Stormwater Utility

Capital Improvement Plan

	2020 Adopted	2021 Request	Change
2021 Capital Budget	8,271,000	10,266,000	1,995,000
2021 Capital Improvement Plan	25,868,000	24,888,000	(980,000)

2020 Adopted

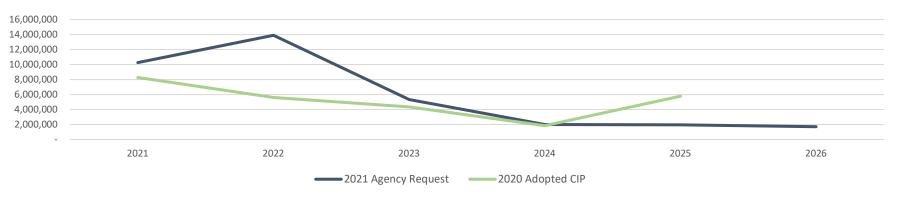
2021 Request **4**

Project Summary: Agency Request

	2021	2022	2023	2024	2025	2026
Street Cleaning Equipment - Streets	455,000	465,000	300,000	470,000	470,000	493,000
Citywide Flood Mitigation	6,525,000	9,537,000	3,248,000	1,120,000	1,130,000	190,000
Storm Sewer System Improvements	461,000	247,000	240,000	167,000	203,000	183,000
Stormwater Quality System Improvements	2,825,000	3,650,000	1,550,000	235,000	150,000	840,000
Total	\$ 10,266,000 \$	13,899,000 \$	5,338,000 \$	1,992,000 \$	1,953,000 \$	1,706,000

Changes from 2020 CIP





Major Changes/Decision Points

• Citywide Flood Mitigation

Project budget increased by \$8.8m based on inclusion of additional projects such as Hawks Landing North Flood mitigation, Spring Harbor Relief Storm sewer, and additional regional stormwater improvements

Funding source changed to include Impact Fees and TIF Proceeds; Use TID 41 increment for Old Middleton Road/Craig Avenue and Spring Harbor Relief Box-Phase 1 in 2021, and TID 37 increment Winnebago/Eastwood/Amoth/Atwood in 2022

• Stormwater Quality System Improvements

Project budget decreased by \$558k based on anticipated carryover from 2020 project



Department of Public Works

Engineering Division

Robert F. Phillips, P.E., City Engineer

City-County Building, Room 115
210 Martin Luther King, Jr. Boulevard
Madison, Wisconsin 53703
Phone: (608) 266-4751
Fax: (608) 264-9275
engineering@cityofmadison.com

www.cityofmadison.com/engineering

Deputy City Engineer Gregory T. Fries, P.E.

Deputy Division Manager Kathleen M. Cryan

Principal Engineer 2

John S. Fahrney, P.E. Christopher J. Petykowski, P.E. Janet Schmidt, P.E.

Principal Engineer 1

Christina M. Bachmann, P.E. Mark D. Moder, P.E. James M. Wolfe, P.E.

Facilities & Sustainability

Bryan Cooper, Principal Architect

Mapping Section Manager

Eric T. Pederson, P.S.

Financial Manager Steven B. Danner-Rivers

To: Dave Schmiedicke, Finance Director

From: Robert F Phillips, P.E., City Engineer

Date: June 12, 2020

Subject: Stormwater Utility 2021 Capital Budget Request

Goals of Engineering-Stormwater Utility Capital Budget

The Engineering Division's proposed budget emphasizes projects that are in keeping with the City's flood mitigation and stormwater quality goals. The major emphasis of this budget is flood mitigation, which can also be coupled with goals for stormwater quality. Place holders were put in for large flood mitigation projects in the out years while the City's aggressive watershed study program continues. Priorities will be placed on repairs that can be done in conjunction with other public works improvements, such as major street resurfacing or reconstruction project, which will save the future expense of repairing the streets at a later date.

There is an underlying need from the community to know that the flood mitigation efforts are moving forward. When they start seeing projects come to fruition that will help to reassure the public. Prioritizing and funding future flood efforts will be a challenge given the number of projects and the available funds. One way to make projects less expensive for the Stormwater Utility is to coupling them with other projects. Combining the work with other projects moves these projects forward in a most cost effective and timely manner.

Summary of Changes from 2020 Capital Improvement Plan

For the 2021 Capital Budget we have basically kept programs to existing levels of funding. One exception is the increased amount of TIF funding that is being requested and the increased amount of impact fee funds that are being requested. These are both to supplement flood mitigation efforts.

There are 4 major programs under the Stormwater Utility Budget: Citywide Flood Mitigation, Stormwater Quality System Improvements, Storm Sewer System Improvements, and Street Cleaning Equipment – Streets. There have been no significant changes to these programs with the next budget cycle, however some minor projects have shifted slightly to align the funding needs better. Minor projects within these Major programs do need to align with the Pavement Management and Reconstruction Streets programs in the Engineering Major Streets Budget as some projects will receive additional funding to supplement the improvements over and above what the typical street costs would have been.

