

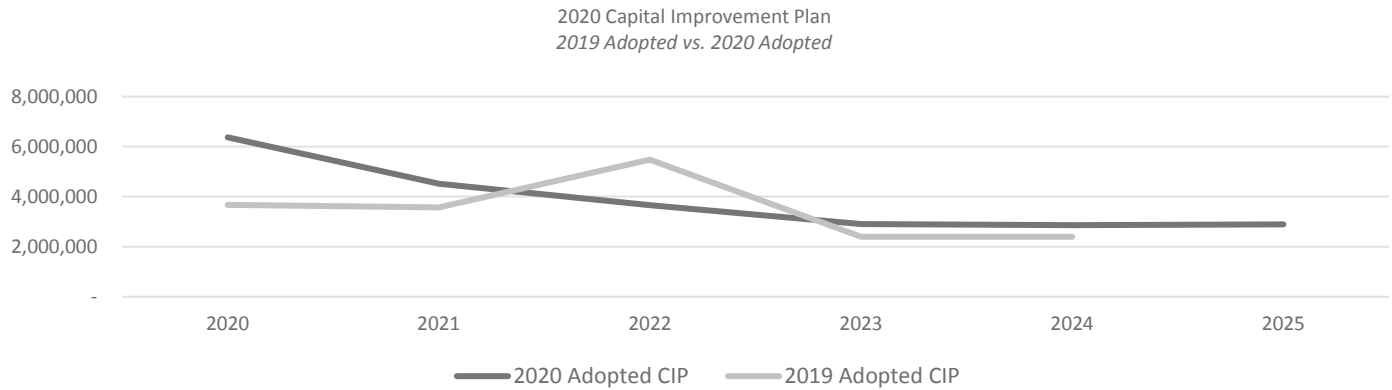
Sewer Utility

Capital Improvement Plan

Project Summary

	2020	2021	2022	2023	2024	2025
Badger Lift Station Replacement/ Rehabilitat	-	-	40,000	400,000	-	-
Citywide Pumping Stations-Emergency Powe	58,000	58,000	58,000	58,000	58,000	60,000
Harper Lift Station Replacement	500,000	-	-	-	-	-
Lake Forest Lift Station Replacement/ Rehab	-	-	-	40,000	400,000	-
Lift Station Rehabilitations	333,000	206,000	174,000	216,000	173,000	156,000
Mayflower Lift Station Replacement/ Rehabi	-	-	-	-	40,000	400,000
Sewer Access Improvements	130,000	220,000	130,000	130,000	130,000	135,000
Sewer Impact Fee Districts	3,082,000	1,000,000	1,200,000	-	-	-
Sewer Reconstruction	620,000	350,000	400,000	400,000	400,000	416,000
Trenchless Sewer Rehabilitation	1,590,000	1,590,000	1,660,000	1,660,000	1,660,000	1,724,000
Truax Lift Station Replacement	60,000	1,100,000	-	-	-	-
Total	\$ 6,373,000	\$ 4,524,000	\$ 3,662,000	\$ 2,904,000	\$ 2,861,000	\$ 2,891,000

Changes from 2019 CIP



Projects Added

- Badger Lift Station Replacement/Rehabilitation: funding added to CIP (\$0.44m)
- Harper Lift Station Replacement: funding added to CIP (\$0.5m)
- Lake Forest Lift Station Replacement/Rehabilitation: funding added to CIP (\$0.44m)
- Mayflower Lift Station Replacement/Rehabilitation: funding added to CIP (\$0.44m)
- Truax Lift Station Replacement: funding added to CIP (\$1.16m)

Sewer Utility

Budget Overview

2020 CIP by Expenditure Type

	2020	2021	2022	2023	2024	2025
Land Improvements	130,000	220,000	130,000	130,000	130,000	135,000
Sanitary Sewer	6,243,000	4,304,000	3,532,000	2,774,000	2,731,000	2,756,000
Total	\$ 6,373,000	\$ 4,524,000	\$ 3,662,000	\$ 2,904,000	\$ 2,861,000	\$ 2,891,000

