

1 814

City of Milwaukee

Capital Improvements Committee

A historical black and white photograph of a street in Milwaukee, Wisconsin. The central focus is the tall, ornate City Hall building with a prominent clock tower. To the right is a large, multi-story building with a sign that reads "DELONGE & SON". The street is wide and appears to be under construction or repair, with visible tracks and uneven ground. Overhead wires for streetcars or trolleys crisscross the sky. The overall scene depicts a busy urban environment from the early 20th century.

2017 Capital Budget Hearings

April 18, 2016

DOA – Environmental Collaboration Office

Better Buildings Challenge

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		400,000		400,000	50%	
Total		\$400,000		\$400,000		

The Better Buildings Challenge is a national program. The Energy Reduction Team recommends that projects specifically focused on energy efficiency should be funded centrally.

The 2016 Budget provided \$400,000 for this program. No request was submitted for 2017.

In 2015, OES requested \$150,000 for 2015 and \$200,000 each year from 2016 to 2021. No funding was provided in the 2015 Budget. The 2015 request also included \$60,000 of Grant & Aid funding. The Grant & Aid funding represented Focus on Energy incentives which are administered through a Contribution Account. The 2016 request includes no grant funding.

Since 2011, \$700,000 has been budgeted in DPW's Energy Efficiency & Renewable Energy Initiative capital account. The account was established in 2011, to match grant funding for projects which will reduce the City's energy use. When the program began, incentives for energy efficiency projects had been strongly supported by the state and the utilities. Expenditures through the end of 2013 totaled \$493,400. DPW did not submit a request for that account for 2016 or 2017.

Capital Request History – Better Buildings Challenge

Annual Request		Six-Year Request	
2017	No Request	2017	No Request
2016	\$600,000	2016	\$3,600,000
2015	\$150,000	2015	\$1,150,000
2014		2014	

Department of Administration - ITMD

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$3,909,640	(9.9%)	
2016	225,000	4,115,000		4,340,000	33%	
2015	250,000	3,010,000		3,260,000	208%	
2014	285,000	775,000		1,060,000	(44%)	1,617,352
2013	425,000	1,450,000		1,875,000	213%	920,726
2012	450,000	150,000		600,000	(70%)	368,799
2011	280,000	1,755,000		2,035,000	114%	1,307,220
2010	190,000	759,400		949,400	(42%)	1,459,890
2009	439,320	1,217,600		1,656,920	264%	993,672
2008		455,720		455,720	(64%)	582,024
2007		1,276,000		1,276,000		835,421
Total	\$2,544,320	\$14,963,720		\$17,508,040		\$8,085,104

The Department of Administration – ITMD has submitted 18 capital requests, five more than last year. Eight of the requests are for funding in 2017. The remaining ten projects are out-year requests. Annual funding for ITMD capital projects is highly variable.

The total six-year request is \$12,441,700 and represents an increase of \$951,700 (8%) from last year’s six-year request.

There are three new projects in the 2017 request; a project to update the City Assessor’s systems and records to meet the digital requirements of the Dept. of Revenue, a project to implement an the Oracle PeopleSoft module that will assist with Budget development and management, and an Open data project. The remaining projects have all appeared as out year requests in previous years.

ITMD has been directed to coordinate technology across departments and to look for opportunities to share resources and reduce costs. 2015 was the first year that DOA-ITMD has the purchasing authority for desktop computers in their operating budget for consolidated departments. Departments that have not been administratively centralized within DOA-ITMD include, the Police and Fire Departments, Water Works, Municipal Court, and the Library.

Capital Request Summary							
Project/Program	2017	2018	2019	2020	2021	2022	6 Yr. Total
IT Upgrades & Replacement	300,000	300,000	300,000	300,000	300,000	300,000	\$1,800,000
Public Facility Communications	575,000	625,000	625,000	625,000	625,000	625,000	\$3,700,000
City Assessor Modernization	384,640	155,000	102,060				\$641,700
Oracle Peoplesoft Budget Module	750,000						\$750,000
Open Data – Dashboard & Analytics	150,000	150,000					\$300,000
Oracle/PeopleSoft FMIS Upgrade	1,300,000						\$1,300,000
CSWAN/COMOM Upgrade.	250,000						\$250,000
Corporate Database Server Upgrade	200,000						\$200,000
Oracle PeopleSoft HRMS eModules		500,000					\$500,000
Web Security Appliance		350,000					\$350,000
Network Monitoring			200,000				\$200,000
City IT Training Facility			300,000				\$300,000
Websphere Upgrade			200,000				\$200,000
Oracle/PeopleSoft Upgrades Study			300,000				\$300,000
Oracle PeopleSoft Employee Portal			300,000				\$300,000
Corporate Server & Storage Upgrade				500,000			\$500,000
City Phone System Upgrade				750,000			\$750,000
Facilities Communication Repair Vehicle					100,000		\$100,000
Total	\$3,909,640	\$2,080,000	\$2,327,060	\$2,175,000	\$1,025,000	\$925,000	\$12,441,700

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$200,000		
Request						
2016		270,000		270,000		
2015						
Total		\$270,000		\$270,000		

This project will update the server that supports the corporate database. The Oracle database server houses critical datasets including the Unified Call Center, City Clerk Licenses, and Master Property as well as data lookups and web applications used by the City web site. The project will reduce the likelihood of failure and increase the speed and capacity of the system. Although the goal of ITMD is to consolidate servers and software, this system is not a good candidate for consolidation efforts because it lacks processing power and the capacity for a large scale consolidation.

This project was first requested in 2014 for funding (\$95,000) in 2015. In 2015, funding of \$480,000 was requested for 2016. The 2016 request split the funding over 2 years; \$270,000 and \$200,000 for 2016 and 2017 respectively. The corporate database last received funding in 2008 (\$204,900). The project is expected to have a useful life of seven years.

Supported Systems and Applications
Lagan
Map Milwaukee
GIS & mapping
MPD Crime Data & mapping
E-notify
Digger’s Hotline
MPROP Master Property File
DIME
Master Address Index
COMPASS
Water mapping
Sewer Mapping

Funding in 2016 supported 3 positions (0.7FTEs); 1 Programmer Analyst and 2 Database Admin. and Assoc. Funding in 2017 is for equipment and software..

Capital Request History – Corporate Database Server Upgrade

Annual Request		Six-Year Request		Priority	
2017	\$200,000	2017	\$200,000	2017	1 of 18
2016	\$270,000	2016	\$470,000 (2016, 2017)	2016	4 of 13
2015	\$0	2015	\$480,000 (2016)	2015	7 of 14
2014	\$0	2014	\$95,000 (2015)	2014	9 of 18

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request			\$	\$1,300,000		
2016				0		
2015				0		
2014				0		98,400
2013				0		
2012				0		0
2011				0		4,334
2010		598,400		598,400	(51%)	1,175,352
2009		1,217,600		1,217,600		305,081
2008				0		
2007				0		
Total		\$1,816,000		\$1,816,000		\$1,583,167

This project will guarantee continued support for the City’s FMIS system and increase productivity. The PeopleSoft Financial system requires periodic upgrades. This upgrade was first requested in 2011 for funding in 2016. The upgrade was rescheduled to 2017 to allow for the HRMS upgrade to be moved to 2016. The cost estimate has not changed.

The last major upgrade of the FMIS system was funded in 2009 and 2010. Expenditures for that upgrade were \$1.48 million.

\$27,900 of the request is expected to support 2 positions (0.3FTEs); 1 ERP Manager and 1 Systems Analyst Sr.

Capital Request History – Oracle/PeopleSoft Financial Upgrade

Annual Request		Six-Year Request		Priority
2017	\$1,300,000	2017	\$1,300,000	2017 2 of 18
2016	\$0	2016	\$1,300,000 (for 2017)	2016
2015	\$0	2015	\$1,300,000 (for 2016)	2015
2014	\$0	2014	\$1,300,000 (for 2016)	2014
2013	\$0	2013	\$1,300,000 (for 2016)	2013
2012	\$0	2012	\$1,300,000 (for 2016)	2012
2011	\$0	2011	\$1,300,000 (for 2016)	2011

IT Upgrades/Replacement

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Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$300,000	0%	
2016	300,000			300,000	20%	
2015	250,000			250,000	(12%)	
2014	285,000			285,000	(5%)	416,667
2013	100,000	200,000		300,000	(8%)	149,280
2012	325,000			325,000		105,746
2011						
Total	\$1,260,000	\$200,000		\$1,460,000		\$671,693

This capital account was first requested for inclusion in the 2012 Budget. Its purpose is to facilitate small to mid-sized IT projects. Out year project requests may be consolidated into this program in the year they are implemented. The six-year request includes \$300,000 each year from 2017 through 2022 for a total of \$1,800,000. Funding has been requested for two projects in 2017.

The first project is the continuation of the Network Switch Upgrade project. This project began in 2015. A majority of the City's network switches are past or near the end of their useful life. Currently switches are only replaced when they fail. Funding for switch replacement is dispersed among user departments. This project will ensure consistent and secure access to the network for all City personnel. Funding in 2015 was used to replace unsupported and failing switches that were more than 14 years old. Funding in 2016 will be used to switches that are more than 10 years old and funding in 2017 will be used to replace switches that are over 8 years old.

The second project will replace ITMD's data backup system which is more than seven years old and unsupported.

\$31,400 of this request is expected to support 3 positions (0.5 FTEs); 2 IT Support Specialists Sr. and 1 Telecommunications & Other.

Capital Request History - IT Upgrades/Replacements

Annual Request		Six-Year Request		Priority	
2017	\$300,000	2017	\$1,800,000	2017	3 of 18
2016	\$300,000	2016	\$1,800,000	2016	3 of 13
2015	\$280,000	2015	\$1,780,000	2015	5 of 14
2014	\$285,000	2014	\$585,000	2014	3 of 18
2013	\$100,000	2013	\$600,000	2013	1 of 12
2012	\$100,000	2012	\$2,600,000	2012	3 of 17

Previously Requested IT Projects

- 2016 Network Switch Upgrade Schedule (unsupported/failing switches > 10 years old)
- 2016 Upgrade voice mail system hardware
- 2016 Planning for the Open Data portal
- 2015 Implementation of Lagan (call center) Employee mobile product
- 2015 Network Switch Upgrade Schedule (unsupported/failing switches > 14 years old)
- 2015 Upgrade the City's Titan CMS
- 2014 Consolidation of City printing services
- 2014 Build out of City Hall wireless network
- 2013 Disaster Recovery Site Project
 - o Creates a backup site for Milwaukee.gov with data replicated in near real time
 - o Provide backup for e-mail, Oracle, City Clerk and Treasurer applications
- 2013 Mobile access to Lagan System
- 2012 Active Directory Consolidation Project
- 2012 E-mail Archive Server Replacement

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request		\$575,000		\$575,000		
2016		575,000		575,000	5%	
2015		550,000		550,000	10%	
2014		500,000		500,000		395,731
2013		500,000		500,000		311,277
2012		500,000		500,000		173,995
2011		500,000		500,000		742,288
2010		500,000		500,000	43%	409,441
2009		350,000		350,000	(44%)	719,111
2008	400,000	225,000		625,000		551,259
2007	400,000	225,000		625,000		576,457
Total	\$800,000	\$4,425,000		\$5,225,000		\$3,879,559

This program provides for the installation and maintenance of the City of Milwaukee Optical Network (COMON). The network provides circuits for data, telephone, SCADA, security, building management, fuel management, telemetry and video systems. The network has been developed to serve other public entities including UWM, MATC, Marquette University, MIAD, WisDOT, Discovery World, and the Milwaukee Public Museum. Police locations are used as hubs to connect other City sites.

This program was formerly titled “Public Safety Communications”. It was moved from DPW-Admin to DOA-ITMD by the 2013 Budget.

Carryover

This program had \$279,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$308,000.

The City designs, installs and manages its own wide area network (WAN) built with City fiber in City conduit. Almost all governments and businesses purchase WAN circuits from entities like AT&T, Time Warner, Telecom, Quest and other carriers. DPW provides those services directly to the City. The value of these circuits can be roughly estimated by the cost of getting those circuits from AT&T or others. COMON provides about 225 Gigabit Ethernet circuits to various entities. AT&T charges between \$2,500 and \$4,000 per month for similar circuits. Based on this, the value of the circuits is about \$450,000 per month.

Projects are designed to increase system redundancy and to provide diverse routes to critical public safety locations. The 2017 program will continue the extension of the optical network and provide network redundancies for critical facilities.

Average annual funding for this project (since 2001) is \$525,500. The six-year request is for \$625,000 each year from 2018 through 2022, a decrease of 1.3% from the 2016 six-year request. A list of programming priorities was not included with the capital request.

\$200,000 of this request is expected to support 15 positions (3 FTEs); 3 Telecommunications and Other and 12 Electrical Mechanics in DPW Operations.

Capital Request History – Public Facility Communications

Annual Request		Six-Year Request		Priority	
2017	\$575,000	2017	\$3,700,000	2017	4 of 18
2016	\$325,000	2016	\$3,750,000	2016	2 of 13
2015	\$700,000	2015	\$3,700,000	2015	2 of 14
2014	\$937,000	2014	\$4,137,000	2014	2 of 18 (ITMD)
2013	\$625,000	2013	\$3,750,000	2013	1 of 2 (DPW)
2012	\$625,000	2012	\$3,750,000	2012	1 of 3 (DPW)
2011	\$625,000	2011	\$3,750,000	2011	1 of 1 (DPW)

City Assessor Modernization

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Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017						
Request		\$		\$384,640		

This project will make upgrades to software and systems that will allow the City Assessor’s Office to comply with the Department of Revenue digital data requirements that are outlined in the 2012 Property Assessment Manual. The upgrades have been requested by the Assessor’s Office.

It is anticipated to be at least a three year project. The first phase would be to digitize and geo-reference the sketches maintained by the Assessor. The first phase would also include the collection of street level imagery.

This project is separate from the new tax assessment software project that has been funded in the Assessor’s Office in 2015 and 2016.

Preliminary project timeline

2017	Digitize and geo-reference hard copy sketches
2018	Implement Software packages <ul style="list-style-type: none"> • Desktop review appraiser • Desktop review management • Appeals and litigation management • Spatialest Litigation Management
2019	Implement change detection services for building footprints (vendor provided)

Capital Request History – City Assessor Modernization

Annual Request		Six-Year Request		Priority	
2017	\$384,640	2017	\$641,700 (2017, 2018)	2017	5 of 18

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$250,000		
2016		500,000		500,000		
2015				0		
2014				0		
2013				0		
2012				0		
2011				0		
2010				0		
2009				0		
2008		1,100,000		1,100,000		1,066,722
2007				0		
Total		\$1,600,000		\$1,600,000		\$1,066,722

The full title of this request is Community Safety Wide Area Network (CSWAN) / City of Milwaukee Optical Network (COMON) Upgrade. It was moved to DOA-ITMD from DPW-Admin by the 2013 Budget.

This project to replace Ethernet Routing Switches was first requested in 2012 for funding in 2015. Manufacturer support for the switches is expected to end in June of 2016. Funding of \$250,000 is requested for 2017 to complete the project.

Annual maintenance is not expected to change substantially and will be included in ITMD’s operating budget.

In 2016, \$20,100 of the request was expected to support 2 positions (0.3 FTEs); 2 Telecommunications Analysts Sr. Funding in 2017 will be used for equipment, not salaries.

Capital Request History – CSWAN/COMON Upgrade

Annual Request		Six-Year Request		Priority	
2017	\$250,000	2017	\$250,000	2017	6 of 18
2016	\$500,000	2016	\$750,000 (2016, 2017)	2016	5 of 13
2015	\$0	2015	\$1,100,000 (2016, 2017)	2015	8 of 14 (ITMD)
2014	\$0	2014	\$1,100,000 (for 2015)	2014	8 of 18 (ITMD)
2013	\$0	2013	\$1,100,000 (for 2015)	2013	2 of 2 (DPW)
2012	\$0	2012	\$1,100,000 (for 2015)	2012	3 of 3 (DPW)

Oracle PeopleSoft Budget Module

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Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017						
Request		\$		\$750,000		

This is a **new** request for 2017. This is a one year project to implement a PeopleSoft module which will increase the efficiency of the annual City Budget process.

Annual maintenance payments for the software will be included in ITMD's operating budget.

\$27,910 of this request is expected to support 2 positions (0.3 FTEs); 1 ERP Manager and 1 Systems Analyst Sr.

Capital Request History – Oracle PeopleSoft Budget Module

Annual Request		Six-Year Request		Priority	
2017	\$750,000	2017	\$750,000	2017	7 of 18

Open Data – Dashboard & Analytics

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Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017						
Request		\$		\$150,000		

This is a **new** request for a two year project. ITMD is developing an Open Data portal. The dashboard interfaces and analytics tools will benefit internal users such as the Budget Office, elected officials and department heads.

Funding for this project is not expected to support any positions.

Capital Request History – Open Data – Dashboard & Analytics

Annual Request		Six-Year Request		Priority	
2017	\$150,000	2017	\$300,000 (2017, 2018)	2017	8 of 18

Out Year Requests

Web Security Appliance

Out Year 9 of 18

This one year project was originally requested in 2011 and scheduled for 2016. The 2015 request moved the project to **2018** where it remains for the 2017 request. The cost estimate has not changed. This project will enhance internet security and safeguard against spyware, adware, malware and “phishing”. It will also stop users from unintentionally passing their usernames and passwords to spam sites.

Operational savings will be realized in the reduction of time spent trouble shooting and fixing infected computers. The project will also limit the City’s exposure to liability. The estimated project cost is \$350,000.

Oracle PeopleSoft HRMS eModules

Out Year 10 of 18

This project was first requested in 2014 for funding in 2015. The 2015 request moved the project to **2018** where it remains for the 2017 request. This project will evaluate additional modules for the PeopleSoft system. Potential modules include eDevelopment, eProfile Manager and eCompensation Manager. These modules may enhance self-service functionality. The estimated cost of the project is \$500,000.

Network Monitoring

Out Year 11 of 18

This is the first year that funding has been requested for a network monitoring system. The system will notify the network administrator in the event of outages. The project is scheduled for **2019** and the estimated cost is \$200,000

Oracle PeopleSoft Employee Portal

Out Year 12 of 18

This project was first requested in 2014 for funding in 2015. The 2015 request moved the project to **2019** where it remains for the 2017 request. The project cost estimate of \$300,000 has not changed. This one year project would implement an employee portal for new and/or terminated employees.

Oracle PeopleSoft Upgrades Study

Out Year 13 of 18

This project has been requested since 2009 with the title “Fusion Upgrade Study”.

This one year project was originally scheduled for 2012. It is currently scheduled for **2019**. This project will evaluate the functionality and suitability of the next version of the financial and HRMS software. The study will aid the development of implementation and transition plans and provide more accurate estimates of total migration costs. The estimated project cost is \$300,000 and has not changed since 2011.

City IT Training Facility**Out Year 14 of 18**

This project will replace the projectors and other training tools in the IT training room. The training room has been temporarily moved to the 8th floor of City Hall. The funding is being requested to update the equipment when the training room is moved to its permanent location. Funding of \$300,000 is requested for **2019**.

Websphere Upgrade**Out Year 15 of 18**

This project will upgrade the current IBM Websphere Application Server (WAS) as the existing system approaches its end of life. Funding of \$200,000 is requested for **2019**.

Corporate Server and Storage Upgrade**Out Year 16 of 18**

Funding of \$500,000 is requested for **2020** to upgrade servers and SAN that were installed in 2014. .

Municipal (City) Phone System Upgrade**Out Year 17 of 18**

The City's Avaya phone system was originally installed in 2004. Funding was provided in 2012 (\$720,000) to replace phone hardware. This project will update or replace the phone system. \$750,000 is requested for **2020**.

Authority for this project has been moved from DPW-Admin to DOA – ITMD by the 2013 Budget.

Facilities Communication Repair Vehicle**Out Year 18 of 18**

Funding of \$100,000 is requested for **2021** to replace the vehicle used by ITMD staff to address network outages and other issues throughout the City.

Project Updates and Past Requests

Oracle/PeopleSoft HRMS Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		1,000,000		1,000,000		
2015						
2014						
2013						
2012						30,708
2011		1,470,000		1,470,000		1,077,073
2010						
2009						
2008						
2007		710,000		710,000		709,933
Total		\$3,180,000		\$3,180,000		\$1,817,714

The PeopleSoft HRMS system requires periodic upgrades. The project was scheduled for 2017 but then moved to the 2016 program to take advantage of vendor supplied tax upgrades. The upgrades are issued every two months. If the HRMS system is not upgraded in 2016, the upgrades which are currently supplied at no additional cost, will have a cost of \$60,000 each. The FMIS upgrade which had been scheduled for 2016 was moved to 2017 to accommodate this project.

Annual maintenance payments for the HRMS system are included in ITMD's operational budget.

The last major upgrades of the HRMS system were funded in 2011 (\$1.47 million) and 2007 (\$710,000) Expenditures for those upgrades were \$1.11 million and \$709,900 respectively.

\$27,910 of the 2016 request is expected to support 2 positions (0.3FTEs); 1 ERP Manager and 1 Systems Analyst Sr.

Capital Request History – Oracle/PeopleSoft HRMS Upgrade

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$1,000,000	2016	\$1,000,000	2016	6 of 13
2015	\$0	2015	\$1,100,000 (for 2017)	2015	10 of 14
2014	\$0	2014	\$1,100,000 (for 2015)	2014	10 of 18
2013	\$0	2013	\$1,100,000 (for 2015)	2013	9 of 12
2012	\$0	2012	\$1,100,000 (for 2015)	2012	14 of 17
2011	\$0	2011	\$1,100,000 (for 2015)	2011	14 of 15

Tax Collection System

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		1,150,000		1,150,000	(4%)	
2015		1,200,000		1,200,000		
Total		\$2,350,000		\$2,350,000		

This project to replace the tax collection system used by the Treasurer was funded in 2015 and 2016. The new system will have increased reporting and productivity features. Support for the old system ended on December 31, 2014. The department has frozen the mainframe and will continue to maintain it until the new system is in place.

The system is expected to have a useful life of six years.

Capital Request History – Tax Collection System

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$800,000	2016	\$800,000	2016	1 of 13
2015	\$1,200,000	2015	\$2,000,000	2015	1 of 14

CRM Upgrade Kana/Lagan

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		220,000		220,000		
2015						
Total		\$220,000		\$220,000		

This is a new project for 2016 to upgrade the Unified Call Center Application.

The project will make information more easily accessible to departments and policy makers and it will improve the efficiency of responding to service requests. The project will also review current connections to several City of Milwaukee “home grown” back-end systems for appropriate modifications or upgrades.

Annual maintenance for the system will be included in the DOA-ITMD operating budget.

The Unified Call Center last received capital funding in 2010 (\$950,000).

Capital Request History – CRM Upgrade Kana/Lagan

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016	\$220,000	2016	\$220,000	2016	7 of 13

Work Place Safety and Efficiency

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015		400,000		400,000		
2014				0		421,350
2013		750,000		750,000		284,327
Total		\$1,150,000		\$1,150,000		\$705,677

This project was formerly called “Remodeling 809 Building”. The workspace on the 4th floor of the 809 Building did not meet building codes for fire suppression and the space was inefficient for collaborative work efforts. A space study was done in 2004 to support the request which was submitted each year beginning in 2006. Funding was provided in the 2013 Budget (\$750,000) to address the most pressing safety concerns. No funding was provided in 2014. Additional funding (\$400,000) was provided in the 2015 to complete the project. The year it was first funded, the estimated project budget was \$2,376,700. **No additional funding has been requested.**

Phase 1 has been completed.

The design of the second phase which will include common areas and conference rooms has been delayed. The new layout of the 4th floor will accommodate the additional personnel that have been added to ITMD as part of the administration consolidation departmental IT services. Construction is expected to take place over two or three years to minimize the disruption to the department’s operation.

DSS E-vault

The 2015 Budget included funding to purchase the next generation of WORM format, file encryption storage device which is required to sustain and preserve the integrity and authenticity of record in an unalterable, secure manner to meet legal compliance with DOD HIPPA, SEC and Law Enforcement standard. A Nexsan Assureon 18TB device will be replicated at a disaster recover site with auto purge, legal hold, and chain of custody audit functionality.

The project budget included equipment to scan the 100-year collection of property files that is housed in the 809 Building. Budgeted funding does not include the staff required to digitize the collection. **No additional funding has been requested.**

Mobile Device Security & Management

This one year project was first requested in 2013 for funding in 2014. No funding was provided in the 2014 Budget. The project received \$160,000 in the 2015 Budget. The project will provide security and management software for employees who use personal mobile devices to access City systems. Once the software has been installed on a mobile device, it will allow the device to be secured remotely, wiped in case of loss or theft, and managed from a central location. The department is formulating a strategy for implementing this technology. As of April 2014, approximately 1,400 devices access the mobile email system. **No additional funding has been requested.**

MapMilwaukee ArcGIS Upgrade (GIS Infrastructure Improvements)

This request, which was first submitted in 2013, superseded the MapMilwaukee Mobile Expansion request. It was a one year project scheduled for 2015 to allow employees to access and update MapMilwaukee information while in the field. This project will increase capacity, increase reliability, facilitate the use of new development tools, and support new multi-platform GIS applications. The estimated cost in 2013 was \$300,000. \$400,000 was provided in the 2015 Budget. **No additional funding has been requested.**

Fusion Upgrade Study

This project was requested for 2016 with a new title. (**See Oracle/PeopleSoft Upgrades Study**)

Web Application Server Replacement

This one year project received funding in 2014 (\$125,000) for the scheduled replacement of web application servers. Replacement of the servers in a timely manner ensures warranty coverage, and support of applications on the City's website. The original request was for \$75,000. **No additional funding has been requested.**

Webcasting

This one year project received funding in the 2014 Budget (\$150,000) to add streaming ability to the City's website. The on-going annual cost is estimated to be \$15,000. The project was expected to reduce operating costs, increase productivity and ensure inter-departmental compatibility and consistency. **No additional funding has been requested.** \$28,800 of the request was for 5 positions (0.6 FTEs); 1 Internet Coordinator, 1 Internet Analyst and 3 Various positions.

Titan

This was a new request in 2014 for \$120,000 of funding in 2015. The Titan Content Management System (CMS) is the software used to build the City's website. The City was using version 5.3. ITMD anticipated that by 2015, Titan would likely be in version 7.x. Supporting and maintaining v5.3 would have been difficult and costly. The upgrade allowed performance enhancements and increased functionality. **This project was incorporated into IT Upgrades /Replacements program in the 2015 capital request.**

Emergency Notification System

This was a new request in 2014 for \$50,000 in 2016 to upgrade CityWatch, the City's emergency notification system. The system is used by the Police Department and the Health Department. Other departments that are exploring use of the system are the Port of Milwaukee, the City Hall Operator and the Unified Call Center. It was proposed as a one year project to upgrade the system that was installed in 2008. The project was not funded in 2014. No request was submitted for 2015. **This project was incorporated in the IT Upgrades and Replacement program in 2016.**

Storage Area Network (SAN) Expansion

This one year project superseded the SAN Replacement request from 2012. The SAN installed in 2008 reached its capacity in 2012. Funding of \$75,000 was requested for 2011 to replace the SAN. The expansion project increased capacity, increased redundancy and improved recovery options. The expansion will allow City departments to utilize this centralized City SAN. Advances in technology will reduce the energy consumption of the network. The project was funded as requested (\$325,000) in 2013 and is now complete. Expenditures through the end of 2013 were \$113,713.

eAps Procurement Life Cycle (Procurement Application)

This project to purchase two FMIS modules which will help automate and integrate procurement activities, was originally requested for 2012 (\$450,000). The project was funded as requested in the 2013 Budget with the title "Procurement Application". Annual maintenance costs for this project will be included in DOA-ITMD's operation budget. **No additional funding has been requested.**

In December 2014, \$50,200 of general obligation carryover borrowing authority was moved from the DOA Records Center project to this account.

Record Center Work Environment

This project received \$198,000 in 2011. **The project was complete in 2012.** Total expenditures were \$147,765. In December 2014, \$50,200 of carryover borrowing authority was moved from this project to the Procurement Application project.

Improve and Update City Website

This project received \$140,000 in the 2011 budget. Expenditures totaled \$64,600. This project was first requested in 2009. **No additional funding has been requested.**

PC Replacement Cycle and Minimum Operating Standards

This was a new request in 2014 for an on-going program to coordinate the purchase and the replacement cycles of the computers used by various departments. It would also have ensured that minimum operating standards are maintained by all departments. As technology continues to evolve and the City continues to increase the number of internal and external services that are available electronically, maintaining minimum operating standards and system compatibility throughout the City becomes increasingly important.

This program would have allowed for the bulk purchasing of computers and would have minimized equipment variability. **No capital funding has been provided.** The 2015 Budget provided O&M funding in DOA-ITMD for PC replacements in consolidated departments.

PC Replacement Project

This project was a new one year request in 2011 for 2015 (\$115,000). It did not receive funding. The project would have replaced old computers with energy efficient models and reduced the number of Microsoft licenses. The department has decided not to move forward with this project.

City Assessor

Assessment Software

1 of 1

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$349,800		
Request						
2016		556,000		556,000		
2015		555,000		555,000		
Total		\$1,111,000		\$1,111,000		

2017 will be the third year of what is expected to be a three to four year project to replace an in-house assessment software system. No funding has been requested after 2017. Like the system used by the Treasurer, maintenance requires a skillset that is increasingly difficult to find. A new system will provide efficiencies in the Assessor's office, increased functionality, and greater accessibility to other city departments including the Treasurer, DPW, and the Department of Neighborhood Services. The vendor contract for the project was signed in early 2016.

This project is independent of the City Assessor Modernization project being requested by DOA – ITMD.

The positions associated with this request will support the conversion of property data to the new system over the three year life of the project. Three of positions supported by this project are in ITMD and three are in the Assessor's office. The number of positions supported by this project has not changed from last year's request. (see table below)

Title	Positions	FTEs	Amount
Systems Analyst Project Manager	1	0.5	\$59,000
Property Systems Administrator	1	0.5	\$36,000
Chief Assessor	1	0.2	\$27,000
Application Development Manager	1	0.1	\$18,500
Systems Analyst Project Leader	1	0.4	\$51,500
Programmer Analyst	1	0.3	\$30,000
Total	6	2.0	\$222,000

Capital Request History – Assessment Software

Annual Request		Six-Year Request		Priority	
2017	\$349,800	2017	\$349,000	2017	1 of 1
2016	\$555,000	2016	\$1,112,000 (2016, 2017)	2016	1 of 1
2015	\$833,000	2015	\$1,667,000 ((2015,2016)	2015	1 of 1

City Attorney

City Hall Preservation, Restoration and Renovation – 8th Floor

1 of 1

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$3,523,500		
Request						
2016						
2015						
2014		1,758,000		1,758,000		1,130
2013						
2012						
2011						
2010						
2009						61,895
2008						21,620
2007	250,000			250,000		2,904
Total	\$250,000	\$1,758,000		\$2,008,000		\$87,549

This request was formerly titled “City Hall 8th Floor Remodel”. This project has been requested every year since 2011. The current project estimate to renovate the 8th floor of City Hall for the purpose of providing offices for the City Attorney is \$5,281,500. This amount includes funds that have already been budgeted. The scope of the project has not changed.

Alternatives to this project may include expanding the City Attorney’s space in the Zeidler Municipal Building or leasing office space outside the City Hall Complex. Costs associated with those options were not included in the 2017 request.

Space on the 8th floor is currently being used for various purposes. An IT Training Room has been relocated from the basement to accommodate the foundation project. A conference room is used by the City Attorney’s Office. A portion of the space is used by the Fire & Police Commission for interviewing. A lactation room for employees has been added.

The relocation of the Fire & Police Commission Offices to the Zeidler Municipal Building, which was funded in 2014, remains on hold.

Capital Request History – Renovation of the 8th Floor of City Hall

Annual Request		Six-Year Request		Priority	
2017	\$3,523,000	2017	\$3,523,000	2017	1 of 1
2016	\$3,120,000	2016	\$3,120,000	2016	1 of 1
2015	\$1,937,300	2015	\$3,633,500 (2015-2016)	2015	1 of 1
2014	\$2,013,507	2014	\$5,488,981 (2014-2016)	2014	1 of 1
2013	\$2,013,507	2013	\$5,488,981 (2013-2015)	2013	1 of 1
2012	\$1,600,000	2012	\$4,680,000 (2012-2014)	2012	1 of 1
2011	\$4,804,000	2011	\$4,804,000	2011	1 of 1

Background

In 2006, the City Attorney's Office was moved from the 8th floor of City Hall to accommodate the City Hall Restoration project. It was anticipated that the City Attorney would need to vacate the 8th floor for 2-3 years. The City Attorney currently occupies space on the 7th and 10th floors of the Zeidler Municipal Building.

The City Attorney asserts that its current location is insufficient in terms of size and design. The space lacks adequate storage and preparation areas for on-going projects and litigation. As a result, the Office of the City Attorney lacks the space, privacy and security recommended for the sensitive and confidential nature of its work.

The City Attorney submitted a capital request for inclusion in the 2011 Budget to make the improvements necessary to allow the office to return to the 8th floor of City Hall. The submittal included detailed cost estimates and a proposed floor plan. The total six-year cost was estimated to be \$4.8 million (\$282.40/SF). The request was not funded.

A revised request was submitted for the 2012 Budget which proposed implementing the project over three years with additional funding required in 2013 and 2014. Although the estimated cost of the project remained at \$4.8 million, the Capital Improvements Committee expressed concern that phasing the project over three years may cause unnecessary increases in the overall cost. The Committee recommended in 2012 and 2013 that the project be implemented over no more than two years.

The 2013 and 2014 requests again phased the project over three years. The total six-year request was \$5.5 million, a decrease of 5% from the 2012 request. Of the estimated project cost, approximately \$1.5 million was for the upgrade of the electrical, mechanical and fire suppression systems. These systems will need to be upgraded regardless of which department occupies the 8th floor.

The 2012 Proposed Budget included authority to borrow \$1.6 million in 2012 to begin the renovation. The funding was removed by an amendment prior to the adoption of the budget. In June of 2012, a resolution was introduced by the Council to investigate other uses for the 8th floor of City Hall including using it for banquet facilities. The resolution was placed on file.

The 2013 Budget did not contain funding for the 8th floor; however the project remained in the six-year capital plan. For 2014, the Capital Improvements Committee recommended that only enough funding be included to begin the replacement of the mechanical systems. The 2014 Budget included \$1,758,000 for that purpose.

The 2015 Proposed Budget included \$3,120,000 to complete the construction of the project in one year. The funding was not supported by the Capital Improvements Committee and it was removed by the Council prior to the adoption of the budget. No funding was proposed for 2016.

City Clerk

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$2,442,000		
2016	225,000			225,000	50%	
2015		150,000		150,000	(14%)	
2014	175,000			175,000	49%	
2013		117,500		117,500	194%	11,137
2012	40,000			40,000		27,039
2011						
2010						758,363
2009		350,000		350,000		243,541
2008						13,976
2007		525,000		525,000		12,490
Total	\$440,000	\$1,142,500		\$1,582,500		\$1,237,100

The City Clerk's Office has submitted three capital requests for the 2017 Budget. One request is for an on-going program.

The total six-year request is \$2.9 million and represents a decrease of \$213,000 (5%) from last year's six-year request. The reduction is related to the Channel 25 digital conversion project which was funded in 2014, 2015 and 2016.

