

Sewer Utility

Capital Improvement Plan (CIP) Overview

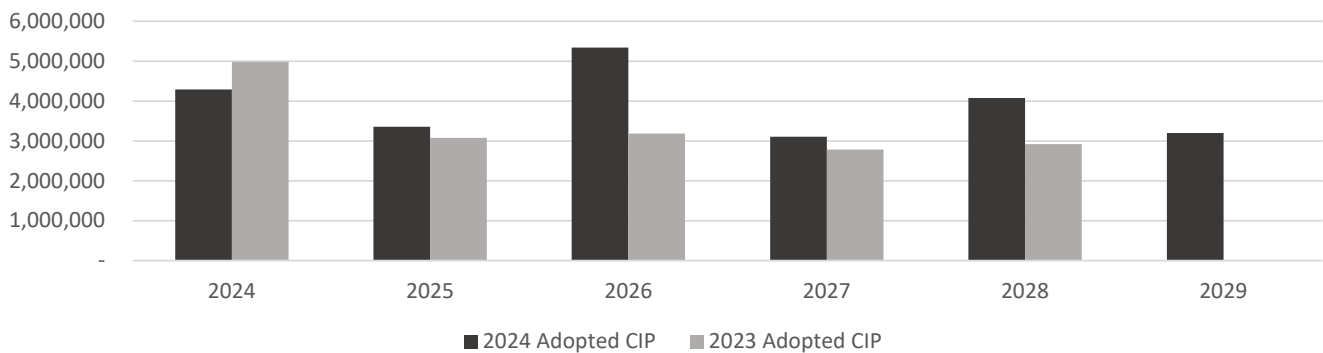
Budget Phase: Adopted

Summary Table

	2024	2025	2026	2027	2028	2029
Citywide Pumping Stations-Emergency Power Stationary Generators	61,000	61,000	63,000	66,000	69,000	72,000
Lift Station Rehabilitation and Replacement	1,042,000	890,000	950,000	385,000	260,000	260,000
Sewer Access Improvements	130,000	135,000	142,000	149,000	156,000	156,000
Sewer Backwater Valve Reimbursement	40,000	40,000	40,000	40,000	42,000	42,000
Sewer Impact Fee Districts	-	20,000	1,500,000	20,000	1,000,000	-
Sewer Reconstruction	1,172,000	400,000	448,000	452,000	452,000	472,000
Trenchless Sewer Rehabilitation	1,848,000	1,810,000	1,900,000	1,995,000	2,095,000	2,199,000
Utility Materials Handling Site	-	-	300,000	-	-	-
	\$ 4,293,000	\$ 3,356,000	\$ 5,343,000	\$ 3,107,000	\$ 4,074,000	\$ 3,201,000

Changes from 2023 Adopted CIP

2024 Capital Improvement Plan
2024 Adopted Compared to 2023 Adopted



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Capital Improvement Plan (CIP) Overview

Description of Major Changes

Citywide Pumping Stations-Emergency Power Stationary Generators

- No major changes compared to 2023 Adopted CIP.

Lift Station Rehabilitation and Replacement

- Program budget increased by \$320,000 in Municipal Capital Participate in 2024, \$213,000 in Reserves Applied from 2024-2028, and \$210,000 in Revenue Bonds from 2024-2028. This reflects a 26.7% increase.
- The above increases in Reserves Applied and Revenue Bonds are offset by a corresponding decrease in the Sewer Utility's funding in the Major Streets - Pavement Management program.

Sewer Access Improvements

- No major changes compared to 2023 Adopted CIP.

Sewer Backwater Valve Reimbursement

- No major changes compared to 2023 Adopted CIP.

Sewer Impact Fee Districts

- Funding for the Felland Area Impact Fee was delayed from 2024 to 2026 due to no pending development in the area.
- Program budget increased by \$20,000 in Reserves Applied in 2025 and 2027 to provide funding for planning activities.
- Program budget increased by \$1.0 million in Impact Fees in 2024 for the addition of the Transit Oriented Development Overlay Zoning Sewer Impact Fee District.