2020 CIP by Funding Source

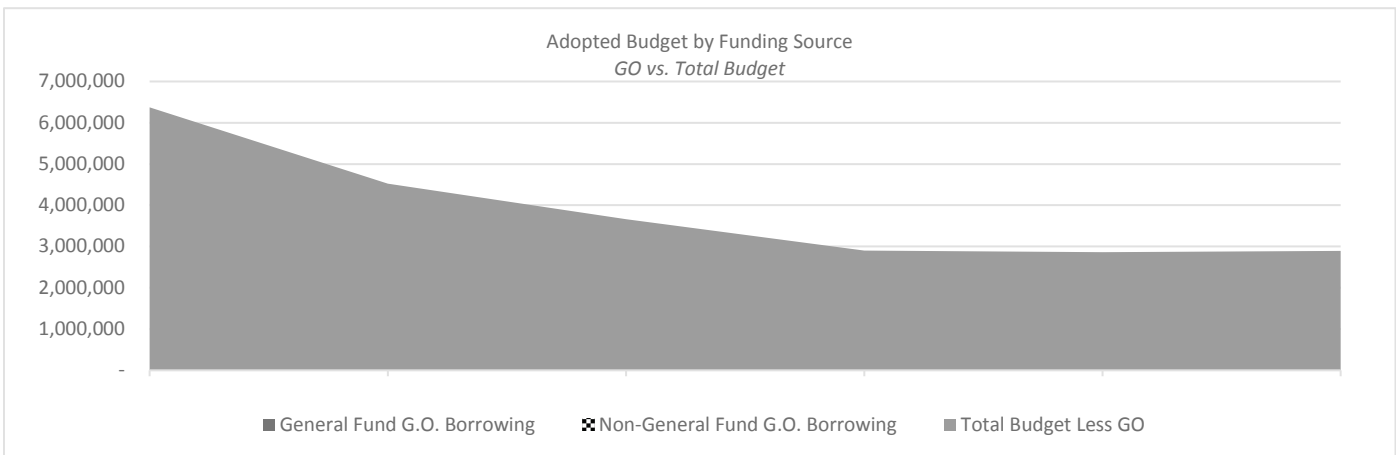
	2020	2021	2022	2023	2024	2025
Impact Fees	3,082,000	1,000,000	1,200,000	-	-	-
Municipal Capital Participate	275,000	-	-	-	-	-
Reserves Applied	1,061,000	1,019,000	892,000	955,000	896,000	863,000
Revenue Bonds	1,950,000	2,500,000	1,565,000	1,944,000	1,960,000	2,023,000
Special Assessment	5,000	5,000	5,000	5,000	5,000	5,000
Total	\$ 6,373,000	\$ 4,524,000	\$ 3,662,000	\$ 2,904,000	\$ 2,861,000	\$ 2,891,000

Borrowing Summary

	2020	2021	2022	2023	2024	2025
Borrowing Schedule						
General Fund G.O. Borrowing	-	-	-	-	-	-
Non-General Fund G.O. Borrowing	-	-	-	-	-	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Annual Debt Service

General Fund G.O. Borrowing	-	-	-	-	-	-
Non-General Fund G.O. Borrowing	-	-	-	-	-	-



Sewer Utility

Project Overview

Project	Badger Lift Station Replacement/ Rehabilitation	Project #	12458
Citywide Element	Effective Government	Project Type	Project

Project Description

This project includes the replacement or rehabilitation of the Badger lift station (101 Nob Hill Road) which has been determined by the Madison Metro Sewerage District (MMSD) to require extensive repairs. This is a Town of Madison owned/ maintained facility; an analysis of the lift station will be needed to determine whether repair work or full lift station replacement is warranted. It is anticipated that this lift station will need to be replaced. MMSD recommended this lift station should be the City's top priority when the lift station is taken over in 2022.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	-	-	40,000	40,000	-	-
Revenue Bonds	-	-	-	360,000	-	-
TOTAL	\$ -	\$ -	\$ 40,000	\$ 400,000	\$ -	\$ -

Project	Citywide Pumping Stations-Emergency	Project #	11510
Citywide Element	Power Stationary Generators	Project Type	Program
	Effective Government		

Project Description

This program is for installing emergency power stationary generators at the City's pumping stations. The goal of the program is to ensure continuous sanitary service in the event of power loss. In 2020 a back-up generators will be purchased for the Arbor Hill Pumping Station.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	58,000	58,000	58,000	58,000	58,000	60,000
TOTAL	\$ 58,000	\$ 58,000	\$ 58,000	\$ 58,000	\$ 58,000	\$ 60,000

Project	Harper Lift Station Replacement	Project #	12456
Citywide Element	Effective Government	Project Type	Project

Project Description

This project is for replacing the Harper lift station. The goal of the project is to maintain the sewer network operations. The station has been identified by the MMSD to require repairs and the replacement. This lift station was built in 1962 and has reached the end of its service life.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	50,000	-	-	-	-	-
Revenue Bonds	450,000	-	-	-	-	-
TOTAL	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -

Project Lake Forest Lift Station Replacement/ Rehabilitation **Project #** 12459
Citywide Element Effective Government **Project Type** Project

Project Description

This project is for replacing the Lake Forest Lift Station. The goal of the project is to maintain the sewer network operations. The facility is currently within the Town of Madison but is anticipated to be acquired by the City of Madison during the future attachment.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	-	-	-	40,000	40,000	-
Revenue Bonds	-	-	-	-	360,000	-
TOTAL	\$ -	\$ -	\$ -	\$ 40,000	\$ 400,000	\$ -

Project Lift Station Rehabilitations **Project #** 10268
Citywide Element Effective Government **Project Type** Program

