.



DEPARTMENT
PUBLIC WORKS
PROGRAM
STORMWATER
PROJECT
11465 ESSEX AVENUE
(north of street, east of property)

Existing Condition

Drainage from Haas Avenue flows along a shallow swale/ berm within an unimproved portion of the roadway to an area inlet located just north of Essex Avenue. The underseepage has infiltrated the side slope of the berm on more than one occasion and flows to a residential structure at 11465 Essex Avenue. The owner reports that water frequently enters the basement through openings in the foundation.

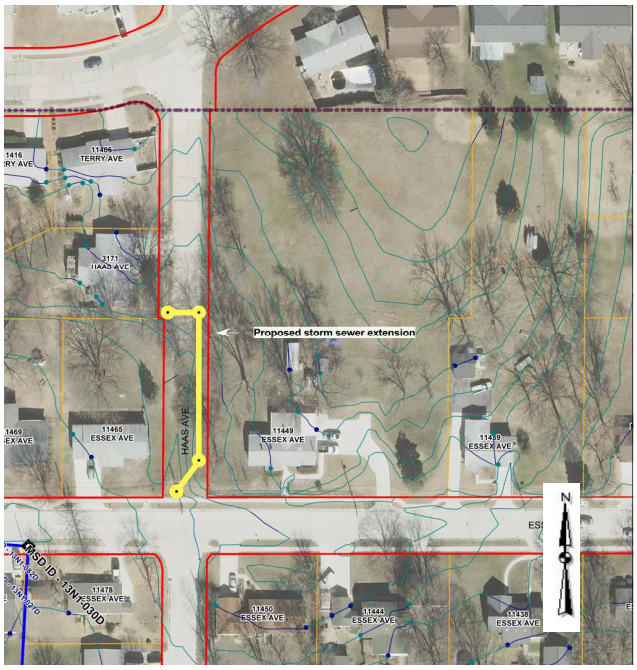
Description

This project provides for the construction of an underground storm sewer to intercept and convey stormwater. The new system would connect to an existing area inlet located in right-of-way of Haas Avenue and adjacent to the front yard at 11465 Essex Avenue. The improvement would consist of approximately 200' of 12" reinforced concrete pipe and appurtenances.

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified stormwater problems.

Impact: Positive



Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$155,000	$55,000	$100,000					

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

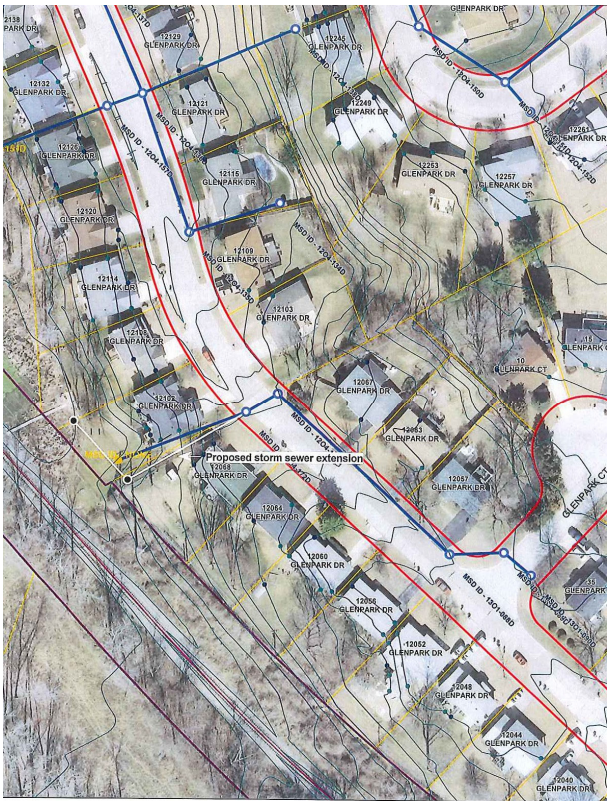
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
12102 GLENPARK DRIVE
(west of street, rear of property)

Description

This project provides for the construction of an underground storm sewer within residential property to intercept and convey storm water. The system would consist of approximately 200' of 12" reinforced concrete pipe and appurtenances. The new system would connect to an existing curb inlet located in front of 12068 Glenpark Drive and extend west and thence north across residential property to a wetland area located along the north edge of 12102 Glenpark Drive.

