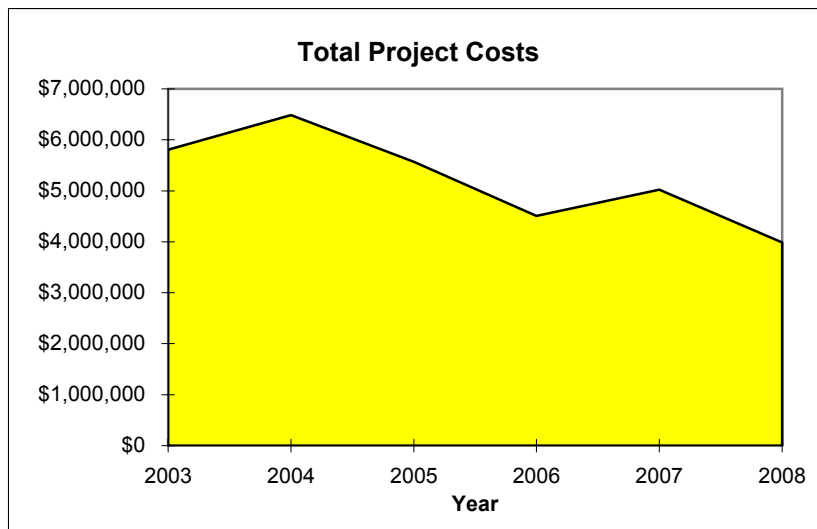


**2003  
Capital Budget  
Capital Improvement Program**

Agency Name: **Sewer Utility**

Agency Number: **54**

Project Name	Capital Budget	Future Year Estimates				
	2003	2004	2005	2006	2007	2008
1 Femrite Drive Sewer District	\$ 280,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
2 Sewer with Reconstructed Streets	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
3 Improvements to Sewer Study Areas	250,000	250,000	250,000	250,000	0	0
4 Lift Station Rehabilitation	75,000	100,000	100,000	100,000	100,000	100,000
5 Added Collection & Conveyance	325,000	200,000	200,000	200,000	200,000	200,000
6 Other Major Sewer Repairs	150,000	150,000	150,000	150,000	150,000	150,000
7 West Johnson Sewer Replacement	260,000	0	0	0	0	0
8 Pennito Creek Sewer Creek Reline	100,000	0	0	0	0	0
9 Hoard Street Sewer Replacements	440,000	390,500	330,000	0	0	0
10 E Washington Ave Sanitary Sewer	75,000	1,050,000	1,050,000	300,000	1,050,000	0
11 Tractor/Backhoe	86,667	0	0	0	0	0
12 Large Pipe Transporter & Lighthouse	0	40,200	0	0	0	0
13 Computer Hardware & Software	33,500	0	0	0	0	0
14 Trenchless Rehab Contract	50,000	0	0	0	0	0
15 GPS Fleet Management	0	16,750	0	0	0	0
16 Lateral Abandonment Contract	25,000	0	0	0	0	0
17 Engineering Serv Building Expansion	0	810,000	0	0	0	0
18 Door Creek North Phase 2	192,500	0	0	0	0	0
19 Lead Service Replacements	462,000	475,860	490,136	504,840	519,985	535,585
<b>Total</b>	<b>\$ 5,804,667</b>	<b>\$ 6,483,310</b>	<b>\$ 5,570,136</b>	<b>\$ 4,504,840</b>	<b>\$ 5,019,985</b>	<b>\$ 3,985,585</b>





## Capital Budget

### Sewer Utility

#### Femrite Drive Sewer District

Project No. 1 Fund No.

GO \$ 0  
Other 280,000  
\$ 280,000

This project finances assessable sewer facilities for development and / or services. Two properties in the 5800 block of Femrite Drive annexed to the City in February of 2002 and have requested sewer service. A sewer district and schedule of assessments for the project was approved shortly after the annexation. The project costs will be recovered from the benefiting properties as they connect to the sewer. The sewer extension serves an area larger than the two properties requesting immediate service. Other funding is to be derived from special assessments.

#### Sewer with Reconstructed Streets

Project No. 2 Fund No.

GO \$ 0  
Other 3,000,000  
\$ 3,000,000

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 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 for replacement on a case-by-case basis. Other funding is to be derived from revenue bonds.

#### Improvements to Sewer Study Areas

Project No. 3 Fund No.

GO \$ 0  
Other 250,000  
\$ 250,000

In 1996, the City identified six 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 project would begin implementing construction phases of recommended improvements on a systematic, prioritized basis. Studies shall be concluded in 2002 for the Midvale / University Area on the West Side and the Greater Truax Area on the East Side. It is anticipated that construction improvements shall include a larger sewer interceptor in the Midvale area from Regent to University and / or nearby streets. The Truax area may involve sewer line relinings and manhole rehabilitations to reduce clear water inflow and infiltration. These improvements may be phased over several years. Lastly, the Johns Street area continues to be an area of flooding potential and will require an intermediate lift station in the Olbrich Park area. Other funding is to be provided from Utility reserves.