Prioritized List of Capital Requests

The top priority for the Stormwater Utility Budget is the Citywide Flood Mitigation program. This has been a top priority since the historic flooding in 2018 when major steps were taken to set up a solid system for a comprehensive review of the City's infrastructure, ordinances and policies. All of this is needed to find holistic approaches to flooding that are equitable, effective, and take into account the growing concerns of climate change. The planning of the system improvements to address flood mitigation are in the operating budget while the costs associated with implementation of flood mitigation improvements are in the capital budget.

The second priority is Stormwater Quality System Improvements. This program is directly related to the Citywide Flood Mitigation program as a means for construction of facilities such as greenways and ponds that help treat the water for pollutant removal as well as help with flood mitigation efforts. Our Green Infrastructure initiatives are housed under this program as well. In addition to the flood mitigation benefits that come from projects under the Stormwater Quality System Improvements, this program is instrumental in meeting our TMDL goals for total suspended solids and total phosphorus reductions, as mandated under the EPA Clean Water Act and in our MS4 Permit through WDNR.

The third priority is Storm Sewer System Improvements. This program is used to fund smaller storm sewer projects that are not necessarily part of a street project, flood project or water quality project. This program also includes our preventative maintenance work such as storm sewer lining.

The fourth priority is our Street Cleaning Equipment program. This program funds the purchase of street sweepers for debris removal. This work is also related to our TMDL requirements and goals that are mandated under our MS4 Permit.

Prioritized List of Projects

- 1. Citywide Flood Mitigation
- 2. Stormwater Quality System Improvements
- 3. Storm Sewer System Improvements
- Street Cleaning Equipment Streets

Potential for Scaling Capital Requests

In the Stormwater Utility Budget, individual projects are difficult to downscale. Rather than downscale, delays are more appropriate. Some of the minor projects are dependent on the timing of the street or utility work or are needed to be in a certain order to phase multiple improvements over a series of years in order to complete the full scope of overarching project. For example, multiple phase greenway system and pond repairs need to be completed in a certain order to have them perform the way they are designed. Construction out of order may create a situation where the improvements could fail or make the problem worse for others downstream. Some of the projects in which major flood mitigation improvements are being coupled with street projects could potentially be downscaled, however it should be noted that there are opportunity costs associated with this, such as having a new street surface that would have to be destroyed before the end of its useful life in order to add flood mitigation improvements later. Delay of certain projects will undoubtedly put pressure on future budgets to provide funding to maintain the City's goals of flood mitigation and stormwater quality, as mandated by the EPA and WDNR.

Impact of COVID-19 on Capital Funding

The Stormwater Utility budget has barely been impacted by COVID-19. Most projects proposed for 2020 are on track to be completed as planned in the budget, while a few have been slowed due to some lost efficiencies and reduced staffing. There are no major projects that are not anticipated to move forward in 2020 or 2021, though some have been delayed a few months as we regrouped to work remotely.

c.c. Christy Baumel, Deputy City Mayor

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2021 Capital Improvement Plan Capital Budget Proposal

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 Agency
 Stormwater Utility
 Proposal Name
 Citywide Flood Mitigation

 Project Number
 11513
 Project Type
 Program

 Project Category
 Utility
 Priority:
 1

 2021 Project Number
 13155

Description

This program is for stormwater network improvements where flooding occurs during large rain events. The goal of the program is to eliminate flooding and protect property from damage. Projects planned in 2021 include: the Hawks Landing North subdivision improvements, design of pond improvements, flood mitigation on South Street, land acquisition, and flood mitigation installations that are scheduled with street reconstruction projects.

Budget Information

Prior Appropriation* \$12,821,743 Prior Year Actual* \$9,286,415
*Based on Fiscal Years 2015-2019

Budget by Funding Source

Funding Source	2021	2022	2023	2024	2025	2026
Non-GF GO Borrowing - Stormwater	1,985,250	5,502,750	2,308,500	800,000	847,500	142,500
Reserves Applied - Stormwater	661,750	1,834,250	939,500		282,500	47,500
TIF Proceeds	3,000,000	2,200,000				
Impact Fees	878,000			320,000		
Total	\$6,525,000	\$9,537,000	\$3,248,000	\$1,120,000	\$1,130,000	\$190,000

Budget by Expenditure Type

Expense Type		2021	2022	2023	2024	2025	2026
Stormwater Network		6,525,000	9,537,000	3,248,000	1,120,000	1,130,000	190,000
	Total	\$6,525,000	\$9,537,000	\$3,248,000	\$1,120,000	\$1,130,000	\$190,000

Explain any changes from the 2020 CIP in the proposed funding for this program.

The major changes that appear in this submittal compared to last year include the inclusion of TIFF funds to pay for regional flood mitigation improvements. Additional funds were also added with impact fees to fund improvements in existing impact fee districts. Minor projects such as Hawks Landing North Flood Mitigation were not included in last year's budget as the flood modeling was not yet completed. Additional lands for regional stormwater improvements were not included in last year's budget either as the lands were not yet ready for development, however the developer of those properties are currently working on their land use entitlements. The Spring Harbor Relief Storm sewer was not specifically identified, however funds for large regional flood mitigation efforts were shown as unallocated knowing there would be an opportunity to install the relief system concurrently with the street improvement project.