Existing Condition

A 12" storm sewer conveys drainage from Glenpark Drive to a discharge point at the top edge of a terrace located in the rear yard at 12068 Glenpark Drive. It appears the yard was filled at some point in the past and the pipe and perhaps a natural discharge point for the outfall were covered over and altered in the process. The sewer outlet has been located and extended to daylight to restore operation. Sediment and debris from the pipe outflow frequently collect in the yard and the property owner(s) must deal with an ongoing maintenance and health/safety concern.



Goals

- Eliminate or reduce erosion, structure and yard flooding and associated health risks resulting from location of pipe discharge and effluent in the rear yard.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problem.

Impact: Positive

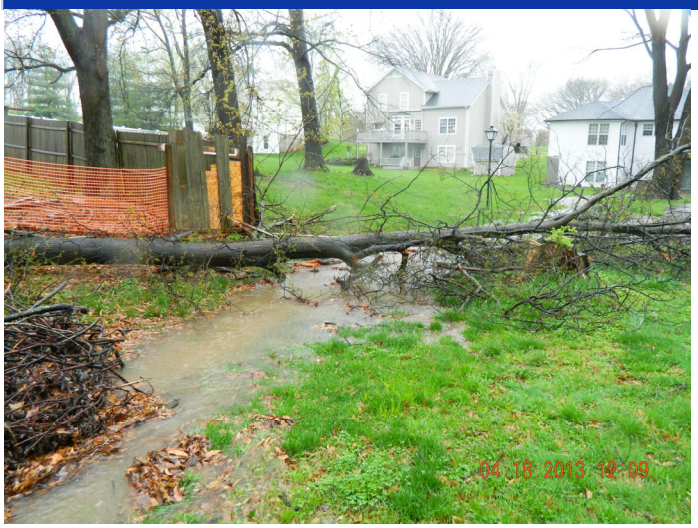
Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$127,000	$42,000	$85,000					

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.



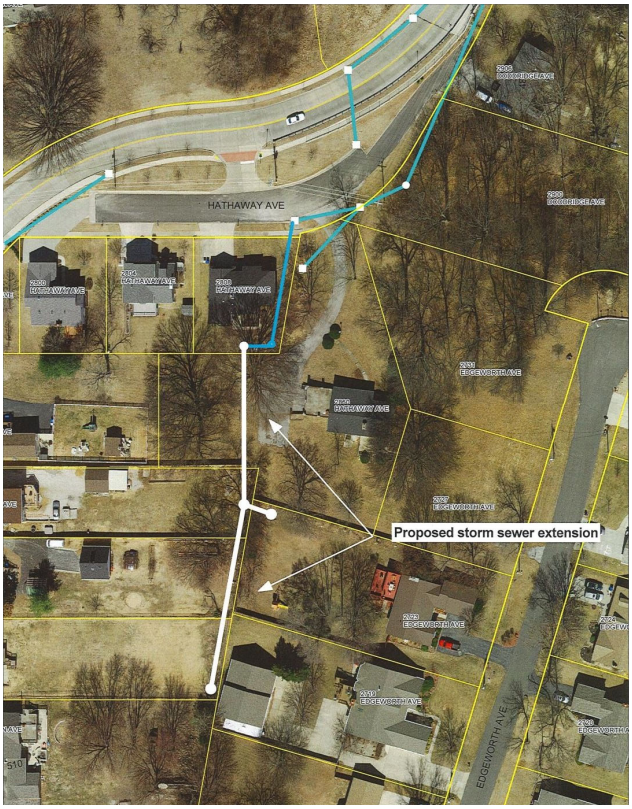
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
2860 HATHAWAY AVENUE
(south of street, rear of property)

Description

This project provides for the construction of an underground storm sewer to intercept and convey stormwater from the upper reaches of the drainage area. The improvement would consist of approximately 325' of 12" reinforced concrete pipe or approved alternative and appurtenances. It would connect to an existing storm sewer located at the rear of 2808 Hathaway Avenue.

Existing Condition

Stormwater runoff from a large drainage area roughly bounded by Eldon Avenue on the west, Midland Avenue on the south and Edgeworth Avenue on the east is conveyed across the property at 2860 Hathaway Avenue. The volume of runoff is sizeable and has eroded the lawn along a rear fence on the property and the perimeter of an area inlet that receives the flow at 2808 Hathaway Avenue.



Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028*	Beyond 2028
$300,000				$115,000		$185,000	

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
11814 JONESDALE COURT
(east of street, rear of property)

Description

This project provides for the construction of an underground storm sewer along the rear of the residential property in the vicinity of 11814 Jonesdale Court to intercept and convey storm water. The new system shall connect to an existing storm channel extending through the McKelvey Park Subdivision. The improvement consists of approximately 460' of 12" reinforced concrete pipe along with associated appurtenances.

Existing Condition

Runoff from a drainage area that extends north to McKelvey Road is conveyed across the rear of lots located at 11802 through 11818 Jonesdale Court. This runoff is frequently excessive and has resulted in flooding of a basement at 11802 Jonesdale Court, an attached garage at 11806 Jonesdale Court, a gazebo and other lawn amenities at 11810 Jonesdale Court and the rear yard adjacent to the home structure at 11814 Jonesdale Court. Ruts have formed in the yard at 11806 Jonesdale Court and sediment has been deposited in the yard at 11810 Jonesdale Court where a chain link fence is partially covered.

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problem.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$290,000	**$65,000**	**$225,000**					

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
2706 LAKEPORT DRIVE
(north of street, rear of property)

Existing Condition

Stormwater runoff from the upper reaches of the drainage area flows south and ponds on a paved patio at 2706 Lakeport Drive and a flat or low-lying area at 2712 Lakeport Drive. There is minor yard rutting evident at the rear southeast corner of the property at 2715 Lakeport Drive. A portion of the surface drainage crosses the public sidewalk and flows onto Lakeport Drive before entering a curb inlet in front of 2712 Lakeport Drive and is considered a nuisance.

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Description

This project provides for the construction of an underground storm sewer to intercept and convey stormwater from the upper reaches of the drainage area. The improvement would consist of approximately 165' of 12" reinforced concrete pipe or approved alternative and appurtenances. It would connect to an existing storm sewer located in front of 2712 Lakeport Drive.

Funding Schedule

Total	Expended To Date	2024	2025*	2026	2027	2028	Beyond 2028
$155,000			$155,000				

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
METRO TRIBUTARY
(west of Metro Blvd. to west of Millwell Dr.)

Description

This project stabilizes the channel and banks along the reach of Metro Tributary extending east from the point of origin to the confluence with Fee Fee Creek using grade control structures and bio-stabilization techniques. A storm sewer system may be installed at strategic points along the stream to control over-the-bank drainage. Measures will also be considered to improve water quality, such as the establishment of a mesic prairie where appropriate.

Existing Condition

This site is located within a commercial/industrial district north of Dorsett Road and east of Weldon Parkway. Bank erosion and headcutting in the tributary threatens property adjacent to the corridor and could cause future instability of the upstream channel if left unaddressed. Two sanitary sewer lines located downstream of Metro Blvd. are exposed and warrant protection. The total length of the affected channel is about 1,428 linear feet.

Goals

- Install grade control structures to stabilize the channel and prevent further erosion.
- Use urban forestry to protect and enhance existing vegetation along the stream corridor and improve water quality.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028*
$820,000					$225,000		$595,000

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

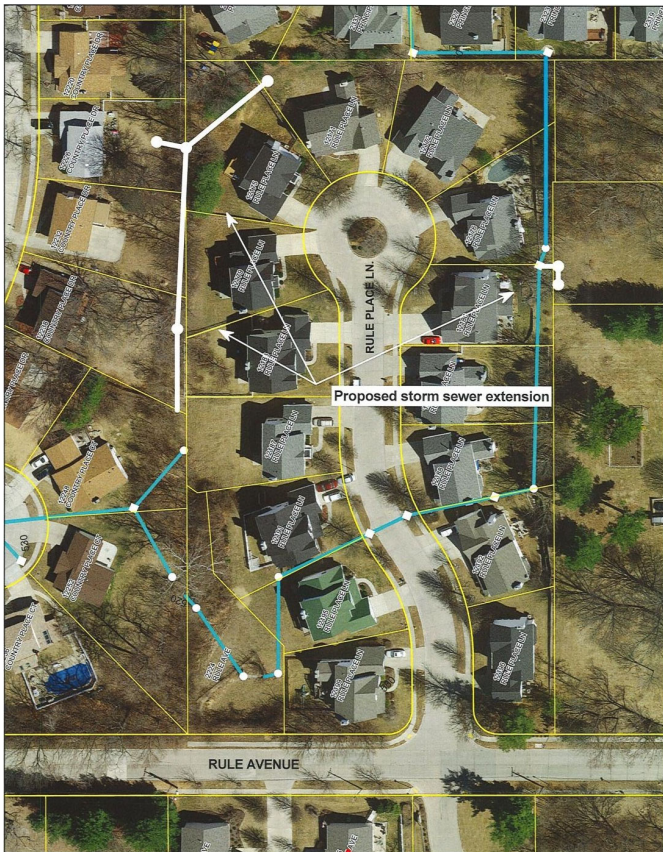
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
RULE PLACE LANE

