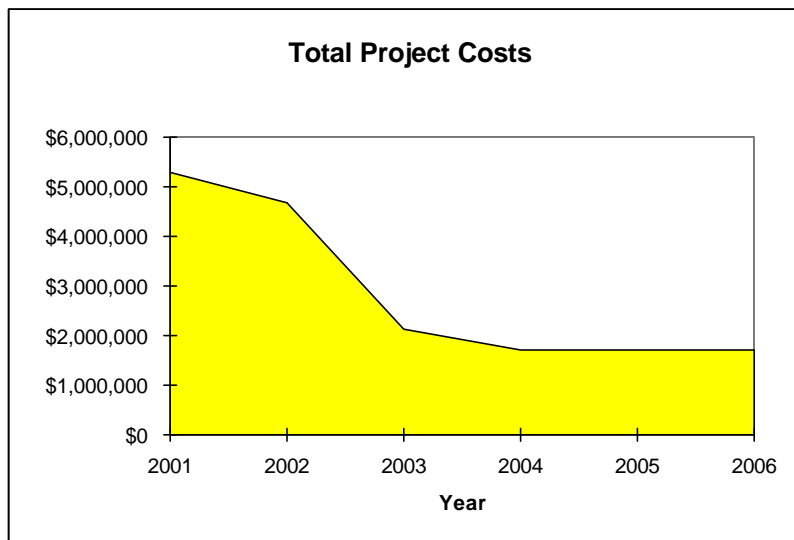


**2001
Capital Budget
Capital Improvement Program**

Agency Name: **Engineering - Stormwater**

Agency Number: **53**

Project Name	Capital Budget	Future Year Estimates				
	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>
1 Accompanying Storm Sewer	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000
2 Greenway Improvements	150,000	150,000	150,000	150,000	150,000	150,000
3 Priority Watershed Projects	638,000	0	0	0	0	0
4 EPA / NPDES Permit	75,000	75,000	75,000	75,000	75,000	75,000
5 Stormwater Basins	350,000	250,000	250,000	0	0	0
6 Odana Pond Dredging	0	400,000	100,000	100,000	100,000	100,000
7 Inter-Municipal Storm Sewers	2,300,000	2,300,000	50,000	50,000	50,000	50,000
8 Tiedemann Pond Pump Station	25,000	25,000	25,000	25,000	25,000	25,000
9 Storm Box Replacement / Cleaning	100,000	100,000	100,000	100,000	100,000	100,000
10 Major Roadway Culvert Crossings	100,000	100,000	100,000	100,000	100,000	100,000
11 Assessable Drainage Improvements	175,000	175,000	175,000	175,000	175,000	175,000
12 Shorelines	400,000	300,000	150,000	150,000	150,000	150,000
13 Local Drainage Problems	100,000	100,000	100,000	100,000	100,000	100,000
14 Madison-Sun Prairie Detention Pond	0	0	150,000	0	0	0
15 Hoard Street Sewer Replacements	325,000	250,000	250,000	250,000	250,000	250,000
16 Rosa Culvert Grate Replacement	115,000	0	0	0	0	0
Total	\$ 5,303,000	\$ 4,675,000	\$ 2,125,000	\$ 1,725,000	\$ 1,725,000	\$ 1,725,000



**2001
Capital Budget
Expenditure Categories and Funding Sources**

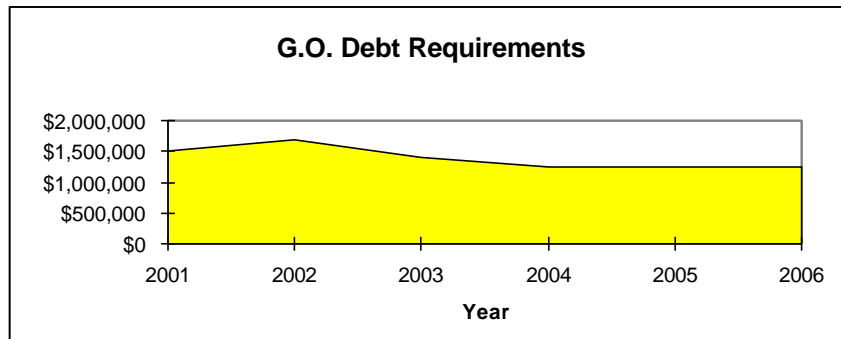
Agency Name: **Engineering - Stormwater**

Agency No.: 53

All Projects	Capital Budget	Future Year Estimates				
	2001	2002	2003	2004	2005	2006
Expenditures:						
Planning Studies	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
Eng / Design	237,500	292,500	217,500	182,500	182,500	182,500
Land Acquisition	0	0	0	0	0	0
Land Development	0	0	0	0	0	0
Construction	4,965,500	4,282,500	1,807,500	1,442,500	1,442,500	1,442,500
Remodelling	0	0	0	0	0	0
Equipment/Furnish	0	0	0	0	0	0
Cost Applied	25,000	25,000	25,000	25,000	25,000	25,000
Other	0	0	0	0	0	0
Total Costs	\$ 5,303,000	\$ 4,675,000	\$ 2,125,000	\$ 1,725,000	\$ 1,725,000	\$ 1,725,000