Priority

 Citywide Element
 Green and Resilient

 Strategy
 Does not meet a strategy.

Describe how this project advances the Citywide Element:

The goal of this program is to reduce flooding on a local and regional scale. Improvements listed will protect property and will provide flood mitigation on roadways for vehicles, bicycles and pedestrians while also improving street and roadway access for emergency vehicles during large rain events.

Project Schedule & Location

2021 Projects

Project name	Est Cost	Location
Local Flood Mitigation - Davies/Major/Maher	\$100,000	Davies/Major/Maher neighborhood
Local Flood Mitigation - South St	\$125,000	South Street from Midland to Wingra Parkway
Regional Flood Mitigation - Spring Harbor Relief Storm Sewer - Phase 1	\$4,300,000	Old Middleton Road and Craig Avenue
Regional Flood Mitigation - Hawks Landing North (land acquisition)	\$1,000,000	3394 Sugar Maple Lane
Regional Flood Mitigation - Herling property (land acquisition)	\$1,000,000	10250 Mineral Point Rd

Explain the justification for selecting projects planned for 2021:

Backyard Drainage and Local Flood Mitigation funds are used for projects that come up during the year that can address smaller scale flood mitigation efforts. There is no funding for Backyard Drainage in 2021

It is anticipated that several large flood mitigation projects will be identified in the 11 Watershed Studies that Engineering will be conducting in 2019-2020. Flood relief projects that were previously in design or which are incorporated into a street project have been identified and programmed in 2021.

2022 Projects

Project Name	Est Cost	Location
Local Flood Mitigation -	\$875,000	Davies/Major/Drexel/Monona Neighborhood
Davies/Major/Drexel/Monona		
Regional Flood Mitigation -	\$2,200,000	Winnebago/Eastwood/Amoth/Atwood Neighborhood
Winnebago/Eastwood/Amoth/Atwood		
Regional Flood Mitigation - Spring Harbor Relief	\$3,150,000	Univeristy Ave to Lake Mendota Drive; Lake Mendota Drive to Norman Way
Storm Sewer - Phase 2		
Regional Flood Mitigation - Norman Way/Wood	\$900,000	Norman Way from Wood Circle to Lake Mendota
Circle		
Regional Flood Mitigation - Hawks Landing North	\$1,680,000	3394 Sugar Maple Lane
(construction)		
Regional Flood Mitigation - Old Sauk Trails Business	\$732,000	8308 Excelsior Dr
Park Pond (construction)		

Explain the justification for selecting projects planned for 2022:

Regional flood mitigation efforts on Winnebago/Eastwood/Amoth/Atwood have been previously identified in the 2019 budget for 2022.

Backyard Drainage and Local Flood Mitigation funds are used for projects that come up during the year that can address smaller scale flood mitigation efforts. There is no funding for Backyard Drainage in 2022.

It is anticipated that several large flood mitigation projects will be identified in the 11 Watershed Studies that Engineering will be conducting in 2019-2020. Flood relief projects that were previously in design or which are incorporated into a street project have been identified and programmed in 2022. Other regional flood mitigation projects that are included coincide with a previously programmed street project.

2023 Projects

Project Name	Est Cost	Location
Local Flood Mitigation - Richard/Silver	\$900,000	Richard St From Schenk Avenue to Silver Rd
Regional Flood Mitigation - Lake Mendota Drive - East	\$1,448,000	Lake Mendota Drive from East end to Spring Harbor Drive
Unallocated Regional Flood Mitigation	\$900,000	Locations TBD

Explain the justification for selecting projects planned for 2023:

Backyard Drainage and Local Flood Mitigation funds are used for projects that come up during the year that can address smaller scale flood mitigation efforts. There is no funding for Backyard Drainage budgeted in 2023.

It is anticipated that several large flood mitigation projects will be identified in the Watershed Studies that Engineering will be conducting. Unallocated funds are being set aside for design, permitting and construction of those projects. Other regional flood mitigation projects that are included coincide with a previously programmed street project.programmed in 2023.

2024 Projects

Project name	Est Cost	Location
Danisa de Clarad Militaria de Mantes Carres (la cada	\$1,120,000	Marty Rd at Raymond Rd
Regional Flood Mitigation - Marty Farm (land acquisition		
(VVIII Combatter)		Annual Communication

2025 D	Projects			
20251		roject name	Est Cost	Location
			\$380,000	
Local F	Flood Mitigation -	Dawes/Lansing/Leon	\$300,000	Dawes/Lansing/Leon Neighborhood
Unallo	ocated Regional Flo	ood Mitigation	\$750,000	Locations TBD
Explair	n the justification	n for selecting projects plani	ned for 2025:	
	ard Drainage and g for Backyard D	_	s are used for projects	s that come up during the year that can address smaller scale flood mitigation efforts. There is no
permi t		ral large flood mitigation projection of those projects.	cts will be identified in t	he Watershed Studies that Engineering will be conducting. Unallocated funds are being set aside for designation
		roject name	Est Cost	Location
Backy	ard Drainage		\$50,000	Locations TBD
Local			\$140,000	Didroupy/Deindahl/Cahadaman Daulay Naishbarhaad
Explair Backya that sev constru Dera	n the justification and Drainage and veral large flood muchion of those proting Costs	chedeman, Rowley In for selecting projects plant Local Flood Mitigation funds itigation projects will be identi jects.	s are used for projects fied in the Watershed S	Ridgeway/Reindahl/Schedeman, Rowley Neighborhood s that come up during the year that can address smaller scale flood mitigation efforts.It is anticipat tudies that Engineering will be conducting. Unallocated funds are being set aside for design, permitting ar
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2021 Capital Budget Agency Requests 411