The City Clerk has re-submitted the renovation projects for the LRB Research Office (CH Rm 307) and City Hall Room 205. These projects may be incorporated to some extent into the City Hall Foundation project which will require the relocation of a number of City Clerk staff. Discussions with DPW to develop a cost effective long range plan are on-going.

Requested funding for the City Clerk's Office is typically higher than the budgeted amount because the annual request for the Capital Improvement Committee is submitted by the City Clerk but the funding appears in the budget as a Special Capital Project.

Capital funding in 2007 and 2009 was for the License Management System Requirements Study and License Division Remodeling. Funding in 2012 was used to increase the storage area network.

Capital Improvements Committee*

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$89,000	2.3%	
2016	87,000			87,000		
2015	87,000			87,000	2.4%	
2014	85,000			85,000		85,960
2013	85,000			85,000		85,055
2012	85,000			85,000		86,873
2011	85,000			85,000		68,876
2010	85,000			85,000		16,878
2009						
Total	\$599,000			\$599,000		\$343,642

*The capital request for this program is submitted by the City Clerk but the funding appears in the Budget as a "Special Capital Project"

This program was first funded in 2010. It provides for the salary and fringe benefits for a Fiscal Planning Specialist position. This position is in the City Clerk's Office and serves as staff to the Capital Improvements Committee and provides budget analysis for the Finance and Personnel Committee. The requirements of this program are contained in Common Council file 081215 as amended by file 090090. This program is funded with cash, not borrowing. The total six-year request is \$564,000.

Capital Request History – Capital Improvements Committee

Annual Request		Six-Year Request		Priority	
2017	\$89,000	2017	\$564,000	2017	1 of 3
2016	\$87,000	2016	\$552,000	2016	1 of 4
2015	\$85,000	2015	\$552,000	2015	1 of 4
2014	\$85,000	2014	\$540,000	2014	1 of 5
2013	\$85,000	2013	\$540,000	2013	1 of 4
2012	\$85,000	2012	\$540,000	2012	1 of 4
2011	\$85,000	2011	\$530,000	2011	1 of 2

LRB Research Office Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$438,000		
Request						

This request replaces the prior request titled “Room 307 CH Remodeling”. This one year project was first requested for inclusion in the 2011 Budget. (\$435,239) The 2,650 SF space was formerly used by the Division of Budget and Management Analysis. The timing of a personnel shift in 2010 did not allow for the renovation of Room 307 prior to Legislative Reference Bureau staff being assigned there. The room is in need of substantial renovation as well as an HVAC upgrade. Carpeting, ceiling tiles and workstations are in extremely poor condition. The lighting is substandard. The outdated HVAC system makes it difficult to regulate temperature throughout the office. Mold has been found in employee cubicles.

The request was revised for the 2012 Budget (Feb 2011), removing several items (walls, cabinets, painting, plumbing, separate furnishings and security) resulting in over \$42,000 in cost savings. The updated cost estimate from DPW Facilities for the 2015 Budget (March 2014) is \$438,000. The cost estimate includes the HVAC & electrical system. A detailed cost estimate was included with the 2015 request.

The Capital Improvements Committee has not recommended funding for this project. The project was included in the 2015 Proposed Budget (\$438,000) however, the funding was removed by the Council prior to the adoption of the budget.

Because of the City Clerk staff relocations that are necessary as part of the City Hall Foundation project, this project may be incorporated to some extent into a larger space allocation plan. The City Clerk is working with DPW to develop a comprehensive long range plan.

Capital Request History – LRB Research Office Upgrade

Annual Request		Six-Year Request		Priority	
2017	\$438,000	2017	\$438,000	2017	2 of 3
2016	\$438,000	2016	\$438,000	2016	3 of 4
2015	\$438,000	2015	\$438,000	2015	2 of 4
2014	\$427,000	2014	\$427,000	2014	1 of 4 (2 of 5)
2013	\$411,000	2013	\$411,000	2013	4 of 4
2012	\$394,000	2012	\$394,000	2012	4 of 4
2011	\$435,299	2011	\$435,299	2011	2 of 2

City Hall Room 205 Renovation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$1,915,000		
Request						

This one year project to update the electrical and HVAC systems in Room 205 of City Hall was first requested in 2014. This project would also reconfigure office space, provide more adequate conference room space, and enhance security for reception personnel. Approximately 45 people have offices in Room 205.

The electrical and HVAC systems in Room 205 have not been updated in nearly 40 years and are not in compliance with current building and fire codes. Equipment malfunctions and power outages have resulted. Combining the upgrade of the electrical and HVAC systems with the reconfiguration of the office space will ensure the most efficient design of the new system and minimize disruption to staff and office activities. A detailed cost estimate was included with the 2015 request.

The CIC has not recommended funding for this project. The project was not funded in 2015 or 2016.

Because of the City Clerk staff relocations that are necessary as part of the City Hall Foundation project, this project may be incorporated to some extent into a larger space allocation plan. The City Clerk is working with DPW to develop a comprehensive long range plan.

Capital Request History – City Hall Room 205 Renovation

Annual Request		Six-Year Request		Priority	
2017	\$1,915,000	2017	\$1,915,000	2017	3 of 3
2016	\$1,915,000	2016	\$1,915,000	2016	4 of 4
2015	\$1,915,000	2015	\$1,915,000	2015	4 of 4
2014	\$1,944,896	2014	\$1,944,896	2014	5 of 5

Project Updates and Past Requests

Channel 25 Digital Conversion

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016	225,000			225,000	50%	
2015		150,000		150,000	(14%)	
2014	175,000			175,000		107,759
Total	\$400,000	\$150,000		\$550,000		\$107,759

The City Clerk's Office submitted a request in 2012 for a 3 year project to convert the Channel 25 signal from analog to digital (not high definition). The broadcasting and cable industry's conversion to digital format made analog equipment more difficult to acquire and maintain. If critical components could not be replaced or repaired, the City would have been unable to televise its meetings. The conversion ensured continued service and resulted in better video image quality for the City Channel.

The project was originally designed in two phases; Phase I to convert the Master Control area in the 809 Building and Phase II to convert Room 301 in City Hall. The 2014 request added the studio facilities in the 809 Building, increasing the total cost of the project by \$260,000.

The project was funded over three years (2014-2046). The Master Control System was converted and went on line in June 2015. Conversion of the City Hall Control Room began in August 2015 and was largely complete by November. Planning for the conversion and upgrade of studio and remote equipment began near the end of 2015. Phase 1 and Phase 2 were both completed within budget.

Background

Channel 25 was established in 1985. It was funded by a \$500,000 grant from WAVE Cable (now Time Warner), the original cable franchisee. The franchise agreement was renewed in 2000. The City Hall Room 301 meeting rooms were upgraded in 1995. In 2007, the City received \$44,000 from AT&T for a temporary franchise agreement. The City used the funds to purchase the current cameras and fiber-optic cabling on the third floor of City Hall.

From 1985 to 2003 equipment costs in the department's operating budget averaged between \$40,000 and \$50,000 per year. From 2004 to the present, equipment has been budgeted at \$25,000 per year.

In 2007, the state made changes to franchising regulations. As a result, franchise fees are capped at 5%. The City currently collects of over \$3 million of franchise revenue which is added to the City's general fund. The annual operating cost of the City Channel is about \$350,000.

The Capital Improvements Committee recommended funding for the project in both 2013 and 2014. The project is expected to have a useful life of approximately 10 years.

Public Face of LIRA

In 2006 and 2007 the City funded the development and implementation of the License Information Reporting and Administration (LIRA) system. The project provided automation of certain labor intensive processes such as payment of license files and submission of police reports. The LIRA also provides electronic communication and information access to City departments which were never possible in the past.

In 2013, the City Clerk received funding to develop an external face for the LIRA which would allow public access to licensing information, on-line application and tracking and other functionalities. An evaluation of the system found that providing the desired functionalities would be prohibitively expensive.

It was determined that a more efficient and cost effective solution would be to incorporate the LIRA functions into the new Land Management System (LMS) that is being developed by DOA-ITMD. The 2015 Budget included funds to migrate the City Clerk's licensing information to the LMS. The remainder of funds in this capital account (\$106,000) may be available for that purpose.

License Information Reporting and Administration (LIRA) System

The LIRA system, which received funding in 2006 and 2007 (\$700,000), will be phased out beginning in 2015. Licensing functions will be migrated to the Land Management System. The 2015 Budget provided \$850,000 for the migration project. The City Clerk received \$117,500 in the 2013 Budget to build a public face for LIRA. The project was more expensive than anticipated and the complexity of the interface that would be required with the LMS made it more cost effective to merge the two systems. Funds remaining from the Public Face project may be used for the migration project.

SAN Storage

In 2012 the City Clerk received \$40,000 to purchase five terabytes of storage space to be used for the LIRA licensing system and the MediaMatch video integration software. DOA-ITMD requested that the City Clerk's office purchase its own storage. The project was completed in 2012. Actual expenditures were \$27,000. It is expected that this project will provide adequate storage for 10 years.

Security Camera Replacement

The City Clerk requested \$14,000 of funding for the 2014 Budget for a one year project to replace existing security cameras and install additional cameras in the License Division. This project was not funded in the 2014 Budget because the City Clerk was able to install the cameras using carryover operating funds in the summer of 2013.

Department of City Development

Year	Tax Levy	Gen Oblig.	TID	Revenue	Total	% Δ
2017 Request		4,650,000	40,000,000	4,050,000	\$48,700,000	(27)%
2016	200,000	3,700,000	53,900,000	4,030,000	61,830,000	135%
2015	200,000	5,400,000	16,500,000	4,250,000	26,350,000	12%
2014	350,000	3,650,000	16,000,000	3,500,000	23,500,000	33%
2013	200,000	2,700,000	11,000,000	3,685,000	17,585,000	(40%)
2012	275,000	2,650,000	22,000,000	4,251,000	29,176,000	(5%)
2011	450,000	3,960,257	22,000,000	4,251,000	30,661,257	(22%)
2010	175,000	11,754,220	23,222,323	4,251,000	39,402,543	(10%)
2009	500,000	2,686,000	36,268,614	4,390,000	43,844,614	(39%)
2008	200,000	6,878,500	60,451,000	4,200,000	71,729,500	
2007						
Total	\$2,550,000	\$43,378,977	\$261,341,937	\$36,808,000	\$344,078,914	

The Department of City Development (DCD) has submitted nine capital requests for the 2017 Budget. All requests are for on-going programs.

The total six-year request is \$293.2 million and represents an increase of \$80.35 million (38%) from last year's six-year request. The largest increase is related to the request for Tax Incremental Districts (TIDs).

The STRONG Homes Loan program received \$1.5 million in funding in the 2016 Budget. Previously the program had been funded through the *in rem* property capital account. The department submitted a request for \$1 million annually through 2022. The six-year request for *in rem* Property decreased by \$6 million.

The Rental Housing Rehab Program which received \$1,000,000 of funding in the 2015 Budget did not receive funding in 2016. The department did not submit a request for the program for 2016 or 2017

The 2016 Budget created two new capital accounts; Art & Resource Buildings (\$100,000) and Vacant Lot Loan Program (\$150,000). The department did not submit capital requests for either of these programs.

No request was submitted for the Neighborhood Commercial District Street Improvement Fund (NCDSIF) or the Healthy Neighborhoods Initiative.

Capital Request Summary (in thousands)							
Project/Program	2017	2018	2019	2020	2021	2022	6 Yr. Total
Neighborhood Commercial District Street Improvement Fund							
Business Improvement Districts	300	300	300	300	300	300	\$1,800
Tax Incremental Districts	43,500	43,500	43,500	43,500	43,500	43,500	\$261,000
Advance Planning Fund	150	150	150	150	150	150	\$900
Healthy Neighborhoods Initiative							
Housing Infrastructure Preservation	450	450	450	450	450	450	\$2,700
In Rem Property	1,550	1,000	1,500	1,500	1,500	2,000	\$9,050
Commercial In Rem Property	250	500	500	500	500	500	\$2,750
STRONG Homes Loan Program	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Commercial Investment (Façade)	1,000	1,000	1,000	1,000	1,000	1,000	6,000
Brownfield Program	500	500	500	500	500	500	\$3,000
Total	\$48,700	\$48,400	\$48,900	\$48,900	\$48,900	\$49,400	\$293,200

Business Improvement District

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$300,00		
Request						
2016				0		
2015		250,000		250,000		
2014		250,000		250,000		0
2013		250,000		250,000		0
2012		250,000		250,000		22,864
2011		250,000		250,000	(80%)	192,622
2010		1,236,250		1,236,250		93,646
2009						203,226
2008		500,000		500,000		363,244
2007		500,000		500,000		4,812
Total		\$3,486,250		\$3,486,250		\$880,414

This program is used to fund loans to BIDs for streetscaping and other infrastructure projects. The funds are normally matched with other funding sources. Loans from this fund are repaid through annual BID assessments. Demand for this program has been affected by the downturn in the economy. As of April 2015, there were 31 BIDs listed on the DCD website.

From 2000 through 2008, this program received \$500,000 of funding annually. No funding was budgeted in 2009 because the department anticipated that there was enough carryover authority to meet the needs of the program. No funding was requested for 2016.

No potential projects were listed in the request.

Carryover

This program had \$750,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$1.7 million.

\$1,006,617 of borrowing authority lapsed at the end of 2013.

Capital Request History – Business Improvement District (BID)

Annual Request		Six-Year Request	
2017	\$300,000	2017	\$1,800,000
2016	\$0	2016	\$1,250,000
2015	\$250,000	2015	\$1,500,000
2014	\$250,000	2014	\$1,500,000
2013	\$250,000	2013	\$1,500,000
2012	\$250,000	2012	\$1,500,000
2011	\$500,000	2011	\$3,000,000

Neighborhood Commercial District Street Improvement Fund

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$0		
Request						
2016				0	(100%)	
2015		200,000		200,000	(50%)	
2014		300,000		300,000	(33%)	0
2013		600,000		600,000	20%	45,322
2012		500,000		500,000	100%	20,588
2011		250,000		250,000	(50%)	168,991
2010		500,000		500,000	48%	300,468
2009		337,000		337,000	(66%)	778,555
2008		1,000,000		1,000,000	100%	635,792
2007		500,000		500,000		273,288
Total		\$4,187,000		\$4,187,000		\$2,223,004

This program assists neighborhood commercial streetscaping efforts by providing matching dollars for funds from other internal and external sources. Other funding sources may include the City of Milwaukee BID Fund, Congestion Mitigation and Air Quality Improvement Program (CMAQ) grants, state grants and private loans. City funding for this program from 2000 through 2007 has been \$500,000 per year.

Carryover

This program had \$1.1 million of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$1.6 million.

\$508,000 of borrowing authority lapsed at the end of 2013 and an additional \$239,000 lapsed at the end of 2014

The economic downturn has had an adverse impact on local business activity, with actual expenditures from this account declining from \$779,000 in 2009 to \$21,000 in 2012. Expenditures rose to \$45,300 in 2013.

The department did not submit a request for this program

Capital Request History – Neighborhood Commercial District Street Improvement Fund

Annual Request

2017	No Request
2016	\$0
2015	\$600,000
2014	\$600,000
2013	\$800,000
2012	\$500,000
2011	\$500,000

Six-Year Request

2017	No Request
2016	\$3,000,000
2015	\$3,000,000
2014	\$3,600,000
2013	\$3,800,000
2012	\$1,750,000
2011	\$3,000,000

Tax Incremental Districts

Year	New Borrowing	Developer Revenue	Capitalized Interest	Total	% Δ	Actual
2017 Request	\$40,000,000	\$3,500,000	4,000,000	\$47,500,000	(17%)	
2016	49,000,000	3,000,000	4,900,000	56,900,000	3%	
2015	15,000,000	3,500,000	1,500,000	20,000,000	3%	
2014	15,000,000	3,500,000	1,000,000	19,500,000	33%	16,782,374
2013	10,000,000	3,685,000	1,000,000	14,685,000	(44%)	17,419,069
2012	20,000,000	4,251,000	2,000,000	26,251,000	0%	43,471,760
2011	20,000,000	4,251,000	2,000,000	26,251,000	(4%)	21,339,375
2010	22,222,323	4,251,000	1,000,000	27,473,323	(32%)	21,370,902
2009	33,268,614	4,390,000	3,000,000	40,658,614	(37%)	13,967,288
2008	55,051,000	4,200,000	5,400,000	64,651,000	(13%)	25,125,610
2007	63,392,000	4,200,000	6,888,000	74,480,000		36,807,399
Total	\$302,933,937	\$39,228,000	\$28,688,000	\$370,849,937		\$196,283,777

Since 2000, nearly \$495 million has been budgeted for tax incremental districts. Funding has been highly variable ranging from a low of \$8.0 million to a high of \$74.5 million. Actual expenditures through the end of 2014 have totaled \$311 million.

The 2017 capital request is for \$44 million in borrowing with an additional \$3.5 million in revenue for a total of \$47.5 million. Annual requested borrowing, excluding borrowing for capitalized interest, is \$40 million through 2022. The annual revenue is \$3.5 million. The total six-year request, including revenue, has increased by \$80 million (44%) compared to last year's six-year request.

In early 2012, the Attorney General of the State of Wisconsin issued an opinion on the use of TID funding for street paving work outside TID boundaries. Proposed guidelines will limit this type of funding to street segments which contribute to the redevelopment work funded by the TID Project Plan.

Carryover

This program had \$49.3 million of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$103.7 million.

A total of \$27.4 million of borrowing authority has lapsed since December 2013.

Funding will be limited to an amount not to exceed the final year's incremental revenue from the district. Approximately \$4 million of TID revenue has been provided for paving projects.

On September 24th, 2013 the Common Council passed file 130460, an ordinance relating to extending the lives of tax incremental districts to benefit affordable housing in the city and to improve the city's housing stock. The ordinance allows a TID that has paid off all of its projects costs

Recently Created Tax Incremental Districts

File	TID#	Location
140200	#80	Posner Building
141267	#81	South 1 st Street & West Greenfield
141263	#82	East Michigan Street
150184	#83	Broadway and East Michigan
150383	#84	West McKinley & West Juneau
150654	#85	South 6 th Street & West National

including those related to street paving costs can be extended for one year if certain conditions are met. Anticipated funding from the extensions for affordable housing for 2017 is \$550,000.

The request includes funding for 3 positions (1.5 FTEs); 1 Development and Environmental Manager and 2 Sr. Economic Development Specialists. The number of positions supported by this request has increased by one (1.1 FTEs) from the 2016 request. The requested staffing level is comparable to the staffing in the 2015 request.

Annual Reports

Tax Incremental District reports can be found in the following Common Council files.

2011 - 120267
 2012 - 130269
 2013 - 140302
 2014 - 150246

Capital Request History – Tax Incremental Districts

Annual Request

	Borrowing	Revenue	Total
2017	40,000,000	\$3,500,000	\$43,500,000
2016	\$25,000,000	\$3,000,000	\$28,000,000
2015	\$15,000,000	\$3,000,000	\$18,500,000
2014	\$15,000,000	\$4,500,000	\$19,500,000
2013	\$38,500,000	\$3,680,000	\$42,185,000
2012	\$22,000,000	\$3,775,000	\$25,775,000
2011	\$48,751,000	\$0	\$48,751,000

Six-Year Request History

	Borrowing	Revenue	Total
2017	\$240,000,000	\$21,000,000	\$261,111,111
2016	\$150,000,000	\$31,000,000	\$181,000,000
2015	\$90,000,000	\$22,500,000	\$112,500,000
2014	\$105,000,000	\$27,000,000	\$132,000,000
2013	\$231,000,000	\$22,110,000	\$253,110,000
2012	\$132,000,000	\$22,650,000	\$154,650,000
2011	\$235,701,000	\$0	\$235,701,000

Advance Planning

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$150,000		
2016	150,000			150,000	50%	
2015	100,000			100,000	(33%)	
2014	150,000			150,000		139,267
2013	150,000			150,000	(14%)	136,427
2012	175,000			175,000	17%	75,067
2011	150,000			150,000	(14%)	141,873
2010	175,000			175,000	40%	76,576
2009	125,000			125,000	(38%)	202,291
2008	200,000			200,000	14%	246,856
2007	175,000			175,000		91,535
Total	\$1,550,000			\$1,550,000		\$1,109,892

This program provides funding for various DCD studies, including market analyses for local business corridors, feasibility studies for new developments, land use planning studies, comprehensive plan updates and redevelopment plans for specific neighborhoods. No activity plan for was submitted with the 2017 request.

Recent activities have included work on the Harbor District Initiative, the Lakefront Gateway, and an updated market analysis and design charrette for the Near West Side.

This program has supported 4 graduate intern positions (2 FTE) since 2013.

Carryover

This program is funded with cash so there is no carryover borrowing authority

Capital Request History - Advance Planning

Annual Request		Six-Year Request	
2017	\$150,000	2017	\$900,000
2016	\$150,000	2016	\$900,000
2015	\$150,000	2015	\$900,000
2014	\$150,000	2014	\$900,000
2013	\$175,000	2013	\$1,050,000
2012	\$175,000	2012	\$1,050,000
2011	\$175,000	2011	\$1,050,000

Healthy Neighborhoods Initiative

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$0		
2016	100,000			0		
2015	100,000			100,000		
2014				0	(100%)	105,960
2013	50,000	100,000		150,000	(25%)	146,583
2012	100,000	100,000		200,000	0%	140,126
2011		200,000		200,000	0%	121,803
2010		200,000		200,000	0%	58,739
2009		200,000		200,000	0%	200,000
2008		200,000		200,000		200,000
Total	\$250,000	\$1,000,000		\$1,250,000		\$867,251

This program provides matching funds for privately raised funds used to make small scale improvements in designated Healthy Neighborhoods. The purpose of the Healthy Neighborhoods Initiative is to encourage homeowner investment and aesthetic improvements in strong urban neighborhoods. The goal is to achieve positive outcomes in four areas: image, market, physical condition and neighborhood management. This initiative was first funded in 2008.

The department did not submit a request for this program.

The Greater Milwaukee Foundation also provides funds to support the Healthy Neighborhoods Initiative.

During 2014, applications for new healthy neighborhoods were solicited. After review, 16 neighborhoods were chosen. Most of the nine neighborhoods that had previously been designated as part of this program retained their designation. Only Enderis Park, Johnson's Park, and Martin Drive are no longer designated neighborhoods.

Annual Reports

2012 - 121320
 2013 - 131250
 2014 - 141439
 2015 - 151450

Capital Request History – Healthy Neighborhoods Initiative

Annual Request		Six-Year Request	
2017	No Request	2017	No Request
2016	\$150,000	2016	\$750,000
2015	\$150,000	2015	\$900,000
2014	\$150,000	2014	\$900,000
2013	\$200,000	2013	\$1,200,000
2012	\$200,000	2012	\$1,200,000
2011	\$200,000	2011	\$1,200,000

Housing Infrastructure Preservation Fund

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$450,000	0%	
2016		450,000		450,000	0%	
2015		450,000		450,000	0%	
2014		450,000		450,000	(25%)	671,580
2013		600,000		600,000	(25%)	480,705
2012		800,000		800,000	168%	404,631
2011		300,000		300,000	(50%)	835,599
2010		600,000		600,000		2,735
2009						
Total		\$3,650,000		\$3,650,000		\$2,395,250

This fund was established by the Common Council in 2010 to provide funds for restoring, rehabilitating or mothballing City owned residential properties that have been deemed historic or too valuable to the character of the surrounding neighborhood to demolish, but are unlikely to be restored by purchasers. In July 2014, CC file 140397 added “mixed use” to the types of buildings that would be eligible for this funding.

Carryover

This program had no borrowing authority carried over into 2016.

Average carryover for this program since 2011 is \$382,000.

On November 1, 2013, the Common Council passed file 130736, an ordinance relating to expenditures from the Housing Infrastructure Preservation (HIP) Fund. The ordinance provides that total expenditures from the HIP Fund for a single property shall not exceed \$100,000 unless approved by the Special Joint Committee on the Redevelopment of Abandoned and Foreclosed Homes and by the Common Council.

Houses authorized to receive more than \$100,000 in HIP Funds

Address	CC File
2425 W. McKinley Blvd	140219
964-66 N. 35 th Street	140872
2402 N. Sherman Blvd	150250

As of February 2016, this account has been used to fund improvements on 37 homes. Twenty homes have been sold and an additional 15 were being marketed.

Capital Request History – Housing Infrastructure Preservation Fund

Annual Request		Six-Year Request	
2017	\$450,000	2017	\$2,700,000
2016	\$450,000	2016	\$2,700,000
2015	\$450,000	2015	\$2,700,000
2014	\$400,000	2014	\$2,400,000
2013	\$800,000	2013	\$2,800,000
2012	\$300,000	2012	\$1,800,000
2011	\$600,000	2011	\$3,600,000

In rem Property

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$1,000,000	(25%)	
2016		1,000,000	330,000	1,330,000	(59%)	
2015		2,500,000	750,000	3,250,000	71%	
2014		1,900,000		1,900,000	1,167%	495,226
2013		150,000		150,000		128,820
2012						94,155
2011		200,000		200,000		36,228
Total		\$5,750,000	\$1,080,000	\$6,830,000		\$754,429

This program was created on 2011 to fund minor capital repairs (e.g., new roofs, water heaters, etc.) to properties obtained by the City through foreclosure, with the goal of making these properties more marketable for prompt sales. The department found that most of the costs associated with maintaining and marketing *in rem* properties do not fall under capital expenditure guidelines and, therefore, could not be funded with this account. The level of expenditure in 2011 was relatively low, allowing work to be done in 2012 using carryover authority.

As part of the Strong Neighborhood Plan, the focus of the *in rem* program was changed in 2014. The Department anticipates that the *In Rem* Property Program will have three primary activities; support for the City's lease to own program, homebuyer assistance loans and rental rehabilitation loans. The Strong Homes Loans Program which had been funded through this account received \$1.5 million of funding in a separate capital account in 2016.

Carryover
This program had no borrowing authority carried over into 2016.

In March 2012, Common Council File 111511 directed DCD to create a plan for the conveyance of City-owned housing units to qualified existing tenants. The department has developed guidelines (see Common Council File 120165) for the proposed Rent to Own Plan.

Council Files related to the activities of the Special Joint Committee on the Redevelopment of Abandoned and Foreclosed Homes

- 2010 - 091230
- 2011 - 110809
- 2012 - 111347
- 2013 - 121405
- 2014 - 131272
- 2015 - 141695

In December, 2014, the Council approved one year extensions to TIDs 30 and 40 to provide support for affordable housing. The revenue provided in the 2015 and 2016 Budgets is the increment from a tax incremental district. It is anticipated that the 2017 Budget will include TID sourced revenues. The current estimate for such revenues is \$550,000.

The City owns over 1,200 improved residential properties. The department sold 530 improved properties in 2015.

In 2017 the *in rem* Property program will fund 4 positions.

Title	Pos.	FTE	Amount
Commercial & Residential Rehab Manager	1	0.25	\$26,642
Redevelopment & Special Project Manager	1	0.25	\$40,623
Real Estate Analyst	1	0.50	\$42,269
Real Estate Specialist	<u>1</u>	<u>0.80</u>	<u>\$88,649</u>
Total	4	1.80	\$198,183

Capital Request History - *In Rem* Property

Annual Request		Six-Year Request	
2017	\$1,000,000	2017	\$8,500,000
2016	\$2,000,000	2016	\$14,500,000
2015	\$2,000,000	2015	\$9,500,000
2014	\$300,000	2014	\$1,500,000
2013	\$150,000	2013	\$900,000
2012	\$200,000	2012	\$1,200,000
2011		2011	

STRONG HOMES Loan Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request		1,000,000	550,000	\$1,550,000		
2016		1,000,000	500,000	1,500,000		
2015						
Total		\$1,000,000	\$500,000	\$1,500,000		

This program, which is part of the Strong Neighborhoods Program, provides assistance to qualified owner-occupants of 1-4 family properties throughout the City on a first-come, first-served basis to promote the retention of homeownership. Strong Loans will help fill gaps which aren't being addressed because of the imitations of existing programs, such as income restrictions, rehabilitation requirements, and geographic. Maximum loan amount is \$20,000.

Funding for this program has been provided in the *in rem* Property account. In 2016, funding was provided in a separate capital account.

Strong Neighborhoods Program 2016 Capital Funding Summary		
Dept	Account	Amount
DNS	Code Compliance Loans	\$500,000
DNS	Concentrated blight Elimination	\$2,200,000
DCD	In rem Property	\$1,330,000
DCD	STRONG Homes Loans	\$1,500,000
DCD	Housing Infrastructure Preservation	\$450,000
DCD	Commercial in rem	<u>\$250,000</u>
		\$6,230,000

Capital Request History – Strong Homes Loan Program

Annual Request		Six-Year Request	
2017	\$,1000,000	2017	\$6,000,000
2016	No request	2016	No Request
2015		2015	

Commercial *in rem* Property Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$250,000	0%	
2016		250,000		250,000	(50%)	
2015		500,000		500,000		
Total		\$750,000		\$750,000		

This program, which is part of the Strong Neighborhood Plan, was first requested by the department for 2015 to fund marketing efforts for City owned commercial properties. As of the request date, the City owned approximately 150 foreclosed, improved commercial properties. Of that number, over 120 (82%) have been acquired since 2010.

Carryover
This was a new project in the 2015 Budget. \$500,000 of borrowing authority was carried over into 2016.

The number of properties has not changed substantially since the last request.

Capital Request History – Commercial *In Rem* Property

Annual Request		Six-Year Request	
2017	\$250,000	2017	\$2,750,000
2016	\$250,000	2016	\$2,750,000
2015	\$500,000	2015	\$3,000,000

Commercial Investment Program (Façade Program)

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$500,000		
Request						
2016		500,000		500,000		
2015				0		
2014		250,000		250,000	(50%)	404,819
2013		500,000		500,000	0%	161,134
2012		500,000		500,000		0
2011						
Total		\$1,750,000		\$1,750,000		\$565,953

This ongoing program, which was formerly called the Façade Program, was created by the 2012 Budget. In addition to assisting with façade improvements, this capital account funds the Retail Investment Fund (RIF) and the Citywide White Box Program. Prior to 2012, funding for these programs came from the Development Fund capital account.

Carryover

This program had \$539,415 of borrowing authority carried over into 2016

Since it was created, this account has had an average of \$787,000 in carryover borrowing authority.

No spending plan was submitted with the 2017 request.

In 2017, this account will fund 1 position of Commercial Corridor Manager (0.3 FTE).

Request Summary – 2017

2017	\$1,000,000
2018	\$1,000,000
2019	\$1,000,000
2020	\$1,000,000
2021	\$1,000,000
2022	<u>\$1,000,000</u>
Total	\$6,000,000

Capital Request History – Commercial Investment Program (Façade Program)

Annual Request		Six-Year Request	
2017	\$1,000,000	2017	\$6,000,000
2016	\$500,000	2016	\$3,000,000
2015	\$500,000	2015	\$3,000,000
2014	\$250,000	2014	\$2,250,000
2013	\$500,000	2013	\$3,000,000

Brownfield Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$500,000	0%	
2016		500,000		500,000		
2015		500,000		500,000		
2014		500,000		500,000		1,176,419
2013		500,000		500,000		429,756
2012		500,000		500,000		350,017
2011						
Total		\$2,500,000		\$2,500,000		1,956,192

This ongoing program was created by the 2012 Budget to provide matching funds for grants. Prior to 2012, funding for brownfield projects came from the Development Fund capital account.

Milwaukee has been selected as one of 16 EPA Brownfields Showcase Communities.

Carryover

This program had \$351,491 of borrowing authority carried over into 2016

Since it was created, this account has had an average of \$452,000 in carryover borrowing authority.

Capital Request History - Brownfield Program

Annual Request		Six-Year Request		Priority	
2017	\$500,000	2017	\$3,000,000	2017	None listed
2016	\$500,000	2016	\$3,000,000	2016	None listed
2015	\$500,000	2015	\$3,000,000	2015	None listed
2014	\$500,000	2014	\$3,000,000	2014	None listed
2013	\$500,000	2013	\$3,000,000	2013	None - new

Project Updates and Past Requests

Art & Resource Buildings

This capital account received \$50,000 of cash levy funding and \$50,000 of revenue funding in the 2016 Budget. The department did not submit a request for 2017.

Vacant Lot Loan Program

This capital account received \$150,000 of revenue funding in the 2016 Budget. The department did not submit a request for 2017.

Rental Property Rehabilitation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015		1,000,000		1,000,000		
2014						
Total		\$1,000,000		\$1,000,000		

This capital account was included in the 2015 Budget. **No request was submitted for additional funding for 2016 or 2017.**

Vacant Lot Beautification

This program was created by the 2014 Budget. **The 2015 Budget moved the program to DPW-Forestry.** The account will provide funds to install a variety of improvements on vacant lots, including grass, shrubs, trees, raised garden beds and fencing. In addition to beautifying City owned lots, the DCD anticipated providing funds to individuals or organizations that purchase vacant lots from the City's inventory. The department estimated that the average cost per lot would be between \$2,000 and \$2,500.

ADA Riverwalk

This program provided funding to construct the ramps and lifts necessary to bring the Riverwalk into ADA compliance as directed by the terms of the 2006 settlement with the Department of Justice. The total cost for the project was expected to be approximately \$4.9 million. Funding was provided in 2009, 2010 and 2011. No funding has been requested since 2011. The project originally included nine Riverwalk segments. Expenditures through the end of 2014 total \$2,351,697.

Development Fund

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014				0		1,137,814
2013				0		715,403
2012				0		1,173,364
2011	300,000	1,200,000		1,500,000	43%	1,790,613
2010		1,050,000		1,050,000	(42%)	2,138,894
2009	375,000	1,425,000		1,800,000	0%	1,544,567
2008		1,800,000		1,800,000	(18%)	2,013,448
2007		2,200,000		2,200,000		1,851,835
Total	\$675,000	\$7,675,000		\$8,350,000		\$12,365,938

From 2000 through 2011, the Development Fund received an average of \$1.9 million in funding each year. No funds have been budgeted and no capital requests have been submitted since 2011. The façade and brownfield components of this program were spun off into their own separate programs in the 2012 Budget. The department continues to use the Development Fund for projects utilizing the remaining carryover borrowing authorizations. The Development Fund had not carryover borrowing authority at the beginning of 2016. \$250,000 of borrowing authority was transferred to the Development Fund from the BID account (CC File 141361). A small amount of borrowing authority (\$414) lapsed at the end of 2013.

809 Building Remodeling

This one year project to remodel the 2nd floor of the 809 Building was originally requested for 2012 (\$976,000). **No funding was provided.** The request has not been resubmitted. The estimated cost for the project was \$66.39 / SF. Floor plans and detailed cost estimates were included with the request. This space has been identified by DPW as an area of the City Hall Complex whose renovation has been delayed because of funding constraints.

Technology Initiative

Funding was requested (\$300,000) for 2011 for this one year project to add fire protection and occupancy certificates to the e-permit system. The project would also have updated and documented the database architecture. **No funding was provided.** The request has not been resubmitted. This project may be incorporated into the Land Management System. If it is not, the department may resubmit the request in the future.