Funding Sources:						
Available Funds	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Federal Sources	0	0	0	0	0	0
State Sources	426,600	0	0	0	0	0
County Contrib	0	0	0	0	0	0
Private Contrib	0	0	0	0	0	0
TIF	0	0	0	0	0	0
Revenue Bonds	0	0	0	0	0	0
Utility Reserves	0	0	0	0	0	0
Special Assessments	225,000	225,000	225,000	225,000	225,000	225,000
Other	3,136,400	2,750,000	500,000	250,000	250,000	250,000
Total "Other"	\$ 3,788,000	\$ 2,975,000	\$ 725,000	\$ 475,000	\$ 475,000	\$ 475,000

G.O. Debt	\$ 1,515,000	\$ 1,700,000	\$ 1,400,000	\$ 1,250,000	\$ 1,250,000	\$ 1,250,000
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Capital Budget

Engineering - Stormwater

Accompanying Storm Sewer Project No. 1 Fund No. CW53 / 810079

(B) \$ 400,000 This project is for the design and installation of storm sewer systems that 'accompany' street
(O) 50,000 projects. This is a continuing program to provide mainline storm sewer improvements,
\$ 450,000 replacements, and rehabilitation in conjunction with City streets being reconstructed and
resurfaced. Additionally, this project consists of installing various conduits to serve streets
being improved with curb and gutter and bituminous pavement, as directed by the Common
Council. Total cost is based upon prior years expenditures. This item also includes the
annual 'Waterway Repairs' Contract that makes several smaller drainage related repairs on
City streets throughout the City. Other funding is from special assessments.

Greenway Improvements Project No. 2 Fund No. CW53 / 810080

(B) \$ 150,000 This is an annual drainage improvement program. Open channels (greenways) are used to
(O) 0 transport stormwater runoff. This program includes acquisition, if necessary, and
\$ 150,000 construction of new greenways and various types of channel improvements to existing
greenways. Known areas in need of repair projects include greenways in Owen Park, Jetty
Drive, High Crossing, Swanton, Old Sauk Trails, and Sauk Creek. This item also includes the
annual Restoration / Landscaping Contract that makes miscellaneous, minor greenway-
related repairs throughout the City as the need arises. Proposed funding has increased from
prior amounts due to the flood damages of 2000.

Priority Watershed Projects Project No. 3 Fund No. CW53 / 810081

(B) \$ 0 Water quality improvement plans have been formulated by Dane County agencies to be
(O) 638,000 administered by the Wisconsin Department of Natural Resources. This plan identifies
\$ 638,000 specific projects and needs within the Yahara-Monona drainage basin and the Lake Mendota
drainage basin, that will improve the quality of stormwater runoff. City projects that meet the
plan requirements and criteria can typically receive seventy percent (70%) funding from the
State in the form of Priority Watershed Grants. State funding has been re-established to
complete approved projects within a window that expires on December 31, 2001. The local
match will come from funding sources other than the general borrowing. These sources
include the stormwater detention fund (Fund SO76), previously budgeted under "Shorelines"
and "Greenways" (reallocated to these specific projects), TIF funding, and possibly available
funding from the creation of a stormwater utility. The specific projects will be prioritized and
implemented until all funding from "other" sources has been exhausted. It is possible that the
"other" sources could be expended before full utilization of the granted amounts, thus
forfeiting those portions of the grant and spending less than the total shown in this budget.
Projects include: Highway 51/Cottage Grove Wetland (\$188,000); Jenni-Kyle drainage
stabilization (\$100,000); and Triangle Park retention land purchase (\$100,000); Starkweather
Creek stabilization (\$150,000) and Wingra Creek stabilization (\$100,000).

EPA / NPDES Permit

Project No. 4 Fund No. CW53 / 810197

(B) \$ 75,000
(C) 0
\$ 75,000

This is a continuing program and permit process to comply with the U.S. Environmental Protection Agency and NODES regulations promulgated on November 16, 1990. It is anticipated that this funding will be needed to continue the monitoring requirements of the permit. Additionally, the Wisconsin Department of Natural Resources assesses an annual permit fee of \$10,000. A specific monitoring project has not yet been selected and approved for 2001. Past levels of funding for this item have generally been in the range that has been budgeted. These funds may alternatively be used to study and implement leaf removal best management practices for 2001.