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Submitted

2021 Capital Improvement Plan Capital Budget Proposal

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 Agency
 Stormwater Utility
 Proposal Name
 Storm Sewer System Imp

 Project Number
 11664
 Project Type
 Program

 Project Category
 Utility
 Priority:
 3

 2021 Project Number
 13156

Description

This program is for improvements to the storm sewer network. The goal of this program is to ensure a reliable storm sewer system for City residents. Projects planned in 2021 include cured in place piping (CIPP), waterway improvements consisting of various low cost improvements to the stormwater network, system improvements at South Street and storm sewer repairs at Spring Trail.

Budget Information

Prior Appropriation* \$646,188 Prior Year Actual* \$410,085
*Based on Fiscal Years 2015-2019

Budget by Funding Source

Funding Source	2021	2022	2023	2024	2025	2026
Non-GF GO Borrowing - Stormwater	276,600	148,200	144,000	100,200	121,800	109,800
Reserves Applied - Stormwater	184,400	98,800	96,000	66,800	81,200	73,200
Total	\$461,000	\$247,000	\$240,000	\$167,000	\$203,000	\$183,000

Budget by Expenditure Type

Expense Type	2021	2022	2023	2024	2025	2026
Stormwater Network	461,000	247,000	240,000	167,000	203,000	183,000
To	otal \$461,000	\$247,000	\$240,000	\$167,000	\$203,000	\$183,000

Explain any changes from the 2020 CIP in the proposed funding for this program.

There were no significant changes in this program from the 2020 budget submittal.

Priority

 Citywide Element
 Green and Resilient

 Strategy
 Does not meet a strategy.

Describe how this project advances the Citywide Element:

The goal is to continue to improve and replace components of the aging and failing storm sewer system. This can be done with a full replacement or repairs and preventative maintenance of the system.

Project Schedule & Location

2021 Projects

Project name	Est Cost	Location
Cured In Place Pipe (CIPP)	\$20,000	various locations

Project name	Est Cost	Location
Citid- Standard Inc.	\$200,000	various locations
Citywide Stormwater Improvements (ULO and Waterways)		
Stormwater Only Project - Spring Trail Drain	\$80,000	Spring Trail at the UW Arboretum
Stormwater Only - South Street	\$161,000	South Street from Midland to Wingra Parkway

Explain the justification for selecting projects planned for 2021:

CIPP projects are on-going preventative maintenance practices; the ULO contract is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to save time and money with costly delays and redesigns; Waterways is a yearly group of smaller projects that is performed by City Operations to complete repairs in-house vs hiring contractors to perform repairs to the storm sewer system.

The South Street project is a project to upgrade the storm sewer system in a flood prone area. These funds are supplementing funding in the Citywide Flood Mitigation program to upsize storm sewers for a 100 year event.

The Spring Trail Drain repair is in conjunction with UW Arboretum to collaborate on a failing section of pipe that discharges onto Arboretum lands.

2022 Projects

Project Name	Est Cost	Location
Correct to Disease Diseas (CIDD)	\$22,000	various locations
Cured In Place Pipe (CIPP)		
Citavida Characanata Incorporata (III O and	\$225,000	various locations
Citywide Stormwater Improvements (ULO and Waterways)		

Explain the justification for selecting projects planned for 2022:

CIPP projects are on-going preventative maintenance practices; the ULO contract is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to save time and money with costly delays and redesigns; Waterways is a yearly group of smaller projects that is performed by City Operations to complete repairs in-house vs hiring contractors to perform repairs to the storm sewer system.

2023 Projects

Project Name	Est Cost	Location
Cured In Place Pipe (CIPP)	\$20,000	various locations
itanida Stanovata Innovata (III.O and	\$220,000	various locations
Citywide Stormwater Improvements (ULO and Waterways)		

Explain the justification for selecting projects planned for 2023:

CIPP projects are on-going preventative maintenance practices; the ULO contract is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to save time and money with costly delays and redesigns; Waterways is a yearly group of smaller projects that is performed by City Operations to complete repairs in-house vs hiring contractors to perform repairs to the storm sewer system.

2024 Projects

Project name	Est Cost	Location
Cured In Place Pipe (CIPP)	\$17,000	various locations
Citywide Stormwater Improvements (ULO and	\$150,000	various locations
Waterways)		

Explain the justification for selecting projects planned for 2024:

CIPP projects are on-going preventative maintenance practices; the ULO contract is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to save time and money with costly delays and redesigns; Waterways is a yearly group of smaller projects that is performed by City Operations to complete repairs in-house vs hiring contractors to perform repairs to the storm sewer system.