Description

This project provides for the construction of an underground storm sewer to intercept and convey stormwater that flows along the northern edge of the Rule Place Subdivision and also the southern edge of the site. The improvements would consist of approximately 360' of 12" reinforced concrete pipe or approved alternative and appurtenances. They would connect to existing storm sewers located within the development.

Existing Condition

Stormwater runoff from a drainage area that extends to the north and east is conveyed across the rear of several residential properties located on the north side of Rule Place Lane. The overland flow has eroded the lawn at several locations due to the steep terrain. Runoff emanating from properties located south and east of the subdivision overtops a retaining wall at the rear of 12176/12180 Rule Place Lane and floods the yards during extreme events, threatening an attached garage, enclosed patio, in-ground pool and other site amenities.



Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025*	2026	2027	2028	Beyond 2028
$360,000	$100,000		$260,000				

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
SMOKE RISE TRIBUTARY

Existing Condition

The outside bends of the channel are scoured and adjusting by widening or meandering. This appears to be an on-going process of erosion and deposition to construct bankfull floodplains and re-connect the stream to its floodplain, and the erosion threatens some properties located adjacent to the corridor. There is minor yard rutting and erosion evident in some areas due to surface drainage. The total length of the affected channel is about 1,360 linear feet.

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Description

The project stabilizes the channel or property backslope along the reach of Smoke Rise Tributary, located east of Smoke Rise Court and Smoke Valley Court, at locations where erosion is threatening properties and infrastructure using rip rap, bio stabilization techniques and other identified measures. A storm sewer system may be installed at strategic points along and adjacent to the corridor to control surface drainage. Utilize urban forestry to restore and enhance the site.

Funding Schedule

Total	Expended To Date	2024*	2025	2026*	2027	2028	Beyond 2028*
$1,030,000						$290,000	$740,000

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

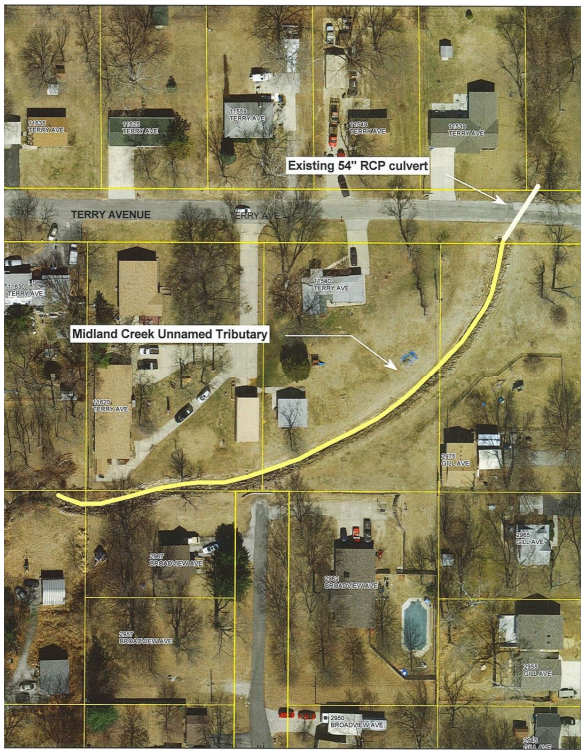
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
TERRY AVENUE

Description

This project provides for the construction of a new culvert and/or the enhancement of existing facilities and improvements to the lower channel to increase the capacity of stormwater conveyance. The channel and banks shall be stabilized using bio stabilizations measures or other techniques as deemed appropriate. One or more grade control may be required within this reach to address headcutting based on an engineering assessment. Utilize urban forestry to restore and enhance the channel corridor.