#### Lift Station Rehabilitation

Project No. 4 Fund No.

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

This project is for necessary capital improvements to any of the City's 27 public sewerage lift stations. These stations need periodic improvements beyond the normal operating maintenance expenditures. The 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 the Fremont Pump Station Wetwell design investigation. Minor station upgrades by MMSD are covered by the Operating Budget. Other funding is to be derived from Utility reserves.

**Added Collection & Conveyance** Project No. **5** Fund No.

GO \$ 0 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. Other 325,000 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 funding is to be derived from special assessments. \$ 325,000

**Other Major Sewer Repairs** Project No. **6** Fund No.

GO \$ 0 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. One planned major project is a sewer replacement (or rehabilitation) in coordination with shoreline improvements along Lake Monona in the Hudson Beach area. Estimated cost of this project is \$80,000. Other funding is to be provided from Utility Reserves. Other 150,000 \$ 150,000

**West Johnson Sewer Replacement** Project No. **7** Fund No.

GO \$ 0 This project is for 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 a few replacements. Design was completed in 2002. Other funding is to be derived from Utility reserves. Other 260,000 \$ 260,000

**Pennito Creek Sewer Creek Reline** Project No. **8** Fund No.

GO \$ 0 This project is to re-line an existing 12 inch vitrified clay pipe gravity sewer interceptor. This 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 another collapse. Re-lining of the sewer is a cost effective repair for a problem of this type. Other funding is to be provided from Utility reserves. Other 100,000 \$ 100,000

**Hoard Street Sewer Replacements** Project No. **9** Fund No.

GO \$ 0 In 1993 and again in 1996, residents in this area (several blocks centering around Hoard at 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 in 1997. Replacement of the local storm and sanitary sewer system shall continue in phases over the next 3 years. Phase one was completed in 2002 and included East Johnson from Kedzie to North Lawn, North Lawn from East Johnson to Hoard, Hoard from North Lawn to Oak, and Algoma from Hoard to Street End. Phase 2 in 2003 shall include Kedzie from East Johnson to Fairfield, Fairfield from Maywood to Kedzie, and Stang from Hoard to Fairfield. Phase 3 in 2004 shall include Kedzie from East Johnson to East Washington, East Lawn from North to Kedzie, East Dayton from North to Kedzie, and East Washington from North to Kedzie. Phase 4 in 2005 shall include East Johnson from North Lawn to East Washington, East Washington from East Johnson to Oak, Oak from East Washington to Hoard, and Hoard from Oak to Street End. The budget requests under this item are only for sanitary sewer related costs. Street and Storm costs are budgeted separately. Other funding is to be derived from revenue bonds. Other 440,000 \$ 440,000

**E Washington Ave Sanitary Sewer** Project No. **10** Fund No.

GO \$ 0 This project is the replacement of existing, aged sanitary sewer facilities in the East  
Other 75,000 Washington Avenue street right-of-way and some adjoining side streets, in conjunction with a  
\$ 75,000 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 2003 and beyond with construction scheduled to start in 2004. Cost estimates  
shall be refined in future budgets as engineering work progresses. Other funding is to be  
provided from Utility reserves.

**Tractor/Backhoe** Project No. **11** Fund No.

GO \$ 0 New tractor/backhoe to replace #5903 - an existing year 1985 backhoe (67% Sanitary Sewer  
Other 86,667 Utility; 33% Stormwater Utility - cost represents Sanitary portion only). Other funding is to be  
\$ 86,667 derived from Utility reserves.

**Large Pipe Transporter & Lighthouse** Project No. **12** Fund No.

GO \$ 0 Purchase of a transporter and lighthouse to be used with existing CCTV Inspection System to  
Other 0 inspect large diameter pipes (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost  
\$ 0 represents Sanitary portion only).

**Computer Hardware & Software** Project No. **13** Fund No.

GO \$ 0 Purchase of hardware and software for Field Operations personnel. Includes rugged laptops  
Other 33,500 for use in field and upgrades to the Work Order and Asset Management System. Laptops will  
\$ 33,500 be equipped with touch screen and wireless ready features. Software upgrades will provide  
Operations staff ability to receive work orders in the field via computer and transmit data back  
to the office regarding personnel, time, equipment and materials used on a particular job.  
Eliminates field personnel paperwork and re-entry of data into data base by administrative  
support staff (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost represents Sanitary  
portion only). Other funding is to be provided from Utility reserves.