2025 Projects

Project name	Est Cost	Location
Cured In Place Pipe (CIPP)	\$20,000	various locations
Citywide Stormwater Improvements (ULO and Waterways)	\$183,000	various locations

Explain the justification for selecting projects planned for 2025:

CIPP projects are on-going preventative maintenance practices; the ULO contract is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to save time and money with costly delays and redesigns; Waterways is a yearly group of smaller projects that is performed by City Operations to complete repairs in-house vs hiring contractors to perform repairs to the storm sewer system.

2026 Projects

Project name	Est Cost	Location	
C	\$20,000		
Cured In Place Pipe (CIPP)		various locations.	
2021 Capital Budget		Agency Requests	413

	P	roject name	Est Cost	Location
Citywide Stormwater Improvements (ULO and Waterways)		\$163,000	various locations	
Explain	the justification	n for selecting projects planned	l for 2026:	
save tim	ne and money wit			ct is used on a yearly basis to help identify utility conflicts prior to construction of public works contracts to oup of smaller projects that is performed by City Operations to complete repairs in-house vs hiring
)perat	ting Costs			
What are	the estimated a	annual operating costs associat	ed with the projec	cts planned within this program?
ersonnel	I			
# of FTEs	Annual Cost	Description		
			ts will continue to ris	staffing needs to maintain this program, however it should be noted as the system continues to expand, ou se. However doing small upgrades as part of the preventative maintenance portion of this program will be
lon-Perso	onnel			
Major	Amount	Description		
		repairs which is normally seen in	a system with aging	reduce issues with maintenance and cleaning, which will eventually lead to less staff time or contractor g and failing infrastructure. However as stated above, there will be a tipping point where the city and the fing and maintenance costs that we currently have.
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es:				
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2021 Capital Improvement Plan Capital Budget Proposal

				Capital Bac	iget Proposa	•							
Identif	ying Informat	ion											
Agency		Stormwater Util	ity	Proposa	al Name	Stormwater Quality Sys	ate.						
Project N	lumber	11665		Project	Project Type Program								
Project C	Category	Utility		Priority		2							
-	ject Number	13157		•		2							
2022110	,jeet Humber	15157											
Descripti	ion												
quality of	the stormwater and	compliance with	n environmental guid	lelines and initiatives	. Projects within the	vater discharge permit. e program are prioritize Smaller projects includ	d annually and incl	ude: greenway					
_	Information												
	Appropriation* on Fiscal Years 2015-20	19	\$3	,816,037 Prior Yea r	· Actual*	\$376,022							
Budget by	Funding Source												
Non CE C	Funding Source		2021	2022	2023	2024	2025	2026					
	O Borrowing - Storr		2,345,000	3,029,500	1,286,500 263,500	195,000	124,500 25,500	697,200					
Reserves	Applied - Stormwate	Total	\$2,825,000	\$3,650,000	\$1,550,000	\$235,000	\$150,000	\$840,000					
Buaget by	Expenditure Typ	e	2021	2022	2023	2024	2025	2026					
Stormwat	er Network		2,825,000	3,650,000	1,550,000	235,000	150,000	840,000					
		Total	\$2,825,000	\$3,650,000	\$1,550,000	\$235,000	\$150,000	\$840,000					
The change keep the ag needed to	es from this budget s gressive schedules to complete the work.	submittal versus o help meet our t We have also ad	the 2020 budget sub flood mitigation and ded in the dredging a	stormwater quality g	al projects are now oals. This budget w ch is a maintenance	r anticipated to be consi vill rely on the carryover e dredging that is typica naintained.	amounts from 202	0 to have the funding					
Priority			silient										
Priority	Citywide Element	Green and Re	oc.r.c		Strategy Improve lake and stream water uality								
Priority	Citywide Element Strategy				mprove lake and st	ream water uality							
Priority	Citywide Element Strategy Describe how this This program direct	project advance	s the Citywide Element	ent: oved lake and stream	water quality. The	ream water uality removal and reduction es of the Rock River TM		s (TP) and Total Susper					

Agency Requests

2021 Capital Budget

Project name	Est Cost	Location
Greenway - Sauk Creek Phase 3 & 4 (design and construction)	\$1,445,000	Tree Lane to High Point Road
Greenway - Old Sauk Trails Business Park (design and permits)	\$120,000	8308 Excelsior Drive
Greenway - Hickory Hollow (design and permits)	\$120,000	6024 Old Middleton Road
Pond - Curtis /Coyote Pond - agreement with UW- Madison Arboretum	\$500,000	UW Arboretum, Longenecker Dr, Madison, WI 53713
Spring Harbor Dredge	\$165,000	5218 Lake Mendota Drive, Madison, WI
Unallocated Rain Gardens and Green Infrastructure	\$75,000	various locations TBD
Other Water Quality BMP - Hawks Landing Sediment Traps	\$25,000	Hawks Landing Golf Course
Gway- Mendota Spring Harbor - Regent (design/permits)	\$125,000	5348 Regent St, Madison, WI
Gway - Mendota Spring Harbor - South Hill (design/permits)	\$125,000	5399 Regent St, Madison, WI
Gway - Mentoda Spring Harbor - Masthead (design/permits)	\$125,000	101 Nautilus Drive, Madison, WI