Stormwater Basins

Project No. 5 Fund No. CW53 / 810082

(B) \$ 0
(C) 350,000
\$ 350,000

This program provides stormwater detention / retention and stormwater quality improvements to regional basins at various locations throughout the City. Potential projects include: construction of a wet pond regional retention facility downstream of Nesbitt Road (near Maple Grove Road) and at Nelson Road near the landfill. Other funding is from the Detention Trust Fund (Fund #SO76). Another possible project, the land purchase and construction of a regional retention facility in the Southeast Planning Area (near McFarland), is an eligible project cost under TID #24. It is anticipated that the District would reimburse the borrowed money in the future. This item would also include any major repair work or expansion within existing basins.

Odana Pond Dredging

Project No. 6 Fund No.

(B) \$ 0
(C) 0
\$ 0

Preliminary and final design, including permitting and disposal requirements associated with the proposed dredging of the Retention Pond at Odana Hills Golf Course. This dredging request is the highest priority dredging project among several City sites that are presently in need of dredging. It is anticipated that this will be a continuing project for the other sites, annually, on a prioritized basis. Other sites known to be in need of dredging include Strickers Pond Forebay, Morningside Retention Basin, and Warner Park Lagoon outlet channel. All other City ponds are being monitored for siltation and shall be incorporated into the schedule accordingly.

Inter-Municipal Storm Sewers

Project No. 7 Fund No. CW53 / 810198

(B) \$ 50,000
(C) 2,250,000
\$ 2,300,000

This item is for resolving drainage problems within neighboring municipalities. Typically these problems are on the fringes of new City development and are at least partially attributable to City stormwater increases. The City Engineer attempts to resolve these problems by participating in the funding on a 50/50 basis or prorated based on drainage area, previous agreement, or other reasonable method of split. Potential projects could include: Rambling Acres Pipe / Greenway (Town of Blooming Grove) - \$50,000 and Lake Forest Detention Basin (Town of Madison) - \$35,000. The largest and most pressing need is for \$2,250,000 in spending for each of the next 2 years for a deep tunnel relief sewer to overcome storm sewer deficiencies in the University-Midvale area, and as recommended by a prior joint study completed by a consultant. Financing is subject to reaching a cost split agreement with Shorewood, and subject to creation of a Storm Water Utility by the City.

Tiedemann Pond Pump Station Project No. **8** Fund No. CW53 / 810221

- (B) \$ 25,000 Stricker and Tiedemann Ponds receive runoff from the City of Madison (60%) and the City of
(C) 0 Middleton (40%). The ponds have operated for years as 'infiltration' ponds, but are no longer
\$ 25,000 infiltrating in adequate capacity to prevent water levels from rising, to the point of flooding
trees, parklands, and threatening some private residences in Middleton. The City of
Middleton proposes installing a pump station / force main solution, with cost participation on a
60 / 40 basis. Madison's share is estimated to total \$250,000, and is to be paid over 10
years. Year 1 was 1999, Year 10 shall be 2008.

Storm Box Replacement / Cleaning Project No. **9** Fund No. CW53 / 810085

- (B) \$ 100,000 This is a continuing program to systematically replace aged and failing storm sewer box
(C) 0 culverts. Many areas have been identified from emergency repairs and previous problems.
\$ 100,000 These include: East Washington Avenue, East Dayton Street, Bassett Street, Speedway
Road, Miller Avenue, and Railroad Street. Additionally, many storm boxes that are
structurally sound are in need of maintenance in the form of cleaning. Sediment has
accumulated in the storm sewers, cutting conveyance efficiencies by up to 50% or more.
Many segments of storm sewer have been identified as needing this cleaning and
maintenance with the highest priority being the Owen Park box culverts from Forsythia to
Rosa Road. This item shall fund either a cleaning project or a replacement project, or a
combination of both, depending on priorities and available funding.

Major Roadway Culvert Crossings Project No. **10** Fund No. CW53 / 810086

- (B) \$ 100,000 This project is for major (large size) stormwater culvert crossings under roadways in areas of
(C) 0 new development or in areas impacted by new development. When the crossing is entirely
\$ 100,000 within a newly platted street, it is proposed that the City pay only for the proportion of the total
project cost that can be attributed to a culvert end area in excess of 64 square feet. The
flooding event of 2000 has shown that a high priority should be given to the replacement of
the culvert crossing at Hayes Road and Portage Road.

Assessable Drainage Improvements Project No. **11** Fund No. CW53 / 810087

- (B) \$ 0 This item anticipates the need for major improvements to the stormwater management system
(C) 175,000 in outlying, newly developing areas where the upstream lands are not fully developed and can
\$ 175,000 justifiably be charged for these improvements as they develop. Additionally, these projects
could include planning, particularly when wetlands and floodplains are involved. Other
funding is from special assessments.