Existing Condition

A 54" reinforced concrete pipe conveying stormwater across Terry Avenue from a tributary extending north into the City of Bridgeton and the lower open channel are undersized and frequently overwhelmed by the overland flow. The runoff has flooded a large garage/workshop and other detached buildings in the vicinity, and threatens one or more residential properties on the north side of the street.



Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks to yards and miscellaneous structures in the impacted areas.
- Maintain/improve property values and enhance the safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair of identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024	2025*	2026	2027	2028	Beyond 2028
$826,000	$106,000	$140,000	$580,000				

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

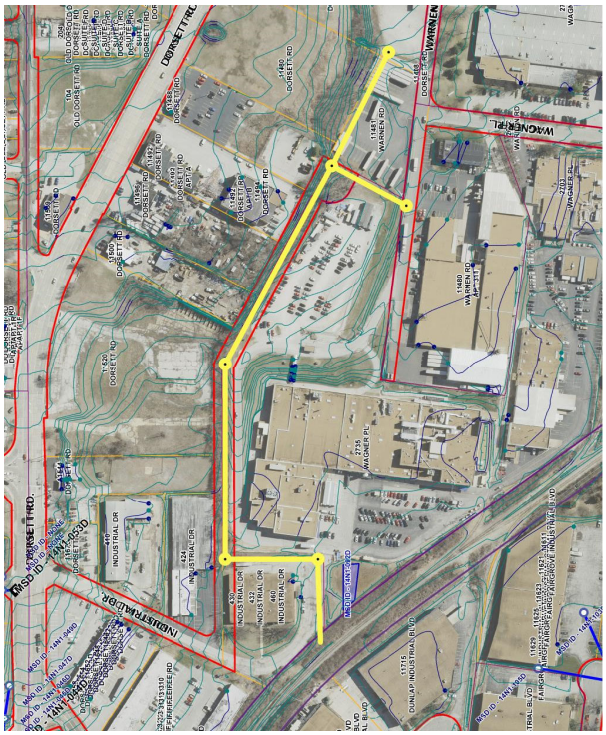
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
2703 WAGNER PLACE

Description

This project provides for the construction of an underground storm sewer system to intercept and convey stormwater. The system would extend along an established street/alley right-of-way that is unimproved and convey drainage to an adequate discharge point. The system would consist of approximately 2,000 linear feet of reinforced concrete pipe or approved alternative and appurtenances.

Existing Condition

Stormwater runoff conveyed by a concrete swale located along the west side of Warnen Drive enters the Curium Pharmaceutical property at 2703 Wagner Place and frequently overwhelms the internal storm sewer system, allowing water to enter and flood portions of the facility. This location is part of a commercial/industrial park in the High Ridge Heights Subdivision that has many large buildings and sites that are mostly impervious. The drainage area that contributes water flow to the Curium Pharmaceutical property extends north and east to Dorsett Road and perhaps some points beyond.



Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks in the impacted areas.
- Maintain/improve property values and enhance safety, operations and overall productivity of the commercial/industrial users.
- Reduce annual maintenance costs associated with the investigation and repair or identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$1,264,000	$164,000	$1,100,000					

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

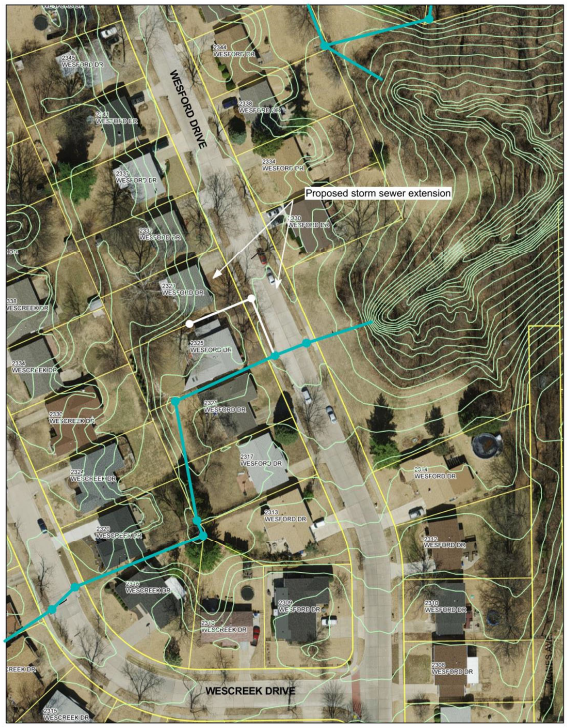
DEPARTMENT
PUBLIC WORKS
PROGRAM
STORM WATER
PROJECT
2325 WESFORD DRIVE
(West of Street, Rear of Property)

Description

This project provides for the construction of a new storm sewer system to intercept and convey stormwater that flows along the rear and north side of the site. The system would consist of approximately 120' of 12" reinforced concrete pipe or approved alternative and appurtenances. It would connect to an existing storm sewer system located along the side property line between 2321 and 2325 Wesford Drive.