Explain the justification for selecting projects planned for 2021:

Planning for the Sauk Creek greenway corridor has occurred over the last 6 years. The historic flood in 2018 put plans on hold until the City's comprehensive watershed studies were completed to help inform flood mitigation measures in addition to greenway restoration. Planning, design and permitting for the pond at Old Sauk Business Park will occur in 2020 while construction will commence in 2021. The greenway at Hickory Hollow has been requested by property owners who have had flooding and drainage issues. The Stricker's/Mendota Watershed Study will be completed in 2020 and will provide alternatives for the Hickory Hollow greenway and channel repairs. In addition to mitigation of flooding, this project will also provide Total Phosphorus (TP) and Total Suspended Solid (TSS) removal prior to discharging to Lake Mendota. The Curtis Pond and Coyote Pond are in conjunction with an Intergovernmental Agreement between the City of Madison, City of Fitchburg, Town of Madison, WDOT and UW Madison-Wisconsin, which addressed joint funding for stormwater management and construction improvements that drain to the UW-Madison Arboretum lands. In 2020 the City will reimburse the UW-Madison Arboretum lands. Madison Arboretum \$500,000 and in 2021 the City will reimburse the remaining \$500,000, in accordance with the IGA. Design and permitting for sections of hte Mendota Spring Harbor greenway system will begin in 2021 while construction is scheduled for 2022 and 2023.

Rain gardens and other Water Quality BMPs will remove and reduce Total Phosphorus and Total Suspended Solids will have a direct correlation to water quality and will help meet our goals and mandates of the Rock River TMDL. Green infrastructure initiatives are included in addition to funding for the 5 year pilot program that incentizes private property owners to install green infrastructure on their private

The City's WDNR/EPA stormwater discharge permit calls for the dredging of stormwater management ponds and is required under Chapter NR 528, Wis. Adm. Code, Management of Accumulated Sediment from Storm Water Management Structures.

Project Name	Est Cost	Location
Greenway - Mendota Spring Harbor - Regent Street	\$325,000	5348 Regent Street, Madison, WI
Greenway - Hickory Hollow	\$1,350,000	6024 Old Middleton Road, Madison, WI
, ,		
Dunden Corner Book Bond	\$250,000	333 S. Rosa Road, Madison, WI
Dredge - Garner Park Pond		
	\$520,000	3394 Sugar Maple Lane, Madison, WI
Hawks Landing North Pond		
	\$1,000,000	8308 Excelsior Drive, Madison, WI
Old Sauk Trails Business Park Pond		
	\$75,000	various locations TBD
Unallocated Rain Gardens and Green Infrastructure		
	\$25,000	Hawks Landing Golf Course
Other Water Quality BMP - Hawks Landing Sediment	720,000	
Traps		

Explain the justification for selecting projects planned for 2022:

The Mendota Spring Harbor and Hickory Hollow greenways are now to the point where they require a major renovation to improve conveyance, reduce flooding, reduce erosion and increase water quality. These sections of greenways are in the Spring Harbor Watershed Study, which will be completed in 2020 and will provide alternatives for the greenway and channel repairs.

In addition to helping with flood mitigation, routine maintenance of greenways, ponds and rain gardens will remove and reduce Total Phosphorus and Total Suspended Solids will have a direct correlation to water quality and will help meet our goals and mandates of the Rock River TMDL.

The pond improvements for Old Sauk Trails Buisness Park are long overdue since this area has silted in and now has many invasive tree species that compromise the functionality of the pond. This pond, in addition to storwater quality will be reviewed with the Pheasant Branch Watershed plan and will incorporate flood mitigation efforts as well. The Hawks Landing pond will be a new construction to help mitigate flooding that has historicall occurred in this area.

The City's WDNR/EPA stormwater discharge permit calls for the dredging of stormwater management ponds and is required under Chapter NR 528, Wis. Adm. Code, Management of Accumulated Sediment from Storm Water Management Structures.

2023 Projects

Project Name	Est Cost	Location
Gway - Mendota Spring Harbor - South Hill	\$450,000	5399 Regent St, Madison, WI
	40-000	
Gway - Mentoda Spring Harbor - Masthead	\$350,000	101 Nautilus Drive, Madison, WI
Greenway - Baker / Camelot	\$350,000	5899 Taychopera Road and 1842 Camelot Drive, Madison, WI
Greenway - Baker / Camelot		
Warner Park Laguens Improvements	\$300,000	2930 N Sherman Ave, Madison, WI
Warner Park Lagoons Improvements		
	\$75,000	various locations TBD
Unallocated Rain Gardens and Green Infrastructure		
	\$25,000	Hawks Landing Golf Course
Other Water Quality BMP - Hawks Landing Sediment Traps		

Explain the justification for selecting projects planned for 2023:

The Mendota Spring Harbor and Baker / Camelot greenways are now to the point where they require a major renovation to improve conveyance, reduce flooding, reduce erosion and increase water quality. These sections of greenways are in the Spring Harbor Watershed Study, which will be completed in 2020 and will provide alternatives for the greenway and channel repairs.