Sewer Reconstruction

- Program budget increased by \$970,000 from 2024-2028 compared to 2023 Adopted CIP (\$300,000 in Non-GF GO Borrowing, \$321,000 in Reserves Applied, and \$352,000 in Revenue Bonds). This reflects a 49.6% increase.
- \$300,000 of Non-GF GO Borrowing (TID 52) was added in 2024 for sewer improvements on the 3400 block of E Washington Ave.
- The above increases in Reserves Applied and Revenue Bonds are offset by a corresponding decrease in the Sewer Utility's funding in the Major Streets - Pavement Management program.

Trenchless Sewer Rehabilitation

- Program budget increased by \$459,000 in Revenue Bonds from 2024-2028. This reflects a 6.9% increase.

Utility Materials Handling Site

- Project was delayed from 2024 to 2026 due to the Sewer Utility's acquisition of the property.

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Summary of Expenditures and Revenues

2024 CIP by Expenditure Type

	2024	2025	2026	2027	2028	2029
Land	130,000	135,000	142,000	149,000	156,000	156,000
Land Improvements	-	-	300,000	-	-	-
Sanitary Sewer	4,163,000	3,221,000	4,901,000	2,958,000	3,918,000	3,045,000
	\$ 4,293,000	\$ 3,356,000	\$ 5,343,000	\$ 3,107,000	\$ 4,074,000	\$ 3,201,000

2024 CIP by Funding Source

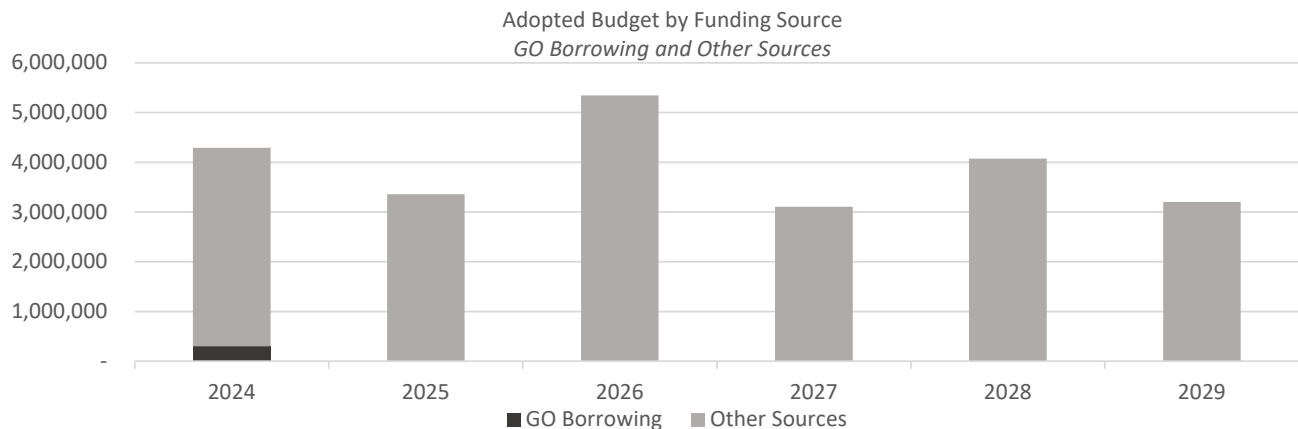
	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	300,000	-	-	-	-	-
Impact Fees	-	-	1,500,000	-	1,000,000	-
Municipal Capital Participate	320,000	-	-	-	-	-
Reserves Applied	1,288,000	1,197,000	1,235,000	1,157,000	1,152,000	1,369,000
Revenue Bonds	2,383,000	2,154,000	2,603,000	1,945,000	1,917,000	1,827,000
Special Assessment	2,000	5,000	5,000	5,000	5,000	5,000
	\$ 4,293,000	\$ 3,356,000	\$ 5,343,000	\$ 3,107,000	\$ 4,074,000	\$ 3,201,000

Borrowing Summary

	2024	2025	2026	2027	2028	2029
General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	300,000	-	-	-	-	-
	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -

Annual Debt Service

	2024	2025	2026	2027	2028	2029
General Fund GO Borrowing	-	-	-	-	-	-
Non-General Fund GO Borrowing	39,000	-	-	-	-	-
	\$ 39,000	\$ -	\$ -	\$ -	\$ -	\$ -