Project Description

This program is for repairing the Sewer Utility's 29 wastewater lift stations and force mains. The goal of this program is to maintain system reliability and to reduce the number of back-ups or emergency incidents. The City will own and maintain 32 lift stations by October 2022 when the Town of Madison becomes part of the City of Madison.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	333,000	206,000	174,000	216,000	173,000	156,000
TOTAL	\$ 333,000	\$ 206,000	\$ 174,000	\$ 216,000	\$ 173,000	\$ 156,000

Project Mayflower Lift Station Replacement/ Rehabilitation **Project #** 12460
Citywide Element Effective Government **Project Type** Project

Project Description

This project is for replacing the Mayflower Lift Station on Badger Road. The goal of the project is to maintain the sewer network operations. The facility is currently within the Town of Madison but is anticipated to be acquired by the City of Madison during the future attachment.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	-	-	-	-	40,000	40,000
Revenue Bonds	-	-	-	-	-	360,000
TOTAL	\$ -	\$ -	\$ -	\$ -	\$ 40,000	\$ 400,000

Project Sewer Access Improvements **Project #** 10437
Citywide Element Effective Government **Project Type** Program

Project Description

This program is for sewer maintenance access roads, trails, paths and easement acquisitions where access to sanitary sewer access structures is not already well established. The goal of this program is to provide City Operations crews with safe access to maintain the City's sanitary sewer system.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	130,000	220,000	130,000	130,000	130,000	135,000
TOTAL	\$ 130,000	\$ 220,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 135,000

Project Citywide Element **Sewer Impact Fee Districts Effective Government** **Project # 11678**
Project Type **Program**

Project Description

This program is for the extension of sanitary sewer service to developing areas of the City requiring sewer infrastructure installation. The program is funded entirely by Impact Fees, and review for planned projects is conducted annually as dictated by demand for development.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Impact Fees	3,082,000	1,000,000	1,200,000	-	-	-
TOTAL	\$ 3,082,000	\$ 1,000,000	\$ 1,200,000	\$ -	\$ -	\$ -

Project Citywide Element **Sewer Reconstruction Effective Government** **Project # 10267**
Project Type **Program**

Project Description

This program is for replacing old, problematic sewers throughout the City. The goal of this program is to alleviate emergency sewer repairs and back-ups by replacing the sewer infrastructure that is past its useful life. Coordination for the replacement of these sewers often gets completed with the Reconstruct Streets and Pavement Management programs within the Engineering-Major Streets budget. This program uses a case-by-case basis to evaluate the replacement of the sewers beneath streets.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Municipal Capital Participate	275,000	-	-	-	-	-
Reserves Applied	90,000	95,000	110,000	91,000	75,000	78,000
Revenue Bonds	250,000	250,000	285,000	304,000	320,000	333,000
Special Assessment	5,000	5,000	5,000	5,000	5,000	5,000
TOTAL	\$ 620,000	\$ 350,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 416,000

Project Citywide Element **Trenchless Sewer Rehabilitation Effective Government** **Project # 10450**
Project Type **Program**

Project Description

This program is for rehabilitating failing sewers by lining the existing sewer mains using cameras and remote controlled tools. The goal of this program is to repair seven miles of sewer mains at selected locations based on need. This program prioritizes backyard sewer mains.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	340,000	340,000	380,000	380,000	380,000	394,000
Revenue Bonds	1,250,000	1,250,000	1,280,000	1,280,000	1,280,000	1,330,000
TOTAL	\$ 1,590,000	\$ 1,590,000	\$ 1,660,000	\$ 1,660,000	\$ 1,660,000	\$ 1,724,000

**Project
Citywide Element**

**Truax Lift Station Replacement
Effective Government**

**Project #
Project Type**

**12457
Project**

Project Description

This project is for replacing the Truax lift station. The scope of the project includes the lift station building structure, electrical system, and pumps. The facility was built in 1942 and has reached the end of its service life.

Project Budget by Funding Source

	2020	2021	2022	2023	2024	2025
Reserves Applied	60,000	100,000	-	-	-	-
Revenue Bonds	-	1,000,000	-	-	-	-
TOTAL	\$ 60,000	\$ 1,100,000	\$ -	\$ -	\$ -	\$ -

Sewer Utility

2020 Appropriation Schedule

2020 Appropriation

Adopted Budget

	Request	Executive	GO Borrowing	Other	Total
Citywide Pumping Stations-Emergency Power Stationary Generators	58,000	58,000	-	58,000	58,000
Harper Lift Station Replacement	500,000	500,000	-	500,000	500,000
Lift Station Rehabilitations	333,000	333,000	-	333,000	333,000
Sewer Access Improvements	130,000	130,000	-	130,000	130,000
Sewer Impact Fee Districts	3,082,000	3,082,000	-	3,082,000	3,082,000
Sewer Reconstruction	620,000	620,000	-	620,000	620,000
Trenchless Sewer Rehabilitation	1,590,000	1,590,000	-	1,590,000	1,590,000
Truax Lift Station Replacement	60,000	60,000	-	60,000	60,000
Total 2020 Appropriation	\$ 6,373,000	\$ 6,373,000	\$ -	\$ 6,373,000	\$ 6,373,000