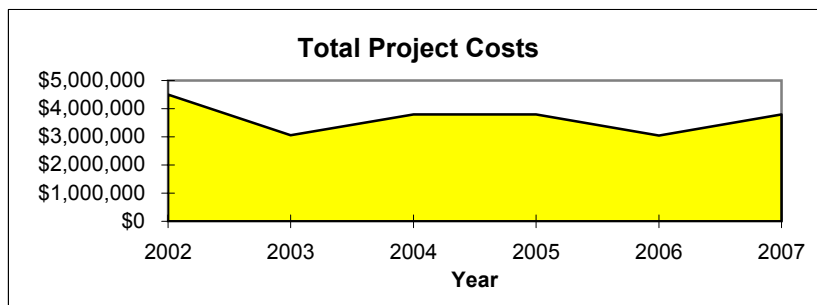


**2002
Capital Budget
Capital Improvement Program**

Agency Name: **Sewer Utility**

Agency Number: 54

Project Name	Future Year Estimates					
	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
1 Vactor w/Chassis	\$ 275,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2 ATV for Transporting Equipment	6,000	0	0	0	0	0
3 Contract Cleaning & Inspection	100,000	0	0	0	0	0
4 Utility Locating & Marking Vehicle	10,000	0	0	0	0	0
5 Trenchless Rehabilitation Contract	50,000	0	0	0	0	0
6 Access Structure Inspection Camera	8,333	0	0	0	0	0
7 GPS Fleet Management	20,000	0	0	0	0	0
8 Lateral Abandonment Contract	25,000	0	0	0	0	0
9 Grease Treatment Drip Dispensers	5,000	0	0	0	0	0
10 Time Tracking Hardware & Software	20,000	0	0	0	0	0
11 One-Call Hardware & Software	16,750	0	0	0	0	0
12 Femrite Drive (5700 - 5800 Block)	230,000	0	0	0	0	0
13 Sewer with Reconstructed Streets	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000	2,000,000
14 Improvements to Sewer Study Areas	200,000	250,000	250,000	250,000	250,000	250,000
15 Lift Station Rehabilitation	145,000	100,000	100,000	100,000	100,000	100,000
16 Added Collection & Conveyance	200,000	250,000	250,000	250,000	250,000	250,000
17 Other Major Sewer Repairs	150,000	150,000	150,000	150,000	150,000	150,000
18 W Johnson Street Sewer Replacement	15,000	260,000	0	0	0	0
19 Pennito Creek Sewer Re-line	100,000	0	0	0	0	0
20 Hoard Street Sewer Replacements	325,000	0	0	0	0	0
21 Burke Outfall Cooperative Sewer	350,000	0	0	0	0	0
22 E Washington Avenue Sanitary Sewer	75,000	50,000	1,050,000	1,050,000	300,000	1,050,000
23 Clam Bucket Attachment for Backhoe	20,000	0	0	0	0	0
24 Design-Survey HW/SW	15,000	0	0	0	0	0
25 Computer Mapping/GIS	7,600	0	0	0	0	0
26 Emil Street Remodeling - HVAC	90,000	0	0	0	0	0
27 Global Positioning System - GPS	40,000	0	0	0	0	0
Total	\$ 4,498,683	\$ 3,060,000	\$ 3,800,000	\$ 3,800,000	\$ 3,050,000	\$ 3,800,000



Capital Budget

Sewer Utility

		Vector w/Chassis	Project No. 1	Fund No. ES01 / 810054
GO	\$	0	Vector w/chassis to replace Vehicle #3111.	
Other		<u>275,000</u>		
	\$	<u>275,000</u>		
		ATV for Transporting Equipment	Project No. 2	Fund No. ES01 / 810054
GO	\$	0	ATV for transporting easement sewer cleaning equipment.	
Other		<u>6,000</u>		
	\$	<u>6,000</u>		
		Contract Cleaning & Inspection	Project No. 3	Fund No. ES01 / 810054
GO	\$	0	Contract with an independent vendor to clean and inspect sanitary sewer lines.	
Other		<u>100,000</u>		
	\$	<u>100,000</u>		
		Utility Locating & Marking Vehicle	Project No. 4	Fund No. ES01 / 810054
GO	\$	0	Small station wagon for utility locating and marking (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary portion only).	
Other		<u>10,000</u>		
	\$	<u>10,000</u>		
		Trenchless Rehabilitation Contract	Project No. 5	Fund No. ES01 / 810054
GO	\$	0	Contract to provide trenchless repairs to sanitary sewer lines that cannot be accessed via open trench method.	
Other		<u>50,000</u>		
	\$	<u>50,000</u>		
		Access Structure Inspection Camera	Project No. 6	Fund No. ES01 / 810054
GO	\$	0	Storm and sanitary access structure camera and video recorder (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary portion only).	
Other		<u>8,333</u>		
	\$	<u>8,333</u>		
		GPS Fleet Management	Project No. 7	Fund No. ES01 / 810054
GO	\$	0	GPS (Global Positioning System) Fleet Management Hardware and Software for emergency response sewer vehicles.	
Other		<u>20,000</u>		
	\$	<u>20,000</u>		