Fire Department

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$4,752,425	49%	
2016		3,179,000		3,179,000	68%	
2015		1,898,000		1,898,000	(58%)	
2014	170,000	3,587,000	680,000	4,437,000	30%	1,862,461
2013		3,403,000		3,403,000	(1%)	7,294,713
2012		3,424,000		3,424,000	12%)	1,593,259
2011		3,064,000		3,064,000	(24%)	3,354,721
2010		4,056,000		4,056,000	44%	1,162,095
2009		2,807,500		2,807,500	(12%)	2,666,580
2008	86,000	3,122,000		3,208,000	10%	3,915,075
2007	100,000	2,818,000		2,918,000		2,118,070
Total	\$356,000	\$31,358,500	\$680,000	\$32,394,500		\$23,966,974

The Fire Department (MFD) has submitted six capital requests. Three requests are for on-going programs.

The six-year total for all submitted requests is \$23.7 million, a decrease of \$17.3 million from last year's six-year request. The reduction is largely related to the replacement of the Fire Repair shop on 1st and Virginia, which was not included in the 2017 request. In its place, the department submitted a request to make repairs and upgrades to the existing shop.

The six-year request for Fire Facilities Maintenance has decreased by \$731,000 (15%) from the 2016 six-year request.

In addition to the requested upgrades for the 1st & Virginia repair shop, the 2017 request contains two new projects; the installation of a key card access system at the City's fire stations, and funding for the preparation of condition reports.

The department began planning a study in December of 2013 to evaluate resource allocation for the Fire Department. The results of that study may affect the maintenance required at department facilities.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$927,205		
Request						
2016		725,000		725,000	(47%)	
2015		1,374,000		1,374,000	10%	
2014		1,245,000		1,245,000	17%	1,499,952
2013		1,063,000		1,063,000	112%	754,713
2012		500,000		500,000	400%	179,488
2011		100,000		100,000	(91%)	1,049,593
2010		1,125,000		1,125,000	58%	164,843
2009		712,500		712,500		10,602
2008				**		**
2007				**		**
Total		\$6,844,500		\$6,844,500		\$3,659,191

**Prior to 2009, expenditures for the maintenance of engine houses were made from various capital accounts including the Interior Building Maintenance, Mechanical Systems Maintenance, Exterior Building Maintenance and Ventilation System and Window Replacement account. Combining these capital accounts provides more flexibility to the department to complete the most pressing maintenance concerns.

This program funds the repair and maintenance of internal, external and mechanical systems for the Fire Department’s 36 engine houses. The total six-year request is \$731,000 less than last year’s six-year request. The average annual request is \$701,535, approximately \$19,500 per engine house per year.

Request Summary - 2017

2017	\$927,205
2018	\$741,657
2019	\$790,294
2020	\$628,740
2021	\$546,098
2022	<u>\$575,219</u>
Total	\$4,209,213

Carryover

This program had \$1.6 million of borrowing authority carried over into 2016.

Average carryover for this program since 2010 is \$1.2 million.

The average building age is 60 years. The oldest building is 143 years and the newest is 17 years old.

The department began a study in December of 2013 to evaluate resource allocation for the Fire Department. The results of that study may affect the maintenance required at department facilities.

Capital Request History - Fire Facilities Maintenance

Annual Request		Six-Year Request		Priority	
2017	\$927,205	2017	\$4,209,213	2017	1 of 6
2016	\$725,000	2016	\$4,941,000	2016	1 of 6
2015	\$1,374,000	2015	\$5,490,000	2015	2 of 6
2014	\$1,245,000	2014	\$4,570,000	2014	2 of 5
2013	\$1,063,000	2013	\$4,244,000	2013	1 of 3
2012	\$761,250	2012	\$4,799,680	2012	2 of 3
2011	\$761,300	2011	\$4,800,200	2011	2 of 4

Proposed Work	2012	2013	2014	2015	2016	2017	Proposed Locations (for 2017)
Interior Surfaces¹	\$86,000						
Ventilation	\$100,000						
Flooring		\$90,000	\$40,500	\$27,810	\$28,650	\$29,504	
Roofs	\$250,000	\$296,000	\$621,000	\$886,400	\$431,776	\$471,888	
HVAC	\$150,000 ²	\$60,000	\$7,700	\$39,784	\$8,195	\$8,441	
Boilers		\$150,000	\$25,700	\$26,523	\$27,318	\$28,138	
Electrical			\$45,000	\$46,350	\$47,740	\$49,173	
A/C		\$24,000	\$24,700	\$26,225	\$9,004	\$9,274	
Tuckpointing			\$132,000	\$108,768	\$28,008	\$86,544	
Paint		\$105,000	\$77,300	\$10,250	\$10,557	\$10,874	
Overhead Doors	\$25,000	\$38,000	\$7,800	\$32,251	\$8,304	\$51,323	
Windows	\$100,000	\$93,600	\$48,200	\$49,650	\$76,709	\$105,347	
Doors		\$96,000	\$49,400	\$76,385	\$26,225	\$54,024	
Mold		\$40,000	\$123,600			\$0	
Concrete	\$50,000	\$70,000	\$41,200	\$42,745	\$22,017	\$22,674	
Apparatus floor³						\$0	
Water heater³						\$0	
Foundation³						\$0	

¹ Includes flooring, lighting and environmental remediation

² Combined boiler and HVAC

³ Funding for these activities is included in other categories.

Major Capital Equipment

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$2,802,700	88%	
2016		1,504,000		1,504,000	263%	
2015		414,000		414,000	(82%)	
2014		2,232,000		2,232,000	0%	0
2013		2,230,000		2,230,000	(21%)	6,348,437
2012		2,814,000		2,814,000	(1%)	1,378,790
2011		2,854,000		2,854,000	1%	2,010,336
2010		2,821,000		2,821,000	62%	667,799
2009		1,745,000		1,745,000	(26%)	2,230,113
2008		2,362,000		2,362,000	(4%)	3,585,953
2007		2,458,000		2,458,000		917,920
Total		\$21,434,000		\$21,434,000		\$17,139,348

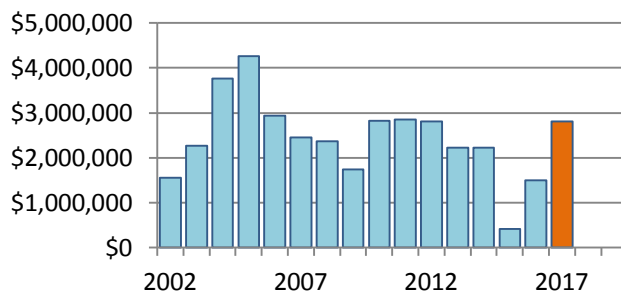
This program provides for the replacement of major fire-fighting equipment and apparatus, including ambulances, fire engines ladder trucks and rescue units.

Stable funding in this account should allow the department to replace equipment each year and create a smooth age distribution throughout the fleet. However, relatively consistent funding doesn't guaranty that vehicles will be received from the manufacturer uniformly over time.

Request Summary - 2017

2017	\$2,802,700
2018	\$3,594,150
2019	\$2,699,424
2020	\$3,459,913
2021	\$2,564,674
2022	<u>\$3,007,009</u>
Total	\$18,127,870

Fire Major Capital - Budgeted Funding



The 2015 Proposed Budget reduced funding for major capital equipment to partially offset the cost of constructing an Annex to the department's repair facility. Funding for the Annex was removed by an amendment prior to the adoption of the 2015 Budget.

The six-year request for major capital equipment is \$18.1 million and represents an increase of \$1.8 million (11%) from last year's six-year request. The six-year capital requests have been declining since 2012. This is partly due to a reduction in the size of the front line fleet for both engines and ladder trucks. The 2017 six-year request is higher because of the inclusion of the rescue vehicles.

Carryover

This program had \$1.5 million of borrowing authority carried over into 2016.

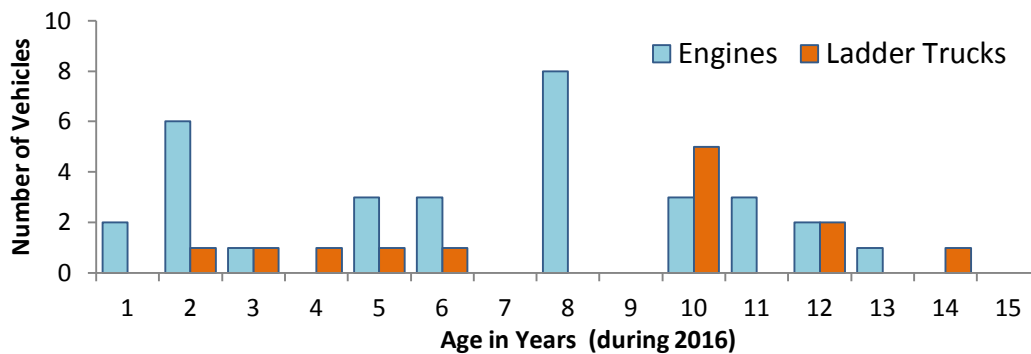
Average carryover for this program since 2007 is \$3.4 million.

Fleet Size			Proposed Purchase Schedule							
	Front-line	Reserve	Total	2017	2018	2019	2020	2021	2022	Total
Engines	33	11	44	2	2	2	3	1	2	12
Ladder Units	11	9	20	0	1	1	1	0	1	4
Platform	2	0	2	1	0	0	0	1	0	2
Med. Units	14	6	20	2	2	2	2	2	2	12
Rescue Units	6	1	7	0	1	0	0	0	0	1
Total	66	27	93	5	6	5	6	4	5	31

The NFPA recommends shifting frontline firefighting apparatus to reserve status at 15 years. To maintain this replacement cycle for the active fleet, the budget should provide enough funding to purchase, on average, 2.2 engines and one ladder unit per year. To maintain a 5 year replacement cycle for med units the budget should provide for 3 med units per year.

The Fire Dept. has proposed an acquisition schedule that includes rescue equipment for specialized teams (H.U.R.T, Dive, HAZMAT) which is nearing the end of its useful life. The request also differentiates between ladder trucks and platform trucks to more accurately forecast costs.

Changes to EPA regulations requiring a reduction in emissions for diesel engines have reduced the purchasing power of the funding provided for this program. Based on quotes received by the department, the new regulations have added approximately 5% to the cost of ladder trucks and 7% to the cost of engines.



Capital Request History – Fire Major Capital Equipment

Annual Request	Six-Year Request	Priority
2017 \$2,802,700	2017 \$18,127,870	2017 2 of 6
2016 \$2,296,000	2016 \$16,280,000	2016 2 of 6
2015 \$3,088,000	2015 \$18,775,000	2015 1 of 6
2014 \$2,970,000	2014 \$19,260,000	2014 3 of 5
2013 \$2,230,000	2013 \$19,615,000	2013 2 of 3
2012 \$2,814,000	2012 \$23,382,496	2012 1 of 3
2011 \$2,854,000	2011 \$20,210,676	2011 1 of 4

Fire Repair Facility Renovations

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$483,120		
Request						

This is a request for a project that would address deferred maintenance at the fire repair facility. The project is expected to reduce energy costs, increase productivity and significantly reduce out of service time for response vehicles. A cost breakdown was included with the capital request.

Improvements at the facility would include :

- the addition of a women’s locker room
- the construction of an additional restroom
- repairs and upgrades to the electrical system
- upgrades to the fire apparatus storage facility
- window replacement
- boiler replacement
- the installation of wider entry doors
- the addition of vehicle service doors

Capital Request History – Fire Repair Facility Renovations

Annual Request		Six-Year Request		Priority	
2017	\$483,120	2017	\$483,120	2017	3 of 6

Access Card Security System

4 of 6

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$440,000		
Request						

This is a **new** request for 2017 for a project that will install a key card access system at the City's fire stations. The current key based system is expensive to maintain. Keys are difficult to track and security lapses are possible.

The new system will be installed by Toeper. A cost breakdown was included with the request.

Capital Request History - Access Card Security System

Annual Request		Six-Year Request		Priority	
2017	\$440,000	2017	\$440,000	2017	4 of 6
2016		2016		2016	

Fire Facility Condition Reports

5 of 6

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$14,400		
Request						

This is a **new** request for request for 2017. The department has begun to use DPW's FCAP system for tracking and reporting its capital maintenance needs. The department has negotiated with DPW to provide inspection and other related services. Funding would be used to reimburse DPW for their services.

Capital Request History - Fire Facility Condition Reports

Annual Request		Six-Year Request		Priority	
2017	\$14,400	2017	\$57,600 (2017-2020)	2017	5 of 6
2016		2016		2016	

Auxiliary Power Supply

6 of 6

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$85,000		
2016						
2015		110,000		110,000		
2014		110,000		110,000		197,185
2013		110,000		110,000		191,563
2012		110,000		110,000		0
2011		110,000		110,000		38,342
2010		110,000		110,000		228,656
2009		100,000		100,000		0
2008		100,000		100,000		(21,074)
2007		100,000		100,000		34,867
Total		\$960,000		\$960,000		\$669,539

This program provides funding for the purchase and installation of backup generators at each of MFD's 36 engine houses. The generators are customized for each location, resulting in costs that may vary significantly by site. The cost of copper and the complexity of the installation are the key drivers of installation costs. Generally, this level of funding will replace one or two generators each year.

This program first received funding in 2007.

All but 5 stations (Engines 1, 6, 26, 27, and 28) have a backup power supply. The department anticipates that no funding will be required after 2021.

Capital Request History – Auxiliary Power Supply

Annual Request		Six-Year Request		Priority	
2017	\$85,000	2017	\$425,000 (2017-2021)	2017	6 of 6
2016	\$110,000	2016	\$440,000 (2016-2019)	2016	6 of 6
2015	\$110,000	2015	\$660,000	2015	3 of 6
2014	\$110,000	2014	\$660,000	2014	4 of 5
2013	\$110,000	2013	\$660,000	2013	3 of 3
2012	\$110,000	2012	\$660,000	2012	3 of 3
2011	\$110,000	2011	\$740,000	2011	4 of 4

Project Updates and Past Requests

Fire Digital Radio System

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		400,000		400,000		
Total		\$400,000		\$400,000		

This is a new project in 2016 to replace the radio consoles used by the Fire Department.

Before the consoles can be replaced, the core switches for the OpenSky system will have to be upgraded. The Police Department has made a capital request (Radio Dispatch Console Upgrades) which includes both the upgrade of the switches and new consoles for the Police Department.

The Fire Department has 18 consoles and the Police Department has 31 consoles. The consoles for each department should all be done at the same time.

This request also includes the purchase of an ISSI gateway which will provide a direct connection between the City's OpenSky system and the County's radio system. The purchase of the gateway will support the Fire Department's Shared Services Initiative. Only one ISSI gateway is required to facilitate communications with the county. The gateway can be used by both the Fire and Police Departments. Maintenance of the gateway is expected to cost \$5,000 annually.

The equipment is expected to have a useful life of seven years. **No additional funding has been requested.**

Capital Request History – Fire Digital Radio System

Annual Request		Six-Year Request		Priority	
2017	No request	2017	No request	2017	No request
2016	\$862,000	2016	\$862,000	2016	3 of 6

Fire Record Management System

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		550,000		550,000		
Total		\$550,000		\$550,000		

This is a new project for 2016 to replace the Fire Department's Fire Record Management System. The Fire Department is required by the state and federal government to provide reporting that is in compliance with National Fire Incident Reporting System (NIFRS) standards. The department's current system is 11 years old and is becoming increasingly unreliable.

The department intends to purchase a software package that will not require significant customization. The software will however, need to be configured with MFD specific information such as incident call

types, pre-fire plan information and staffing information. Configuration costs have been factored into the cost estimate.

The system is expected to have a useful life of about seven years. **No additional funding has been requested.**

Capital Request History – Fire Record Management System

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$550,000	2016	\$550,000	2016	4 of 6

Regional Video Conferencing

This was a one year project to install video conferencing equipment in all 36 engine houses, the Fire Academy and the Fire Chief’s conference room. Tax levy funding of \$170,000 was provided in 2014 to match grant funding of \$680,000. **The project was completed in September, 2014.**

The grant was jointly applied for by several area departments including Cudahy, Franklin, Greendale, Greenfield, Hales Corners, Milwaukee County, North Shore, Saint Francis, South Milwaukee, Wauwatosa and West Allis. All of the grant funding and approximately \$166,000 of the City funding have been expended. The eleven departments that applied for the grant have all remained in the project. In addition, three departments that had originally declined to participate decided to join the system.

The system has been used for county-wide paramedic training, and MFD department-wide EMT training. The system has been used for various administrative conferences, and has been offered to other city departments for use. The Library is the only City department that has received training on its use.

Fire Remodeling – 3rd Floor Headquarters

This was a new request for 2015 for a one year project to remodel the Fire Dept. Administration offices. A cost estimate and a proposed floor plan were submitted with the 2015 capital request. No funding was provided in 2015. **No request was submitted for 2016 or 2017.**

Fire Shop Annex Design and Construction

The Fire Department submitted an alternate request for the 2015 Budget to construct an Annex to the existing repair shop instead of constructing a new stand alone facility. The total cost of the Annex was estimated to be \$10.7 million. Detailed cost estimates were included with the 2015 request.

The 2015 Proposed Budget included \$2.9 million of funding to begin construction of the Annex. The Capital Improvements Committee had concerns regarding the redevelopment potential of the existing Virginia Street location and did not recommend funding for the Annex. Funding was removed by the Council prior to the adoption of the 2015 Budget. **The request was not resubmitted for 2016 or 2017.**

Fire Repair Shop – Existing Facility Upgrade

This project would provide for upgrades at the existing repair shop if the shop was going to remain in use long term. If a new facility is constructed, these upgrades will no longer be necessary. The estimated cost of the upgrades is \$5.65 million. No funding was requested for 2016. A similar request was submitted for 2017 (see **Fire Repair Facility Renovations**)

Fire Repair Shop – Land Acquisition, Design & Construction

The MFD believes that the construction of a new repair facility for firefighting apparatus could result in significant savings, primarily through operational efficiencies and a reduction in the need to utilize outside vendors to facilitate repairs. The department submitted a request for the 2011 Budget of \$5,945,000 to construct a new repair facility adjacent to the existing facility on S. 1st Street and W. Virginia Street. That request was not funded. It was not re-submitted for 2012.

While the garage proposed in 2011 at the Virginia Street site provided an improved repair space, it did not address all the functional deficiencies at the existing repair facility. The department developed a comprehensive plan for a new stand alone facility that would maximize efficiencies for vehicle repair, department shops, apparatus storage and energy use. The Fire Department worked with other City departments to identify appropriate parcels of land on which the facility could be located. MFD submitted a request for the 2014 Budget for the facility. It was requested as a 3 year project with funding needed in 2014, 2015, and 2016. The total project cost as requested in 2014 was \$14.5 million. No funding was provided in the 2014 Budget

For the 2015 Budget, the department resubmitted the request for a stand alone repair facility and also submitted alternate requests to construct an Annex to the existing facility and to make the repairs and upgrades at the repair shop that will be necessary if the facility is to remain in use. Both alternatives had funding requested over three years. The six-year requests for the Annex and the Shop Repairs were \$10.7 million and \$5.65 million respectively.

The 2015 Proposed Budget included \$2.9 million to begin construction of the Annex. The funding proposed for the Annex was offset by a reduction in funding for capital equipment. The decommissioning of three engines made the offset possible without a significant adverse effect on the age of the Fire Department's fleet.

The Capital Improvements Committee had concerns regarding the redevelopment potential of the existing Virginia Street property. The Committee did not recommend funding for the Annex or for a stand-alone repair facility. Funding for the Annex was removed by the Council by an amendment prior to the adoption of the 2015 Budget.

Capital Request History – Fire Repair Shop

Annual Request	Six-Year Request	Priority
2017	2017	2017 No Request
2016 \$18,000,000	2016 \$18,000,000	2016 5 of 6
2015 \$4,300,000	2015 \$15,100,000 (2015, 2016, 2017)	2015 4 of 6
2014 \$4,100,000	2014 \$14,500,000 (2014, 2015, 2016)	2014 5 of 5
2013	2013	2013 No Request
2012	2012	2012 No Request
2011 \$5,975,000	2011 \$5,975,000	2011

Apparatus Floor Survey

Twelve fire stations have basement space below the apparatus floor where equipment is stored. The increased size and weight of ladder trucks and engines has raised concerns about the structural integrity of the flooring where the equipment is parked.

Phase I of the study, which included a visual inspection of the 12 stations with basements, has been completed. The study determined that 8 of the stations require further investigation or repair. The amount of distress at these stations was classified as “severe” or “urgent”. One station was rated severe. Temporary shoring has been installed to ensure the safety and stability of the floors.

A consultant was hired to perform Phase II of the study which entailed more rigorous investigations of the floors to determine their structural integrity and the necessity of repairs. A forensic structural engineer took core samples and performed crush testing as well as chemical analysis. Preliminary results indicate that the floor at Engine 6 (Franklin and Brady) which has been shored because of concerns about the floors safety, does not appear to be in danger of imminent collapse. The full chemical study is still underway. The results from the chemical analysis may affect long term capital plans for the department. Cost estimates will be formulated once the extent of the repairs is known. It is anticipated that a capital request will be submitted at that time.

The average age of the 8 stations which require further evaluation is over 90 years. Consideration should be given to the overall condition of the building when determining corrective actions for these facilities.

Although no separate capital request has been submitted to address the apparatus floors, some work is being included in the Fire Facilities Maintenance account. Engine houses 6 and 26 were expected to have work done in 2014.

Sta.	Address			Year Const.	Age	Engine	Ladder	Med	Other
1	784	N	Broadway	1872	144	E1			
2	755	N	James Lovell	1962	54	E2	L2		ICP ¹
3	100	W	Virginia St	1900	116		L1		R3 - Dive
4	9511	W	Appleton Ave	1976	40	E4	L3	M6	Para-med ²
5	1313	W	Reservoir Ave	1969	47			M7	FIU ³
6	1693	N	Franklin Pl	1946	70	E6			
7	3174	S	Chase Ave	1950	66	E7		M15	
8	5585	N	69 St	1958	58	E8			
9	4141	W	Mill Rd	1978	38	E9		M4	
10	5600	W	Oklahoma Ave	1954	62	E10	L17	M18	
11	2526	S	Kinninckinnic Ave	1964	52		L6		
12	2130	W	Oklahoma Ave	1996	20	E12			R1, R4 - HURT ⁴
13	2901	N	30 St	1927	89	E13			
14	6074	S	13 St	1978	38	E14	L8		ARV ⁵
16	10320	W	Fond Du Lac Ave	1990	26	E16			
17	4653	S	13 St	1959	57	E17		M17	
17	3626	N	Holton St	1981	35	E18			
21	2050	N	Palmer St	1894	122	E21		M6	
22	8814	W	Lisbon Ave	1953	63	E22			CAU ⁶
23	1400	N	9 St	1954	62	E23		M20, 21	Tact. EMS
24	4927	W	Fiebrantz Ave	1967	49	E24			R2 - HURT ⁴
25	300	S	84 St	1983	33	E25			HAZMAT 1&2
26	1140	S	26 St	1904	112	E26		M3	
27	2647	N	Bartlett Ave	1904	112		L5		
28	424	N	30 St	1904	112	E28		M14	
29	3541	S	84 St	1985	31	E29			
30	2903	N	Teutonia Ave	1912	104	E30	L12		
31	2400	S	8 St	1912	104	E31			
32	1551	N	30 St	1985	31	E32	L9		
33	4515	W	Burnham	2010	6	E33			HI-VOL
34	6205	W	Burleigh St	1949	67	E34		M13	
35	100	N	64 St	1998	18	E27	L16		
36	4060	N	27 St	1997	19	E36		M5	
37	5335	N	Teutonia Ave	1981	35		L15		
38	8463	N	Granville Rd	1965	51	E38		M19	
39	8025	W	Bradley Rd	1977	39	E39	L7		ARV ⁵

¹ ICP: Incident Command Post – vehicle used for special calls

² Para-Med: Para-Medicine Vehicle used for community outreach

³ FIU: Fire Investigation vehicle

⁴ HURT: Heavy Urban Rescue Team

⁵ ARV; Alternate Response Vehicle – used only for EMS runs

⁶ CAU: Compressed Air Unit – brings air bottle to a fire scene

Health Department

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$497,675	(33%)	
2016	65,000	680,000		745,000	104%	
2015		366,000		366,000	(14%)	
2014		425,000		425,000	(2%)	107,977
2013		435,000		435,000	(3%)	523,709
2012		450,000		450,000	309%	94,830
2011		110,000		110,000	10%	430,626
2010	50,000	50,000		100,000	(88%)	219,590
2009		864,000		864,000	8%	1,451,270
2008		800,000		800,000	68%	408,087
2007	25,000	451,000		476,000		452,239
Total	\$140,000	\$4,631,000		\$4,771,000		\$3,688,328

The Health Department has submitted one capital request for the 2017 Budget.

The total six-year request is \$1.8 million and represents a decrease of \$502,000 (22%) from last year's six-year request.

The 2016 Budget funded 100% of the Health Department's request.

The 2016 Budget also created a new capital account to supplement the department's lead abatement activities. No additional capital funding has been requested for 2017.

In 2013, the Health Department completed a comprehensive evaluation of the capital needs of their facilities. In conjunction with the Dept. of Public Works, the Health Dept. developed a maintenance and replacement schedule. The schedule was developed to ensure that the facilities were maintained in an adequate manner, to better manage capital needs of the City, and to avoid to the largest extent possible expenses related to emergency repairs. The three health centers collectively serve approximately 6,500 clients each month.

The \$50,000 of tax levy funding in 2010 was for the Data Repository project. The \$25,000 of tax levy funding in 2007 was for the Public Health Information Network.

Health Facilities Capital Projects

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$497,675	23%	
Request						
2016	65,000	340,000		405,000	11%	
2015		366,000		366,000	(14%)	
2014		425,000		425,000	(2%)	107,977
2013		435,000		435,000	(3%)	523,709
2012		450,000		450,000	309%	0
2011		110,000		110,000	120%	7,493
2010		50,000		50,000		19,406
2009						
2008						
2007						
Total	\$65,000	\$2,176,000		\$2,241,000		\$658,585

This program provides funding for interior, exterior and mechanical repairs and improvements in the Health Department facilities.

Since 2010 this program has received \$2.2 million in capital funding. Prior to 2010, capital projects were funded with three separate capital programs; Mechanical Systems, Exterior Building and Interior Building. From 2000 through 2009, these three accounts received \$1.6 million, \$2.5 million and \$1.9 million in funding respectively. As of 2013, no further carryover authority remains in those accounts.

Request Summary – 2017

2017	\$497,675
2018	\$215,368
2019	\$278,280
2020	\$141,511
2021	\$482,262
2022	<u>\$198,233</u>
Total	\$1,813,329

The 2016 Budget funded this program as requested. The 2015 Budget funded 44% of the department's request. The department uses DPW's Facilities Condition Assessment (FCAP) report as a basis for its capital requests. In 2013, DPW did an inspection and analysis of the buildings maintained by the Health Department and found them to be in good condition.

Capital Request History – Health Facilities Capital Projects

Annual Request		Six-Year Request		Priority	
2017	\$497,675	2017	\$1,813,329	2017	1 of 1
2016	\$404,868	2016	\$2,315,779	2016	1 of 1
2015	\$833,675	2015	\$2,131,629	2015	1 of 1
2014	\$680,000	2014	\$3,565,000	2014	1 of 1
2013	\$485,000	2013	\$3,465,000	2013	1 of 1
2012	\$450,000	2012	\$3,333,000	2012	1 of 1
2011	\$450,000	2011	\$3,503,000	2011	1 of 1

Much of the recent capital funding has been used to upgrade building automation systems. The 2015 request included \$190,000 for roof repairs at the NWHC garage. The project was not funded in 2015 and has been moved to 2017. The majority of funding in 2012 and 2013 was used for a window replacement project at the South Side Health Center which was completed in October 2013.

2017 Anticipated Projects

Exterior

Asphalt Pavement (SSHC)	\$ 10,000	
Service Doors (NWHS)	<u>\$ 5,200</u>	\$15,200

Mechanical

Elevator Modernization (Keenan)	\$200,000	\$200,000
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Interior

Painting (SSHC)	\$ 26,200	
Painting (Keenan)	\$ 16,000	
Painting (NWHC)	\$ 4,500	
Furnishings (SSHC)	\$ 51,300	
Furnishings (Keenan)	\$ 11,600	
Flooring (NWHC)	\$ 73,200	
Lab Renovations (Keenan)	\$64,000	
ZMB Lab	<u>\$ 25,675</u>	

\$272,475

Total

\$487,675

Project Updates

Lead Paint Prevention and Abatement

The 2016 Budget created a new capital account to supplement the Health Department's on-going lead abatement activities. The funding added one new position which will be responsible for manage a home's abatement process from the initial application to the final clean test. It will also fund remediation work at approximately 50 homes. The department uses funds to replace windows, paying a flat fee per window. The property owner is responsible for the difference between the City's contribution and the contractor's price, as well as any other lead abatement that is required. **No additional capital funds were requested for this program for 2017.**

Data Repository

This project initially received funding in 2010 (\$50,000). The Health Department requested \$50,000 in 2012 to continue the project whose purpose is to consolidate various sources of Health Department data. The consolidation of this data will allow for more timely and consistent data retrieval and reporting. Because of the amount of data and the complexity of the system, the project would be implemented over several years. The Health Department anticipated requesting \$50,000 in each of the next five years. This project did not receive funding in 2012. **No request has been submitted since 2012.**

Expenditures have totaled \$50,000. (\$509, \$31,559 and \$17,932 in 2010, 2011, and 2012 respectively)

The data warehouse has been constructed and select users have access to the data. The repository involves activities that may include the receipt, storage, maintenance, protection and updating of information from a variety of health agencies, law enforcement agencies, educational institutions and other sources. Individual records have been linked so that researchers are able to cross reference the data. The next project is an automatic data upload system. In February 2014, the Common Council authorized the acceptance of an award of \$125,000 from the Greater Milwaukee Foundation.

Library

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$5,780,000		
2016		5,800,000		5,800,000	(34%)	
2015		8,750,000		8,750,000	159%	
2014	90,000	3,293,000		3,383,000	(10%)	5,490,462
2013		3,743,000		3,743,000	45%	1,620,328
2012		2,577,000		2,577,000	2%	1,450,566
2011		2,526,000		2,526,000	(38%)	5,015,122
2010		4,075,000		4,075,000	(3%)	2,579,639
2009		4,144,000	50,000	4,194,000	239%	2,264,288
2008		1,238,000		1,238,000	49%	1,089,006
2007	40,000	790,000		830,000		757,677
Total	\$130,000	\$36,936,000	\$50,000	\$37,116,000		\$20,267,088

The Library has submitted seven capital requests for consideration for the 2017 Budget.

The total six-year request is \$23.1 million and represents a decrease of 4.8 million (17%) from last year's six-year request.

Work continues on the Building Initiative under the title "Branch Library – New Construction". Mill Road, Forest Home, Martin Luther King and Capitol are in the branch replacement program. Forest Home will be replaced with a mixed use facility on Mitchell Street. Construction should begin at the end of 2016 and is expected to be complete by 2017. The Mill Road project is in the planning phase and may be replaced with a mixed use development on Good Hope. Locations are being sought for Martin Luther King. Planning for Capitol has not begun. Each building is expected to cost about \$4.5 million. Construction on all four branch libraries is expected to be complete by 2020.

East Library and the installation of a Vending library at Westlawn were both completed in 2014.

The Library has changed the title of programs from "Neighborhood" to "Branch". There are four separate requests for improvements at branch libraries; New Construction, Mechanical, Interior and Exterior. \$900,000 has been requested for 2017 to replace the HVAC and electrical system at the Center Street library.

Branch Library New Construction

1 of 7

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$1,600,000	(67%)	
Request						
2016		4,800,000		4,800,000	12%	
2015		4,300,000		4,300,000		
Total		\$9,100,000		\$9,100,000		

As part of a new branding strategy, “Neighborhood” libraries will now be called “Branch” libraries.

This capital account was created in 2015. It will be used to fund the construction of four new branch libraries to replace Mill Road, Forest Home, Capital and Martin Luther King. Funding for previous phases of the Library Facilities Initiative were requested and funded in other capital accounts. The capital request does not include any funding for building disposition if the redevelopment of the libraries creates vacant buildings.

Construction of Forest Home and Mill Road is expected to take place in 2016 and 2017. The construction of Capitol and Martin Luther King is expected to be complete in 2020.

The MPL Board has selected architectural firm to design the new Forest Home library which will be located in the Hill Building (930 W. Mitchell Street.) Because the Hill Building is on the National Register, historic tax credits can be used. The library and the apartments can be developed simultaneously.

Request Summary - 2017

2017	\$1,600,000
2018	\$3,600,000
2019	\$3,600,000
2020	\$1,000,000
2021	\$0
2022	\$0
Total	\$9,800,000

The Board is considering a proposal for the redevelopment of Mill Road library on a city owned parcel at 7717 W. Good Hope Rd. The Board is reviewing the results of a developer’s market study and an environmental study to determine the feasibility of affordable and market rate housing on the site.

Funding in this request will provide for a facilities project manager who will oversee the development and construction of all four of the new mixed use libraries. It is anticipated that the position will be needed for about six years.

The East Library, which was funded from the Library Facilities capital account was completed in 2014. Total expenditures were \$3.7 million.

Capital Request History – Branch Library New Construction

Annual Request		Six-Year Request		Priority	
2017	\$1,600,000	2017	\$9,800,000	2017	1 of 7
2016	\$4,800,000	2016	\$13,600,000	2016	1 of 7
2015	\$4,300,000	2015	\$17,800,000	2015	1 of 7
2014	*\$3,000,000	2014	*\$31,260,000	2014	1 of 7
2013	*\$3,668,000	2013	*\$31,928,000	2013	1 of 7
2012	*\$4,000,000	2012	*\$32,198,000	2012	1 of 7
2011	*\$2,300,000	2011	*\$17,100,000	2011	1 of 1
		2009	**\$28,000,000		

*Funding budgeted in the Library Facilities Initiatives account

**Library Campus Model

Central Library Improvements Fund

2, 3, and 4 of 7

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$3,280,000	228%	
2016		1,000,000		1,000,000	(41%)	
2015		1,700,000		1,700,000	9%	
2014		1,558,000		1,558,000	(21%)	1,278,875
2013		1,968,000		1,968,000	48%	990,590
2012		1,327,000		1,327,000	152%	687,203
2011		526,000		526,000	(36%)	543,979
2010		825,000		825,000		842,471
2009						1,205,532
Total		\$8,904,000		\$8,904,000		\$5,548,650

The Library makes three separate requests for the Central Library; the Interior Segment, the Exterior Segment and the Mechanical Improvements Segment. Since 2010, these requests have been budgeted in a general Central Library Improvements account.

The Central Library Interior segment, provides funding for the restoration, preservation and renovation of the interior of the Central Library. Work includes repairs to mosaic tile and scagliola in the rotunda, renovation, upgrades and modernization as well as general repair and maintenance. The Central Library Exterior segment, provides funding for the maintenance and repair of the exterior façade of the Central Library which includes limestone block and balusters, Chicago brick, marble block, windows, lighting and roofs. The Central Library Mechanical Improvements segment, provides funding for the Central Library's equipment and systems (HVAC, electrical, building controls, fire safety, security and elevators).

Carryover

This program had \$2.4 million of borrowing authority carried over into 2016.

Average carryover for this program since 2010 is \$1.7 million.

From 2012 through 2014 the Central Library capital programs were funded as requested. In 2015 just over 40% of the request was funded.

This request funds two positions (.7 FTE); 1 Business Operations Manager and 1 Facilities Manager. This is an increase of 0.3 FTEs from the 2016 request.