**Trenchless Rehab Contract** Project No. **14** Fund No.

GO \$ 0 Contract to provide trenchless repairs to sanitary sewer lines that cannot be accessed via the  
Other 50,000 open trench method. Other funding is to be provided from Utility reserves.  
\$ 50,000

**GPS Fleet Management** Project No. **15** Fund No.

GO \$ 0 GPS (Global Positioning System) Fleet Management Hardware and Software for emergency  
Other 0 response sewer vehicles (67% Sanitary Sewer Utility; 33% Stormwater Utility - cost  
\$ 0 represents Sanitary portion only).

**Lateral Abandonment Contract** Project No. **16** Fund No.

GO \$ 0 Contract for short liners to abandon laterals no longer in service. Other funding is to be  
Other 25,000 derived from Utility reserves.  
\$ 25,000

**Engineering Serv Building Expansion** Project No. **17** Fund No.

GO	\$	0	Construction of a two-story addition to the existing facility providing an additional 8,500 square feet of space and renovation of the adjoining 2,500 square feet of existing space to house severely overcrowded staff in the Construction Inspection, Operations, Special Services and Mapping Sections of the Engineering Division. These personnel are presently located at two separate facilities. Additionally, the CCB office space vacated by Special Services and Mapping staff will provide space for the overcrowded Street, Sanitary and Storm sections (60% Sanitary Sewer Utility; 30% Stormwater Utility; 10% Landfill Remediations Fees - cost represents Sanitary portion only).
Other		<u>0</u>	
	\$	<u>0</u>	

**Door Creek North Phase 2** Project No. **18** Fund No.

GO	\$	0	This project finances assessable sanitary sewer facilities for planned development in the Door Creek Watershed West of Sprecher Road and South of Milwaukee Street. Survey and design were completed in 2002, and the acquisition process started. Acquisition costs are included in this budget, along with construction and necessary surveying and project management. A Sewer Assessment District and schedule of assessments shall be established to recover project costs from the benefiting properties as they connect to the sewer. Other funding is to be provided through special assessments.
Other		<u>192,500</u>	
	\$	<u>192,500</u>	

**Lead Service Replacements** Project No. **19** Fund No.

GO	\$	0	The City has embarked upon a program to replace existing water services that were installed using lead pipe. The goal of the program and a requirement of the stipulation executed by the City with the Wisconsin Department of Resources is to replace all lead services within 10 years commencing in 2001. This requires the replacement of approximately 650 - 660 services per year at an estimated average cost to the property owner of \$1,400 per service of which one-half (up to \$1,000) is rebated by the City. Funding for the program is from communication rental fees from the City's elevated water tanks (\$80,000) and Madison Sewer Utility reserves (\$382,000), the latter being in recognition of the avoidance of placing phosphorous compounds in the public water supply - the other alternative which was considered.
Other		<u>462,000</u>	
	\$	<u>462,000</u>	

**2003  
Capital Budget  
Summary**

Agency Name: **Sewer Utility**

Agency Number: **54**

Project Name	Agency Request	CIRC	Executive	Executive		
				G.O. Debt	Other Funding	Total
1 Femrite Drive Sewer District	\$ 280,000	\$ 280,000	\$ 280,000	\$ 0	\$ 280,000	\$ 280,000
2 Sewer with Reconstructed Streets	3,000,000	3,000,000	3,000,000	0	3,000,000	3,000,000
3 Improvements to Sewer Study Areas	250,000	250,000	250,000	0	250,000	250,000
4 Lift Station Rehabilitation	75,000	75,000	75,000	0	75,000	75,000
5 Added Collection & Conveyance	325,000	325,000	325,000	0	325,000	325,000
6 Other Major Sewer Repairs	150,000	150,000	150,000	0	150,000	150,000
7 West Johnson Sewer Replacement	260,000	260,000	260,000	0	260,000	260,000
8 Pennito Creek Sewer Creek Reline	100,000	100,000	100,000	0	100,000	100,000
9 Hoard Street Sewer Replacements	440,000	440,000	440,000	0	440,000	440,000
10 E Washington Ave Sanitary Sewer	75,000	75,000	75,000	0	75,000	75,000
11 Tractor/Backhoe	86,667	86,667	86,667	0	86,667	86,667
12 Large Pipe Transporter & Lighthouse	40,200	0	0	0	0	0
13 Computer Hardware & Software	33,500	33,500	33,500	0	33,500	33,500
14 Trenchless Rehab Contract	50,000	50,000	50,000	0	50,000	50,000
15 GPS Fleet Management	16,750	0	0	0	0	0
16 Lateral Abandonment Contract	25,000	25,000	25,000	0	25,000	25,000
17 Engineering Serv Building Expansion	810,000	0	0	0	0	0
18 Door Creek North Phase 2	192,500	192,500	192,500	0	192,500	192,500
19 Lead Service Replacements	462,000	462,000	462,000	0	462,000	462,000
<b>Total</b>	<u>\$ 6,671,617</u>	<u>\$ 5,804,667</u>	<u>\$ 5,804,667</u>	<u>\$ 0</u>	<u>\$ 5,804,667</u>	<u>\$ 5,804,667</u>