Lateral Abandonment ContractProject No. **8**

Fund No. ES01 / 810054

GO \$ 0
 Other 25,000
\$ 25,000

Contract for short liners to abandon laterals no longer in service.

Grease Treatment Drip DispensersProject No. **9**

Fund No. ES01 / 810054

GO \$ 0
 Other 5,000
\$ 5,000

Grease treatment drip dispensers for use in lines with a history of heavy grease build up.

Time Tracking Hardware & SoftwareProject No. **10**

Fund No. ES01 / 810054

GO \$ 0
 Other 20,000
\$ 20,000

Hardware and software to collect employee time and attendance data (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary portion only).

One-Call Hardware & SoftwareProject No. **11**

Fund No. ES01 / 810054

GO \$ 0
 Other 16,750
\$ 16,750

One-Call Utility Locating & Marking Hardware and Software (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary portion only).

Femrite Drive (5700 - 5800 Block)Project No. **12**

Fund No. ES01 / 810054

GO \$ 0
 Other 230,000
\$ 230,000

This project finances assessable sewer facilities for development and / or services. Property owners (currently in the Town of Blooming Grove) have been working with City staff for approximately 2 years, expressing a desire for City services, allowing further development of their lands. Estimated costs have been shared with those within the proposed Sewer District. Formation of the Sewer District cannot occur prior to annexation.

Sewer with Reconstructed StreetsProject No. **13**

Fund No. ES01 / 810054

GO \$ 0
 Other 2,000,000
\$ 2,000,000

This project involves replacement of older, problematic sanitary sewers in conjunction with street reconstruction projects and street resurfacing. This is primarily replacement of 6 inch diameter sewers, which are not installed as mains using today's standards. Replacement of these sewers is best done when the street is being reconstructed, to save on cost and inconvenience to the public. Additionally, the City encourages residents to replace the portion of their sewer lateral that lies within the public right-of-way. This is done by offering to pay for 75% of the replacement cost in accordance with a new policy adopted by the City in 1997. All 6 inch mains under 'reconstruction' streets will be replaced. Those 6 inch mains under 'resurfaced' streets are evaluated on a case-by-case basis. In 2002, this will also include work on the Troy Drive forcemain in advance of resurfacing.

Improvements to Sewer Study Areas Project No. 14 Fund No. ES01 / 810054

GO \$ 0
Other 200,000
\$ 200,000

In 1996, the City identified 6 areas of concern in relation to the sanitary sewer system as a result of the flooding in June of 1996. Since that time, engineering studies have been ongoing to determine recommendations to improve the sewer systems of these areas. This item would begin implementing construction phases of recommended improvements on a systematic, prioritized basis. The project with the greatest potential for design and construction in 2002 is the installation of a separate lift station at Olbrich Park to serve the Johns Street sewer flooding area. Studies will continue in the Midvale / University area and the Greater Truax Area on the East Side.

Lift Station Rehabilitation Project No. 15 Fund No. ES01 / 810054

GO \$ 0
Other 145,000
\$ 145,000

This project is for necessary capital improvements to any of the City's 26 public sewerage lift stations. These stations need periodic improvements beyond the normal operating maintenance expenditures. These improvements reduce operating costs, improve efficiency, or bring the station into compliance with present standards for design, safety, and operation. Potential project work is proposed for: Fremont Pump Station Wetwell design investigation, and Nelson Road capacity upgrade. No other projects are proposed for 2002, but a \$50,000 item is included for contingency - emergency. Minor station upgrades by MMSD are covered by the Operating Budget.

Added Collection & Conveyance Project No. 16 Fund No. ES01 / 810054

GO \$ 0
Other 200,000
\$ 200,000

This project finances assessable sewer facilities for development and / or services. Most projects cannot be well predicted in advance as they are driven by development pressures. Potential projects include: Initial Survey, Design and Land Acquisition for the Burke Annexation East of the Interstate and South of the Railroad tracks to Milwaukee Street (centered around Lien and Felland); a short extension through the Prairie Point development to Pleasant View Road; and other smaller extensions that may arise.