Capital Request History – Central Library Improvements

Annual Request

	Mechanical	Exterior	Interior	Total
2017	\$2,530,000	\$500,000	\$250,000	\$3,280,000
2016	\$44,350	\$435,650	\$520,000	\$1,000,000
2015	\$1,050,000	\$450,000	\$525,000	\$2,025,000
2014	\$1,028,000	\$130,000	\$400,000	\$1,558,000
2013	\$1,028,000	\$140,000	\$800,000	\$1,968,000
2012	\$237,000	\$100,000	\$800,000	\$1,137,000
2011	\$226,000	\$100,000	\$400,000	\$726,000

Six-Year Request

	Mechanical	Exterior	Interior	Total
2017	\$7,245,050	\$2,500,000	\$250,000	\$9,995,050
2016	\$5,845,050	\$2,060,650	\$4,305,000	\$12,210,700
2015	\$5,550,700	\$2,135,650	\$4,025,000	\$11,711,350
2014	\$6,420,000	\$2,280,000	\$3,625,000	\$12,325,000
2013	\$6,816,000	\$2,420,000	\$3,025,000	\$12,261,000
2012	\$6,523,000	\$1,760,000	\$3,250,000	\$11,533,000
2011	\$4,200,000	\$1,360,000	\$3,450,000	\$9,010,000

Proposed Projects for Central Library**Mechanical**

2017 - Air handlers (3)	\$2,530,000	
2018 -	\$530,000	
2019	\$1,252,000	
2020 - Air handlers (2)	\$1,444,350	
2021	\$44,350	
2022	<u>\$1,444,350</u>	
(Increase of \$1,400,000 (24%) from the 2016 request)		\$7,245,050

Exterior

2017 - Roof replacements	\$500,000	
2018 - Roof replacements	\$750,000	
2019	\$0	
2020	\$625,000	
2021 - Painting	\$375,000	
2022	<u>\$250,000</u>	
(Increase of \$439,000 (21%) from the 2016 request)		\$2,500,000

Interior

2017	\$250,000	
(Decrease of \$4.1 million (94%) from the 2016 request)		<u>\$250,000</u>
		\$9,995,050

Branch Library Improvements (Interior, Exterior, Mechanicals)

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$900,000		
2016						
2015		2,750,000		2,750,000		
2014						593,507
2013		1,475,000		1,475,000		17,030
2012						24,735
2011						287,494
2010						163,924
2009						247,703
2008		295,000		295,000	(13%)	476,410
2007	40,000	300,000		340,000		262,371
Total	\$40,000	\$4,820,000		\$4,860,000		\$2,073,174

The Library has changed the name of its programs from “Neighborhood” to “Branch”.

Since 2000, \$8.5 million in capital funding has been budgeted in the Neighborhood Library Improvements capital account for maintenance and improvements at the 12 neighborhood libraries. Five branch libraries are currently in need of new HVAC systems. Four of those neighborhood libraries are scheduled to be replaced; Forest Home, Mill Road, Capitol and M.L. King.

The replacement of the HVAC and electrical system scheduled for 2021 has been moved up to 2017. Renovations at Center Street are not expected to be as extensive as those done at Tippecanoe.

Funding in 2013 and 2015 was primarily for the renovation of Tippecanoe. Additional funding for Tippecanoe was included in the Library Facilities capital account.

In 2013, funding for the installation of a vending library at the Westlawn housing development was included in this account.

Capital Request History - Branch Library Improvements

Annual Request

	Mechanical	Exterior	Interior	Total
2017	\$900,000	\$0	\$0	\$900,000
2016	\$0	\$0	\$0	\$0
2015	\$0	\$0	\$2,250,000	\$2,250,000
2014	\$0	\$175,000	\$0	\$175,000
2013	\$875,000	\$0	\$0	\$875,000
2012	\$0	\$0	\$0	\$0
2011	\$0	\$0	\$0	\$0

Six-Year Request

	Mechanical	Exterior	Interior	Total
2017	\$1,200,000	\$800,000	\$1,340,000	\$3,340,000
2016	\$900,000	\$730,000	\$450,000	\$2,080,000
2015	\$0	\$400,000	\$2,250,000	\$2,650,000
2014	\$0	\$175,000	\$800,000	\$975,000
2013	\$875,000	\$175,000	\$800,000	\$1,850,000
2012	\$875,000	\$175,000	\$800,000	\$1,850,000
2011	\$875,000	\$175,000	\$800,000	\$1,850,000

Proposed Projects for Branch Libraries**Mechanicals**

2017 - HVAC & electrical system at Center Street	\$900,000	
2022	<u>\$300,000</u>	\$1,200,000

Exterior

2020 - Replace roof at Bay View & Zablocki	\$400,000	
2022 - Replace windows at Center Street	<u>\$400,000</u>	\$800,000

Interior

2018	\$200,000	
2019	\$690,000	
2021 - Carpeting for Bay View, Center Street & Washington Park	<u>\$450,000</u>	\$1,340,000

\$3,340,000**Branch Libraries – Location and Construction Year**

Bay View - 2566 S Kinnickinnic	1993	
Capitol - 3969 N 74 th St.	1964	
Center Street - 2727 W Fond Du Lac Ave	1989	
East - 1910 E North Ave	2014	
Forest Home - 1432 W Forest Home Ave	1966	(2016 - begin construction)
M. L. King - 310 E Locust St	1971	
Mill Road - 6431 W Mill Rd	1970	(2016 - begin construction)
Tippecanoe - 3912 S Howell Ave	1969	(2015 – renovation)
Villard Square - 3310 W Villard Ave	2011	
Washington Park - 2121 N Sherman Blvd	2003	
Zablocki - 3501 W Oklahoma Ave	1963	

Project Updates and Past Requests

Library Facility Initiative

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$0**		
Request						
2016				**		
2015				**		
2014	90,000	1,735,000		1,825,000	508%	
2013				300,000	(76%)	
2012				1,250,000	(37%)	0
2011				2,000,000	14%	*3,103,648
2010				*1,750,000	75%	124,417
2009				*1,000,000		
2008						
2007						
Total	\$90,000			\$8,125,000		\$3,228,065

*Budgeted in Villard Square Account

** Funding was requested in a new capital account "Branch Library – New Construction"

Starting with the 2015 request, the Library requested funding for the construction of new libraries under a new title "Branch Library – New Construction".

The 2014 Budget provided funding (\$600,000) to begin the development of two mixed use libraries to replace the Mill Road and Forest Home Libraries.

Background

To address the ongoing needs of the Library, in 2010 the Library Board recommended that a new configuration of library facilities be planned, built and opened over the next ten years. The Library's configuration at that time consisted of the Central Library and 12 neighborhood libraries. The proposed configuration would include different types of libraries including Area, Neighborhood, Mixed-Use and Express Centers.

Area Libraries would be larger, contain more materials and computers, provide full library services and have more programs. Neighborhood Libraries would be very similar to the current neighborhood libraries. Mixed-Use Libraries would average between 8,000 and 12,000 square feet. Their collections would have 40,000 to 50,000 items. There would be access to technology, popular collections, and reference staff as well as community and study rooms. Express Centers would be small locations allowing quick access to pick-up and drop off materials. There would be limited access to technology, fewer services and smaller collections.

The Library Board believed that a combination of these types of facilities would allow the Library to enhance services and provide long-term savings. Savings would be realized through reductions in energy use and the avoidance of capital maintenance on some existing neighborhood libraries which would be closed or consolidated. In 2012, the Capital Improvements Committee did not recommend fully funding the Library's request for the Facilities Plan. The Committee expressed concerns about embarking on a broad construction initiative without firm commitments to close or consolidate aging branches. If new libraries had been constructed without closing existing branches, the City would have been financially responsible for maintaining a larger portfolio of buildings

many of which had significant amounts of deferred maintenance. In 2013 the Committee recommended providing \$3.7 million in funding for the Library Facilities Initiative.

Instead of pursuing the Area/Neighborhood library approach, the Library has decided to focus on the development of mixed use libraries to replace old neighborhood facilities. As of March 2015, two developments have been completed (Villard Square and East). Four additional mixed use facilities (Mill Road, Forest Home, Capitol and Martin Luther King) are currently being developed.

Municipal Court

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$384,000		
2016						
2015		504,000		504,000	250%	
2014	144,000			144,000		132,066
2013						0
2012						28,040
2011						132,000
2010		334,000		334,000	(51%)	
2009		683,645		683,645	59%	818,800
2008		429,620		429,620	759%	147,717
2007	50,000			50,000		150,617
Total	\$194,000	\$1,951,265		\$2,145,265		\$1,409,240

The Municipal Court has submitted two capital requests. Only one request is for funding in 2017.

The total six-year request is \$439,000 and is unchanged from last year's six-year request.

The Court relies heavily on technology for its operations and to provide services to the public. The Court's capital requests generally support the development of new technologies to provide enhanced services and the maintenance of their critical electronic infrastructure.

Capital funding from 2007 through 2010 was primarily for the Court Case Management System.

CATS & Website Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$384,000		
Request						
2016				0		
2015		504,000		504,000		
Total		\$504,000		\$504,000		

The Court’s Case Automated Tracking System (CATS) has reached the its 10 year life expectancy. This project will upgrade the CATS systems and the Court’s website. It will focus on the transition from a client-server based architecture to a browser-based platform, similar to FMIS, HRMS and other City systems. This project will eliminate the need to install and maintain workstation software. It will also facilitate remote court operations such as community court sessions.

Phase 1 of the project will evaluate software and assess on-going security needs.

The project was originally scheduled for 2015 and 2016. The Curt decided to delay the project for one year because of staffing changes.

Capital Request History – CATS & Website Upgrade

Annual Request		Six-Year Request			Priority	
2017	\$384,000	2017	\$384,000		2017	1 of 2
2016	\$0	2016	\$384,000	(2017)	2016	2 of 2
2015	\$504,000	2015	\$888,000	(2015, 2016)	2015	1 of 1
2014	\$0	2014	\$936,000	(2015, 2016)	2014	1 of 2
2013	\$0	2013	\$936,000	(2015, 2016)	2013	1 of 2)

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017						
Request				\$0		

This request is made in conjunction with the renovation of the Police Administration Building. Funding will allow the Court to contract for an architectural consultant who has experience in designing court facilities that include appropriate architectural, technological and security components. Construction costs for the Municipal Court portion of the PAB will be included in the Police Department’s capital request.

This request was first submitted for the 2016 capital budget. The revised PAB renovation schedule has moved the construction of the Municipal Court space to 2019. Design of the Municipal Court space is expected to take place in 2018. Funding of **\$55,000 is requested for 2018.**

Contracting for specialized design services is likely to result in a more effective and efficient space for the Municipal Court. It may also marginally reduce construction costs by reducing the need for future design changes.

Capital Request History – Court Remodel/Redesign

Annual Request		Six-Year Request		Priority	
2017	\$0	2017	\$55,000 (2018)	2017	2 of 2
2016	\$55,000	2016	\$55,000	2016	1 of 2

Project Updates & Past Requests

Virtual Server and SAN Replacement

The Municipal Court uses servers and a storage area network (SAN) to host its case management system (CATS). Based on industry standards, the equipment will have reached the end of its useful life in 2014. Extending their use beyond this time may make the Court’s operations vulnerable to outages or loss of performance. There may be possibilities for repurposing the equipment to less critical applications.

This project was first requested in 2013 for funding in 2014. It was funded (\$144,000) as requested. Expenditures in 2014 were \$132,000. The project is largely complete. **No additional funding has been requested.**

Electronic Case Jacket Project

The Electronic Case Jacket project was a multi-phase project designed to eliminate physical case jackets and paper files and to promote efficiencies in Municipal Court operation. The Municipal Court now operates its sessions electronically. This allows greater efficiencies in the processing of court cases, greater access to case related documents and information and flexibility in where the Court can hold sessions.

Since 2007, the Electronic Case Jacket project has received just over \$1.3 million in funding. The project has remained within its budget.

Phase 1, which eliminated paper rosters for calling court cases, went live in April 2009. Phases 2, 3 and 4 involved the electronic capture of documents, the conversion of notices, and the integration of on-line templates for out-going correspondence. Much of 2010 was spent designing the environment to integrate the activities of judges, clerks and bailiffs and allow immediate access to all relevant case information on a single screen. Electronic processing of incoming correspondence began in September 2010. A key component of the system is the electronic receipt of citations.

In conjunction with this project, the Municipal Court has updated its website. The website has been optimized for mobile device use. It is not unusual for users of court services to have their primary internet access provided via a Smartphone. Those users now have the ability to make payments and find case information using their phone. Search capabilities have been expanded. Improvements also include the ability to conduct more court business on-line including entering not-guilty pleas, selecting a preferred court date, and requesting extensions.

Data Center AC

The Municipal Court requested \$54,000 for 2012 to replace the air conditioning unit that services the Court's datacenter. The existing unit had exceeded its useful life and required frequent and expensive repairs. With the implementation of the Electronic Case Jacket Project, the operations of the Court are reliant on its computer network. Failure of the AC systems could disrupt court operations. This project was funded through the Court's O&M Budget.

Panic Alarm System

The Municipal Court requested \$23,000 for 2012 to install a warning system that will alert court staff to dangerous situations. The existing system is not functional and cannot be repaired because of its age. A functioning alarm system will help to ensure the safety of employees and City residents who use court services. This project was funded through the Court's O&M Budget.

IT Disaster Recovery Project

In conjunction with the electronic case jacket project, the Municipal Court began planning to implement a disaster recovery project to protect the integrity of Court data. The Court created a virtualized environment in their own data center which allows them to easily restore systems to new hardware in the event of an emergency. This project was completed on time and within its budget.

Department of Neighborhood Services

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$2,000,000	(32%)	
2016		2,925,000		2,925,000	30%	
2015		1,744,000	500,000	2,244,000	(3%)	
2014		2,320,000		2,320,000		1,571,700
2013						15,721
2012						0
2011						48,169
2010		76,141		76,141		0
2009						0
2008						
2007						
		\$7,065,141	\$500,000	\$7,565,141		\$1,635,590

The Department of Neighborhood Services (DNS) has submitted two capital requests for the 2017 Budget. All of the funding requested is for 2017, there are no out year requests.

The request represents a decrease of \$225,000 (10%) from last year's request. The decrease is related to the garage conversion project at the Anderson Municipal Building which was funded in 2015 and 2016.

The increased capital funding since 2014 has been primarily related to demolitions as part of the Mayor's Strong Neighborhood Plan.

The 2015 Budget added one new capital account to the Dept. of Neighborhood Services, the Code Compliance Loan Program (\$500,000). This account provides a funding source for an existing program. No funding has been requested for this program after 2017.

The request to remodel the Development Center Office that was submitted each year from 2014 through 2016 has not been submitted for 2017.

In 2012 DNS submitted a request to replace the NSS system. It was funded in 2012 as a special capital project.

Capital funding in 2010 was for security upgrades at the Anderson Municipal Building/Water Tower.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$1,500,000		
Request						
2016		*2,200,000		*2,200,000	67%	
2015		*1,319,000		*1,319,000	(41%)	
2014		*2,220,000		*2,220,000		1,565,085
Total		*\$5,739,000		*\$5,739,000		\$1,565,085

*Funded in the Concentrated Blight Elimination capital account

The 2014 Budget created a new capital program called Concentrated Blight Elimination to support the Strong Neighborhoods Plan. In 2014, funding in this account was combined with over \$1 million of O&M funding in DNS to contract for the demolition of 200 privately owned houses. The proposed demolitions were planned on an area wide basis to maximize the positive benefits of blight elimination. The 2015 and 2016 Budgets provided funding for the continuation of demolition activities.

For 2017, the department has requested capital funding of \$1.4 million for demolition and deconstruction activities. No funding has been requested after 2017.

The average cost per residential demolition is \$15,700.

The department currently has a backlog of 204 privately owned structures and 191 city-owned structures with raze files or orders. The 2017 request will not address the existing backlog of demolition cases. The estimated demolition cost for the 306 residential properties is \$4.8 million. The remaining 89 commercial properties have an estimated demolition cost of \$7 million.

Council Files related to the activities of the Special Joint Committee on the Redevelopment of Abandoned and Foreclosed Homes
2010 - 091230
2011 - 110809
2012 - 111347
2013 - 121405
2014 - 131272
2015 - 141695

Sixteen homes were deconstructed in 2015 at an average cost of \$19,150 per parcel. The average price per parcel in 2014 was \$28,000. The department reports demolition activities to the Special Joint Committee on the Redevelopment of Abandoned and Foreclosed Homes.

The department included a detailed demolition status report with the 2017 capital request.

Capital Request History - Demolition

Annual Request		Six-Year Request		Priority	
2017	\$1,500,000	2017	\$1,500,000	2017	1 of 2
2016	\$1,414,400	2016	\$1,141,400	2016	1 of 4
2015	No Request		No Request		
2014	No Request		No Request		

Code Compliance Loans

2 of 2

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016				\$500,000	0%	
Request						
2015		500,000		500,000	0%	
2015			500,000	500,000		
Total		\$500,000	\$500,000	\$1,000,000		

This capital account was created in the 2015 Budget to provide a single funding source for the Code Compliance Loan program that was created in 2014. The revenue provided in the 2015 Budget is the increment from a tax incremental district. In December, 2014, the Council approved one year extensions to TIDs 30 and 40 to provide support for affordable housing.

Code Compliance Loans are deferred payment loans available to qualified owner occupants of one to four family buildings. The loans are used to correct code violations cited by DNS inspectors. This program is part of the Strong Neighborhoods Plan. No funding has been requested for this program after 2017.

Funding requested in 2016 was expected to support 1 position (1FTE) of NIP Inspector. In 2017, that position may be moved to the O&M Budget.

Capital Request History – Code Compliance Loans

Annual Request		Six-Year Request		Priority	
2017	\$500,000	2017	\$500,000	2017	2 of 2
2016	\$500,000	2016	\$500,000	2016	2 of 4
2015	No Request	2015	No Request	2015	No Request
2014	No Request	2014	No Request	2014	No Request

Project Updates and Past Requests

Conversion of Anderson Water Tower Garage

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		225,000		225,000	(47%)	
2015		425,000		425,000		
Total		\$650,000		\$650,000		

This project was first requested in 2013 to modify space at the Anderson Municipal Building to accommodate additional staff. The total six-year request was for \$650,000. The project was funded in 2015 and 2016. No additional funding has been requested.

Over the last 4 budget years, DNS has added 15 additional staff. Six additional staff will be hired in mid-2015 to assist with the expansion of the Residential Rental Inspection Program. The number of estimated full time equivalents in DNS has increased from 197 in 2010 to 255.5 in 2015. Approximately 70 employees will have offices in the Anderson building.

The project will renovate space on the first and second floors. The more extensive renovation will be on the 1st floor. 2,300 SF of garage space will be converted to offices to accommodate 25-27 inspectors at an estimated cost of \$465,000 (\$201.8 / SF). Work on the second floor will primarily consist of the reconfiguration of cubicles and the addition of two walled offices. The second floor will have room for 20 inspectors and 5 clerical staff. The estimated cost is \$225,500.

Work is in progress and expected to be completed by May 31, 2016. After the construction is completed, workstation and staff relocations will begin. Cost estimates from DPW Facilities do not include furnishings. . Some furnishings could be repurposed from their existing use.

The abandonment of the vault below the garage floor was included in the funding request for 2016.

Capital Request History – Conversion of Anderson Water Tower Garage

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$225,000	2016	\$225,000	2016	3 of 4
2015	\$650,000	2015	\$650,000	2015	1 of 3
2014	\$200,000	2014	\$695,000 (2014, 2015)	2014	1 of 3
2013	\$695,000	2013	\$695,000	2013	1 of 1

Remodel of the Development Center Offices

This project was first requested in 2014 to create two new enclosed offices at the southeast corner of the Development Center space. This project would increase direct supervision of employees and improve customer service by giving managers direct line of vision to the front counter, cashier and customer service areas. This project would create two new manager offices, a new conference room and two new work stations.

The total project area is 1,182 square feet. The estimated cost of the project is \$40,500 less than the request in 2014, reducing the cost per square foot from \$103 to \$69. Floor plans have been provided. (See CC file 141767)

The front counter portion of the project was completed in 2014 using funds from the Department of Public Works. Funds were requested for 2016 to complete the project. No funding was provided in 2016. **No request was submitted for 2017.**

Capital Request History – Remodel of the Development Center Offices

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016	\$85,600	2016	\$85,600	2016	4 of 4
2015	\$81,500	2015	\$81,500	2015	2 of 3
2014	\$122,000	2014	\$122,000	2014	2 of 3 (new)

Concentrated Blight Elimination

The 2014 Budget created a new capital program called Concentrated Blight Elimination to support the Strong Neighborhood Plan. Funding in this account was combined with over \$1 million of O&M funding in DNS to contract for the demolition of 200 privately owned houses. Work was planned on an area wide basis to maximize the positive benefits of blight elimination. The department did not request any additional funds in this account for 2015. In 2016 and 2017, funding was requested with a different title (**see the “Demolition” capital request**).

Alternative Board-Up

The 2014 Budget created a new capital program called Alternative Board-Up. Funding was provided (\$100,000) to find alternatives to using plain plywood to board up the windows of vacant buildings. Options could include see-through products or painting the plywood to be decorative.

The department has determined that there are two alternatives that are potentially feasible. The first is the use of polycarbonate glass, which may be appropriate for homes that are still intact. The polycarbonate was piloted on a residential property and it performed well. The department is working with DCD to identify City-owned commercial properties where the polycarbonate can be tested. The second option is to do artistic board-ups which create the illusion of a window or a piece of art. There are several examples in the city, including in the 2600 block of W. State Street, the former library at North Avenue and Sherman Boulevard and a commercial building on the corner of King Drive and Center Street.

The department is participating in an alternative board-up Art Project through the DNS Anti-Graffiti Youth Initiative. The project will be held at the City-owned home at 1929 S. 6th Street. The project will include community building activities and education sessions.

The department is continuing to monitor the piloted installations. No policy regarding the use of alternate board-up materials has been established. In 2014, \$6,615 was expended from this account.

Most of the work associated with the evaluation of alternative board up methods has been funded by other sources. **The department has not requested additional funding for this account.**

Conversion of Permit Records to Scanned Images

This project to hire contractors to convert microfilmed records to an electronic format was requested for funding in 2015. **No capital funding was provided** in DNS for this project. However, the DSS E-vault upgrade in DOA included some of the equipment that would be necessary to complete this project in house. Funding was not included for staffing the project. There were discussions regarding the use of transitional workers to do the document conversion. The cost estimate for the conversion of the records made by DOA was significantly less than the estimate from a contractor. Some of the difference may be in the indexing and sortability of the documents. There are concerns that the new e-vault system may not meet the requirements for e-discovery. **No capital funding was requested for 2016 or 2017.** The department may fund this project with non-capital sources.

Remodel ZMB 10th Floor Office Assistant Area

This one year project was requested in 2014 to reconfigure workstations to locate the DNS Trades Division clerical staff in one area to facilitate the exchange of information, improve assignment sharing and cross training and allow for better phone coverage. The total project area is 1,490 square feet. The estimated cost per square foot is \$54.03. Floor plans were provided with the 2014 capital request. (See CC file 121728) No capital funding has been provided. **No request has been submitted since 2014.**

Anderson Tower Conference Room

This project would have upgraded electronic equipment, installed sound and telecommunications systems, and purchased new furniture for the 3rd floor conference room at the Anderson Municipal Building. The room has a capacity of approximately 50 people. The room is frequently used for DNS meetings and training events like the Landlord Training Program. It is also used by other City agencies (Health Department, Common Council, DER, Election Commission etc.) and community groups. If properly equipped, it could also function as an emergency operations center.

This project was first requested for 2012 (\$70,000). No funding has been provided. **No request has been submitted since 2012.**

Anderson Tower Security Upgrade

In 2010, \$76,000 was budgeted to make security improvements at the Anderson Municipal Building (4001 S 6th Street). Expenditures in 2011 and 2013 were \$48,169 and \$15,721 respectively. The remaining funding has lapsed.

Police Department

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	%Δ	Actual
2017 Request				\$14,454,886	60%	
2016	72,000	8,998,000		9,070,000	11%	
2015		4,600,000	3,600,000	8,200,000	(11%)	
2014	225,000	8,952,000		9,177,000	24%	9,191,831
2013	40,000	7,335,700		7,375,700	391%	4,334,837
2012		1,502,000		1,502,000	(70%)	3,604,418
2011	42,000	4,945,931		4,987,931	19%	5,308,880
2010	293,000	3,895,000		4,188,000	(37%)	3,737,768
2009	160,000	6,504,000		6,664,000	143%	1,401,268
2008		2,745,000		2,745,000	64%	3,489,356
2007		1,670,000		1,670,000		5,718,578
Total	\$832,000	\$51,147,631	\$3,600,000	\$55,579,631		\$36,786,936

The Police Department has submitted 10 capital requests for the 2017 Budget, six fewer than last year.

The 2017 request includes one new request. It also includes three requests for projects that were not funded in previous years. IT projects represent 32% of the 2017 funding request. No IT projects have out-year funding requests.

The total six-year request is \$52,106,197 and represents a decrease of \$9.5 million (15%) from last year's six-year request.

The decrease is primarily related to the funding in 2016 of several large IT projects; the replacement of the department's Record Management (RMS) System (\$1.1 million), new consoles for the Radio Dispatch system (\$1.9 million), an upgrade of the CAD System (\$1.3 million), an upgrade of the 911 Network (\$72,000) and the upgrade of interrogation room cameras (\$250,000).

The RMS project will require one more year of funding. The department has requested \$2.5 million.

Additional funding of \$380,000 has been requested for the Uninterruptable Power Supply project. The project was originally funded in 2014 and received additional funding of \$425,000 in 2016.

Capital Request Summary							
Project/Program	2017	2018	2019	2020	2021	2022	Six-Year Total
PAB Renovation	7,661,886	6,661,860	8,141,422	6,273,102	5,731,049	3,106,878	\$37,576,197
Radio & Communications Upgrade	375,000	375,000					750,000
Server & Storage Replacement	250,000						250,000
Record Management System	2,500,000						\$2,500,000
District Station Repairs	1,863,000	1,233,000	882,000	1,744,000	1,581,000	1,922,000	\$9,225,000
Uninterruptable Power Supply	380,000						380,000
Police Training Mgmt. System	250,000						250,000
Digital Asset Mgmt. System Repl.	200,000						200,000
Mobile Identification System	850,000						850,000
*Video Conferencing Upgrades	125,000						125,000
*New Request for 2017							
Total	14,454,886	8,269,860	9,023,422	7,017,102	7,312,049	5,028,878	\$52,106,197

Radio & Communications Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$375,000	(15)%	
2016		440,000		440,000	120%	
2015		200,000		200,000	(45%)	
2014		365,000		365,000	(22%)	617,209
2013		470,000		470,000	70%	126,876
2012		277,000		277,000	560%	209,844
2011	42,000			42,000	(63%)	875
2010	113,000			113,000	88%	
2009	60,000			60,000		
Total	\$215,000	\$1,752,000		\$1,967,000		\$954,804

This program was first funded in 2009. The six-year capital request is \$750,000.

2012 was the first year that improvements to digital radio infrastructure were identified as a component of this program. The Open Sky trunked radio system was designed for a land area classification of “Light Residential” and currently meets the minimum signal reliability for which MPD contracted. However, the system is adversely affected by large buildings and various land features. Funding will be used to improve radio coverage inside buildings and ensure better radio signal strength in areas throughout the city that are affected by land clutter.

Carryover

This program had \$319,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$451,000

The Police Department average more than 5 million push-to-talk communications per month on their radios.

Since 2011, the department has constructed 8 new radio sites. Two sites received funding in 2016. Funding has been requested for one site in 2017 and one site in 2018. No funding has been requested for additional sites after 2018.

Capital Request History – Radio & Communications Upgrade

Annual Request		Six-Year Request		Priority	
2017	\$375,000	2017	\$750,000	2017	1 of 10
2016	\$815,000	2016	\$375,000	2016	1 of 16
2015	\$365,000	2015	\$1,115,000	2015	1 of 10
2014	\$565,000	2014	\$1,465,000	2014	3 of 8
2013	\$2,500,000	2013	\$3,550,000	2013	2 of 10
2012	\$277,000	2012	\$1,732,000	2012	3 of 4
2011	\$42,000	2011	\$574,200	2011	2a of 10

Radio Site Buildout

Code	Site	Year Built	Age (in 2016)	2016 Budget	2017 Request	2018 Request
E10	Engine House 10	2005	11			
E22	Engine House 22	2005	11			
E38	Engine House 38	2005	11			
PAC	Police Academy	2005	11			
PKR	Kilbourn Reservoir	2005	11			
PRS	Radio Shop	2005	11			
SRT	River Trail School	2005	11			
WFT	Franklin Water Tower	2005	11			
WLTN	Lake Tower North	2005	11			
WLTS	Lake Tower South	2005	11			
P2	Police District 2	2011	5			
P7	Police District 7	2011	5			
MIB	BMO Building	2011	5			
STL	St. Luke's Hospital	2014	2			
UWM	UWM Sandburg	2014	2			
GWT	Greenfield Water Tower	2015	1			
WEGS	WE Energies Station	2015	1			
NRL	Northridge Lakes	2015	1			
WFB	Whitefish Bay Tower	2016		\$165,000		
RMC	Froedert Hospital	2016		\$275,000		
OCWT	Oak Creek Water Tower	2017			\$375,000	
OKLN	Oaklane Tower	2018				\$375,000

Server & Storage Replacement

2 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$250,000		
Request						
2016		225,000		225,000		
2015						
2014	225,000			225,000		117,678
2013						
Total	\$225,000	\$225,000		\$450,000		\$117,678

This program was first requested in 2014 with the title IT Server and Data Storage Replacement.

Funding would replace server and data storage equipment on a 5 year cycle and establish a virtualized data center. The department expects that the virtualized data center will meet future growth and capacity needs. This program will accommodate the storage needs of the new record management system, centralized document management, expansion of the in-car video system, file servers and a new iBase data warehouse which will support crime data analysis for the Fusion Center.

No funding has been requested after 2017.

The department has 131 servers. Thirty five servers were purchased in the last three years. The remaining 96 servers are between 5 and 12 years old. The department's new centralized storage system was implemented in 2015.

Carryover
This program was funded with cash in 2014 so there is no carryover borrowing authority

MPD is required to retain audio and video for a minimum of 120 days. Digital items related to criminal convictions must be preserved for the length of the offender's sentence. The department has not been out compliance with the 120 day retention requirement because of inadequate storage.

This program is being implemented and administered by the Police Department's Information Systems Division.

Capital Request History – Server & Storage Replacement

Annual Request		Six-Year Request		Priority	
2017	\$250,000	2017	\$250,000	2017	2 of 10
2016	\$250,000	2016	\$500,000 (2016, 2017)	2016	2 of 16
2015	No Request	2015	No Request	2015	No Request
2014	\$225,000	2014	\$1,350,000 (2014-2019)	2014	7 of 8

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$2,500,000	127%	
Request						
2016		1,100,000		1,100,000	(45%)	
2015		2,000,000		2,000,000	43%	
2014		1,400,000		1,400,000	180%	236,205
2013		500,000		500,000		
2012						
Total		\$5,000,000		\$5,000,000		\$236,205

This capital account funds the replacement of the Police Department’s Tiburon record management system. Since 2013 this capital account has received \$5 million of funding. No funding is requested after 2017. In 2013, \$68,300 was expended from the Tiburon Upgrade account for this project. In January 2015, the department estimated that the final cost of the system would be \$6.5 million.

Background

The 2011 Budget included \$354,000 to upgrade Tiburon, the Police Department’s current records management system. According to the Police Department’s 2011 capital request, which was submitted in March 2010, the Tiburon RMS and its hardware components were outside of their extended warranty, were outdated, near capacity and lacking in expandability. The budgeted upgrades were intended to increase system capacity and performance and provide greater flexibility in reporting and analysis.

During the 2012 Budget process, the Department indicated that its IT staff was conducting a Business Requirements Assessment of MPD’s entire records management system. The assessment was completed and formed the basis for the Department’s 2013 capital request, which included a total of \$7.5 million over 3 years to purchase a new record management system to replace the Tiburon RMS instead of upgrading it.

Carryover

This program had \$3.5 million of borrowing authority carried over into 2016.

Average carryover for this program since 2014 is \$1.8 million.

The department proceeded with a Request for Information (RFI) to allow a more thorough evaluation of options available to best meet the MPD’s needs. In April 2012, the Capital Improvements Committee declined to recommend funding for the new RMS system pending the results of the RFI, which received 15 responses. The City issued an RFP with a submission deadline of December 3, 2013. Four vendors were chosen to make performance demonstrations. The demonstrations were complete in July 2014. As of January 2016, the contract had not been awarded.

A number of issues were raised in 2012 with the department’s existing RMS especially as they related to the classification of certain crimes and Uniform Crime Reporting as required by the Federal Bureau of Investigation. The Fire and Police Commission’ independent audit of police statistics is available as an attachment to Common Council file 121290.

The proposed Record Management System will improve efficiencies throughout the police department. It will eliminate duplicate data entry, automatically submit data to external sources (County Jail, DOJ,

etc.), maximize the use of standard code tables such as NIBRS (National Incident Based Reporting System) and allow access to multiple systems from a single RMS Workstation. The system will provide an Investigative Case Management solution for the purpose of capturing and storing investigative data and producing supplemental reports. Additional functionality in performing Predictive Crime Analysis will also be included.

Other business functions that will be provided with the new RMS System that do not exist in the Tiburon system include, Calls for Service, Incident Reporting, Investigative Case Management, Traffic Accident Reporting, Citations, Field Contact, Pawns, Civil Process, Orders & Restraints, Equipment and Asset Management, Fleet Management, Personnel, and Internal Affairs.

Capital Request History – Record Management System

Annual Request		Six-Year Request		Priority	
2017	\$2,500,000	2017	\$2,500,000	2017	3 of 10
2016	\$5,000,000	2016	\$5,000,000	2016	3 of 16
2015	\$400,000	2015	\$5,682,800 (2015, 2016)	2015	2 of 10
2014	\$3,000,000	2014	\$7,000,000 (2014, 2015)	2014	1 of 8
2013	\$3,500,000	2013	\$7,500,000 (2013, 2014, 2015)	2013	6 of 10

Police Training Management System

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$250,000		
Request						

This was a new request for a one year project in 2015 to purchase software to manage and track Police Department training requirements. The project was not funded in 2015 or 2016.

The department anticipates the system will reduce operating costs and increase productivity. The amount of savings has not been quantified. No estimate was provided for the annual maintenance costs for the system.

No funding has been requested after 2017.

System Functionality
(partial list)

- Records & Transcripts
- Firearms Training
- Firearms Certification
- Less-Lethal Weapons & Equip.
- Roll-Call Training
- Surveys
- Read & Sign functionality
- Rules-Based Training Approval
- Academy Scheduling
- Competency Mgmt.

Capital Request History – Police Training Management System

Annual Request		Six-Year Request		Priority	
2017	\$250,000	2017	\$250,000	2017	4 of 10
2016	\$250,000	2016	\$250,000	2016	12 of 16
2015	\$250,000	2015	\$250,000	2015	8 of 10

Uninterruptable Power Supply

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$380,000	(11%)	
Request						
2016		425,000		425,000		
2015						
2014		696,000		696,000		51,470
2013						
Total		\$1,121,000		\$1,121,000		\$51,470

This project to replace 17 uninterruptable power supply systems that serve Police facilities was funded in 2014. Many of the systems which ensure power to essential data and communication systems are beyond their rated useful lives. The project included HVAC upgrades to cool the systems. The project estimate was developed by an electrical contractor. The department did not anticipate needing additional funding after 2014.