Existing Condition

Stormwater runoff emanating from all directions flows to the rear of this property, which is a collection point for the water as a low point in the local neighborhood. The runoff is frequently excessive and has entered a rear basement stairwell of the home on at least one occasion and caused water damage to the structure. The property owner has placed sandbags and other physical barriers along the north rear side of the house in an effort to divert the flow, which has seemingly prevented additional flooding.



2325 Wesford Drive

Scale 1" = 60'

Goals

- Eliminate or reduce erosion, structure and yard flooding and associated risks in the impacted areas..
- Maintain/improve property values and enhance safety and quality of life of the neighborhood residents.
- Reduce annual maintenance costs associated with the investigation and repair or identified storm water problems.

Impact: Positive

Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$160,000		$160,000					

* Project Complete

Funding Source: Available Funds

This project would be funded from the Capital Improvement Fund.

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STREET LIGHTING

CAPITAL IMPROVEMENT PROGRAM
STREETLIGHTING FUND
Estimated Expenditures (000s)

	2024	2025	2026	2027	2028	Total 2024-2028
PROJECTS						
De Runtz Avenue Road Improvements Project				31		31
Gill/Hedda/Broadview/Daley Road Improvement Project - Phase 1 (Gill, Mack)			27			27
Gill/Hedda/Broadview/Daley Road Improvement Project - Phase 2 (Broadview, Daley, Hedda, Terry)					27	27
Local Streets	1	1	1	1	1	5
Sidewalk Project - Colonial Drive	6					6
Sidewalk Project - Dawn Valley Drive, Dawn Hill Drive		6				6
Sidewalk Project - Grand Circle Drive					6	6
Sidewalk Project - Rule avenue (Ameling Road to Rule Hill Court)			6			6
TOTAL STREETLIGHTING EXPENDITURES	**7**	**7**	**34**	**32**	**34**	**114**

SOURCES OF FUNDING					
Allocation from 1/2 percent Utility Tax	0	0	0	0	0
Balance in fund at beginning of year	1,000	993	986	952	920
Transfer to Capital Improvement Fund					
TOTAL STREETLIGHTING FUNDING SOURCES	1,000	993	986	952	920
Balance End of Year	993	986	952	920	886

DEPARTMENT
PUBLIC WORKS
PROGRAM
STREETLIGHTING
PROJECT
STREET LIGHTING PROJECTS

Description

Funds from the Street Lighting Fund will be used to install new street lighting or upgrade existing lighting on City, County or State roadway facilities that are reconstructed. Projects will be selected annually by the Council.

Existing Condition

Street lighting along these roadways does not exist or needs to be upgraded to be in conformity with new roadway construction projects.

Goals

- Improve nighttime visibility.
- Provide a safe environment for motorists and pedestrians.
- Improve image of City.

Impact: Negligible

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028	Beyond 2028
$114,000		$7,000	$7,000	$34,000	$32,000	$34,000	

See prior page for five year expenditures.

Funding Source: Available Funds

These projects would be funded from the Street Lighting Fund.

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PARKS FUND

CAPITAL IMPROVEMENT PROGRAM
PARKS
Estimated Expenditures (000s)

PROJ. # PROJECT	2024	2025	2026	2027	2028	Total 2024-2028	Prior to 2024	Beyond 2028	Total Cost
Vago Park Large Playground		319				319	0	0	319
Parkwood Park Swing Replacement	89					89	0	0	89
Vago Park Convert Sand Volleyball Court to Pickleball Courts		167				167	0	0	167
Vago Park Splash Pad Rehab			575			575	0	0	575
Else Park Splash Pad Rehab				575		575	0	0	575
Else Park Playground, Surfacing and Restroom Renovations					575	575	0	0	575
TOTAL PARKS EXPENDITURES	**89**	**486**	**575**	**575**	**575**	**2,300**	**0**	**0**	2,300

SOURCES OF FUNDING						
Transfer from Capital Improvement Fund						
Transfers from Reserve Fund						
Municipal Parks Grant	89	486	575	575	575	2,300
Park Fund Balance for Capital	0	0	0	0	0	
TOTAL PARKS FUND SOURCES	**89**	**486**	**575**	**575**	**575**	**2,300**

Balance End of Year	**0**	**0**	**0**	**0**	**0**

Existing Condition

The large playground in the front of Vago Park is dated and has safety issues. Parts are difficult to find due to its age. This was identified in the 2019 Master Plan as needing replacement.