Other Major Sewer Repairs Project No. 17 Fund No. ES01 / 810054

GO \$ 0
Other 150,000
\$ 150,000

This project is for urgent and emergency type repairs that are separate from new extensions or accompanying street construction. These projects arise on very short notice and are unpredictable from year to year.

W Johnson Street Sewer Replacement Project No. 18 Fund No. ES01 / 810054

GO \$ 0
Other 15,000
\$ 15,000

This project is the replacement of existing, aged sewer facilities in the West Johnson Street right-of-way, in conjunction with a proposed major street reconstruction project. It is anticipated that the project shall consist of many abandonments and fewer replacements. Completion of the design shall extend into 2002 with construction scheduled for 2003.

Pennito Creek Sewer Re-line

Project No. 19 Fund No. ES01 / 810054

GO \$ 0
Other 100,000
\$ 100,000

This project is to re-line an existing 12 inch vitrified clay pipe gravity sewer interceptor. Said pipe collapsed in 1999 causing an emergency sewer repair. Upon repair and further investigation, it was determined that the pipe joints were allowing considerable infiltration - allowing ground water into the sewer system and leaving the pipe vulnerable to soil migration and / or collapse. Re-lining of the sewer is a cost effective repair for a problem of this type.

Hoard Street Sewer Replacements

Project No. 20 Fund No. ES01 / 810054

GO \$ 0
Other 325,000
\$ 325,000

This project shall replace all sanitary and storm sewers on Hoard Street from Kedzie to Starkweather Creek. In 1993 and again in 1996, residents in this area (several blocks centering around Hoard and Kedzie) suffered sanitary sewerage flooding into their basements. Subsequently, the City performed a detailed study to seek solutions to lessen the chance of future flooding. Implementation for this area began with the replacement of the sewer interceptor on Johnson Street (1997). Further recommendations (prioritized) include replacement of both the storm and sanitary sewers identified with this project, as the poor condition of both facilities allows the storm sewer to 'leak' into the sanitary sewers during rainfall events. Replacement of both facilities will necessitate replacement of the street in its entirety. Future phases shall replace similar problem lines on the following: Kedzie from Hoard to Fairfield; Fairfield from Kedzie to Maywood; Dayton from North to Kedzie; Kedzie from East Lawn Ct to East Washington. Total cost is split equally between storm and sanitary budgets.

Burke Outfall Cooperative Sewer

Project No. 21 Fund No. ES01 / 810054

GO \$ 0
Other 350,000
\$ 350,000

This is a proposed cooperative project with Madison Metropolitan Sewerage District. The proposed design of a new MMSD Interceptor will allow the City's 4100 foot, old 'North End' Sewer to be abandoned. The new MMSD line would intercept local sewers at 8 locations, that presently flow into the 77 year old 18 inch City Sewer. Suggested cost sharing is based on an amount equal to 1/2 the replacement cost of the existing sewer, with local connections and other direct components at 50% and pavement at approximately 25%.

E Washington Avenue Sanitary Sewer

Project No. 22 Fund No. ES01 / 810054

GO \$ 0
Other 75,000
\$ 75,000

This project is the replacement of existing, aged sewer facilities in the East Washington Avenue street right-of-way, in conjunction with a proposed major street reconstruction project, over several years. It is anticipated that the project shall consist of a few abandonments and many replacements. Design work shall extend into 2002 and beyond with construction scheduled to start in 2004. Cost estimates shall be refined in future budgets as engineering work progresses.

Clam Bucket Attachment for Backhoe

Project No. 23 Fund No. ES01 / 810054

GO \$ 0
Other 20,000
\$ 20,000

Clam bucket attachment for use with existing backhoes (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary portion only).

Design-Survey HW/SW

Project No. **24** Fund No. ES01 / 810054

GO \$ 0
Other 15,000
\$ 15,000

A continuing project to purchase and upgrade the Engineering Division's high-end PC workstations and software used for engineering design. Funding is provided to purchase software to be used for downloading the City's Total Station electronic data to the Engineering Design Software. The project also includes a change in design software in order to stay compatible with the CADD software that is being used throughout the City.

Computer Mapping/GIS

Project No. **25** Fund No. ES01 / 810054

GO \$ 0
Other 7,600
\$ 7,600

The Computer Mapping/GIS Project will continue to implement user access by installing software at the desktop level for Windows 98 and NT machines for viewing the City's Aerial photos and hardware and software at the information counters of various departments in the City for accessing City maps and records. The Mapping/GIS Section will continue to enhance the software on the City's Web Site to have available to the public, access to the Official Maps, Parcel Maps, Street Address Maps, Sewer and Water Records, and Assessment Records and informal data associated with streets and land parcels in the City. The Engineering Division continues to provide maintenance and support to over fifty workstations, data base servers and plotters on the Mapping Network. Other funding is provided by the Sewer and Water Utility.