The City has been working on a master plan for the Warner Park Lagoons for several years. Recommendations for improvements for access and water quality topped the list. The Engineering Division and Parks Division will be working on implementation of the master plan recommendations, which include better treatment of water before it enters the lagoon and dredging of accumulated sediments to provide better aquatic habitat.

In addition to helping with flood mitigation, routine maintenance of greenways, ponds and rain gardens will remove and reduce Total Phosphorus and Total Suspended Solids will have a direct correlation to water quality and will help meet our goals and mandates of the Rock River TMDL. Shoreline maintenance locations are unknown at this time and unallocated funds will be available to complete routine maintenance to ensure our shoreline integrity.

The City's WDNR/EPA stormwater discharge permit calls for the dredging of stormwater management ponds and is required under Chapter NR 528, Wis. Adm. Code, *Management of Accumulated Sediment from Storm Water Management Structures*.

2024 Projects

Project name	Est Cost	Location
Unallocated Pond	\$135,000	Location TBD
	\$75,000	various locations TBD
Unallocated Rain Gardens and Green Infrastructure	<i>\$13,000</i>	Tarious ideations 199
Other Water Quality BMP - Hawks Landing Sediment	\$25,000	Hawks Landing Golf Course
Traps		

Explain the justification for selecting projects planned for 2024:

In addition to helping with flood mitigation, routine maintenance of greenways, ponds and rain gardens will remove and reduce Total Phosphorus and Total Suspended Solids will have a direct correlation to water quality and will help meet our goals and mandates of the Rock River TMDL.

The City's WDNR/EPA stormwater discharge permit calls for the dredging of stormwater management ponds and is required under Chapter NR 528, Wis. Adm. Code, Management of Accumulated Sediment from Storm Water Management Structures.

2025 Projects

Project name	Est Cost	Location
Unallocated Dredge	\$75,000	Location TBD
Unallocated Rain Gardens and Green Infrastructure	\$75,000	various locations TBD

Explain the justification for selecting projects planned for 2025:

In addition to helping with flood mitigation, routine maintenance of greenways, ponds and rain gardens will remove and reduce Total Phosphorus and Total Suspended Solids will have a direct correlation to water quality and will help meet our goals and mandates of the Rock River TMDL.

The City's WDNR/EPA stormwater discharge permit calls for the dredging of stormwater management ponds and is required under Chapter NR 528, Wis. Adm. Code, Management of Accumulated Sediment from Storm Water Management Structures.

2026 Projects

Project name	Est Cost	Location
Olbrich parking lot Stormwater Quality Improvements	\$14,500	3301 Atwood Avenue, Madison, WI

	P	roject name	Est Cost	Location
Unallo	cated Rain Gard	ens and Green Infrastructure	\$75,000	various locations TBD
James Madison Park Shoreline \$750,000 6			\$750,000	652 E Gorham Street, Madison, WI
Explain	the justification	for selecting projects planned	for 2026:	
stormw	ater quality con	trols and drains directly to the la	ke.	unction with the Atwood Avenue reconstruction project. The parking lot currently has no replacement. Engineering and Parks Divisions will share the costs of the repairs.
	ing Costs			
/hat are		nnual operating costs associate	d with the projec	ts planned within this program?
# of FTEs	Annual Cost	Description		
		comprehensive look at our progreenways and better manager housed in the operating budge	grams and with the ment practices, m tand as those stu	or staffing needs to maintain this program, however it should be noted that we are taking a ne increase in green infrastructure initiatives, continued expansion of our sysetm of ponds and aintaining the status quo is not sustainable over the long run. The wastershed studies are current idies come to a close the construction of the new improvements will ramp up. It is anticipated e next 5-8 years can be used to offset the cost of maintenance and additional staff that may be
on-Perso	onnel			
Major	Amount	Description		
		contractor repairs which is nor	mally seen in a sy	help reduce issues with maintenance and cleaning, which will eventally lead to less staff time or setm with aging and failing infrastructure. However, as stated above, there will be a tipping point and will outpace the staffing and maintenance costs that we currently have.
		IL .		
es				
es s:				

Submitted

2021 Capital Improvement Plan Capital Budget Proposal

Identifying Information

 Agency
 Stormwater Utility
 Proposal Name
 Street Cleaning Equipment

 Project Number
 10554
 Project Type
 Program

 Project Category
 Other
 Priority:
 4

 2021 Project Number
 13154

Description

This program is for replacing existing street sweeping machines operated by the Streets Division. The City's street sweeping equipment life cycle is five years with interim maintenance. The goal of this program is to reduce the discharge of pollutants and solids to the lakes by removing material from the streets surface before it is mixed with storm water runoff. Funding in 2021 will be used to replace two mechanical street cleaning vehicles.