An MPD audit of technology, network and radio transmitter rooms identified additional UPS and HVAC systems that need to be installed or replaced. Revised project estimates have increased the total project cost from \$696,000 to \$1.5 million. The department will fund system maintenance in its operating budget.

Carryover
This program had \$636,000 of borrowing authority carried over into 2016.

As of the request date, \$226,959 has been expended on this project.

Capital Request History - Uninterruptable Power Supply

Annual Request		Six-Year Request		Priority	
2017	\$380,000	2017	\$380,000	2017	5 of 10
2016	\$850,000	2016	\$850,000	2016	7 of 16
2015	No Request	2015	No Request	2015	No Request
2014	\$696,500	2014	\$696,500	2014	2 of 8

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$7,661,886	(265%)	
2016		2,100,000		2,100,000	144%	
2015		860,000		860,000	(86%)	
2014		5,991,000		5,991,000	4%	5,684,644
2013		5,755,700		5,755,700		3,037,126
2012				0	(100%)	2,450,702
2011		3,779,131		3,779,131	191%	520,541
2010		1,300,000		1,300,000	36%	1,125,374
2009		954,000		954,000	(42%)	437,682
2008		1,635,000		1,635,000	104%	1,045,069
2007		800,000		800,000		238,358
Total		\$23,174,831		\$23,174,831		\$14,539,496

Since 2000, the City has budgeted \$30.9 million for improvements at the PAB. A major renovation project began in 2011 and is expected to last through 2022. The estimated cost for the total project is \$59 million, and includes the areas used by the Municipal Court and the Office of the City Attorney. Construction, which is expected to be completed in 2022, has been phased over multiple years to minimize impacts on annual budgets and MPD operations.

In addition to budget funding, the project was authorized to receive \$350,000 in contingent borrowing in June, 2012. The Police Department also obtained grant funding to update jail cell areas and the Fusion Center.

The department submitted a number of capital requests for the 2016 Budget which were considered a higher priority than the PAB. Budgeted funding for the PAB was reduced to make room for those other projects. The reduction in funding will postpone the construction for one year. Asbestos abatement will continue with 2016 funds. The project includes complete asbestos removal in most of the building. Where removal is not practical, the asbestos is being encapsulated.

Request Summary - 2017

2017	\$7,661,886
2018	\$6,661,860
2019	\$8,141,422
2020	\$6,273,102
2021	\$5,731,049
2022	<u>\$3,106,878</u>
Total	\$37,576,197

Carryover

This program had nearly \$6 million of borrowing authority carried over into 2016.

Average carryover for this program since 2011 is \$6.2 million.

Phase I, which included the construction of 2 exterior mechanical shafts to replace failing interior shafts, as well as the upgrade of life safety systems, was completed in 2013. Planning for Phase II (renovation of the 5th floor) was also completed in 2013. Construction of Phase II was complete in January 2015.

Phase II which was originally scheduled to be completed in July, 2014 was delayed in part by the large number of phased asbestos removals. The project was also delayed because additional time was required to review the technical specifications for the jail cell area. Because the project was somewhat behind schedule, less funding was required in 2015. The remaining phases are predominantly general office spaces.

Phase III was funded in 2014. The department anticipates that most of the construction of the 4th floor will take place in 2016.

Phase I project costs were \$5,380,000; a savings of \$570,000 over the Master Plan. Phase II project costs were \$5,843,900. The Master Plan budget for Phase II was \$5,426,000. Additional work was required in the jail cell area which caused additional costs of \$416,000. The project is expected to be below the Master Plan budget through the end of Phase II.

Police Administration Building Phasing Schedule (as of Sept 2015)

Year	Phase	Proposed Work
2012	1	New chase and high-rise upgrades (complete 2013)
2013 -2014	2	5 th Floor remodeling (complete Jan 2015)
2014 -2016	3	4 th Floor remodeling (bids received) b
2016 – 2017	4	3 rd Floor remodeling (asbestos removal 2015)
2017 -2018	5	2 nd Floor remodeling & Fusion Center
2018 -2019	6	1 st Floor remodeling - Municipal Court
2019 -2020	7	7 th Floor remodeling
2020 -2021	8	Basement & 6 th Floor remodeling
2022	9	MEP upgrade, install return air chase

Project History

Funding from 2010 for the Remodel Administration Building Offices program was used to conduct a study of the Police Administration Building. The PAB Master Plan was prepared for the Police Department by Eppstein Uhen Architects, IBC Engineering Services, Powertek Engineering and Pierce Engineers in April 2010. The report evaluated the existing building, prepared design recommendations, identified Police Department space requirements for the next 5 years, and prepared cost estimates.

The report recommended the abatement of hazardous materials, improvements to the HVAC, electrical, plumbing and fire protection systems, as well as upgrades to the building enclosure and floor plan. Construction activities would be phased over 5 years. The total 5-year capital cost was estimated to be \$46.3 million.

In July 2010, further cost estimates which included the entire building were provided. The inclusion of the Municipal Court and the City Attorney increased the 5-year cost by \$7.6 million (16%). A 9-year time frame was also evaluated. The total estimated cost was \$58.6 million.

The updated study also included cost estimates for 2 scenarios that relocated all staff from the PAB. The baseline building cost estimate for a new facility to house all PAB staff was \$87.8 million. Providing a new facility for MPD and a stand-alone facility for the Municipal Court and City Attorney was estimated to cost \$91.8 million. Construction for both scenarios was anticipated to take 2 years.

The revised cost estimates were based on the existing site conditions at the southeast corner of N. 27th Street & W. Wisconsin Avenue. Costs to extend data and communications to the new facilities were

included in the estimate. Costs not quantified in the estimate include property acquisition, vault construction for the maintenance of the City Communications Hub at the existing PAB, roadway improvements, an allowance for employee and public parking, and modification or demolition costs for the existing PAB.

The 2012 Proposed Budget included \$5,460,000 for Phase II. Funding was removed by amendment prior to the adoption of the Budget. In June 2012, up to \$350,000 in contingent borrowing was authorized for Phase II design and construction documents. The file authorizing the funds also required DPW to provide progress reports to the Public Works Committee at least twice per year. The file authorizing the funds also required DPW to provide progress reports to the Public Works Committee at least twice per year.

Additional information regarding the PAB project including studies and cost estimates is available in Common Council files 100006 and 111338.

Capital Request History – Police Administration Building Renovation

Annual Request		Six-Year Request		Priority	
2017	\$7,661,886	2017	\$37,576,197	2017	6 of 10
2016	\$7,340,000	2016	\$37,254,311	2016	4 of 16
2015	\$910,000	2015	\$35,229,433	2015	3 of 10
2014	\$5,991,260	2014	\$39,880,260	2014	4 of 8
2013	\$5,755,700	2013	\$43,759,700	2013	1 of 10
2012	\$5,515,000	2012	\$42,980,178	2012	1 of 4
2011	\$5,879,131	2011	\$46,320,859	2011	3 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$1,863,000	273%	
Request						
2016		500,000		500,000	(7%)	
2015		540,000		540,000	8%	
2014		500,000		500,000	456%	586,171
2013		90,000		90,000	(81%)	97,514
2012		465,000		465,000	55%	*154,775
2011		*300,000		*300,000	67%	95,469+ *181,223
2010	*180,000			*180,000	80%	*36,881
2009	*100,000			*100,000		*16,834
2008						
2007						
Total	\$280,000	\$2,395,000		\$2,675,000		\$1,168,867

*District Station Renovation Account

This program provides funding for repair and upgrades at the Police Department’s District stations as well as the Radio Shop and the Neighborhood Task Force building. This program first received funding in 2012. In prior years, projects at the district stations were funded with discrete capital accounts or included in the District Station Renovation Program.

The six-year capital request is \$8.2 million, an increase of 5% from last year’s six-year request.

The 2016 and 2015 Budgets funded approximately 25% and 33% of the department’s request for District Station Repairs, respectively. The department reported in January 2015 that there is a project backlog of \$1.5 million at the District stations and other MPD facilities. (excluding the PAB)

The Police Department utilized the Dept. of Public Works to inspect and establish the condition for the six District stations, the property warehouse, the Neighborhood Task Force/Radio Shop building and the 82nd and Keefe building. DPW prepared Facility Condition Assessment Program (FCAP) reports for all of the MPD buildings. The FCAP reports identify building deficiencies and provide quantifiable information for capital requests.

Request Summary - 2017

2017	\$1,863,000
2018	\$1,233,000
2019	\$882,000
2020	\$1,744,000
2021	\$1,581,000
2022	<u>\$1,922,000</u>
Total	\$9,225,000

Carryover

This program had \$472,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2012 is \$265,000.

Recent Project Funding

Funding Year	Location	Project	Amount
2016	District 2 –	Replace MAUs in Garage	\$45,000
2016	Data/Comm Center	Exterior painting	\$40,000
2016	District 4	Emergency generator replacement	\$125,000
2016	PAB	Driveway and Railing Repairs	\$93,000
2016	Municipal Court	Replace Rooftop Units	\$75,000
2016	Safety Academy	Compressive Planning	\$100,000
2015	District 2	Major Maintenance	
2015	District 2	Asphalt Sealing	
2014	District 6	Garage repairs	
2013	All District Stations	Upgrade building automation systems	\$90,000

Estimated Project Backlog at District Facilities (as of Jan 2016)

Facility	Backlog
2nd District	\$82,000
3rd /Data	\$0
4th District	\$1,035,000
5th District	\$0
6th District	\$38,000
7th District	\$0
NTF	\$11,000
Radio Repair	\$34,000
Warehouse	\$185,000
Storage	\$178,000
Total	\$1,563,000

Capital Request History – District Repair

Annual Request		Six-Year Request		Priority	
2017	\$1,863,000	2017	\$9,225,000	2017	7 of 10
2016	\$2,053,900	2016	\$8,441,730	2016	10 of 10
2015	\$1,671,650	2015	\$7,804,512	2015	6 of 8
2014	\$1,693,200	2014	\$2,155,000	2014	4 of 10
2013	\$655,000	2013	\$2,630,000	2013	4 of 4
2012	\$790,000	2012	\$300,000	2012	5 of 10, 9 of 10
2011	\$300,000	2011		2011	

Projects Proposed for 2017

District 2 – 242 W. Lincoln Avenue

Boilers	\$100,000	
		\$100,00

DataComm Center – 2333 N. 49th Street

Additional toilet room and custodial closet	\$135,000	
Interior painting	\$55,000	
		\$190,000

District 4 – 6929 W. Silver Spring

* Kitchen renovation	\$20,000	
* Locker room construction	\$250,000	
Installation of VAV system	\$175,000	
Upgrade Bldg Automation system	\$60,000	
		\$505,000

District 6 – 3006 S. 27th Street

**Replace roofs	\$320,000	
Seal masonry façade	\$40,000	
Replace skylight	\$70,000	
		\$430,000

District 7 – 3626 W. Fond Du Lac Avenue

Replace parking lot asphalt	\$160,000	
Replace guard rails and landscaping	\$40,000	
Replace rooftop units (Additional work)	\$280,000	
		\$480,000

Neighborhood Task Force – 4715 W. Vliet Street

Replace branch circuits	\$90,000	
		\$90,000

82nd & Keefe

Replace concrete (partial)	\$20,000	
Replace asphalt pavement	\$30,000	
		\$50,000

Property Warehouse

Replace floor tile	\$18,000	
		\$18,000

Total		\$1,863,000
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*Requested for 2016

**Budgeted in DPW

Digital Asset Management System Replacement

8 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$200,000		
Request						

This was a new request in 2015 for a one year project to replace the department's digital asset management system. The project was not funded in 2015 or 2016.

The department's current digital asset management system (Intellinetics) was installed in 2005. A new system will have greater functionality and will include audit trail capabilities.

Capital Request History – Digital Asset Management System

Annual Request		Six-Year Request		Priority	
2017	\$200,000	2017	\$200,000	2017	8 of 10
2016	\$150,000	2016	\$150,000	2016	15 of 16
2015	\$150,000	2015	\$150,000	2015	7 of 10

Video Conferencing Upgrade

9 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$125,000	%	
Request						

This is a **new** request for 2017 for a one year project to upgrade the department's video conferencing system. The current system is more than 5 years old. The upgrade will provide desktop video conferencing throughout the department's bureaus and with outside agencies

Capital Request History – Video Conferencing Upgrade

Annual Request		Six-Year Request		Priority	
2017	\$125,000	2017	\$125,000	2017	9 of 10

Mobile Identification

10 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$850,000	%	
Request						

This was a new request for 2016 for a one year project to purchase portable devices that will allow officers to scan subject's fingers and attempt to match them to fingerprints in the AFIS System. No funding was provided in 2016.

Capital Request History – Mobile Identification

Annual Request		Six-Year Request		Priority	
2017	\$850,000	2017	\$850,000	2017	10 of 10
2016	\$850,000	2016	\$850,000	2016	16 of 16

Project Updates and Past Requests

Mobile Data Computer (MDC) Upgrades

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		758,000		758,000	(24%)	
2015		1,000,000		1,000,000		
Total		\$1,758,000		\$1,758,000		

This request was an updated version of the Vehicle Mobile Data Computers/DVR Upgrade Project that was requested in 2013. The project did not receive funding in 2013.

Funding was provided in the 2015 and 2016 Budgets to replace mobile data computers (MDCs), in 320 patrol and other vehicles. **No additional funding was requested for 2017.** In addition to other improvements, the new hardware will allow for the use of magnetic strip readers for driver's license cards. The current computers (CF-30 Toughbook) are no longer supported by Panasonic. The faster processor speed and expanded memory of the new computers (CF-31 Toughbook) are required to upgrade the operating system to Windows 7. The computers are expected to have a 5 year useful life.

Annual repair costs for the current computers were \$90,000 in 2012 and 2013. The unit price for new MDCs including the laptop and the mount is approximately \$6,250. The Common Council provided \$900,000 in contingent funds late in 2012 to replace approximately 140 mobile DVRs. Replacement was completed in March 2013.

Capital Request History - Mobile Data Computer Upgrades

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$1,000,000	2016	\$1,000,000	2016	5 of 16
2015	\$1,000,000	2015	\$2,000,000	2015	5 of 10

Radio Dispatch Console Upgrades

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		1,900,000		1,900,000		
Total		\$1,900,000		\$1,900,000		

This was a new request for 2016 to replace the radio consoles used by the Police Department. \$1,900,000 of funding was provided in the 2016 Budget. **No additional funding was requested for 2017.**

Before the consoles can be replaced, the core switches for the OpenSky system will have to be upgraded. This request includes both the upgrade of the switches and new consoles for the Police Department. The Police Department has 31 consoles and the Fire Department has 18 consoles. All the consoles need to be replaced. The consoles for each department should all be done at the same time.

The Fire Department made a separate request for the 2016 Budget (see Fire Digital Radio System) to replace its consoles.

This request also includes the purchase of an ISSI gateway which will provide a direct connection between the City’s OpenSky system and the County’s radio system. Only one ISSI gateway is required to facilitate communications with the county. The gateway can be used by both the Police and Fire Departments. Maintenance of the gateway is expected to cost \$5,000 annually.

The equipment is expected to have a useful life of seven years. (per the Fire Department request).

Capital Request History – Radio Dispatch Console Upgrades

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$3,750,000	2016	\$3,750,000	2016	8 of 16

911 Network Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		72,000		72,000		
Total		\$72,000		\$72,000		

This is a new one year project for 2016 to upgrade the 911 network. The project was funded as requested in 2016. **No additional funding has been requested for 2017.**

DOA-ITMD has recommended that the Police Department replace the switches, routers, power supplies and licenses for both the 911 and the MPD systems.

Capital Request History – 911 Network Upgrade

Annual Request		Six-Year Request		Priority	
2017	No request	2017	No request	2017	No request
2016	\$72,000	2016	\$72,000	2016	10 of 16

Upgrade CAD System

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		1,300,000		1,300,000		
Total		\$1,300,000		\$1,300,000		

This project was first requested for 2015. It is a one year project to upgrade the department’s computer aided dispatch (CAD) software. The department currently uses v2.4 of the Tiburon CAD system. This project will upgrade to v2.8. The system is expected to have a useful life between 6 and 15 years.

The project was not funded in 2015. The project was funded as requested in 2016. **No additional funding has been requested for 2017.**

Capital Request History – Upgrade CAD System

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$1,300,000	2016	\$1,300,000	2016	11 of 16
2015	\$1,300,000	2015	\$1,300,000	2015	4 of 10

MediaSolv Camera Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		250,000		250,000		
Total		\$250,000		\$250,000		

This is a new one year project 2016 to upgrade interview room cameras. The project was funded as requested in 2016. **No additional funding has been requested for 2017.**

The current system which was purchased in 2010 utilized analog technology. The new system will provide higher quality recordings, indexing and audit features which will help ensure the integrity of video evidence. The new digital equipment will not require cabling for power and coax cables, making installation more cost effective than the previous system.

Capital Request History – MediaSolv Camera Upgrade

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$250,000	2016	\$250,000	2016	13 of 16

Warrants and Alerts Application System

This was a new request for 2016 for a one year project that would allow the department to retire its mainframe. **The project was not funded in 2016. No request was submitted for 2017.**

The Municipal Court and the Police Department share access to a mainframe that contains information relative to warrants and commitments. The Court has developed a system for transmitting this information that has replaced the old mainframe system. Warrant information is still saved to the mainframe so that the Police Department can access it. This project will develop the data entry capability and the interfaces the Police Department needs to access the Court’s new application. The project will also migrate data off of the mainframe.

Capital Request History – Warrants and Alerts Application System

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$350,000	2016	\$350,000	2016	9 of 16

Quarter Master System

This was a new request for 2016 for a one year project to purchase an inventory control system. The system would facilitate reporting of inventory for audit and grant purposes. **The project was not funded in 2016. No request was submitted for 2017.**

The system will require significant annual maintenance. An estimate of the annual cost was not included in the request. The system may provide a reduction in operating costs and may result in increased productivity. These effects were not quantified in the request.

Capital Request History – Quarter Master System

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$35,000	2016	\$35,000	2016	14 Of 16

District 3 Parking Deck Repair

The 2015 Budget included \$3.6 million of budgetary authority to replace the upper level of the parking structure in anticipation of the resolution of litigation. This account is not funded with general obligation debt. The revenue source is expected to be the proceeds from a judgment.

The 11-year-old structure at the Data/Communications Center is in need of significant repairs. The entire upper level has been closed since approximately June 30, 2011. It has been determined that the majority of the upper level will need to be replaced. Based on preliminary designs, actual construction is expected to take 3 to 4 months.

Multi-Factor Authentication

This project was requested and funded in 2013 (\$325,000) to pay for upgrades that are required by the Department of Justice in order to access the Criminal Justice Information System (CJIS) from remote locations, such as during traffic stops. Expenditures through the end of 2013 totaled \$293,800. **No additional funding has been requested.**

Background

The Criminal Justice Information System (CJIS) provides state, local, and federal law enforcement and criminal justice agencies with access to critical, personal information such as fingerprint records, criminal histories, and sex offender registrations. In order to prevent unauthorized access to this extremely sensitive information, a security policy governing the access to the CJIS database was enacted on January 1, 2011. CJIS compliance information was set in a mandate released by the FBI. The mandate

sets forth the minimum requirements for securing access to the data included within CJIS. Public safety, judicial, and correctional institutions must comply or face administrative sanctions and/or criminal penalties.

Multi-Factor Authentication provides for additional security to the typical user identification and authentication of login ID and password. Authentication methods can include: biometric systems, user-based public key infrastructure (PKI), smart cards, software tokens, hardware tokens, paper (inert) tokens, or "Risk-based Authentication" that includes a software token element comprised of a number of factors, such as network information, user information, positive device identification (i.e. device forensics, user pattern analysis and user binding), user profiling, and high-risk challenge/response questions.

A copy of the Criminal Justice System Security policy has been provided by the department.

Tiburon RMS VMP Record System

The 2011 Budget included \$354,000 to upgrade the Tiburon RMS VMP record system from version 7.4.1 to 7.6. Modules to be upgraded include LawRECORDS and Jail RECORDS. The upgrades would have increased system capacity and performance and provided greater flexibility in reporting and analysis. Prior to implementing the upgrades, the IT Division of MPD conducted a comprehensive business requirements assessment of the MPD's records management system. It was determined that the planned upgrades would not be sufficient to support the department's needs.

The department subsequently requested funding to replace the entire record management system. **(See the Record Management System request for additional information on the project).** Funds budgeted in this account may be used to contribute to the overall upgrade of the Police Department RMS System. As of December 2013, \$68,300 had been expended from this account.

Vehicle Mobile Data Computers/DVR Upgrade Project

This was a new two year request in 2013 to fund the replacement of the mobile computers in 320 squad cars (160 vehicles in 2013 and 160 in 2014) for a total estimate cost of \$3 million. The project would have upgraded the DVR equipment in squad cars. Events recorded include traffic stops, DUIs, scene dictation, tactical setups, crime scene interviews, and covert recording of detainees within the vehicle.

This request did not receive funding in 2013. The Common Council provided \$900,000 in contingent funds late in 2012 to replace approximately 140 mobile DVRs. Replacement was completed in March 2013. The department estimated that an additional \$2 million would be required to replace mobile data computers. No request was submitted for 2014. **This request was resubmitted with a different title in 2015 and 2016 – see Mobile Data Computer (MDC) Upgrades.**

Safety Academy Expansion

This project was first requested in 2013. It did not receive funding in the 2013 Budget. **No request was submitted since 2013.**

The project would develop the 17 acre parcel adjacent to the Safety Academy that the City obtained through the *in rem* process in 2011 to expand the Safety Academy to provide better/more training opportunities for its staff. Eppstein Uhen Architects evaluated the structures on the property and

determined that most are in poor condition. The structures will require abatement for lead and asbestos.

Funding in 2013 would have paid to remove and remediate the existing buildings, eliminate site hazards and conduct a feasibility study. The Capital Improvements Committee recommended funding for a study. No funding was provided in the 2013 Budget.

The department has stated that they are still interested in pursuing the project. Approximately \$100,000 from the District Station Repairs capital account will be used for planning in 2016.

The total six-year request submitted in 2013 was for \$13.1 million.

Job Scheduling Software

This was a new request for a one year project in 2015 to purchase job scheduling software. The software would have scheduled computing jobs within various IT systems in the Police Department. This is not personnel scheduling software. **The project was not funded in 2015. No request was submitted for 2016 or 2017.**

Workforce Management System

This was a new one year project requested in 2014 to purchase an “off the shelf” workforce management system to manage employee time and attendance and facilitate scheduling needs that are specific to law enforcement. The system would directly interact with PeopleSoft Payroll and Time Entry Replacement. The department estimated savings of \$400,000 annually of District Supervisory time. **The project was not funded in 2014. No request has been submitted since 2014.**

Annual maintenance costs, which will begin after the one year warranty expires, will be included in the department’s operating budget. No estimate of the costs was provided. The expected 3 year payback period does not appear to have included any annual maintenance costs. The system would have required additional equipment or infrastructure that was not included in the capital request.

Safety Academy Modifications

Funding was provided in 2013 (\$40,000) to evaluate and upgrade the security system at the Safety Academy. Modifications to Room 182 which is used for training events were **not funded** in 2013. Room 182 is a large multi-purpose room that is used by both MPD and MFD for training. This project would have installed a moveable partition so the room could accommodate two smaller training events simultaneously. It would also install audio visual equipment that would allow participants near the rear of the room to see and hear more clearly. The estimated cost of this project is \$105,000. Depending on the results of the security system evaluation, additional funding may be required to complete the recommended upgrades. **No request has been submitted since 2013.**

Computer Systems Management Solution

This was a new one year project requested in 2013 to track the Police Department’s computer hardware inventory and manage software licenses to ensure audit compliance. It would also have allowed the mobile data computers, tablets, cell phones and smartphones that are used by the department to be updated and managed remotely. **The project was not funded in 2013. No request has been submitted since 2013.**

Data/Communication Center Repairs

This was a new request in 2013 to fund various projects at the Data/Communications Center. In 2013, funding was allocated (\$195,000) to the replacement of uninterruptable power supply batteries and epoxy coating for the lower garage floor.

Two additional projects, the construction of a restroom and a janitor's closet on the 3rd floor were requested in 2013, 2014 and 2015. The projects were not funded. Currently the 3rd floor restrooms are located within the secure perimeter of the 911 Telecommunications Dispatch Center. U.S. Dept. of Justice, FBI CJIS security protocols require that the restrooms be outside the secure perimeter. The 2016 request includes this project in the District Repairs program.

Repairs for the parking structure at the Communication Center were requested in this program in 2013. The garage became the subject of litigation and repairs were funded in 2015 in a separate capital account (See District 3 Parking Deck Repairs) **No request was submitted for 2016 or 2017.**

Automated Fingerprint ID System

This project, which received \$2.3 million of funding in 2010, was **completed in June 2011**. Through the end of 2012 \$2.66 million has been expended. \$87,716 of general obligation borrowing authority lapsed in 2014.

Evidence Storage Warehouse

Since 2004, \$2.5 million has been budgeted for improvements at the evidence storage warehouse. **No additional funding has been requested since 2012.**

Recently funded projects included replacement of the freight elevator (2012), storage and security upgrades (2011) and upgrades to the fire suppression system (2010 and 2011)

911 System Replacement

The installation of the 911 System Replacement was originally funded in 2009 (\$5 million). MPD expected the system to be fully operational by the end of 2011. Through the end of 2013, \$4.45 million has been expended. The remaining funding has lapsed. No request has been submitted since at least 2010.

In February 2014, the Common Council authorized \$208,000 of contingent borrowing to complete the system. \$80,000 of that amount was to correct for a bookkeeping error related to pre-paid maintenance and the remainder was for the completion of the system.

Major Capital Equipment

The new request for 2011 would have purchased a front end loader to with a 1.5 yard bucket to be used for snow removal at the Safety Academy and other Police Department locations. The department estimated that the purchase would have a 6 year payback period. The department contracts for snow removal. Discussions on this request included concerns about union operators and the existence of spare equipment at DPW. **The request was not funded in the 2011 Budget. No additional request has been submitted.**

Port of Milwaukee

Year	Revenue	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				*\$900,000	(80%)	
2016	4,000,000	400,000	800,000	4,400,000	144%	
2015		1,000,000	800,000	1,800,000	140%	
2014		750,000		750,000	(30%)	237,916
2013		1,075,000		1,075,000	378%	182,395
2012		225,000		225,000		1,000,774
2011		0		0	(100%)	1,108,133
2010		0	400,000	400,000	(86%)	204,698
2009		1,500,000	1,450,000	2,950,000	127%	561,035
2008		500,000	800,000	1,300,000		669,750
2007						250,024
Total	\$4,000,000	\$5,450,000	\$4,250,000	\$12,900,000		\$4,214,725

*2017 request excludes grant funding

The Port of Milwaukee has submitted 5 capital requests for funding in 2017. The total six-year request, excluding grant funding, is \$10,520,000 and represents an increase of \$450,000 (4%) from last year's six-year request.

A number of the Port's programs provide matching funds for grants. The 2017 request includes \$400,000 in grant funding for the Pier, Berth and Channel program. The six-year request includes \$7.1 million in projected grants including \$2.08 million for the City Heavy Lift Dock (2018) and \$1.4 million for the Transload Facility (2021).

Special Funds which have similar purposes to some of the Port's capital programs make operating funds available. Average budgeted funding in the Special Funds from 2011 through 2016 is \$522,000. Expenditures from 2010 through 2014 average \$437,000. (see chart on next page)

Since 2013, the majority of the capital program has been focused on upgrading the rail tracks and switches. In 2011 and 2012 nearly 75% of the Port's capital expenditures were related to Port Security. In 2008, nearly 95% of the Port's capital expenditures were related to the Pier Wisconsin Pier Dockage project.

The 2017 request combines Terminal Resurfacing and Roadway Paving into a single request titled Pavement Surfacing.

The most recent 3 Year Statement of Intentions for Port activities can be found as an attachment to Common Council file 151752.

The Port recently reported on the condition of its dockwalls. That report can be found in Common Council file 151363.

Capital Request Summary							
Project/Program	2017	2018	2019	2020	2021	2022	Six-Year Total
Rail Track and Service Upgrades	500,000		100,000		100,000		\$700,000
Dockwall Rehabilitation	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Demolish Expired Leasehold Facilities	50,000		100,000		100,000		\$250,000
Pier Berth & Channel Improvements	100,000	200,000	200,000	200,000	200,000		\$900,000
Port Security							
Cargo Handling Equipment						5,000,000	\$5,000,000
Pavement Surfacing	50,000	350,000			100,000		500,000
Rehab Electrical Service S. Harbor Tract		100,000			100,000		\$200,000
Energy Initiative		100,000		100,000		500,000	\$700,000
Harbor Maintenance Dredging		50,000			150,000		\$200,000
Secured Ferry Terminal Parking							
City Heavy Lift Dock Improvements		520,000					\$520,000
Transload Terminal					350,000		\$350,000
TOTAL	\$900,000	\$1,520,000	\$600,000	\$500,000	\$1,300,000	\$5,700,000	\$10,520,000

Port of Milwaukee Special Funds*						
	2011 <i>Actual</i>	2012 <i>Actual</i>	2013 <i>Actual</i>	2014 <i>Actual</i>	2015 <i>Budget</i>	2016 <i>Budget</i>
Major Maintenance – Terminals & Piers	\$110,072	\$101,240	\$56,053	\$172,118	\$100,000	\$80,000
Major Rehab & Upgrades – Equipment	71,856	51,725	89,633	58,730	50,000	50,000
Environmental Cleanup Fund	37,646	37,419	48,217	0	100,000	100,000
Harbor Maintenance Dredging				0	25,000	0
Equipment Rehab & Upgrade	113,932	74,753	157,663	108,405	75,000	75,000
Dockwall & Breakwater Rehabilitation	29,221		61,146	44,213	50,000	50,000
Energy Efficiency Upgrade	31,338	22,265		50,000		20,000
Leasehold Demolition	12,701			24,500	150,000	150,000
Sewer System Upgrade	24,198	35,437	5,6510	75,043		25,000
Harbor Security		46,859				
Total *	\$430,964	\$369,698	\$469,222	\$500,000	\$550,000	\$550,000

**This table excludes Summerfest related special funds*

Rail Track and Service Upgrades

1 of 5

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$500,000	25%	
2016		400,000		400,000	(20%)	
2015		500,000		500,000		110,031
2014		500,000		500,000	100%	220,562
2013		250,000		250,000		122,395
2012				0		0
2011				0		84,320
2010				0		0
2009				0		0
2008				0		0
2007	100,000		100,000	200,000		1,066
Total	\$100,000	\$1,650,000	\$100,000	\$1,850,000		\$428,343

This program provides funding to upgrade the Port's 17 miles of rail track system on an on-going basis to meet modern-day safety and service-load requirements. Replacing the track also provides the opportunity to alter the grade of the rail line to minimize the impact of seasonal flooding.

The Port began a railroad-crossing replacement program in 2013. The Port is also developing a 5-year program to upgrade track from 90 lb. rails to 110 lb. or 115 lb. rails. The Port entered into a service agreement with Knapp Railroad Builders, Inc. to facilitate track maintenance and upgrades. The original agreement expired in December, 2013. The Port has exercised options to extend the contract.

With funding provided since 2013 the Port replaced 1,980 feet of 90 lb rail with 110/115 lb rail, rebuilt four switches, 3 crossings and replaced 800 ties

Request Summary – 2017

2017	\$500,000
2018	
2019	\$100,000
2020	
2021	\$100,00
2022	
Total	\$700,000

The Port received a \$1.8 million WisDOT grant for the rehabilitation of the Lake Classification Yard

Capital Request History – Rail Track and Service Upgrades

Annual Request		Six-Year Request		Priority	
2017	\$500,000	2017	\$700,000 (2017, 2019, 2021)	2017	1 of 5
2016	\$400,000	2016	\$1,100,000 (2016, 2017, 2019, 2021)	2016	1 of 16
2015	\$500,000	2015	\$1,200,000 (2015, 2016, 2018, 2020)	2015	1 of 16
2014	\$500,000	2014	\$1,500,000 (2014-2016)	2014	1 of 16
2013	\$250,000	2013	\$450,000 (2013, 2015, 2017)	2013	4 of 19
2012	\$0	2012	\$300,000 (2013, 2015, 2017)	2012	5 of 18
2011	\$0	2011	\$200,000 (2012, 2014)	2011	5 of 13

Dock Wall Rehabilitation

2 of 5

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$200,000		
Request						
2016						
2015		150,000		150,000		
2014				0		0
2013				0		10,000
2012		150,000		150,000		0
2011				0		0
2010				0		137,207
2009		150,000		150,000		353,286
2008				0		0
2007		250,000		250,000		30,821
Total		\$700,000		\$700,000		\$531,314

The purpose of this program is to avert costly emergency repairs and to maintain the dockwall in appropriate condition for cargo operations. Lease documents often require the City to maintain dock walls for its tenants. Loss of revenue to the City may result if the dock walls are not kept in a safe and useable condition.

Carryover

This program had \$150,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$218,000.

Special Fund		
Dockwall and Breakwater Rehab		
Year	Budget	Actual
2016	\$50,000	
2015	\$50,000	
2014	\$100,000	\$44,213
2013	\$70,000	\$61,146
2012	\$100,000	\$29,221
2011	\$100,000	\$0
2010	\$	\$31,978

Since 2004, this program has received \$950,000 in general obligation borrowing authority. The Port also receives O&M funding through a special fund to maintain its dock walls. Recent O&M budgeted funding and actual expenditures are shown in the table below.

Approximately 250 feet of dockwall at Terminal 1 and 75 feet of dockwall in the mooring basin were repaired in 2014. The cost for both projects was approximately \$95,000. Additional dock walls in the mooring basin and Terminal 2 were scheduled to be repaired in 2015.

Capital Request History – Dockwall Rehabilitation

Annual Request		Six-Year Request		Priority	
2017	\$200,000	2017	\$1,200,000	2017	2 of 5
2016	\$100,000	2016	\$850,000	2016	2 of 14
2015	\$150,000	2015	\$900,000	2015	3 of 14
2014	\$150,000	2014	\$900,000	2014	4 of 16
2013	\$150,000	2013	\$900,000	2013	5 of 19
2012	\$150,000	2012	\$900,000	2012	3 of 18
2011	\$150,000	2011	\$900,000	2011	3 of 13

Demolish/Rehabilitate Port Facilities

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$50,000	%	
Request						
2016						
2015						
2014		50,000*		50,000*		
2013						
2012						
2011						32,780*
2010						
2009						
2008		100,000*		100,000*		
2007						
Total		\$150,000		\$150,000		\$32,780

*Budgeted in the Port Facilities Systems Capital Account

Special Fund		
Leasehold Demolitions		
Year	Budget	Actual
2016	\$150,000	
2015	\$150,000	
2014	\$0	\$24,500
2013	\$10,000	\$0
2012	\$400,000	\$0
2011	\$40,000	\$12,701
2010	\$84,000	\$2,223

This program funds work to make Port-owned properties more marketable to prospective tenants when the leases of existing tenants expire. In 2015, the Port combined the capital requests for Demolish/Rehabilitate

Expired Leaseholds and Port Facilities Systems into this new capital account. No potential projects were listed in the request.