Emil Street Remodeling - HVAC

Project No. **26** Fund No. ES01 / 810054

GO \$ 0
Other 90,000
\$ 90,000

The Engineering Division is looking to improve the working area of the Construction Inspectors and help in the area of working with the public and contractors that visit the Engineering Division Service Building. Costs include the removal of walls and the purchasing of workstations and partitions to give each of the inspectors a work area to keep records and perform their daily work activities while in the office. The HVAC upgrade is to improve the air quality in the Engineering Service Building by monitoring and removing the emissions produced in the garage area of the building.

Global Positioning System - GPS

Project No. **27** Fund No. ES01 / 810054

GO \$ 0
Other 40,000
\$ 40,000

This year's project will involve the acquisition of a Global Positioning System (GPS) base station and receiver to be used by the Surveyors and Technicians in the Division. GPS is a series of satellites which orbit the earth. These 27 satellites are in known locations controlled from a central control and three other tracking stations around the world. These satellites have the ability to transmit radio signals to GPS receivers on the ground to determine the horizontal and vertical location of a point. The base station will be available to not just the public sector but also the private sector, which will allow purchase of their own equipment and use of the signal from the City's base station to obtain more accurate data and share that data with the City for various projects.

Note: Other funding for Sewer Utility projects is derived from Sewer Utility Revenues.

**2002
Capital Budget
Summary**

Agency Name: Sewer Utility

Agency Number: 54

Project Name	Agency Request	CIRC	Executive	Adopted		
				G.O. Debt	Other Funding	Total
1 Vactor w/Chassis	\$ 275,000	\$ 275,000	\$ 275,000	\$ 0	\$ 275,000	\$ 275,000
2 ATV for Transporting Equipment	6,000	6,000	6,000	0	6,000	6,000
3 Contract Cleaning & Inspection	100,000	100,000	100,000	0	100,000	100,000
4 Utility Locating & Marking Vehicle	10,000	10,000	10,000	0	10,000	10,000
5 Trenchless Rehabilitation Contract	50,000	50,000	50,000	0	50,000	50,000
6 Access Structure Inspection Camera	8,333	8,333	8,333	0	8,333	8,333
7 GPS Fleet Management	20,000	20,000	20,000	0	20,000	20,000
8 Lateral Abandonment Contract	25,000	25,000	25,000	0	25,000	25,000
9 Grease Treatment Drip Dispensers	5,000	5,000	5,000	0	5,000	5,000
10 Time Tracking Hardware & Software	20,000	20,000	20,000	0	20,000	20,000
11 One-Call Hardware & Software	16,750	16,750	16,750	0	16,750	16,750
12 Femrite Drive (5700 - 5800 Block)	230,000	230,000	230,000	0	230,000	230,000
13 Sewer with Reconstructed Streets	2,000,000	2,000,000	2,000,000	0	2,000,000	2,000,000
14 Improvements to Sewer Study Areas	200,000	200,000	200,000	0	200,000	200,000
15 Lift Station Rehabilitation	145,000	145,000	145,000	0	145,000	145,000
16 Added Collection & Conveyance	200,000	200,000	200,000	0	200,000	200,000
17 Other Major Sewer Repairs	150,000	150,000	150,000	0	150,000	150,000
18 W Johnson Street Sewer Replacement	15,000	15,000	15,000	0	15,000	15,000
19 Pennito Creek Sewer Re-line	100,000	100,000	100,000	0	100,000	100,000
20 Hoard Street Sewer Replacements	325,000	325,000	325,000	0	325,000	325,000
21 Burke Outfall Cooperative Sewer	350,000	350,000	350,000	0	350,000	350,000
22 E Washington Avenue Sanitary Sewer	75,000	75,000	75,000	0	75,000	75,000
23 Clam Bucket Attachment for Backhoe	20,000	20,000	20,000	0	20,000	20,000
24 Design-Survey HW/SW	15,000	15,000	15,000	0	15,000	15,000
25 Computer Mapping/GIS	7,600	7,600	7,600	0	7,600	7,600
26 Emil Street Remodeling - HVAC	80,000	90,000	90,000	0	90,000	90,000
27 Global Positioning System - GPS	30,000	40,000	40,000	0	40,000	40,000
Total	\$ 4,478,683	\$ 4,498,683	\$ 4,498,683	\$ 0	\$ 4,498,683	\$ 4,498,683