Goals

- Increase safety for children using he playground equipment
- Install new safety surface around the play equipment.

Impact: Positive

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
VAGO PARK
LARGE PLAYGROUND

Description

Replace the dated and worn playground equipment at Vago Park and install new safety surface.

Funding Schedule

Total	Expended To Date	2024	2025*	2026	2027	2028	Beyond 2028
$319,000			$319,000				

*Project Complete

Funding Source: Available Funds

This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.

Existing Condition

This swing set at Parkwood Park is dated and has safety issues. The swing set is also not ADA accessible.

Goals

- Increase safety and accessibility for children using the swing set.

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
PARKWOOD PARK SWING REPLACEMENT

Impact: Positive

Description

Replace the dated swing set at Parkwood Park.

Funding Schedule

Total	Expended To Date	2024*	2025	2026	2027	2028	Beyond 2028
$87,000		$89,000					

*Project Complete

Funding Source: Available Funds

This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.

Existing Condition
The sand volleyball courts are an underutilized space in the park.

Goals
- Provide outdoor lighted pickleball space for the community.
- Repurpose an underutilized space in the park by converting it to a sport that is growing in popularity.
- Removal of the sand will benefit the splash pad by keeping sand out of the filtration system.

Impact: Positive

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
VAGO PARK PICKLEBALL COURTS

Description
Convert the sand volleyball space to two lighted concrete pickleball courts.

Funding Schedule

Total	Expended To Date	2024	2025*	2026	2027	2028	Beyond 2028
$167,000			$167,000				

*Project Complete

Funding Source: Available Funds
This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.

Existing Condition

Vago Park Splash Pad was installed in 2013 and is a dated system. The recirculating pump, filtration and technology are out dated and in need of replacement. The surface for the splash pad is concrete and placing a surface that is more slip resistant would provide a safer environment for the users.

Goals

- Update the features of the splash pad.
- Update the recirculating system with more advanced technology.
- Update the play surface to provide a safer play environment.

Impact: Positive

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
VAGO PARK SPLASH PAD REHAB

Description

Update the dated splash pad features and recirculation system and update the play surface to provide a safer play environment.

Funding Schedule

Total	Expended To Date	2024	2025	2026*	2027	2028	Beyond 2028
$575,000				$575,000			

*Project Complete

Funding Source: Available Funds

This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.

Existing Condition

Eise Park Splash Pad was installed in 2013 and is not a recirculating splash pad. All the water used for the splash pad is run to the sewer systems. This was identified in the 2019 Master Plan as needing replacement.

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
EISE PARK SPLASH PAD REHAB

Goals

- Update the features of the splash pad.
- Install a recirculating system to reduce the water consumption.

Impact: Positive

Description

Update the dated splash pad features at Eise Park along with installing a recirculating pump and filtration system to treat the water used at the splash pad to reduce the water consumption.

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027*	2028	Beyond 2028
$575,000					$575,000		

*Project Complete

Funding Source: Available Funds

This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.

DEPARTMENT
PARKS AND RECREATION
PROGRAM
FACILITIES DEVELOPMENT
PROJECT
EISE PARK PLAYGROUND, SAFETY SURFACE AND RESTROOM RENOVATION

Existing Condition
The playground equipment at Eise Park is dated and has safety issues. Parts are difficult to find due to its age. This was identified in the 2019 Master Plan as needing replacement.

Goals
- Increase safety for children using the playground equipment.
- Renovate the dated restroom facilities for all users

Impact: Positive

Description
Replace the dated and worn playground quipment at Eise Park and install new safety surfacing. Renovate the dated restroom facilities for all users.

Funding Schedule

Total	Expended To Date	2024	2025	2026	2027	2028*	Beyond 2028
$575,000						$575,000	

*Project Complete

Funding Source: Available Funds
This project would be funded from the Parks and Recreation Fund. A municipal parks grant will be submitted.