Capital funding is used to supplement special funds which are provided in the Port's operating budget. Recent budgeted funding and actual expenditures are shown in the tables below.

Special Fund		
Major Maint – Terminals & Piers		
Year	Budget	Actual
2016	\$800,000	
2015	\$100,000	
2014	\$125,000	\$172,118
2013	\$110,000	\$56,053
2012	\$100,000	\$101,240
2011	\$100,000	\$110,072
2010	\$75,000	\$95,000

Capital Request History - Demolish/Rehab Port Facilities

Annual Request		Six-Year Request		Priority	
2017	\$50,000	2017	\$250,000 (2017, 2019, 2021)	2017	3 of 10
2016	\$100,000	2016	\$300,000 (2016, 2019)	2016	3 of 14
2015	\$250,000	2015	\$450,000 (2015, 2016, 2017)	2015	5 of 14
2014	*\$100,000	2014	*\$400,000	2014	
2013	*\$300,000	2013	*\$700,000	2013	
2012	\$0	2012	*\$500,000	2012	
2011	\$0	2011	*\$300,000	2011	

*Combined Port Facilities Systems and Demolish Expired Leaseholds

Pier Berth and Channel Improvements

4 of 5

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$100,000		
Request						
2016		0	800,000	800,000		
2015		0	800,000	800,000	300%	
2014		200,000		200,000	(80%)	0
2013		200,000	800,000	1,000,000	(25%)	0
2012		0	800,000	800,000		6,109
2011		0	0	0		0
2010		0	400,000	400,000	(60%)	0
2009		200,000	800,000	1,000,000	100%	0
2008		100,000	400,000	500,000	(75%)	0
2007		400,000	1,600,000	2,000,000		173,875
Total		\$1,100,000	\$6,400,000*	\$8,500,000		\$179,984

*Grant funding is projected and may not reflect actual funding received.

This program provides funding for improvements to the mooring basin, the City's heavy lift dock and the outer harbor. This program is funded in part by a grant program through the Department of Transportation's Bureau of Railroads and Harbors. Approximately 80% of the cost of improvements will be paid by the grant with the City providing 20% of the total funding. This program provides the match for grant funding.

Carryover

This program had \$400,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$522,000.

No projects were identified in the request. No Harbor Assistance grants were received in 2013 or 2014.

Capital Request History – Pier, Berth and Channel Improvements

Annual Request		Six-Year Request		Priority	
2017	\$100,000	2017	\$900,000	2017	4 of 5
2016	\$200,000	2016	\$1,200,000	2016	4 of 14
2015	\$200,000	2015	\$1,200,000	2015	7 of 14
2014	\$200,000	2014	\$1,200,000	2014	5 of 16
2013	\$200,000	2013	\$1,200,000	2013	1 of 19
2012	\$200,000	2012	\$1,200,000	2012	1 of 18
2011	\$200,000	2011	\$1,200,000	2011	2 of 13

(Excludes Grant Funding)

Pavement Surfacing*

5 of 5

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$50,000		
Request						
2016						
2015		350,000		350,000		
2014						10,008
2013		250,000		250,000		50,000
2012						20,893
2011						35,175+
						11,5785
2010						12,763
2009		250,000		250,000	150%	9,859
2008		100,000		100,000		0
2007						
Total		\$950,000		\$950,000		\$254,483

*Funding prior to 2016 is from the Terminal Resurfacing & Roadway Paving accounts which were combined in the 2017 request with the title Pavement Surfacing

This is a new request that combines two paving related requests.

The Roadway Paving program provided funding for the maintenance of roadways on Jones Island and the South Harbor Tract. These roadways are not maintained by DPW on a regular basis. Because they are not public thoroughfares, they are not eligible to be paid for with funds from the Motor Vehicle Registration Fee. The Terminal Resurfacing program provided funds to make pavement repairs at the Port's terminals.

The roadway and the City operated parking lot for the Ferry Terminal were partly resurfaced in 2014. Public space at the Ferry Terminal and a roadway in the Mooring Basin were also resurfaced in 2014.

The Port has been working with DPW to evaluate the condition of the Port's facilities. An interim report can be found in Common Council File 121728. One of the findings in the report indicated that the Bulk Terminal pavement exhibited significant alligator cracking. It was evaluated as being in "fair" condition. The capital request indicates that the condition of the pavement has deteriorated due to the severity of the winter.

Capital Request History - Pavement Surfacing

Annual Request		Six-Year Request		Priority	
2017	\$50,000	2017	\$500,000	2017	5 of 5
2016		2016		2016	

Out Year Requests

City Heavy Lift Dock Improvements

Out Year (2018)

This is a request for a two year project to increase the length and weight bearing capacity of the heavy lift dock. A capital request was first submitted in 2012 anticipating the need for funding in 2015. No capital funding has been provided. Funding is now requested for **2018**. The request includes \$520,000 of City funding and \$2,080,000 of grant funding. Funding will provide the City's match (20%) of the Harbor Assistance Grant.

Energy Efficiency Upgrades

Out year (2018, 2020, 2022)

This program has received no capital funding. A capital request was first submitted in 2011. Funding is requested for **2018, 2020 and 2022**. (\$700,000 total) Funding would pay for aluminum coated roofs on Port Buildings. To date only one roof has been identified as suitable for replacement under this program. The Port has worked with DPW to determine the timing for roof replacements.

The Budget contains a special fund for energy efficiency upgrades that can be used to supplement capital funding. Recent budgeted funding and actual expenditures are shown in the table.

Special Fund		
Energy Efficiency Upgrades		
Year	Budget	Actual
2016	\$20,000	
2015	\$0	
2014	50,000	\$50,000
2013	\$0	\$0
2012	\$0	\$22,265
2011	\$0	\$31,338
2010	\$50,000	\$52,000

Harbor Maintenance Dredging

Out Year (2018, 2021)

This program provides funding to maintain the navigation channels in certain areas of the harbor. Funding is requested for **2018** and **2021**, (\$50,000 and \$150,000 respectively). No capital funding has been provided since 2008 when \$100,000 was budgeted. That authority has since lapsed.

The Budget contains a special fund for dredging that can be used to supplement capital funding. Recent budgeted funding and actual expenditures are shown in the table.

Special Fund		
Harbor Maintenance Dredging		
Year	Budget	Actual
2016	\$0	
2015	\$25,000	
2014	\$25,000	\$0
2013	\$50,000	\$0
2012	\$50,000	\$0
2011	\$50,000	\$0
2010	\$50,000	\$46,500

Rehab Electrical Services – South Harbor Tract

Out Year (2018, 2021)

This project received \$100,000 in funding in 2008. The 2017 request is for \$100,000 in **2018** and **2021**, to complete Phase III of the project. Phase I and Phase II were completed in 2010 and 2011 respectively. The final phase of the project has been delayed for two additional years "due to the critical nature of other proposed Port capital projects". Expenditures on the first two phases totaled \$49,000. Approximately \$50,000 in general obligation borrowing authority lapsed in this account in 2013.

Transload Terminal**Out Year (2021)**

This was a new request in 2012 for funding in 2014. The 2015 request moved the funding (\$350,000) to 2020. The project is currently scheduled for **2021**. The construction of a transload terminal would provide intermodal transportation between rail/truck modes and water modes (ferry/barge). The project is grant dependent and will not move forward unless grant funding can be secured. Grant funding is anticipated to be \$1.4 million. The development and construction of the facility are expected to take three years.

New Crane/Heavy Lift Equipment**Out Year 2022**

Year	Revenue	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016	4,000,000			4,000,000		
2015				0		
Total	\$4,000,000			\$4,000,000		

The purchase of a new heavy-lift crane has been in the City’s capital plan since at least 2009. The Port plans to purchase a crawler crane similar to its Manitowoc 4100. The crane will have a maximum lifting capacity of 230 tons and a 250-foot heavy-lift boom. The new crane will replace a Lima Crawler that was purchased in 1971 and has been out of service for over 5 years. The newly-purchased crane will be the main shore crane used for everyday cargo work.

The Port has developed specifications for the crane. The specifications are complete and have been given to DOA – Purchasing. Delivery is expected in March, 2016.

The crane will likely be purchased using redevelopment bonds. The Port continues to seek grant funding to offset the cost of the crane, but none has been identified yet.

The Ports six year capital request includes \$5 million for a new crane in 2022.

Capital Request History – New Crane / Heavy Lift Equipment

Annual Request		Six-Year Request		Priority	
2017		2017	\$5,000,000	2017	
2016	\$0	2016	\$4,000,000	2016	6 of 14
2015	\$0	2015	\$4,000,000	2015	8 of 14
2014	\$4,000,000	2014	\$4,000,000	2014	2 of 16
2013	\$0	2013	\$4,000,000 (2014)	2013	12 of 19
2012	\$0	2012	\$4,000,000 (2013)	2012	4 of 18
2011	\$0	2011	\$4,000,000 (2012)	2011	4 of 13

Project/Account Updates

Port Security

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014				0		7,346
2013		50,000		50,000		0
2012				0		726,387
2011				0		811,054
2010				0		0
2009		400,000	650,000	1,050,000		0
2008				0		0
2007				0		11,411
Total		\$450,000	\$650,000	\$1,100,000		\$1,556,198

This program is used to implement security measures and mandates enacted by the Department of Homeland Security and the U.S. Coast Guard. From 2004 through 2006, this program received a total of \$450,000 in funding. **No request was received for 2017.**

Since 2004, \$900,000 has been budgeted in this account. The 2013 Budget provided \$50,000. A \$25,000 contract to provide security training to Port staff was awarded in 2013.

A total of \$475,000 in general obligation borrowing authority has lapsed in this account since 2008, including \$239,400 that lapsed in 2013.

A significant portion (75%) of the Port's capital expenditures for 2011 and 2012 were related to Port Security. Between 2000 and 2013, the City has budgeted \$900,000 in capital funds for Port Security and leveraged grant funding to make \$1.8 million of security upgrades.

Special Fund Port Security		
Year	Budget	Actual
2016	\$0	
2015	\$0	
2014	\$0	\$0
2013	\$0	\$0
2012	\$0	\$46,859
2011	\$0	\$0
2010	\$0	\$19,664

Capital Request History – Port Security (excluding grant funding)

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016	\$50,000	2016	\$450,000	2016	5 of 14
2015	\$100,000	2015	\$600,000	2015	6 of 14
2014	\$50,000	2014	\$550,000	2014	7 of 16
2013	\$100,000	2013	\$600,000	2013	11 of 19
2012	\$100,000	2012	\$600,000	2012	15 of 18
2011	\$100,000	2011	\$600,000	2011	11 of 13

Terminal Resurfacing

The 2017 request combined this account with the Roadway Paving account (see the request for Pavement Surfacing).

Roadway Paving

The 2017 request combined this account with the Terminal Resurfacing account (see the request for Pavement Surfacing).

Secured Ferry Terminal Parking

This project will provide improvements to the long term parking facilities in support of the Port's passenger operations. This program has received a total of \$400,000 in capital funding; \$200,000 each year in 2005 and 2006. The City's lease with the ferry operator requires the City to build additional facilities as they are needed. In 2012 the Port requested funding for 2013. **No request was submitted for 2017.** This account has no carryover borrowing authority.

Port Facilities Systems

This program provided funding to do major maintenance repairs to terminals and piers. This fund was also used to do emergency work as required for projects which exceed special funds set aside for Major Maintenance. This capital account was combined with the Demolish/Rehab Expired Leasehold Facilities into a new capital account in 2015. (see the request for Demolish/Rehab Port Facilities)

This program received \$100,000 of funding in 2008 and \$50,000 in 2014. The Budget contains a special fund related to equipment rehabilitation and upgrades that can be used to supplement capital funding.

Demolish/Rehabilitate Expired Leasehold Facilities

This program has received no capital funding. A request was first received in 2012 anticipating the need for funding in 2013. This capital account has been combined with the Port Facilities Systems request into a new capital account in 2015. (see the request for Demolish/Rehab Port Facilities). The Budget contains a special fund for dredging that can be used to supplement capital funding.

Analyze and Upgrade Sewer System

This program provides for the inspection and rehabilitation of the Port's sewer system to ensure that it remains in compliance with state and federal regulations.

This program has not received capital funding since 2005. A request for \$150,000 was submitted for 2014. No funding was provided. **No request was submitted in 2015, 2016 or 2017.** There have been no recent expenditures. Since 2000, this program has received \$200,000 in funding; \$50,000 in 2001 and \$150,000 in 2005. \$79,500 in general obligation borrowing authority lapsed in 2009.

Special Fund		
Sewer System Upgrade		
Year	Budget	Actual
2016	\$25,000	
2015	\$0	
2014	\$50,000	\$75,043
2013	\$0	\$5,651
2012	\$30,000	\$35,437
2011	\$30,000	\$24,198
2010	\$75,000	\$1,041

Cargo Handling Equipment Rehabilitation and Upgrade

This program received \$50,000 of funding in 2005 and \$500,000 in 2009. \$500,000 was requested in 2013 to pay for major overhauls of cranes and/or the purchase of wind cargo equipment. No funding was included in the 2013 Budget. **No request has been submitted since 2013.** Over \$114,000 of general obligation borrowing authority has lapsed in this account since 2009. This account has no carryover borrowing authority. Actual expenditures since 2007 have totaled \$314,400.

The Budget contains two special funds related to equipment rehabilitation and upgrades that can be used to supplement capital funding. Recent budgeted funding and actual expenditures are shown in the tables.

Special Fund		
Major Rehab & Upgrades - Equipment		
Year	Budget	Actual
2016	\$50,000	
2015	\$50,000	
2014	\$50,000	\$58,730
2013	\$50,000	\$89,633
2012	\$50,000	\$51,725
2011	\$50,000	\$71,856
2010	\$50,000	\$43,615

Special Fund		
Equipment Rehab & Upgrade		
Year	Budget	Actual
2016	\$75,000	
2015	\$75,000	
2014	\$100,000	\$108,405
2013	\$100,000	\$157,663
2012	\$75,000	\$74,753
2011	\$75,000	\$113,932
2010	\$100,000	\$51,540

Liquid Cargo Pier

This capital account provided supplemental funding for the liquid cargo pier project. A Harbor Assistance grant was received to rehabilitate the Liquid Cargo Pier. The total project cost was estimated to be \$1.5 million. The grant funded 80% of the project. The City's 20% match (\$300,000) came from the Port's Pier, Berth and Channel capital account. Additional damage to the pier was discovered during the development of the rehabilitation project. Repairing the damage was not an eligible expense under terms of the grant. In 2013, \$250,000 was budgeted in this capital account to pay for the additional repairs.

The project's grant funding was awarded in 2007, but the project was deferred because the Port did not have a tenant. In May 2014, The Port signed a lease with U.S. Venture Inc. (Common Council File 140036) which runs through December 31, 2024. The terms of the grant require that the pier be kept in service for 20 years. The estimated completion date for the project is December 2016. U.S Ventures Inc. will be consulted to coordinate work on the pier but they will not be part of the contract work.

No request for additional funding has been received.

Confined Disposal Facility Expansion

This program provides funding for the recovery of land by way of land fill. It sustains the continued restoration of confined disposal facilities into marketable waterfront development sites. Funding for this program was historically titled "Acquire and Rehab KK River Site". In 2005, the title was changed to "Confined Disposal Facility Expansion".

Since 2005, this project has received \$400,000 in funding. (\$175,000, \$75,000 and \$75,000 in 2005, 2006, and 2012; respectively) Funding in the program is intended to supplement the work done by the U.S. Army Corps of Engineers, which was recently completed. The Port's expenditures will begin now that the Corps' contract is complete. The Port estimates that the City will be able to use the facility to dispose of dredging material for approximately 20 years.

In 2009, \$127,458 in general obligation borrowing authority lapsed. **No request for additional funding has been submitted.**

DPW Operations – Fleet Services

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$6,725,000		
2016		6,725,000		6,725,000	(5%)	
2015		7,080,000		7,080,000	(6%)	
2014		7,517,000		7,517,000	16%	9,321,906
2013		6,500,000		6,500,000	0.1%	4,291,801
2012		6,495,000		6,495,000	13%	845,555
2011		5,738,000		5,738,000	4%	2,656,208
2010		5,500,000		5,500,000	(13%)	9,193,829
2009		6,302,000		6,302,000	5%	3,272,613
2008		6,000,000		6,000,000	(4%)	4,004,825
2007		6,250,000		6,250,000		9,114,783
Total		64,107,000		64,107,000		42,701,520

The Department of Public Works has submitted one capital request for Operations – Fleet Division for the 2016 Budget. The total six-year request is \$78.8 million and is unchanged from last year’s six-year request.

DPW is continuing to transition its garbage and recycling packers to compressed natural gas (CNG) engines. DPW now has 43 CNG-powered packers in use. The marginal cost of the CNG engines is \$41,000, an increase of \$2,000 (5%) since last year. The department has received a U.S. Dept. of Transportation grant that will pay 80% of the marginal cost to equip 20 new packers with CNG engines.

A CMAQ grant was received in 2014 for a CNG dispensing project which would make the CNG pumps at Ruby Garage available 24/7. It is anticipated that the project will be constructed in 2016.

The 2017 request does not include any automated packers.

The 2014 budget provided \$707,000 for the purchase of equipment to demolish vacant houses. The equipment included an excavator (\$298,000), a trailer (\$59,000), a skeleton bucket (\$10,000) and 2 quad axle dump trucks (\$340,000).

Major Capital Equipment

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$6,725,000	0%	
2016		6,725,000		6,725,000	(6%)	
2015		7,080,000		7,080,000	(6%)	
2014		7,517,000		7,517,000	16%	9,261,774
2013		6,500,000		6,500,000	8%	4,291,801
2012		6,000,000		6,000,000	8%	444,396
2011		5,550,000		5,550,000	1%	2,603,481
2010		5,500,000		5,500,000	(7%)	8,613,122
2009*		5,940,000		5,940,000	(1%)	3,263,146
2008*		6,000,000		6,000,000	(2%)	4,004,825
2007*		6,100,000		6,100,000		9,114,783
Total		\$62,912,000		\$62,912,000		\$41,597,328

*Budgeted in DPW Building Projects

This program provides for equipment that exceeds \$50,000 and has a life expectancy of at least 10 years. The program focuses on equipment replacement for garbage and recycling collection, snow and ice control, and pick-up and dump trucks for use as pool equipment.

Average annual funding since 2002 is \$5.9 million. The table below shows the vehicles requested by the department. Actual equipment purchases may be different depending fleet performance.

Request Summary – 2017

2017	\$6,725,000
2018	\$13,776,000
2019	\$13,776,000
2020	\$14,850,000
2021	\$14,700,000
2022	<u>\$14,950,000</u>
Total	\$78,777,000

Carryover
This program had \$6.6 million of borrowing authority carried over into 2016.
Average carryover for this program since 2007 is \$5.7 million.

The current average age of capital equipment is just over 12 years compared to 9.5 years in 2009. The optimal average age based on the average useful life of equipment is 6.0 years. Older vehicles typically cost more to operate, require more extensive repairs, experience more down time and are less fuel-efficient than newer vehicles. Funding at the requested level is expected to increase the average life of the fleet to

12.3 years. The department submitted proposed equipment lists at several funding levels which would gradually reduce the average age of the fleet.

Compressed Natural Gas (CNG)

In an effort to save money on fuel costs, DPW is beginning in 2011 to transition its garbage and recycling packers to compressed natural gas (CNG) engines. DPW is continuing to transition to CNG engines. DPW now has 43 CNG-powered packers in use. The marginal cost of the CNG engines is \$41,000, an increase of \$2,000 (5%) since last year. The department has received a U.S. Dept. of Transportation grant that

Average Fleet Age		
Sept.	2015	12.2 years
Sept.	2014	12.3 years
Sept.	2013	12.56 years
Oct.	2012	11.8 years
Sept.	2011	11.5 years
	2009	9.5 years

will pay 80% of the marginal cost to equip 20 new packers with CNG engines. The long term effect of CNG on engine life and vehicle replacement cycles is unknown at this time.

In 2014, DPW projected that each CNG packer would save approximately \$6,500 in fuel costs annually. Price changes for both CNG and diesel have narrowed the cost gap. The savings per truck in 2015 was \$1,963 which resulted in an annual savings of \$84,400. The current payback period on the City's investment in CNG engines is just over four years. If grant funding were not available to cover 80% of the marginal cost, the payback period would be longer than the expected life of the vehicle. Changes in fuel prices, however can quickly alter the payback period.

Ventilation and code upgrades are required at all repair facilities to accommodate CNG vehicles. DPW has been able to use CMAQ grant money to make many of the necessary upgrades. The grants typically have an 80/20 cost share. Central Garage is the only repair facility that still requires upgrades. An engineering study would be required to determine the full cost to make the facility code compliant; however, DPW estimated in 2013 that the facility may need \$1.25 million in upgrades.

Year	Savings Per Truck	# of trucks	Annual Savings
2011	\$6,524.56	3	\$19,573
2012	\$6,476.61	21	\$136,008
2013	\$5,664.35	21	\$118,951
2014	\$5,024.74	30	\$150,742
2015	\$1,963.61	43	\$84,435
Total			\$509,711

Automated Packers

The 2015 Budget included \$1.14 million (\$380,000 each) for the purchase of 3 additional, fully-automated pieces of equipment that will enable garbage collection to be performed by one person. The marginal cost for automated packers was \$166,000. DPW has determined that packers with CNG engines are not effective for auto-loading routes because the extended wheelbase makes them too big to maneuver effectively in many alleys. Future auto-loading packers will have diesel engines.

The 2017 request does not include any automated packers.

Demolition Equipment

The 2014 budget provided \$707,000 for the purchase of equipment to demolish vacant houses. The equipment included an excavator, a trailer, a skeleton bucket and 2 quad axle dump trucks. The actual cost of the excavator was \$227,000. Demolition work began on February 5, 2014. Most of the equipment purchased for demolition can be repurposed once demolition activities are complete. The excavator has several alternate uses including pavement removal, moving dirt at the Municipal Nursery or stationary duties at DPW Field Headquarters. The department will utilize the equipment for demolitions in 2016.

Capital Request History – DPW Major Capital Equipment

Annual Request		Six-Year Request		Priority	
2017	\$6,725,000	2017	\$78,777,000	2017	1 of 1
2016	\$6,725,000	2016	\$78,777,000	2016	1 of 1
2015	\$7,517,000	2015	\$50,030,000	2015	1 of 1
2014	\$7,540,000	2014	\$48,801,000	2014	1 of 1
2013	\$12,580,000	2013	\$81,223,940	2013	1 of 2
2012	\$12,105,000	2012	\$78,624,715	2012	1 of 2
2011	\$12,982,000	2011	\$77,674,915	2011	1 of 1

Description of unit	2017			2016			2015			2014			2013		
	Requested	Proposed	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost
Backhoe/Loader	1		130,000				1	1	\$129,000				2	1	\$110,000
Crane, Sidewalk Excavator				1	1	\$287,000									
Sweeper	2		\$223,000	2	2	\$196,000	2	2	\$196,000	2	2	\$196,000	4	2	\$175,000
Stump Cutter				1	1	\$55,000									
Tractors															
Light, Multi-Purpose	4		110,000			\$100,000	2	2	\$100,000	2	0	\$105,000	6	4	\$105,000
Front-End Wheel Loader	2		\$155,000	1	1	\$155,000	1	1	\$155,000				4	1	\$140,000
Trencher w/ Breaker & Trailer				1	1	\$55,000							1		\$55,000
Trucks															
Aerial, 30 Ft, Cargo Body													1	1	\$120,000
Aerial, 36 Ft, Step Van Body													1		\$165,000
Aerial 50 Ft Utility Body	1		180,000			\$180,000	1	1	\$180,000	1	1	\$180,000/ \$205,000			
Aerial, 50 Ft, Chip Box													1		\$185,000
Chipper, Brush						\$53,000	3	3	\$53,000	3	3	\$53,000			
Digger-Derrick	1		\$231,000	1	1	\$220,000	1	1	\$220,000				1		\$220,000
Dump, 16 yard, Tri-Axle	2		\$160,000	2	2	\$160,000	2	2	\$155,000	2	2	\$150,000	5	3	\$148,000
Dump, 2 Yard w/Compressor													1		\$120,000
Dump, 2 Yard w/ Crane	4		\$52,000	8	8	\$52,000	6	6	\$52,000	8	8	\$52,000			
Dump, 5 Yard	2		\$120,000	1	1	\$120,000				1	0	\$120,000			
Dump, 5 Yard, Chip Body													3	1	\$160,000
Dump, 5 Yard w/Underbody Plow	7		\$170,000	6	6	\$170,000	10	6	\$170,000	10	9	\$160,000	8	7	\$160,000
Dump, 5 Yard, Crew Cab													2		\$105,000
Dump, 24 Yard, Chip Body	2		110,000			\$110,000	1	1	\$110,000	2	2	\$110,000/ \$115,000			
Log Loader	1		170,000										1		\$170,000
Platform, Compressor	3		\$82,000	2	2	\$80,000									
Platform, Compressor, Salt, Plow													3	2	\$80,000
Platform Stake, large													1		\$90,000
Roll-Off	2		175,000							2	2	\$165,000	2		\$330,000
Road Patcher						\$250,000	1	1	\$250,000				1		\$230,000
Step Van				1	1	\$120,000							4		\$120,000

Description of unit	2017			2016			2015			2014			2013		
	Requested	Proposed	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost
Wrecker, Heavy Equipment				1	1	\$270,000							1		\$250,000
Vacuum Truck						\$280,000		1	\$280,000						
Packers															
Packer, 25 Yard, Rear Load															
Packer, 25 Yard, Rear load/Recycle	7		\$292,000	7	7	\$285,000	7	7	\$285,000	7	6	\$285,000	17	10	\$285,000
Packer, 25 Yard Rear load w/ auto arm										3	3	\$451,000			
Packer, 27 Yard Automated recycle				3	3	\$380,000	3	3	\$380,000						
Packer, 31 Yard Top Load						\$265,000	1	1	\$265,000	1	1	\$265,000	1		\$260,000
*Excavator											1	\$298,000			
*Trailer											1	\$59,000			
*Skeleton Bucket											2	\$10,000			
Total # of Units				38	38		42	37		44	44		71	33	
<i>*Vehicles for DPW SNIP demolition crew</i>															

Project Updates and Past Requests

Central Repair Back Lot

In 2012 DPW requested \$573,000 to repave the back lot at the Central Repair Garage on Canal Street. The area had poor drainage and was prone to flooding. During heavy rain events, storm water runoff containing oil and fuel remnants would flow over the Hank Aaron State Trail and into the Menomonee River. The Capital Improvements Committee did not recommend funding for this project in 2012.

In 2013 the department again requested \$573,000 for this project. Because of continuing environmental concerns, the Capital improvements Committee recommended that funding for this project be included in the 2013 Budget. **This project was funded in 2014 in the Facilities Exterior Program** and completed in October 2014.

Two Way Radio Replacement

This program provided funding to replace obsolete 2-way radio equipment with equipment that uses the Police Department's M/A-COM Communication Infrastructure (Open Sky). This project has received \$1.2 million in funding since 2007. *(see table below)*

Not all DPW equipment has a communications radio installed. Radios are normally installed in certain larger vehicles such as dump trucks, sweepers, refuse trucks, aerial lifts, and backhoes. Radios are rarely installed in cars, pickups or vans. Installations have been made in over 550 vehicles including vehicles in Fleet, Water and Parking. New radios are being installed in most capital equipment as it is received. Radios have not been installed in any sewer equipment.

GPS is available on any vehicle that has an Open Sky radio installed. The automatic vehicle locator (AVL) system is now operational. DPW is working with the vendor to improve it and add additional features. In 2014, enhancements were made to speed the retrieval of data. A new server will be installed prior to year end to allow the system to operate faster. The system has been used by managers to verify the location of their workforce and to evaluate the speed at which tasks are carried out.

At the end of 2014, \$138,808 remained unexpended.

Year	Tax Levy	Gen Oblig.	Total	Actual
2014				60,132
2013				2,000
2012		495,000	495,000	401,159
2011		238,000	238,000	52,727
2010				580,707
2009		362,000	362,000	9,467
2008				
2007		150,000	150,000	
Total		\$1,245,000	\$1,245,000	\$1,106,192

DPW Operations – Forestry

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$3,615,000	16%	
2016		250,000	2,880,000	3,130,000	14%	
2015	200,000	800,000	2,655,000	3,655,000	14%	
2014	75,000	500,000	2,635,000	3,210,000	(5%)	2,854,663
2013		500,000	2,872,000	3,372,000	6%	2,475,366
2012		447,000	2,747,000	3,194,000	21%	3,093,643
2011		460,000	2,177,500	2,637,500	(29%)	2,778,613
2010		1,042,879	2,678,125	3,721,004	9%	3,807,902
2009	640,000	2,767,000	0	3,407,000	74%	2,957,687
2008	66,200	1,895,235	0	1,961,435	(0%)	2,073,592
2007		1,965,000		1,965,000		1,664,548
Total	\$1,181,200	\$10,627,114	\$18,644,625	\$30,252,939		\$21,706,014

The Department of Public Works has submitted four Forestry related capital requests for the 2017 Budget.

The total six-year request is \$22.1 million and represents a decrease of \$490,000 (2%) from last year's six-year request.

Emerald ash borer continues to spread throughout the City. The department's inoculation program appears to be effectively protecting the City's street trees.

The planting program is falling behind its goal of replacing trees within one year of removal. Currently less than half of removed trees are replaced within 12 months.

Early in 2013 the Common Council enacted an ordinance allowing charges for hazardous tree removal to be classified as special assessments, similar to those levied for street and alley improvements. This will benefit homeowners who are impacted by the emerald ash borer infestation. \$75,000 was provided in the 2014 and 2015 Budgets. No request was submitted for 2017.

No request was submitted for the Vacant Lot Beautification program.

Tree Planting & Production Program

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$1,615,000	15%	
2016			1,400,000	1,400,000	(8%)	
2015		300,000	1,220,000	1,520,000	3%	
2014			1,483,000	1,483,000	(2%)	1,353,222
2013			1,520,000	1,520,000	(4%)	1,229,313
2012			1,584,000	1,584,000	18%	1,460,078
2011			1,347,000	1,347,000	(23%)	1,559,064
2010			1,741,125	1,741,125	16%	1,879,924
2009		1,500,000		1,500,000	35%	1,245,253
2008		1,107,235		1,107,235	5%	1,047,865
2007		1,052,000		1,052,000		980,687
Total		\$3,959,235	\$10,295,125	\$14,254,360		\$10,755,406

This program funds the production and replacement of trees removed in street construction projects, replacement of dead or diseased trees, and the planting of new trees on boulevards.

Since 2010, this program has been funded by the Storm Water Management fee. In 2015, this account was partially funded with general obligation debt. Revenues from the Sewer Fund transfer that would normally have been used to fund this program were used to provide increased support for pruning activities in the operational budget.

The department is requesting funds to replace 4,405 trees lost in 2015 to mortality, disease and paving projects. The expansion of the High Impact Paving Program may have an impact on the number of trees removed for paving.

Request Summary - 2017

2017	\$1,615,000
2018	\$1,700,000
2019	\$1,700,000
2020	\$1,700,000
2021	\$1,700,000
2021	<u>\$1,700,000</u>
Total	\$10,115,000

Carryover
 Since 2010 this program has been funded with revenue from the storm water management fee so there is no carryover borrowing authority.

The department is not meeting its goal of providing a replacement tree within one year of removal. Currently, less than half of removed street trees are replaced within 12 months of removal. 37.6% are replaced between 12 and 18 months, 8.7% are planted between 18 and 24 months and 4% are planted more than 24 months after removal.

Tree planting schedules are largely a function of Urban Forestry Specialist staffing levels, tree availability and stump removal backlogs. The stumping backlog began to grow in 2010. The department ended 2015 with a backlog of 2,427 stumps. The backlog represents 50% of the trees requested for planting in 2016. Funds have been requested for the contract removal of 1,818 stumps annually.

This request funds 31 positions (13.0 FTE); 24 Urban Forestry Staff (9.0 FTE), 1 Urban Forestry Technician (1.0 FTE), and 6 Nursery Staff (3.0 FTE). This is a reduction of 7 positions (2.0 FTE) from the 2013 request.

Tree Planting Request Summary
(# of trees)

Request Year	2009	2010	2011	2012	2013	2014	2015	2016	2017
Tree removal year	2007	2008	2009	2010	2011	2012	2013	2014	2015
Removed for Paving	377		211	417	506	277	669	610	562
Dead/Diseased	3,453		3,244	3,845	3,108	3,934	4,472	4,763	3,843
Sustainable Blvd	1,500		2,450	700	0	0	0	0	0
Emerald Ash Borer							900*		
Unfunded from prev								806	
Total Request	5,330	4,640	5,905	4,962	3,704	4,211	5,151*	6,179	4,405

**EAB replacement trees are not included in the tree planting and production program. A separate capital request for funding to replace them by contract was submitted in 2015*

Capital Request History - Tree Planting & Production

Annual Request		Six-Year Request		Priority	
2017	\$1,615,000	2017	\$10,115,000	2017	1 of 4
2016	\$1,895,000	2016	\$10,045,000	2016	1 of 6
2015	\$1,694,000	2015	\$10,194,000	2015	2 of 7
2014	\$1,483,000	2014	\$10,787,000	2014	1 of 3
2013	\$1,520,000	2013	\$11,653,000	2013	1 of 4
2012	\$1,704,000	2012	\$11,025,000	2012	1 of 3
2011	\$2,300,000	2011	\$12,687,000	2011	1 of 3

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$1,000,000	2%	
2016			980,000	980,000	(2%)	
2015			1,000,000	1,000,000	5%	
2014			952,000	952,000	0%	824,094
2013			952,000	952,000	3%	845,638
2012			923,000	923,000	11%	859,033
2011			830,000	830,000	(11%)	812,899
2010			937,000	937,000	17%	793,856
2009	640,000	160,000		800,000		774,849
2008				0		0
2007				0		0
Total	\$640,000	\$160,000	\$6,574,000	\$7,374,000		\$4,910,369

This program is funded by the Storm Water Management Fee.

There are approximately 570,000 ash trees within the City limits. Approximately 32,500 are street trees in the public right of way. Since 2009, \$7.4 million has been allocated to inoculate 27,000 ash trees against the emerald ash borer. One half of the City’s ash trees, 8” or larger, will be inoculated each year as the City transitions to more disease resistant species. As smaller diameter trees grow into the 8” class, they will be inoculated if they are healthy and not structurally deficient. The department estimates that there are approximately 3,500 trees that could grow into the treatment class.

Carryover

Since 2010 this program has been funded by revenue from the storm water management fee so there is no carryover borrowing authority.

Emerald Ash Borer continues to spread in Southeast Wisconsin. An active infestation on private property within the City limits was confirmed by the Wisconsin Department of Agriculture, Trade and Consumer Protection in July 2012. Since 2012, EAB has been found all across the City but is concentrated in the area roughly bounded by W. Bradley, W. Congress, N. Sherman and N 84th Street. EAB activity has been identified near 4 locations in 2016; 49th & Villard, N 60th & W Burleigh, N 55th & W Bradley, and S. Ahmedi & E Morgan.

DPW estimates that without treatment all ash trees would be infected within 6-8 years. It is hoped that Milwaukee’s aggressive inoculation program will provide benefits to the larger ash tree population in the region by slowing the spread of the beetle. This is especially important when considering the potential for devastating canopy losses on private property and along Milwaukee’s waterways.