Budget Information

Prior Appropriation* \$2,174,561 Prior Year Actual* \$2,096,680
*Based on Fiscal Years 2015-2019

Budget by Funding Source

Funding Source	2021	2022	2023	2024	2025	2026
Reserves Applied - Stormwater	410,000	420,000	275,000	425,000	425,000	446,000
Trade In Allowance	45,000	45,000	25,000	45,000	45,000	47,000
Total	\$455,000	\$465,000	\$300,000	\$470,000	\$470,000	\$493,000

Budget by Expenditure Type

Expense Type	2021	2022	2023	2024	2025	2026
Machinery and Equipment	455,000	465,000	300,000	470,000	470,000	493,000
Т	otal \$455,000	\$465,000	\$300,000	\$470,000	\$470,000	\$493,000

Explain any changes from the 2020 CIP in the proposed funding for this program.

There have been no changes to the proposed budget for this program.

Priority

 Citywide Element
 Green and Resilient

 Strategy
 Improve lake and stream water uality

Describe how this project advances the Citywide Element:

The City attempts to sweep all areas of the City on a 24-day cycle and downtown areas weekly during the spring, summer and fall months. Additionally, street sweepers are used to sweep immediately (within 24 hour period) after leaf collection. Sweeping reduces the total suspended solids (TSS) and total phosphorous (TP) that enters the storm sewer system, lakes and other water bodies.

Project Schedule & Location

2021 Projects

Project name	Est Cost	Location
Marking and Francisco Declaration	\$455,000	NA
Machinery and Equipment Replacement		

Explain the justification for selecting projects planned for 2021:

2 Projects			
	roject Name	Est Cost	Location
chinery and Equipme	ent Replacement	\$465,000	NA
lain the justificatio	n for selecting projects plan	ned for 2022:	
placement of machine	ry and equipment is on a 5-yea	ır cycle. In 2020, 2021, 2	2022, 2024 and 2025 (2) mechanical sweepers will be replaced per year.
23 Projects		5.0.	
Ρ.	roject Name	\$300,000	NA NA
lachinery and Equipme	ent Replacement	\$300,000	IVA
plain the justificatio	n for selecting projects plan	ned for 2023:	
2023 the existing vacu	um sweeper will be replaced.		
24 Projects			
P	roject name	Est Cost	Location
lachinery and Equipme	ent Replacement	\$470,000	NA
plain the justificatio	n for selecting projects plan	ned for 2024:	
			2024, 2025 and 2026 (2) mechanical sweepers will be replaced per year.
	ry and equipment is on a 3-yea	cycic. III 2021, 2022, 2	.o.z., 2020 and 2020 (2) incomained sweepers will be replaced per year.
25 Projects			Location
D	roiect name	Est Cost	
P	roject name	\$470.000	Location
P lachinery and Equipme		\$470,000	NA
lachinery and Equipme		\$470,000	
lachinery and Equipme	ent Replacement n for selecting projects plan	\$470,000 ned for 2025:	NA
lachinery and Equipme plain the justificatio placement of machine	ent Replacement n for selecting projects plan	\$470,000 ned for 2025:	
lachinery and Equipme plain the justificatio placement of machine 26 Projects	ent Replacement n for selecting projects plan	\$470,000 ned for 2025:	NA
lachinery and Equipme plain the justificatio placement of machine 26 Projects P	n for selecting projects plan ry and equipment is on a 5-yea	\$470,000 ned for 2025: air cycle. In 2021, 2022, 2	NA 2024, 2025 and 2026 (2) mechanical sweepers will be replaced per year. Location
lachinery and Equipme plain the justificatio placement of machine 26 Projects	n for selecting projects plan ry and equipment is on a 5-yea	\$470,000 ned for 2025: ar cycle. In 2021, 2022, 2	NA 2024, 2025 and 2026 (2) mechanical sweepers will be replaced per year.
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plain the justification placement of machine placement of machi	roject name In for selecting projects plan ry and equipment is on a 5-yea roject name In for selecting projects plan ry and equipment is on a 5-yea annual operating costs associated	\$470,000 ned for 2025: ar cycle. In 2021, 2022, 2 Est Cost \$493,000 ned for 2026: ar cycle. In 2021, 2022, 2 ciated with the project	2024, 2025 and 2026 (2) mechanical sweepers will be replaced per year. Location NA 2024, 2025 and 2026 (2) mechanical sweepers will be replaced per year. cts planned within this program? \$2,350,500 is program as this is just a replacement of the existing equipment. Last year the Stormwater Utility paid down to \$1,564,509.23 Salary/Fringe and \$673,791.56 Other Costs.
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Notes:

v 05/04/2020

City of Madison 2020 Authorized Projects

. Summary Status

Agency:	Stormwater Utility	
# of Projects on Schedule		# of Projects Delayed
4		0

Project	2020 Budget	Status	Notes
Street Cleaning Equipment - Streets	455,000	On schedule	
Citywide Flood Mitigation	3,000,000	On schedule	
Storm Sewer System Improvements	475,000	On schedule	South Street has been delayed until 2021 (\$470,000)
Stormwater Quality System Improvements	2,350,000	On schedule	
TOTAL	\$ 6.280.000		