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Carryforward General Obligation Borrowing

	Unused Appropriation Authority	Reauthorized GO Borrowing
11984 ATWOOD AVE RECONSTRUCTION	69,393	-
13838 BLAIR ST	187,144	-
10142 CANNONBALL BIKE TRAIL	1,968,835	-
11574 COTTAGE GROVE ROAD	70,553	-
13013 CTH AB INTERCHANGE	29,273	-
10576 EQUIPMENT AND VEHICLES	296,556	-
11130 GAMMON ROAD, SOUTH	13,135	-
12454 HIGH POINT RD AND RAYMOND RD	19,229	-
10268 LIFT STATION REHABILITATIONS	241,606	-
10540 PAVEMENT MANAGEMENT	8,424,185	-
10284 PLEASANT VIEW ROAD	31,450	-
11510 PUMP STATION EMERGENCY GENERATORS	100,591	-
10226 RECONSTRUCTION STREETS	14,282,606	-
11133 S PARK ST (OLIN TO RR)	5,000	-
10192 SERVICE BUILDING IMPROVEMENTS	455,493	-
10437 SEWER ACCESS IMPROVEMENTS	748,732	-
13568 SEWER BACKWATER VALVE PROGRAM	143,000	-
11678 SEWER IMPACT FEE DISTRICTS	5,894,061	-
10267 SEWER RECONSTRUCTION	1,079,932	-
13668 SYCAMORE COLD STORAGE STRUCTURE	200,000	-
10450 TRENCHLESS SEWER REHABILITATION	1,615,985	-
11168 UNIVERSITY AVE (SHOREWOOD-UNIV BAY)	57,890	-
13599 UTILITY MATERIALS HANDLING SITE	3,039,067	-
11459 WILSON ST (MLK - S HAMILTON)	83,859	-
	39,057,577	-

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Project & Program Details

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

Project Description

This program funds the installation of emergency power stationary generators at the City's pumping stations. The goal of the program is to ensure continuous sanitary sewer service in the event of power loss. Funding in 2024 is for work at the Hermina Lift Station and Waunona No.2 Lift Station.

	2024	2025	2026	2027	2028	2029
Reserves Applied	61,000	61,000	63,000	66,000	69,000	72,000
Total	\$ 61,000	\$ 61,000	\$ 63,000	\$ 66,000	\$ 69,000	\$ 72,000

Project	Lift Station Rehabilitation and Replacement	Project #	10268
Citywide Element	Effective Government	Project Type	Program

Project Description

This program funds rehabilitation and replacement of the Sewer Utility's 32 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. Projects to be constructed in 2024 will include the replacement/ rehabilitation of the Badger Lift Station.

	2024	2025	2026	2027	2028	2029
Municipal Capital Participate	320,000	-	-	-	-	-
Reserves Applied	192,000	330,000	350,000	265,000	260,000	260,000
Revenue Bonds	530,000	560,000	600,000	120,000	-	-
Total	\$ 1,042,000	\$ 890,000	\$ 950,000	\$ 385,000	\$ 260,000	\$ 260,000

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.

	2024	2025	2026	2027	2028	2029
Reserves Applied	130,000	135,000	142,000	149,000	156,000	156,000
Total	\$ 130,000	\$ 135,000	\$ 142,000	\$ 149,000	\$ 156,000	\$ 156,000

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Project & Program Details

Project	Sewer Backwater Valve Reimbursement	Project #	13568
Citywide Element	Green and Resilient	Project Type	Program

Project Description

This program funds the reimbursement of property owners for a sewer backwater valve installation. Sewer backwater valves are installed on the sewer lateral either inside the home or on the property between the home and the City sewer main. With this program, the City reimburses property owners 75% of the installation costs up to \$1,500, provided that property owners go through the application process, pass the City plumber on-site pre-inspection, and receive 3 bids from contractors. The goal of the program is to provide additional protection to private property for unplanned sanitary sewer backups.

	2024	2025	2026	2027	2028	2029
Reserves Applied	40,000	40,000	40,000	40,000	42,000	42,000
Total	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 42,000	\$ 42,000

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

Project Description

This program is for the extension of sanitary sewer service to developing areas. This program also includes sanitary sewer infrastructure upgrades related to density increased within the Transit-Oriented Development Overlay Zoning corridor. The program is funded primarily by Impact Fees, and review for planned projects is conducted annually as dictated by demand for development.