Some research indicates that inoculation may be more effective than previously believed and that injections may be effective for up to three years. The department estimates that increasing the injection cycle from 2 years to 3 years would increase the amount of chemical that is required over the long run by one third, offsetting any labor savings that may be realized.

This request supports 15 positions (5 FTE); 12 Urban Forestry Specialists (4.0) and 3 Urban Forestry Managers (1.0 FTE).

Forestry has surveyed private trees in the vicinity of known EAB infestations and has notified property owners of trees confirmed or symptomatic for EAB providing educational materials regarding treatment and removal options. Infested trees quickly lose structural integrity and pose a significant risk of personal injury or property damage, necessitating prompt removal.

An ordinance change in 2013 allows hazardous tree removal charges to be considered a special assessment. This gives property owners the option of paying the bill in full or spreading any unpaid balance across 6 subsequent property tax bills. Property owners for whom the unexpected removal of ash trees is a financial hardship will benefit from this provision. The Hazardous Tree Removal account was created in the 2014 Budget to fund the ordinance change. The number of properties cited for hazardous trees as of October 2014 (411) is significantly higher than in all of 2013 (318) but significantly lower than in 2009 or 2010 (649 and 519 respectively).

The department has received a U.S. Forest Service Tree Canopy Restoration grant to assist property owners with the replanting of trees lost to EAB.

Capital Request History – Emerald Ash Borer Readiness and Response

Annual Request		Six-Year Request		Priority	
2017	\$1,000,000	2017	\$6,000,000	2017	2 of 4
2016	\$1,000,000	2016	\$6,000,000	2016	2 of 7
2015	\$984,000	2015	\$5,904,000	2015	1 of 7
2014	\$952,000	2014	\$5,712,000	2014	3 of 3
2013	\$952,000	2013	\$5,712,000	2013	3 of 4
2012	\$923,000	2012	\$5,538,000	2012	3 of 3
2011	\$830,000	2011	\$5,080,000	2011	3 of 3

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017				\$500,000		
Request						
2016			500,000	500,000	39%	
2015			360,000	360,000	80%	
2014			200,000	200,000	(50%)	111,185
2013			400,000	400,000	67%	400,415
2012			240,000	240,000		231,770
2011						
Total			\$1,700,000	\$1,700,000		\$743,370

DPW began 2015 with a backlog of over 3,150 stumps and ended with 2,427. Because new trees are generally replanted in the same location, if the stumps are not removed in a timely manner, tree replacement will be delayed. Historically, the backlog averages around 400 stumps – approximately 10% of the annual tree planting. The 2015 year-end backlog represents half of the trees that the department requested for planting in 2016. The Forestry Section has cited reductions in Urban Forestry FTE’s, reductions in funding for seasonal employees, vacancies held open, and participation in snow and ice control operations as contributing factors to the stump backlog.

The department estimates that it can remove approximately 2,300 stumps each year with its existing staff. If tree mortality remains relatively constant, the year-end backlog of stumps will increase by over 1,000 each year unless funding is provided to contract for additional removals. The contracted price for stumps is estimated at \$275 per tree, but it can vary with the diameter of the stumps that are on a particular contract. If funding is provided as requested, the expected 2016 year-end backlog will be about 1,900.

Carryover

Since 2012 this program has been funded by revenue from the storm water management fee so there is no carryover borrowing authority.

The 3-year average for tree removal (not including construction related) is 4,400 trees, and is essentially unchanged from the previous 3-year average. Increases in the paving program do not directly affected stumping activities because stumping is a bid item on the paving contracts.

Capital Request History – Stump Removal

Annual Request		Six-Year Request		Priority	
2017	\$500,000	2017	\$3,000,000	2017	4 of 4
2016	\$360,000	2016	\$2,160,000	2016	3 of 6
2015	\$360,000	2015	\$2,160,000	2015	4 of 7
2014	No Request	2014	No Request	2014	No Request
2013	\$405,000	2013	\$405,000	2013	4 of 4
2012	No Request	2012	No Request	2012	No Request
2011	No Request	2011	No Request	2011	No Request

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$500,000	100%	
2016		250,000		250,000	(50%)	
2015		500,000		500,000		
2014		500,000		500,000		483,211
2013		500,000		500,000	12%	0
2012		447,000		447,000	(3%)	542,762
2011		460,000		460,000		406,650
2010		462,879		462,879	(20%)	493,828
2009		582,000		582,000	102%	411,549
2008		288,000		288,000	(68%)	519,728
2007		913,000		913,000		683,861
Total		\$4,902,879		\$4,902,879		\$3,541,589

This program replaces infrastructure related to irrigation and landscaped boulevard medians in conjunction with the City’s paving program. The program does not directly correlate to increases in state/federal-aided paving because not all arterials have boulevards. The department has also begun replacing the City’s irrigation infrastructure based on its age and condition.

Funding requested for 2017 will allow for the replacement of approximately 118 taps, including 42 taps on paving projects and 76 taps based on condition. Any taps replaced or repaired must be restored to current Wisconsin Plumbing Codes.

Carryover

This program had \$678,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$426,000.

Forestry only replaces irrigation in the boulevards at signature beds. Tree mortality has generally remained between 1.5% and 2.0 % since the City instituted a bed-only irrigation policy nearly a decade ago.

The 2016 request was reduced because the department anticipates using carryover borrowing authority and a \$32,000 transfer from the Hazardous Tree Removal account to fund work in 2016

This request will fund 7 positions (3.5 FTE); 2 Irrigation Professionals (1.5 FTE), 2 Urban Forestry Specialists (1.0 FTE), and 3 Urban Forestry Managers (1.0 FTE). The positions are generally unchanged since 2011.

Capital Request History – Concealed Irrigation and General Landscaping in City Boulevards.

Annual Request		Six-Year Request		Priority	
2017	\$500,000	2017	\$3,000,000	2017	3 of 4
2016	\$250,000	2016	\$2,750,000	2016	4 of 6
2015	\$500,000	2015	\$3,000,000	2015	3 of 7
2014	\$500,000	2014	\$3,000,000	2014	2 of 3
2013	\$606,765	2013	\$3,856,765	2013	2 of 4
2012	\$510,000	2012	\$4,260,000	2012	2 of 3
2011	\$460,000	2011	\$4,210,000	2011	2 of 3

Project Updates and Past Requests

Vacant Lot Beautification

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016				0		
2015	200,000			200,000		
2014	200,000			200,000		82,951
Total	\$400,000			\$400,000		\$82,951

Funding for this capital account, which is part of the Mayor’s Strong Neighborhood Plan, was moved from the Department of City Development to DPW Operations Forestry Section in the 2015 Budget.

This account was created in 2014 to provide funds to install a variety of improvements on vacant lots, including grass, shrubs, trees, raised garden beds and fencing. DCD estimated that, with the proposed level of funding, between 80 and 100 lots could be improved at an average cost of \$2,000 to \$2,500. There are currently 4 design templates for vacant lot beautification that are being utilized. The templates were developed jointly by Forestry and DCD. Forestry has provided assistance with administering contract landscape improvements. **No request was submitted for 2017.**

Capital Request History – Vacant Lot Beautification

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$200,000	2016	\$1,200,000	2016	6 of 6
2015	\$200,000	2015	\$1,200,000	2015	(DCD)

Hazardous Tree Removal Program

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016				0		
2015			75,000	75,000		
2014	75,000			75,000		0
Total	\$75,000		\$75,000	\$150,000		

This capital account was created by the 2014 Budget to provide funding for hazardous tree removal charges. The Common Council enacted an ordinance (File 120626) that changed fees charged by the City for hazardous tree removal from special charges to special assessments. This change allows property owners to pay the removal bill over six tax years. The ordinance was generally modeled after paving and sidewalk assessments. However, in the case of hazardous tree removals, the property owner must decide before the work is done if he or she will defer payment. If payment deferral is selected, there is no penalty for early repayment. **No request was submitted for 2017.**

DPW will track removal costs by property and report annually to the Comptroller and the Treasurer. Costs for this ordinance will be reported annually by the Comptroller in a manner similar to other special assessments.

The department anticipates transferring \$32,000 of carryover borrowing authority from this account to the Concealed Irrigation and General Landscaping account for 2016.

Capital Request History – Hazardous Tree Removal

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$75,000	2016	\$450,000	2016	5 of 6
2015	\$75,000	2015	\$450,000	2015	6 of 7
2014	No Request	2014	No Request	2014	No Request

EAB Ash Transition

This was a new request for 2015 to replace approximately 5,000 unprotected ash trees over the next 5 or 6 years. As part of the emerald ash borer response plan, the department focused its inoculation efforts on larger, higher value ash trees. Trees 8” or less in diameter were not treated and will need to be actively transitioned to other species. This request would have funded the contract removal and replacement of 900 ash trees in 2015. The department has now begun treating smaller ash trees that have grown into the treatment class, delaying the need to transition those trees to other species.

This program did not receive funding in 2015, however, a portion of the tree planting and production program was allocated to allow for the removal and replacement of a limited number of ash trees. **No request was submitted for 2016 or 2017.**

Forestry HQ Modifications Account

This was a new request for 2015 to fund on-going maintenance at Forestry facilities. The six-year request included \$50,000 each year from 2016 through 2020. No specific projects were listed in the 2015 request. The Capital Improvements Committee recommended funding of \$50,000. The 2015 Budget did not include funding. **No request was submitted for 2016 or 2017.**

Sustainable Boulevards

The Sustainable Boulevard Program was a three phase project approved by the Common Council in 2007. The plan included automated irrigation systems at signature bed locations and a simplified boulevard design that positions high-profile flower beds on landmark and gateway segments. These beds are connected by segments containing turf, shade and ornamental trees.

The final construction of some beds was delayed due to paving projects. The program has no remaining carryover borrowing authority. No funding has been requested or provided for this program since 2010. The remaining beds will be constructed with O&M funds or funds from the Concealed Irrigation/General Landscaping capital account.

There are 700 boulevard trees that remain to be planted from the original plan. Funding for these trees was eliminated from the 2011 Budget. They will be planted using funds from the Tree Planting Program as they are available. This project has allowed Forestry Section to reduce its annual budget for seasonal staffing and reduce the number of seasonal staffing by \$18,000 and reduce the number of Seasonal Urban Forestry Laborers hired by 20.

Year	Gen Oblig.	Total	Actual
2010	580,000	580,000	581,294
2009	525,000	525,000	524,836
2008	500,000	500,000	499,999
2007		0	0
Total	1,605,000	1,605,000	1,606,129

DPW Operations – Sanitation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,100,000	1,000%	
2015		100,000		100,000	(64%)	
2015		275,000		275,000	(89%)	
2014	100,000	2,300,000		2,400,000	380%	12,642,625
2013		500,000		500,000	(9%)	789,866
2012		550,000		550,000	(24%)	199,422
2011		727,959		727,959		151,616
2010		0				114,954
2009		0				1,000,073
2008		0				217,635
2007		2,260,500		2,260,500		393,831
Total	\$100,000	\$6,713,459		\$6,813,459		\$15,510,022

The Department of Public Works has submitted two capital requests for Sanitation.

The total six-year request is \$1,375,000, an increase of \$1,275,000 (1,275%) from last year's request. The increase is related to the Industrial Road Relocation project. Direct Supply has indicated that they will exercise the option on the Industrial Road parcels.

The 2017 request also include the final year of funding for the installation of brine makers.

No request was included for the Material Recovery Facility because it was funded with contingent borrowing in 2014.

Industrial Road Relocation Planning & Design

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$1,100,000	%	
Request						

Direct Supply has an option on the property where the Industrial Road facility is located. Direct Supply has indicated that it will exercise the option in order to expand its operation. The City will have two years to relocate the facility. The option will expire December 13, 2019.

Direct Supply has initiated plans to exercise its option on the Industrial Road property.

The request for 2017 includes funding for planning and design –not construction. The preliminary cost estimate to relocate the facility, developed in 2010, was \$13,500,000. The cost estimate has not been reviewed in several years. Direct Supply’s contribution to the relocation cost is defined in the project plan for TID 64. (CC File 060420). The City will generally be responsible for 50% of the cost.

The City Plan Commission and the Zoning Neighborhoods & Development Committee have recommended approval of a Development Incentive Overlay Zone for the site. (CC file 151670)

Capital Request History – Industrial Road Facility Relocation

Annual Request		Six-Year Request		Priority	
2017	\$1,100,000	2017	\$1,100,000	2017	
2016	No Request	2016	No Request	2016	No Request
2015	\$1,700,000	2015	\$6,800,000	2015	3 of 4
2014	\$1,700,000	2014	\$6,800,000	2014	3 of 3
2013	\$1,700,000	2013	\$6,800,000	2013	3 of 3
2012	\$1,700,000	2012	\$6,800,000	2012	2 of 2
2011		2011	\$6,800,000	2011	

Purchase and Install Brine Makers

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$275,000		
Request						
2016		100,000		100,000	(64%)	
2015		275,000		275,000		
Total		\$375,000		\$375,000		

This was a new request in 2015 for a three year project to purchase and install brine makers at sanitation yards for use in snow and ice operations. 2017 is expected to be the last year that funding will be required. The project will install 3 brine makers, one in each sanitation area. Brine will be transported and stored in holding tanks at each of the six Sanitation yards. The total estimated cost of the project when it was requested last year was \$825,000.

The project is expected to reduce operating costs by reducing the amount of salt needed for effective ice control. Annual savings are difficult to quantify and may be highly variable.

The department purchased a used brine maker from the City of Beloit late in 2014 using operational funds. The brine maker was installed on the north side in 2015. Capital funding from 2015 and 2016 will be used to purchase a second brine maker, which will be installed on the south side. Funding in 2017 will purchase and install the final brine maker.

The brine makers are expected to have a useful life of about 15 years.

The department continues to investigate opportunities to reduce salt usage, including the addition of various agricultural products to the brine. The brine makers will be able to accommodate such additives.

Capital Request History - Brine Makers

Annual Request		Six-Year Request		Priority
2017	\$275,000	2017	\$275,000	2017
2016	\$100,000	2016	\$100,000	2016 1 of 1
2015	\$275,000	2015	\$825,000	2015 2 of 4

Project Updates and Past Requests

Environmental Services Facility Modifications

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014	100,000			100,000	(80%)	685,362
2013		500,000		500,000	(9%)	789,866
2012		550,000		550,000	(24%)	199,422
2011		727,959		727,959		151,616
2010		0		0		114,954
2009		0		0		1,000,073
2008		0		0		217,635
2007		2,260,500		2,260,500		393,831
Total	\$100,000	\$4,038,459		\$4,138,459		\$3,552,7597

This program provides funds for the repair and maintenance of the facilities at the yards used by the Department of Public Works' Operations Division. Since 2001, nearly \$7.35 million in funding has been provided. Annual funding for this program is highly variable. **No request was submitted for 2017.** Funding was allocated in 2014 to conduct a facility use study. The last such study was done in 2006.

The Mount Vernon facility, which was a major portion of the 2013 request, was requested as a separate project in 2014.

Facility/Project	2014 Request	2015 Request	2016 Request
Facility Use Study	\$107,000		
S1 Yard & Storage Building	\$1,400,000		
C2 Salt storage	\$1,500,000	\$1,500,000	
S2 Maintenance and remodel	\$55,000	\$55,000	\$55,000
N1 Transfer Bay	\$610,000	\$610,000	\$610,000
Central Area – general repairs		\$60,000	\$60,000
N2 Pave parking lot		\$30,000	\$30,000
TOTAL	\$3,672,000	\$2,255,000	\$2,255,000

Sanitation Yard Locations

N1 6732 N. Industrial Road

N2 30th & Ruby

C1 5230 W State Street

C2 1625 N 14th Street

S1 2363 S 35th Street

S2 4031 S 6th Street

Capital Request History – Environmental Services Facility Modifications

Annual Request		Six-Year Request		Priority	
2017	No Request	2017	No Request	2017	No Request
2016	\$755,000	2016	\$1,335,000	2016	
2015	\$2,255,000	2015	\$2,835,000	2015	1 of 4
2014	\$3,672,000	2014	\$7,422,000	2014	2 of 3
2013	\$1,009,000	2013	\$4,759,000	2013	1 of 3
2012	\$685,000	2012	\$5,685,000	2012	1 of 2
2011	\$2,800,000	2011	\$7,800,000	2011	

Material Recovery Facility (MRF) - 1313 W Mount Vernon Avenue

Prior to 2014, improvements to this facility were budgeted in the Environment Services Facility Modifications capital account. That account received \$500,000 in 2013 to replace the roof at the Materials Recovery Facility (MRF) building at 1313 W. Mount Vernon Avenue. In 2014, the facility was budgeted as a stand-alone project and received \$2.3 million of funding. The Mount Vernon facility had been operating as a recyclables transfer station.

The City partnered with Waukesha County on the development of a regional single-stream recycling system. An intergovernmental cooperation agreement was signed on March 28, 2013. Under the terms of the agreement, the City and Waukesha County developed and issued a request for proposal with responses due October 29, 2013. The RFP allowed multiple proposal options, including the construction of a private processing facility. The top proposal received was to retrofit the City's old dual stream MRF at the Mount Vernon location into a modern single stream facility featuring state of the art technology.

The Council authorized the execution of a contract for the construction and operation of a MRF facility in April 2014 (See Common Council File 131796). At the same time, the Council approved \$16 million of contingent borrowing to fund equipment purchases and building upgrades. Expenditures in 2014 were \$11.9 million. The facility began operating in March of 2015

The 2015 request included \$2 million to make repairs to the seawall in 2020. **No request was submitted in 2016 or 2017.**

Routing Software

This was a request in 2013 for \$1,000,000 for the acquisition and installation of routing software. More efficient routing would increase productivity and reduce fuel costs. This project will not require capital funding. The department was able to partner with the University of Stevens Point to develop software that will meet the need of the department.

Self Help Scales

The 2010 Budget directed DPW to implement a charge for construction debris brought to self-help stations. Phase I of the project involved charging a flat fee per load. Plans for Phase II involved charging for each load based on weight. It was determined that the project was not cost effective and will not move forward. **No capital funding was provided.**

DPW ISD – Bridges & Buildings

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017 Request				\$17,815,000		
2016	50,000	15,540,000	290,000	15,880,000		
2015	0	4,793,000	50,000	4,843,000	(5%)	
2014	492,000	4,543,000	50,000	5,085,000	5%	11,937,521
2013	200,000	4,654,000		4,854,000	39%	4,749,056
2012	210,000	3,292,900		3,502,900	(56%)	4,598,105
2011		8,022,800		8,022,800	34%	6,682,759
2010		5,999,440		5,999,440	8%	4,163,584
2009		5,554,000		5,554,000	(53%)	4,155,509
2008	300,000	11,534,800		11,834,800	(32%)	27,010,096
2007	292,000	17,047,200		17,339,200		34,896,230
Total	\$1,544,000	\$80,981,140	\$390,000	\$82,915,140		\$98,192,860

The Dept. of Public Works Infrastructure Services Division underwent a reorganization in 2014. The section formerly referred to as Facilities has been combined with other work groups and is now called Bridges and Buildings.

Bridges and Buildings has submitted eight capital requests for facility related programs for the 2017 Budget. Six requests are for on-going programs and two are for special projects.

The total six-year request is \$66 million and represents a decrease of \$36.2 million (35%) from last year's six-year request. The most significant components of the reduction is a decrease of \$18 million for the City Hall Foundation project, a decrease of \$11.35 million in the Facilities Exterior Program, and a reduction of \$9.25 million in the Facilities Systems Program. Nearly all of the decrease in the City Hall Foundation project reflects funds budgeted in 2016.

The request for the ADA account has increased by \$2.75 million over six years to address the deficiencies identified by the Department of Justice.

The six year request includes \$1.5 million for Recreational Facilities. No request was received for the Playground Challenge Fund or the MKE Plays Initiative.

The department did not re-submit the request for funding to make repairs to the roof of the Kilbourn tunnel in conjunction with a WisDOT project. Funding had been requested 2016 and 2019 in the MacArthur Square Plaza account.

Tax levy funding and revenue funding has been used for portions of various facility capital accounts.

Capital Request Summary

Programs	2017	2018	2019	2020	2021	2022	Six-Year Total
Environmental Program	150,000	150,000	200,000	200,000	200,000	250,000	\$1,150,000
ADA Compliance	2,000,000	2,000,000	75,000	75,000	75,000	200,000	\$4,425,000
Facilities Exterior Program	600,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	\$6,850,000
Facilities Systems	1,075,000	1,000,000	1,250,000	1,250,000	1,250,000	1,500,000	\$7,325,000
Space Planning	400,000	400,000	400,000	400,000	400,000	400,000	\$2,400,000
Recreational Facilities	250,000	250,000	250,000	250,000	250,000	250,000	\$1,500,000
Projects							
City Hall Foundation	13,000,000	12,000,000	8,500,000	8,500,000			\$42,000,000
North Point Lake Tower	340,000						\$340,000
Hartung Park Landfill Closure							
MacArthur Sq. Plaza							
Energy Efficiency/ Renewable Energy							
Total	\$17,815,000	\$16,800,000	\$11,925,000	\$11,925,000	\$3,425,000	\$4,100,000	\$65,990,000

Environmental Remediation Program

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017				\$150,000		
Request						
2016	50,000	50,000	50,000	150,000		
2015		100,000	50,000	150,000	(25%)	
2014		150,000	50,000	200,000	33%	153,390
2013		150,000		150,000		141,119
2012		150,000		150,000		128,312
2011		150,000		150,000	50%	210,253
2010		100,000		100,000	(50%)	210,751
2009		200,000		200,000		286,358
2008		200,000		200,000	(57%)	321,938
2007		469,000		469,000		520,250
Total	\$50,000	\$1,719,000	\$150,000	\$1,919,000		\$1,972,371

The goal of this on-going program is to provide a safe environment for the public and City employees. Activities include asbestos removal and lead abatement in city owned buildings; the monitoring of closed landfills and contaminated sites; repairs to petroleum storage tanks; and upgrades and repairs to storm water management systems and equipment.

Since 2014, \$50,000 a portion of this program has been funded with revenue from the Sewer Maintenance Fund. In addition \$50,000 of tax levy funding was provided in 2016. Average annual funding between 2000 and 2007 was \$566,000.

Carryover

This program had \$5,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$307,000.

This request includes 2 Professional/Inspection positions (0.4 FTE)

Planned expenditures	2016-2017	2014-2015	2013	2012
Asbestos Abatement and Hazardous Waste	\$50,000	\$50,000	\$50,000	\$50,000
Soil and groundwater remediation	\$50,000	\$50,000	\$50,000	\$50,000
Leak detection system upgrades	\$50,000	\$50,000		\$50,000
Fuel dispenser replacement -		\$50,000		\$50,000
Total	\$150,000	\$200,000	\$100,000	\$200,000

Capital Request History – Environmental Remediation Program

Annual Request		Six-Year Request		Priority	
2017	\$150,000	2017	\$1,150,000	2017	1 of 6
2016	\$150,000	2016	\$1,050,000	2016	1 of 5
2015	\$200,000	2015	\$1,650,000	2015	1 of 7
2014	\$200,000	2014	\$1,896,000	2014	1 of 7
2013	\$200,000	2013	\$1,870,000	2013	1 of 7
2012	\$200,000	2012	\$1,726,000	2012	1 of 7
2011	\$260,000	2011	\$1,905,000	2011	1 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$2,000,000	900%	
2016		200,000		200,000	(7%)	
2015		215,000		215,000	(37%)	
2014	100,000	240,000		340,000	39%	305,696
2013		245,000		245,000	(6%)	363,513
2012		261,900		261,900	176%	81,426
2011		95,000		95,000		87,913
2010		95,000		95,000		27,126
2009				0		248,147
2008		160,800		160,800		793,020
2007				0		216,430
Total	\$100,000	\$1,512,700		\$1,612,700		\$2,123,271

This on-going program provides funding for building alteration projects to comply with the Americans with Disabilities Act Accessibility Guidelines, respond to new and updated regulations, and improve access to City facilities for the disabled. Alteration projects provide access to building entrances, restrooms, public telephones, drinking fountains, lobbies, meeting rooms and office space in the City Hall complex as well as outlying City facilities.

Request Summary – 2017

2017	\$2,000,000
2018	\$2,000,000
2019	\$75,000
2020	\$75,000
2021	\$75,000
2021	<u>\$200,000</u>
Total	\$4,425,000

In 2011, the City participated in the Dept. of Justice’s (DOJ) Project

Carryover

This program had \$259,000 of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$485,000.

Civic Access (PCA) program. Through this program, the DOJ works cooperatively with state and local governments to ensure that they are in compliance with the American’s with Disabilities Act. In March 2016, the Common Council approved the execution of a settlement agreement with the DOJ relative to the deficiencies that were identified in City facilities. (see CC file 151685).

To address the additional work, the request adds 2 Professional/Inspection positions (1.4 FTE) and 2 Trades positions (1 FTE) to last year’s request for a total of 6 positions (3.8 FTE)

Capital Request History – ADA Compliance Program

Annual Request		Six-Year Request		Priority	
2017	\$2,000,000	2017	\$4,425,000	2017	2 of 6
2016	\$450,000	2016	\$2,150,000	2016	2 of 5
2015	\$240,000	2015	\$1,490,000	2015	2 of 7
2014	\$490,000	2014	\$1,740,000	2014	2 of 7
2013	\$320,000	2013	\$1,724,800	2013	2 of 7
2012	\$311,900	2012	\$1,656,700	2012	2 of 7
2011	\$307,200	2011	\$1,652,000	2011	2 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$600,000	(40%)	
2016		1,000,000		1,000,000	(50%)	
2015		2,008,000		2,008,000		
2014		2,088,000		2,088,000	126%	1,052,916
2013		923,000		923,000	115%	534,322
2012		430,000		430,000	(53%)	1,069,549
2011		923,400		923,400	(35%)	1,667,485
2010		1,409,700		1,409,700	71%	707,425
2009		825,000		825,000	76%	357,274
2008		469,000		469,000	162%	529,473
2007		178,700		178,700		935,607
Total		\$10,254,800		\$10,254,800		\$6,854,051

This on-going program maintains City facilities in a watertight, energy efficient and safe condition. Typical activities include roof repairs, tuck pointing, caulking and sealing, window, entry door and overhead door replacement, yard and lot paving, exterior lighting improvements, foundations, and other miscellaneous facility exterior maintenance items.

Since 2000 \$11.4 million has been budgeted for this program. Annual funding for this program has been highly variable. The 2017 six-year

Request Summary – 2017

2017	\$600,000
2018	\$1,000,000
2019	\$1,250,000
2020	\$1,250,000
2021	\$1,250,000
2021	<u>\$1,500,000</u>
Total	\$6,850,000

Carryover

This program had \$2.7 million of borrowing authority carried over into 2016.

Average carryover for this program since 2007 is \$1.5 million.

request for this program has decreased by \$11.4 million (62%) from last year’s six-year request.

The 2017 request includes \$400,000 for building envelope projects and \$200,000 for emergency repairs.

This request includes 2 Professional/Inspection positions (0.8 FTE).

Capital Request History – Facilities Exterior Program

Annual Request		Six-Year Request		Priority	
2017	\$600,000	2017	\$6,850,000	2017	3 of 6
2016	\$1,700,000	2016	\$18,200,000	2016	3 of 5
2015	\$4,623,800	2015	\$24,623,800	2015	3 of 7
2014	\$3,470,000	2014	\$8,395,500	2014	3 of 7
2013	\$1,651,000	2013	\$8,176,000	2013	3 of 7
2012	\$555,000	2012	\$6,005,000	2012	3 of 7
2011	\$1,200,000	2011	\$7,200,000	2011	3 of 10

Year	Revenue	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$1,075,000	%	
2016	140,000	540,000		680,000	(54%)	
2015		1,480,000		1,480,000	(16%)	
2014		1,765,000		1,765,000	22%	1,748,617
2013		1,446,000		1,446,000	(21%)	1,003,559
2012		970,000	855,000	1,825,000	197%	954,367
2011		615,000		615,000	(60%)	899,691
2010		685,000	855,000	1,540,000	3%	1,017,182
2009		1,500,000		1,500,000	(38%)	2,302,286
2008		2,400,000		2,400,000	118%	4,069,493
2007		1,099,500		1,099,500		4,634,481
Total	\$140,000	\$12,500,500	\$1,710,000	\$14,350,500		\$16,629,676

This on-going program is used to sustain the operating systems of approximately 95 City owned buildings. Operating systems include heating, ventilating and air-conditioning, plumbing, fire protection, electrical distribution, lighting, chillers, boilers, computerized facility management, security and life safety.

Since 2000, \$32.8 million has been budgeted for this program. Average annual funding since 2000 has been approximately \$2 million. The six-year request for this program has decreased by \$9.3 million (56%) from last year’s request.

Request Summary – 2017

2017	\$1,075,000
2018	\$1,000,000
2019	\$1,250,000
2020	\$1,250,000
2021	\$1,250,000
2021	<u>\$1,500,000</u>
Total	\$7,325,000

Carryover
 This program had \$824,000 of borrowing authority carried over into 2016.
 Average carryover for this program since 2007 is \$2.1 million.

Programming decisions are made using the FCAP Program. Projects for 2017 include transfer station sprinklers, the installation of new polycarbonate panels at the Nursery Greenhouse, furnaces at the Safety Academy, fire life safety projects, building automation system projects, upgrades to CCTV and access control, and emergency repairs.

This request includes 4 Professional/Inspection positions (1.8 FTE) and 2 Trades positions (0.7 FTE).

Capital Request History – Facilities Systems Program

Annual Request		Six-Year Request		Priority	
2017	\$1,075,000	2017	\$7,325,000	2017	4 of 6
2016	\$1,580,000	2016	\$16,580,000	2016	4 of 5
2015	\$2,797,500	2015	\$17,297,500	2015	6 of 7
2014	\$3,353,350	2014	\$14,353,350	2014	6 of 7
2013	\$2,532,000	2013	\$10,132,000	2013	6 of 7
2012	\$1,170,000	2012	\$7,570,000	2012	6 of 7
2011	\$1,020,000	2011	\$15,020,000	2011	6 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$400,000		
2016		400,000		400,000	7%	
2015		375,000		375,000	83%	
2014	205,000	0		205,000		147,616
2013	140,000	65,000		205,000		167,755
2012	150,000	55,000		205,000	23%	255,355
2011		166,000		166,000	4%	139,350
2010		160,000		160,000	3%	210,561
2009		155,000		155,000	41%	102,625
2008		110,000		110,000	(27%)	119,194
2007		150,000		150,000		194,679
Total	\$495,000	\$1,636,000		\$2,131,000		\$1,337,135

This program provides funds for architectural and engineering services related to office space studies, including the preparation of preliminary plans and cost estimates for proposed projects, and unscheduled interior office alterations for City departments. It also provides funding for the inspection of the City buildings which are the responsibility of DPW and the maintenance of condition data for those buildings.

Funding was increased in the 2015 Budget because the Space Planning account now includes projects that previously would have been funded by the City Hall Complex Remodeling account.

Carryover
This program had no borrowing authority carried over into 2016.

This request includes 2 Professional/Inspection positions (2.9 FTE).

Planned Activities	2017	2016	2015	2013-2014	2012
Space planning	200,000	200,000		\$15,000	\$15,000
General dept. reorganization and alteration	50,000	50,000		\$40,000	
General engineering & facility inspection	150,000	150,000		\$150,000	\$150,000
4 bay vehicle repair area					\$40,000
Total	\$400,000	\$400,000	\$205,000	\$205,000	\$205,000

Capital Request History – Space Planning and Alterations

Annual Request		Six-Year Request		Priority	
2017	\$400,000	2017	\$2,400,000	2017	5 of 6
2016	\$400,000	2016	\$2,700,000	2016	5 of 5
2015	\$205,000	2015	\$1,705,000	2015	7 of 7
2014	\$205,000	2014	\$1,158,000	2014	7 of 7
2013	\$205,000	2013	\$1,125,000	2013	7 of 7
2012	\$205,000	2012	\$1,125,000	2012	7 of 7
2011	\$166,000	2011	\$1,086,000	2011	9 of 10

Recreational Facilities Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$250,000		
2016						
2015		175,000		175,000		
2014						3,933
2013						
2012						109,058
2011		151,000		151,000	(61%)	0
2010		388,240		388,240	29%	280,896
2009		300,000		300,000		337,277
2008	300,000			300,000	3%	295,468
2007	292,000			292,000		507,067
Total	\$592,000	\$1,014,240		\$1,606,240		\$1,533,699

This on-going program had been used for the improvement of neighborhood recreation facilities, including DPW play areas and stand-alone recreation sites operated and maintained by Milwaukee Public Schools.

The 2012 capital request moved funding from the Recreational Facilities account to the ADA Compliance Program and the Municipal Garage/Outlying Facility Program. The 2015 Budget did not include funding for the Municipal Garage account.

Carryover
This program had no borrowing authority carried over into 2016.

The Capital Improvements Committee has consistently recommended that funding for recreational facilities be returned to a separate program. The 2015 Proposed Budget did not include funding for this program. A budget amendment added \$175,000 prior to the adoption of the 2015 Budget.

Two additional capital accounts have been created recently to fund recreational facilities. The Playground Improvement Challenge Fund and the MKE Plays account. Those accounts have received a total of \$410,000 in funding since 2013. The accounts primarily leverage private investments in the City’s recreational facilities.

This request includes 2 Professional/Inspection positions (0.3 FTE).

Capital Request History – Recreational Facilities

Annual Request		Six-Year Request		Priority	
2017	\$250,000	2017	\$1,500,000	2017	6 of 6
2016		2016		2016	No Request
2015		2015		2015	No Request
2014		2014		2014	No request
2013		2013		2013	No request
2012	\$	2012		2012	No request
2011	\$489,000	2011	\$2,989,500	2011	7 of 10

City Hall Hollow Walk Structural Repairs

SP1 of 2

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$13,000,000		
Request						
2016		13,000,000		13,000,000		
2015						
2014				0		595,818
2013				0		218,056
2012				0		164,563
2011		3,160,000		3,160,000	17%	244,102
2010		2,700,000		2,700,000	50%	297,587
2009		1,800,000		1,800,000	50%	87,600
2008		1,200,000		1,200,000		34,193
2007				0		0
Total		\$21,860,000		\$21,860,000		\$1,641,919

Significant repair and restoration work is needed to address age-related deterioration of key elements of City Hall, including wood foundation piles, pile caps, below-grade hollow sidewalk walls, and structural concrete beams and sidewalk. Funding for this project has been deemed critical to the long-term stability of the structure.

Capital funding began in 2008 with \$1.2 million for professional design services. \$1.8 million, \$2.7 million and \$3.2 was allocated in 2009, 2010 and 2011, respectively. Funding of \$5,840,000 was requested for 2012. Due to concerns regarding the failure of the terra cotta restoration, the 2012 Budget did not include funding for this project.

Request Summary – 2017

2017	\$13,000,000
2018	\$12,000,000
2019	\$8,500,000
2020	\$8,500,000
2021	
2022	
Total	\$60,000,000

Carryover

This project had no borrowing authority carried over into 2016.

Average carryover for this program since 2009 is \$3.1 million.

The City contracted with Facilities Value Management (FVM) in June 2010 to provide owner representative services. It was anticipated that a design/build firm would be selected in early 2011. The project was placed on hold on March 1, 2011 by Common Council File Number 101367 in response to the failure of a terra cotta piece on the south tower of City Hall on February 17, 2011.