Shorelines Project No. **12** Fund No. CW53 / 810088

- (B) \$ 400,000 The shoreline Improvement Program is for large-scale improvements to the shoreline of
(C) 0 lakes, creeks, and rivers. Requested projects include a canoe launch on Starkweather at
\$ 400,000 Dixon Greenway, Monona Bay Shoreline at Clarence Court, Hudson Park / Beach, Wingra
Creek, and Starkweather Creek. Funding under this item has been doubled to allow for
additional major repair work as a result of the Flood of 2000. Other work under this item may
include underwater video inspections and surveys of the shoreline of the Monona Terrace
Convention Center structure or similar.

Local Drainage Problems

Project No. 13 Fund No. CW53 / 810199

(B) \$ 100,000
(O) 0
\$ 100,000

In 1993, the City experienced a rainfall event that had a probability of occurring about once every 10 years. In 1996, the City experienced an even heavier flooding event on the magnitude of a 25 to 100 year recurrence interval. Both storm events revealed many local drainage problems (flooding) that both caused property damage and presented a significant safety concern. City Engineering maintains a database of the identified drainage problems and plans for solutions as time and money allows. The flood of 2000 has added significantly to that database (over 200 items currently). This budget item would begin to implement solutions to the drainage problems on a prioritized basis, as determined by the City Engineer and the Common Council. Severe problems at the top of the list include: Dean Avenue (\$25,000); Remington at railroad tracks (\$25,000); and Silver Lane Overflow at Richard Street (\$50,000).

Madison-Sun Prairie Detention Pond

Project No. 14 Fund No.

(B) \$ 0
(O) 0
\$ 0

In 1996, the Cities of Madison and Sun Prairie entered into an agreement to purchase open space land separating the two municipalities in the vicinity of Hoepker Road and USH 151. As part of the agreement, the City is obliged to construct a 20 acre (approximation) retention pond for stormwater management for both municipalities. This budget request would fund that construction obligation or pay the City of Sun Prairie in cash with a return of the payment to the City in the future when the retention pond is more urgently needed to accommodate new, additional development. The City completed a substantial portion of the construction in 2000 and anticipates final construction when needed to accommodate development.

Hoard Street Sewer Replacements

Project No. 15 Fund No. CW53 / 810223

(B) \$ 0
(O) 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 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 (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 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; and Kedzie from East Lawn Court to East Washington. Total cost is split equally between storm and sanitary budgets. Funding in the Engineering-Stormwater section of the capital budget (this section) is to be derived from the proposed Stormwater Utility. Implementation of this project is therefore contingent upon both the creation of the new Utility, and the provision of funding for this project.

Rosa Culvert Grate Replacement

Project No. 16 Fund No. CW53 / 810237

(B) \$ 115,000
(O) 0
\$ 115,000

This item is for replacement of a very large debris grate at the storm culvert entrance in Bordner Park (on Rosa Road). The grate has been repaired numerous times and cannot be repaired to adequately collect debris and maintain safety at this Park location.

**2001
Capital Budget
Summary**

Agency Name: **Engineering - Stormwater**

Agency Number: **53**

Project Name	Agency Request	CIRC	Executive	Adopted		
				G.O. Debt	Other Funding	Total
1 Accompanying Storm Sewer	\$ 450,000	\$ 450,000	\$ 450,000	\$ 400,000	\$ 50,000	\$ 450,000
2 Greenway Improvements	450,000	450,000	150,000	150,000	0	150,000
3 Priority Watershed Projects	638,000	638,000	638,000	0	638,000	638,000
4 EPA / NPDES Permit	75,000	75,000	75,000	75,000	0	75,000
5 Stormwater Basins	350,000	350,000	350,000	0	350,000	350,000
6 Odana Pond Dredging	300,000	0	0	0	0	0
7 Inter-Municipal Storm Sewers	2,300,000	2,300,000	2,300,000	50,000	2,250,000	2,300,000
8 Tiedemann Pond Pump Station	25,000	25,000	25,000	25,000	0	25,000
9 Storm Box Replacement / Cleaning	100,000	100,000	100,000	100,000	0	100,000
10 Major Roadway Culvert Crossings	100,000	100,000	100,000	100,000	0	100,000
11 Assessable Drainage Improvements	175,000	175,000	175,000	0	175,000	175,000
12 Shorelines	300,000	300,000	300,000	400,000	0	400,000
13 Local Drainage Problems	100,000	100,000	100,000	100,000	0	100,000
14 Madison-Sun Prairie Detention Pond	0	0	0	0	0	0
15 Hoard Street Sewer Replacements	325,000	325,000	325,000	0	325,000	325,000
16 Rosa Culvert Grate Replacement	115,000	115,000	115,000	115,000	0	115,000
Total	<u>\$ 5,803,000</u>	<u>\$ 5,503,000</u>	<u>\$ 5,203,000</u>	<u>\$ 1,515,000</u>	<u>\$ 3,788,000</u>	<u>\$ 5,303,000</u>