	2024	2025	2026	2027	2028	2029
Impact Fees	-	-	1,500,000	-	1,000,000	-
Reserves Applied	-	20,000	-	20,000	-	-
Total	\$ -	\$ 20,000	\$ 1,500,000	\$ 20,000	\$ 1,000,000	\$ -

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Project & Program Details

Project	Sewer Reconstruction	Project #	10267
Citywide Element	Green and Resilient	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 backups by replacing the sewer infrastructure that is past its useful life. Coordination for the replacement of these sewers often is 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. The planned project for 2024 is a sewer replacement of the sewer on Commercial Ave. and across Highway 30 at Jacobson Ave. This sewer is operating at near full capacity and the area has pending high density development.

	2024	2025	2026	2027	2028	2029
Non-GF GO Borrowing	300,000	-	-	-	-	-
Reserves Applied	365,000	120,000	123,000	117,000	125,000	140,000
Revenue Bonds	505,000	275,000	320,000	330,000	322,000	327,000
Special Assessment	2,000	5,000	5,000	5,000	5,000	5,000
Total	\$ 1,172,000	\$ 400,000	\$ 448,000	\$ 452,000	\$ 452,000	\$ 472,000

Project	Trenchless Sewer Rehabilitation	Project #	10450
Citywide Element	Green and Resilient	Project Type	Program

Project Description

This program funds the rehabilitation of failing sewers by lining the existing sewer mains using cameras and remote controlled tools. Some sewer mains are rehabilitated (or lined) to address inflow and infiltration problems. The goal of this program is to repair nine miles of sewer mains at selected locations based upon need; backyard sewer mains are prioritized.

	2024	2025	2026	2027	2028	2029
Reserves Applied	500,000	491,000	517,000	500,000	500,000	699,000
Revenue Bonds	1,348,000	1,319,000	1,383,000	1,495,000	1,595,000	1,500,000
Total	\$ 1,848,000	\$ 1,810,000	\$ 1,900,000	\$ 1,995,000	\$ 2,095,000	\$ 2,199,000

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Project & Program Details

Project	Utility Materials Handling Site	Project #	13599
Citywide Element	Green and Resilient	Project Type	Project

Project Description

This program is for creation of a new disposal site for the Sanitary Sewer, Stormwater, and Water Utilities, allowing for the disposal of excess cut from repair operations and to allow for the dewatering of dredge sediments from pond maintenance operations. Once dewatered, the majority of material is expected to be moved to the Dane County Landfill to be used for daily cover and haul roads. The Utilities' current disposal site is running out of fill area, and with the planned increase in dredging of stormwater retention facilities/ponds as required for compliance with the City's EPA Wisconsin Pollutant Discharge Elimination System (WPDES) discharge permit, the current drying bed, the Madison Metropolitan Sewerage District Drying Bed, is becoming too small. Sewer Utility will own the site and Stormwater Utility and Water Utility will annually pay for their usage of it.

	2024	2025	2026	2027	2028	2029
Revenue Bonds	-	-	300,000	-	-	-
Total	\$ -	\$ -	\$ 300,000	\$ -	\$ -	\$ -

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2024 Appropriation Schedule

2024 Appropriation

	Request	Executive	Adopted Budget		
			GO Borrowing	Other	Total
Citywide Pumping Stations- Emergency Power Stationary Generators	61,000	61,000	-	61,000	61,000
Lift Station Rehabilitation and Replacement	1,042,000	1,042,000	-	1,042,000	1,042,000
Sewer Access Improvements	130,000	130,000	-	130,000	130,000
Sewer Backwater Valve Reimbursement	40,000	40,000	-	40,000	40,000
Sewer Reconstruction	872,000	1,172,000	300,000	872,000	1,172,000
Trenchless Sewer Rehabilitation	1,848,000	1,848,000	-	1,848,000	1,848,000
	\$ 3,993,000	\$ 4,293,000	\$ 300,000	\$ 3,993,000	\$ 4,293,000