In February 2012, \$2,600,000 was transferred from this account to the City Hall Restoration account (Common Council File Number 111320). DPW believes that adequate funding remains to fund the project through 2015.

On July 24, 2012, Common Council File Number 120362 authorized DPW to move forward with Task I of the Foundation project. The design/build team began Task I which included an investigation of the wood piles, water recharge and hollow sidewalk systems and a preliminary engineering report of their findings with proposed repair options, cost estimates and schedules. The department reported on the proposed engineering solution to the Common Council in November 2014. (See CC file 141165)

Construction of Phase 1 began in early 2016. The north half of the basement has been designated a construction zone with restricted access. Staff from the Legislative Reference Bureau Library, the Historic Preservation Commission and the Treasurer’s Office have been relocated. Phased closures of the streets and sidewalks around City Hall are expected throughout the project.

Funding requested for 2017 is for the construction of Phase 2. Funding for additional phases has been requested through 2020.

Capital Request History – City Hollow Walk Structural Repairs (Foundation Project)

Annual Request		Six-Year Request		Priority	
2017	\$13,000,000	2017	\$42,000,000 (2017-2020)	2017	SP1 of 2
2016	\$20,000,000	2016	\$60,000,000 (2016, 2017, 2018)	2016	SP1 of 4
2015	\$10,000,000	2015	\$30,000,000 (2015, 2016, 2017)	2015	SP1 of 4
2014	\$0	2014	\$0	2014	SP1 of SP9
2013	\$0	2013	\$0	2013	SP1 of SP6
2012	\$5,840,000	2012	\$5,840,000	2012	SP1 of SP6
2011	\$4,500,000	2011	\$9,000,000	2011	SP1 of SP6

North Point Lake Tower

SP 2 of 2

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$340,000		
2016				0		
2015		340,000		340,000		
2014						
Total		\$340,000		\$340,000		

This was a new request in 2015 for a two year project to make repairs to the North Point Lake Tower. DPW assessed the condition of the structure in 2013 and determined that repairs were necessary. The total cost of the project was estimated to be \$740,000.

Carryover

This program had \$290,000 of borrowing authority carried over into 2016.

Funding in 2017 will replace the roof.

This request includes 1 Professional/Inspection positions (0.1 FTE).

Capital Request History – North Point Lake Tower

Annual Request		Six-Year Request		Priority	
2017	\$340,000	2017	\$340,000	2017	SP2 of 2
2016	\$400,000	2016	\$400,000	2016	SP2 of 4
2015	\$340,000	2015	\$740,000 (2015, 2016)	2015	SP2 of 4

Project Updates and Past Requests

MacArthur Square Plaza Renovation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014				0		137,040
2013				0		280,018
2012		251,000		251,000	2%	4,483
2011		247,000		247,000		479,560
2010				0		71,098
2009		534,000		534,000	7%	200,587
2008		500,000		500,000		699
2007				0		0
Total		\$1,532,000		\$1,532,000		\$1,173,485

The MacArthur Square Plaza was construction in the mid-1960s. A 2005 engineering condition report outlined major deficiencies to all elements of the Plaza, including landscaping, irrigation, pool and fountain, architectural and structural elements, plumbing and electrical lighting. Cost estimates for restoration range between \$16 million and \$19.2 million.

Since 2008 \$1.5 million has been budgeted for the MacArthur Square Plaza. Capital requests have been intended to maintain MacArthur Square as a safe, functioning structure. The plaza as it is currently configured is underutilized. Long range restoration or redevelopments have not been addressed.

The department submitted a request for 2016 that would have been used to design and construct roof repairs on the Kilbourn tunnel. WisDOT will be doing paving repairs in the tunnel. The project was not funded in 2016. **No request was submitted for 2017.**

Capital Request History – MacArthur Square Plaza Renovation

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016	\$150,000	2016	\$900,000	2016	SP4 of SP4
2015		2015		2015	No Request
2014	\$0	2014	\$1,028,000	2014	SP6 of SP9
2013	\$0	2013	\$1,295,000	2013	SP6 of SP7
2012	\$251,000	2012	\$1,546,000	2012	SP6 of SP7
2011	\$247,000	2011	\$1,542,000	2011	SP6 of SP6

Hartung Park Landfill Closure

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016		100,000	100,000	200,000		
2015						
2014				0		31,800
2013				0		159,141
2012	60,000	140,000		200,000		8,900
2011						0
Total	\$60,000	\$240,000		\$400,000		\$199,841

This capital account was created in 2012 to finalize the closure of the landfill and make improvements for future use as a recreational area. \$200,000 in funding was provided in the 2012 Budget. The 2014 capital request anticipated the need for \$200,000 in 2015. No funding was provided in 2015. \$200,000 was requested and provided in 2016. **No additional funding has been requested.**

Capital Request History – Hartung Park Landfill Closure

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016	\$200,000	2016	\$200,000	2016	SP3 of SP4
2015	\$200,000	2015	\$200,000	2015	SP4 of SP4
2014	\$0	2014	\$200,000	2014	SP7 of SP9
2013		2013		2013	No Request
2012	\$100,000	2012	\$100,000	2012	Not listed (new)

Energy Efficiency & Renewable Energy Initiative

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015		100,000		100,000	(33%)	
2014		150,000		150,000		602,383
2013		150,000		150,000		150,687
2012		150,000		150,000		144,739
2011		150,000		150,000		137,571
2010						
Total		\$700,000		\$700,000		\$1,035,380

This program, established in 2011, was used to match grant funding for projects which will reduce the City's energy use. The City has established a goal of reducing energy consumption by 15%. Grant funding will be sought to implement projects identified by energy audits which will provide energy use related savings.

In 2016, this account was replaced by the Better Buildings Challenge account which is administered by the Environmental Collaboration Office (formerly the Office of Sustainability). No request was submitted for the Better Buildings Challenge for 2016.

Grant funding received in 2011 was used to install a photovoltaic system at the Central Repair Garage. The project design was revised to reflect lower than anticipated grant funding. Projects for 2012 focused on occupancy sensors for lighting and HVAC control for DPW’s outlying facilities. Projects for 2013 focused on occupancy sensors for lighting and HVAC control for DPW’s outlying facilities.

Capital Request History – Energy Efficiency and Renewable Energy Initiative

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No request
2016		2016		2016	No Request
2015	\$150,000	2015	\$1,200,000	2015	SP3-4
2014	\$150,000	2014	\$4,700,000	2014	SP4 of SP9
2013	\$150,000	2013	\$4,650,000	2013	SP4 of SP 7
2012	\$150,000	2012	\$4,650,000	2012	SP4 of SP6
2011	\$1,100,000	2011	\$5,600,000	2011	SP4 of SP6

Playground Improvement Challenge Fund

This capital account was created by the 2013 Budget (\$100,000) to provide matching funds for privately raised funds for playground improvement projects. The 2014 Budget provided an additional \$60,000. DPW **has not requested funding for this program.** The Capital Improvements Committee has recommended on-going funding of this program.

One project has been completed (Merrill Park). This program will be used to leverage funding as part of the MKE Plays program.

City Hall Complex Remodeling – Misc.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016		0		0		
2015				0	(100%)	
2014	101,000	90,000		191,000	91%	189,094
2013		100,000		100,000	0%	97,499
2012		100,000		100,000	100%	87,120
2011		50,000		50,000	(37%)	46,117
2010		80,000		80,000		75,228
2009				0		216,790
2008				0		256,693
2007		100,000		100,000		709,256
Total	\$101,000	\$520,000		\$621,000		\$1,677,797

This program had been used for various architectural and mechanical remodeling work in the City Hall Complex, including projects necessary to comply with State of Wisconsin energy and safety building code requirements. Since 2008, funding for this program has been greatly reduced. The result is that this account came to serve largely the same purpose as the Space Planning account. To provide the department with additional flexibility and to reduce duplicative accounts, funding for the 2 programs was consolidated in the 2015 Budget. **No request was submitted for 2016 or 2017.**

DPW has estimated that the 22 floor City Hall Complex would require between \$2 million and \$4 million of funding annually to provide renovations for each floor on a 20 year schedule.

Capital Request History – City Hall Complex Remodeling – Misc.

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016		2016		2016	No Request
2015	\$440,000	2015	\$17,440,000	2015	4 of 7
2014	\$150,000	2014	\$1,400,000	2014	4 of 7
2013	\$200,000	2013	\$1,450,000	2013	4 of 7
2012	\$100,000	2012	\$1,350,000	2012	4 of 7
2011	\$50,000	2011	\$12,369,000	2011	4 of 10

Municipal Garage/Outlying Facilities Remodeling

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014	86,000			86,000	(94%)	81,020
2013		1,400,000		1,400,000	115%	618,480
2012		650,000		650,000	63%	324,013
2011		400,000		400,000	36%	477,224
2010		295,000		295,000	23%	366,514
2009		240,000		240,000	37%	638,454
2008		175,000		175,000	250%	1,900,590
2007		50,000		50,000		752,399
Total	\$86,000	\$3,210,000		\$3,296,000		\$5,158,694

This program provided funding for the basic functional needs of DPW’s municipal garage facilities, many of which have surpassed their useful life. Because of their age, many of the garages do not accommodate the use of modern diagnostics in a current repair environment. The program specifically addressed the replacement of major operational systems – hydraulic lifts, material handling equipment and pneumatic systems – that did not comply with current safety codes.

The program also addressed the functional and operational needs of other outlying facilities not covered by other programs. In 2012, funding for recreational facilities was added to this program. The Capital

Improvements Committee has consistently recommended that funding for recreational facilities be returned to a discrete program.

The 2015 Budget combined this program with other capital programs. **No request was submitted for 2016 or 2017.**

Capital Request History – Municipal Garage/Outlying Facilities Remodeling

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016		2016		2016	No Request
2015	\$500,000	2015	\$10,500,000	2015	5 of 7
2014	\$336,000	2014	\$2,836,000	2014	5 of 7
2013	\$1,450,000	2013	\$3,450,000	2013	5 of 7
2012	\$850,000	2012	\$2,850,000	2012	5 of 7
2011	\$1,700,000	2011	\$6,200,000	2011	5 of 10

Building Exterior Façade Restoration

This program corrects façade deficiencies in City owned buildings. City Ordinance #275-32-13, enacted in 2001, requires the owner of any building in the City that is five stories or greater to complete a critical exam to determine if the façade of their building is in a safe condition. The inspections required by the ordinance were performed in 2006. \$1,450,000 was transferred to this account in 2013 from the City Hall Foundation project account for the design of the terra cotta repair. (Common Council file 131055)

Expenditures from 2011 through 2014 were \$8,139,650. **No request has been submitted for this program in since 2014.**

Capital Request History – Building Exterior Façade Restoration

Annual Request		Six-Year Request		Priority	
2017		2017		2017	No Request
2016		2016		2016	No Request
2015		2015		2015	No Request
2014	\$0	2014	\$1,500,000 (2015-2017)	2014	SP5 of SP9
2013	\$0	2013	\$2,090,000 (2014-2016)	2013	SP5 of SP7
2012	\$590,000	2012	\$2,159,300 (2012-2015)	2012	SP5 of SP7
2011	\$385,000	2011	\$2,159,300 (2011-2014)	2011	SP5 of SP6

City Facilities Consolidation

This capital account was created in 2012 to provide funding to study the consolidation of all city Facilities Management functions into the Department of Public Works. Currently DPW provides facilities management services for approximately 95 city buildings. These services include custodial and maintenance functions. The remaining city buildings are the responsibility of various departments. This

program would identify efficiencies that could be realized by having DPW provide management services for a larger portion of the City's buildings.

A total of \$120,000 of funding was provided (\$60,000 each year in 2012 and 2013). Expenditures through the end of 2014 were \$41,260. **No capital request has been submitted since 2014.**

Municipal Service Building Relocation

This capital account was created in 2012 to identify and procure a location, and set up a program for a new facility which will replace the Municipal Service Building (1540 W. Canal St.) and the Traffic Sign Shop (1430A W. Canal St.) Relocation is being considered due to the age and required maintenance costs of the facility as well as the potential economic benefit of the facility being converted to private use. \$75,000 was budgeted in 2013 and 2013. Expenditures in 2012 were \$40,411. **No request has been submitted since 2013.**

Municipal Service Building Reserve

This was a new request in 2014 to provide funding for any emergency repairs to the Municipal Service Building that may be required before the facility can be relocated. The 2014 six-year request included \$100,000 each year from 2014 through 2016. This project was not funded in 2014. **No request has been submitted since 2014.**

Zeidler Municipal Building (ZMB) Lower Parking Floor Restoration

A defect in the garage floor in the Lower Parking area of the ZMB was discovered in 2008. Professional design services (\$86,500) were included in the 2010 Budget. Construction of the new floor began in June 2011. **The project was completed in 2011** within its \$1.6 million budget. Total expenditures were \$1,325,904.

In May, 2012, \$105,000 was transferred from ZMB Lower Parking capital account to the Building Exterior Façade Restoration capital account. Transfer will facilitate the completion of the façade repairs on the east and west ends of the Zeidler Municipal Building.

Facilities Condition Assessment Program

In 2012, 2013 and 2014 DPW requested \$140,000 to establish a new capital program to fund the on-going inspection of City buildings and the maintenance of a building condition database. The information gathered in this program will provide important asset maintenance data and serve as a valuable budgeting and infrastructure preservation tool. The Capital Improvements Committee has strongly recommended including funding for this new program.

DPW has completed inspections of many of the City's buildings and continues to refine the Facility Condition Assessment Program database. The cost of the inspections has been partially funded by the Space Planning program, departmental reimbursements and DPW's operating budget. **No request has been submitted since 2014.**

Storm Water Management

This is was a new request in 2014 for an on-going program that would have been used to provide matching funds to supplement MMSD grant funding for storm water reduction projects. No projects were identified in the 2014 request. The program was not funded in the 2014 Budget. **No capital request has been submitted since 2014.**

IT Equipment Room Compliance Program

This program would investigate the current definition of an information technology equipment room, determine which rooms throughout the City meet that definition and make necessary upgrades to the rooms to bring them in compliance with current building codes.

Building codes now have special and specific construction, power source, fire suppression and ventilation requirements for technology data rooms. This program may require significant future capital expenditures to bring existing data and computer rooms into compliance.

This program has received no capital funding. **No request has been submitted since 2011.**

DPW Infrastructure Services

The 2017 capital request for the Department of Public Works – Infrastructure Services Division (ISD) includes \$99.4 million for twelve capital programs relating to bridges, streets, alleys, street lighting, traffic control and underground conduit. This represents an increase of \$25.3 million (25%) from the 2016 Budget.

The total capital investment in ISD programs can vary significantly from year to year because of fluctuations in the amount of grant funding available for the Major Bridge and Major Street programs. Total grant funding for 2017 is anticipated to be \$11.8 million more than in 2016. An \$8.8 million increase in the Major Bridge Program and a \$3.0 million increase in the Major Street Program. Despite recent reductions in grant funding, total grant funding since 2001 has been trending upward.

The department is proposing to continue the policy of expediting the High Impact Paving Program through 2018.

The Local Street Program request is \$8 million. The shift from Local Street paving to High Impact paving over the next three years may have an impact on other ISD programs because high impact projects typically do not require street lighting or traffic control funding.

Requested funding for most ISD programs has increased over the 2016 Budget. Even though budgeted funding has been less than requested funding for most ISD programs in recent years, actual funding has increased significantly for virtually all programs over the last five years.

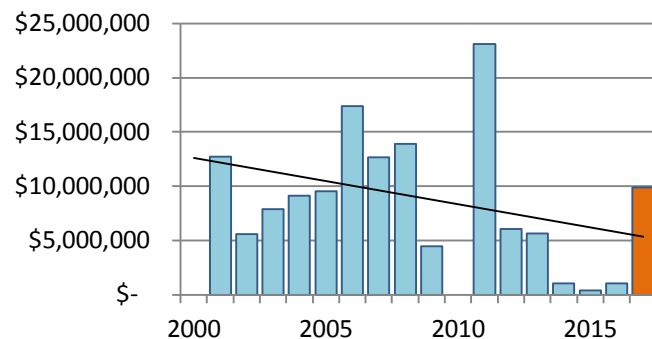
Major Bridge Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request		\$2,188,000	\$9,893,000	\$12,081,000	815%	
2016		\$270,000	\$1,050,000	\$1,320,000	165%	
2015		100,000	400,000	500,000	(62%)	
2014		260,000	1,040,000	1,300,000	(74%)	735,947
2013		100,000	5,655,000	5,755,000	(12%)	613,050
2012		500,000	6,035,000	6,535,000	(78%)	1,429,013
2011		6,354,000	23,116,000	29,470,000	265%	1,407,917
2010	500,000		7,572,000	8,072,000	55%	1,664,715
2009		762,000	4,436,000	5,198,000	(69%)	4,282,764
2008		3,046,000	13,922,000	16,968,000	10%	3,723,295
2007		2,841,000	12,648,000	15,489,000		1,587,306
Total	\$500,000	\$14,233,000	\$75,874,000	\$90,607,000		\$15,444,007

Major bridges are those bridges that are part of the major arterial and connector infrastructure within the City and are eligible for federal and/or state aid. The City's share of these major bridge projects is normally 20%. Funding for this program is fluid, largely dependent on when projects are scheduled in the grantor funding cycle. Anticipated grant funding for 2017 is \$19.9 million. Grant funding has increased by \$8.8 million from 2016.

A key challenge in the Major Bridge Program is its dependence on State and Federal Aid. There is increased competition for limited aid dollars as the nation's bridge infrastructure continues to age. The state also considers past funding when selecting projects. Municipalities that have received more funding than what the state deems to be their "fair share" in the past, will get less funding in the future. This has put increasing pressure on the Local Bridge Program.

Grant Funding - Bridges



Bridge Request Summary 2017

Year	Major Bridge			Local Bridge
	Borrowing	Grant/Aid	Total	
2017	\$2,188,000	\$9,893,000	\$12,081,000	\$5,550,000
2018	\$925,000	\$3,872,000	\$4,797,000	\$10,500,000
2019	\$3,950,000	\$3,600,000	\$7,550,000	\$8,900,000
2020	\$3,225,000	\$3,775,000	\$7,000,000	\$10,725,000
2021	\$3,790,000	\$7,210,000	\$11,000,000	10,450,000
2022	\$730,000	\$6,770,000	\$7,500,000	\$9,025,000
Total	\$14,808,000	\$35,120,000	\$49,928,000	\$55,100,000

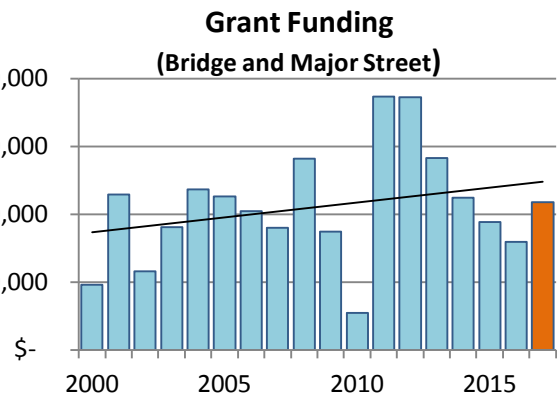
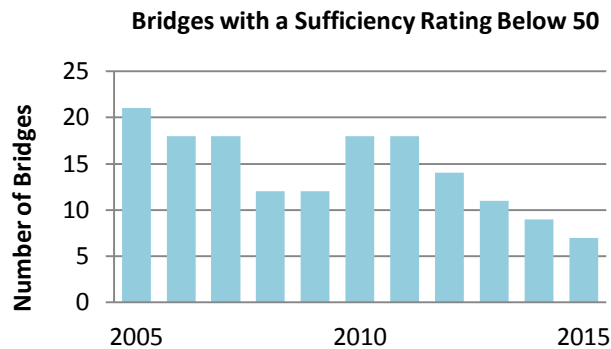
Local Bridge Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$5,550,000	35%	
2016		4,100,000		4,100,000	(10%)	
2015		8,810,000		8,810,000	(10%)	
2014		9,815,000		9,815,000	0%	13,008,125
2013		9,785,000		9,785,000	26%	7,089,769
2012		7,782,000		7,782,000	3,791%	3,764,703
2011		200,000		200,000	(97%)	5,198,776
2010		6,425,000		6,425,000	22%	3,543,071
2009		5,275,000		5,275,000	266%	905,447
2008		1,440,000		1,440,000	(2%)	397,813
2007		1,475,000		1,475,000		585,626
Total		\$55,107,000		\$55,107,000		\$34,493,330

With the exception of 2011 when TIGER grant funding was received, grants have been trending downward in the Major Bridge program since 2006

Structures within the Local Bridge Program are essentially all those bridges within the City that are not eligible for federal and/or state aid or where federal and state aid is not available or is insufficient. This program now includes high cost movable bridges, which have been deemed ineligible for WisDOT aid. City funding for this program covers maintenance work, structural repairs, painting, mechanical upgrades, inspection and engineering as well as funds bridge inspections and miscellaneous administrative and engineering costs.

This program was first funded in 2007. Since then the program has faced increasing pressure as higher cost bridges have become ineligible for state funding and the City's bridge network continues to age.



At the end of 2005 there were 21 bridges that had sufficiency ratings below 50. At the end of 2015, there were 7. Although the number of bridges with a sufficiency rating less than 50 has declined significantly in the last 10 years, the percentage of structurally deficient bridges continues to exceed both the state and the national average.

Capital Request History – Bridges

Annual Request

	Major Bridge			Local Bridge
	Borrowing	Grant/Aid	Total	Borrowing
2017	\$2,188,000	\$9,893,000	\$12,081,000	\$5,500,000
2016	\$277,000	\$1,050,000	\$1,327,000	\$8,925,000
2015	\$100,000	\$66,667	\$166,667	\$10,010,000
2014	\$260,000	\$1,040,000	\$1,300,000	\$9,815,000
2013	\$100,000	\$5,655,000	\$5,755,000	\$9,785,000
2012	\$500,000	\$6,035,000	\$6,536,000	\$10,435,000
2011	\$6,354,000	\$23,116,000	\$29,470,000	\$200,000

Six-Year Request

	Major Bridge			Local Bridge
	Borrowing	Grant/Aid	Total	Borrowing
2017	\$14,808,000	\$35,120,000	\$49,928,000	\$55,100,000
2016	\$5,927,000	\$22,616,000	\$28,543,000	\$56,130,000
2015	\$4,768,000	\$16,892,000	\$21,660,000	\$62,065,000
2014	\$4,920,000	\$23,000,000	\$27,920,000	\$61,820,000
2013	\$4,050,000	\$21,455,000	\$25,505,000	\$57,835,000
2012	\$4,191,000	\$20,799,000	\$24,990,000	\$64,810,000
2011	\$15,071,000	\$59,719,000	\$74,790,000	\$37,975,000

Major Street Program

Year	Spec Assess	Gen Oblig.	Grant & Aid	Total	% Δ	*Actual
2017 Request	\$317,000	\$8,139,271	\$33,749,574	\$42,205,845	7%	
2016	473,000	8,136,000	30,788,000	39,397,000	(12%)	
2015	390,000	7,401,000	37,207,907	44,998,907	(10%)	
2014	1,000	6,214,000	43,778,000	49,993,000	(3%)	7,379,339
2013	1,000	435,000	50,900,000	51,336,000	(34%)	9,952,265
2012	1,000	9,776,200	68,556,800	78,334,000	31%	4,082,459
2011	100	8,314,100	51,505,230	59,819,430	277%	4,436,441
2010	194,000	4,730,000	10,936,200	15,860,200	(54%)	5,378,276
2009	100	4,230,000	30,450,000	34,680,100	31%	7,435,225
2008	1,260,149	6,471,340	42,460,825	50,192,314	70%	6,746,056
2007	661,000	5,397,190	23,442,160	29,500,350		10,177,921
Total	\$2,981,349	\$61,104,830	\$390,025,122	\$454,111,301		\$55,587,982

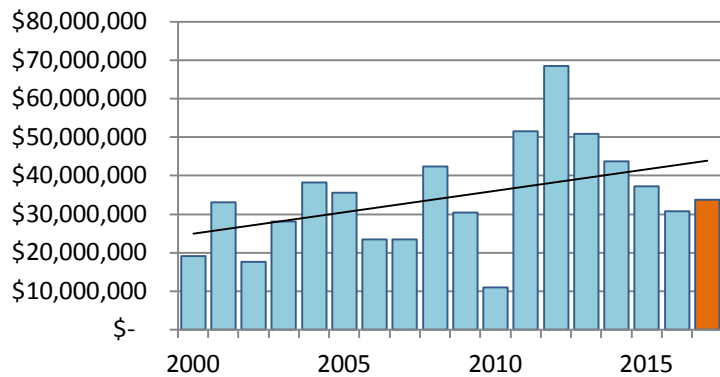
*Does not include grant and aid

Arterials and collectors are eligible for county, state, and federal funding and are part of the City's Major Street Program. Funding programs include the State Transportation, Connecting Highways, State Trunk Highways, County Trunk Highway, Highway Safety Improvement and Local Road Improvement programs.

Funding for this program is highly variable because it is dependent on receiving state and federal aid.

Uncertainties in funding for the transportation bill at the federal level make it especially difficult to project funding levels for this program in the out years. Grant funding for 2017 has increased by \$2.9 million (10%) from 2016.

Grant Funding - Major Streets



Request Summary - 2017

	Borrowing	Grant/Aid	Assess	Total
2017	\$8,139,271	\$33,749,574	\$317,000	\$42,205,845
2018	\$7,900,707	\$34,302,099	\$385,500	\$42,587,806
2019	\$8,154,880	\$27,959,138	\$265,000	\$36,379,018
2020	\$8,130,823	\$28,044,522	\$516,000	\$36,691,345
2021	\$8,831,237	\$34,710,335	\$395,500	\$43,937,072
2021	\$7,944,800	\$37,164,200	\$449,000	\$45,558,000
Total	\$49,101,718	\$195,929,868	\$2,327,000	\$247,359,086

In September 2014, the Common Council passed a resolution urging the state to allocate a greater portion of the Transportation Fund to local transportation projects.

Recent Construction Activity:

W. Morgan Avenue: W. Forest Home Avenue – S 43rd Street	(2015)
S. 27th Street: W Drexel Avenue – S College Avenue	(2015)
N. Teutonia Avenue: W. Ruby – W. Capitol Drive	(2015)
S. Howell Avenue: E/W Layton – E/W Howard Avenue	(2015)
S. 27th Street: W. Howard Avenue – Union Pacific Railroad	(2014)
W. Appleton Avenue (Hwy 41): W. Capitol Drive – N. 107th Street	(2014)
W. Hampton Avenue: N. Teutonia Avenue – N Green Bay Avenue	(2014)
S. Howell Avenue (STH 38): W. Ryan Road to W. Grange Avenue	(2014)
N. Mayfair Road/Lovers Lane: W. Burleigh Street – W. Silver Spring .	(2014)
N. 27th Street: W. St. Paul Avenue – W. Highland Boulevard	(2013)
Capitol Drive: N. 84th Street – N. Mayfair Road	(2013)
107th Street: W. Brown Deer Road – City Limits	(2013)
20th Street: W. Hopkins Street – W. Capitol Drive	(2012)
91st Street: N. Swan Road – W. Flagg Avenue	(2012)
Capitol Drive: N. 60th Street - N. 84th Street	(2012)
Morgan Avenue: S. 68th Street – S. 84th Street	(2012)
Port Washington Road: N. Dr. MLK Dr. – City Limits	(2012)

Capital Request History – Major Street Paving**Annual Request**

	Borrowing	Grant/Aid	Assess	Total
2017	\$8,139,271	\$33,749,574	\$317,000	\$42,205,845
2016	\$8,912,808	\$33,090,919	\$473,500	\$42,477,227
2015	\$7,451,528	\$37,207,907	\$390,000	\$45,049,435
2014	\$6,213,800	\$43,778,200	\$1,000	\$49,993,000
2013	\$435,000	\$50,900,000	\$1,000	\$51,336,000
2012	\$9,776,200	\$68,556,800	\$1,000	\$78,334,000
2011	\$8,314,100	\$51,505,230	\$100	\$59,819,430

Six-Year Request

	Borrowing	Grant/Aid	Assess	Total
2017	\$49,101,718	\$195,929,868	\$2,327,500	\$247,359,086
2016	\$44,126,300	\$181,774,552	\$2,130,000	\$228,027,852
2015	\$42,897,178	\$203,893,217	\$5,307,250	\$252,097,595
2014	\$34,377,850	\$191,374,610	\$2,728,000	\$228,480,460
2013	\$31,851,300	\$217,952,800	\$3,083,900	\$252,888,000
2012	\$39,010,000	\$188,197,000	\$2,798,500	\$230,006,000
2011	\$36,076,715	\$163,530,060	\$5,849,400	\$205,456,175

Local Street Program

Year	Tax Levy	Gen Oblig.	Spec Assess	Total	% Δ	Actual
2017 Request		\$7,500,000	\$500,000	\$8,000,000	5%	
2016		\$7,000,000	\$600,000	\$7,600,000	(24%)	
2015		8,800,000	1,200,000	10,000,000	(26%)	
2014		12,500,000	1,000,000	13,500,000	(16%)	15,355,387
2013		15,000,000	1,000,000	16,000,000	12%	15,649,067
2012		14,297,500	100	14,297,600	0%	14,961,336
2011		14,291,600	100	14,291,700	19%	14,334,304
2010		12,000,000	1,000	12,001,000	17%	11,415,552
2009		10,300,000	100	10,300,100	58%	9,367,035
2008	1,020,000	4,480,000	1,000,000	6,500,000	2%	8,149,714
2007	2,289,956	2,664,600	1,387,494	6,342,050		5,565,474
Total	\$3,309,956	\$101,333,700	\$6,188,794	\$110,832,450		\$94,797,869

The 2017 request is for a total of \$8 million in capital funding, an increase of \$400,000 (5%) from the 2016 request and the 2016 Budget.

During the 2015 Budget process, the department proposed a new short term strategy for making improvements to the City's streets. It was called the "Extreme Makeover Strategy" and it proposed using a portion of local street funding over three years, to execute high impact projects. After three years, the department would return to a traditional reconstruction strategy.

To facilitate this strategy, a budget amendment moved \$3.5 million that had been proposed for the Local Street program to the High Impact account. Based on maps provided by DPW, the amendment added approximately 11 miles to the High Impact program and removed just over 3.5 miles from the Local Street program.

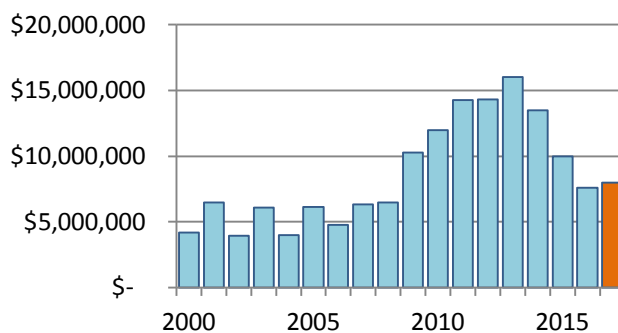
In 2014 and 2015, the High Impact Program focused on arterials and collectors. In 2016, High Impact funds will be used on a limited number of local streets.

Request Summary* – 2017

2017	\$8,000,000
2018	\$14,000,000
2019	\$14,000,000
2020	\$14,000,000
3021	\$14,000,000
2022	<u>\$14,000,000</u>
Total	\$83,000,000

*Includes special assessments

Local Streets - Budgeted Funding

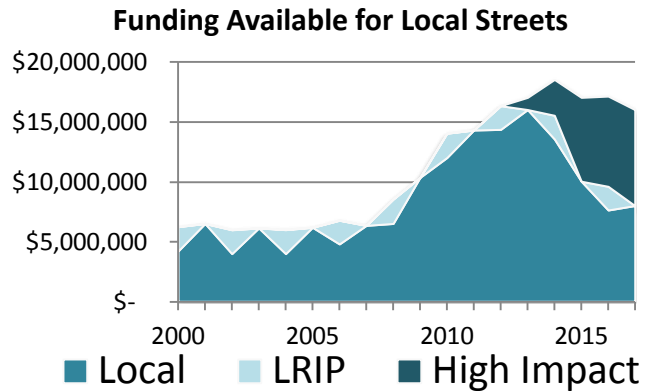


The department has begun using a two year paving program instead of the old six year program. The 2016 and Preliminary 2017 Paving Programs are shown below.

A pavement condition survey was completed during 2013 and 2014. The department reported that 36.5% of the street were in good condition, 36.0% were in fair condition and 27.5% were in poor condition. An update provided by the department showed that at the end of 2015, roadway condition had improved

slightly with 38.5% of the streets in good condition, 35.4% in fair condition and 26.1% in poor condition.

Using a replacement cycle based on average useful pavement life has limitations when trying to determine adequate funding levels. Because High Impact projects do not have the same expected life as a traditional reconstruction project, it will be important that the department track not only surface age, but surface treatment type to accurately project future maintenance and replacement needs.



Common Council File Number 080034 established an ordinance which established a Motor Vehicle Registration Fee (MVR) whose revenues would be used to defray City costs for transportation related improvements. A minimum of 10% of MVR fee receipts must be allocated to street maintenance activities. DPW has allocated \$1.0 million of the total budget for the local road program in 2017 for capital maintenance.

Capital Request History – Local Street Paving

Annual Request (including special assessments)

2017	\$8,000,000
2016	\$6,100,000 (alternate)
2016	\$7,600,000
2015	\$13,500,000
2014	\$13,500,000
2013	\$16,000,000 (incl High Impact)
2012	\$13,800,000
2011	\$15,400,000

Six-Year Request

	Borrowing	Assess	Total
2017	\$77,500,000	\$5,500,000	\$83,000,000
2016	\$77,700,000	\$6,600,000	\$84,300,000 (alternate)
2016	\$77,200,000	\$6,400,000	\$83,600,000
2015	\$87,700,000	\$7,500,000	\$95,200,000
2014	\$89,300,000	\$7,300,000	\$96,600,000
2013	\$90,700,000	\$7,200,000	\$97,900,000
2012	\$95,600,000	\$2,800,200	\$98,400,200
2011	\$85,800,000	\$2,100,300	\$87,900,300

2016 Paving Program

Project	Pavement
S. 5th St.- W. Lincoln Ave. to W. Becher St. \	Asph Surf
S. 5th St. - W. Scott St. to W. Virginia St. (maybe \$450,000 TID \$\$)	Asph Surf
S. 23rd St. - W. National Av. to W. Pierce St. (TID-27- \$100,000)	asphalt
S. 25th St. - W. National Av. to W. Pierce St. (TID-27 \$150,000)	asphalt
N. 32nd St. - W. Lisbon Av. to W. North Av.	Concrete
N. 39th St. - W. Locust St. to W. Chambers St.	Concrete
N. 52nd St. - W. Villard Av. to W. Silver Spring Dr.	Asph Surf
N. 53rd St. - W. Roosevelt Dr. to W. Keefe Av.	Concrete
N. 54th Bd. - W. Keefe Av. to W. Melvina St.	Concrete
N. 55th St. - W. Florist Av. To W. Douglas Av.	Asph Surf
N. 70th St. - 1000'+/- south of W. Glenbrook Rd. to W. Glenbrook Rd.	Asph Surf
N. 91st St. - W. Center St. to W. Locust St.	Asph Surf
W. Douglas Av. - N. 55th St. to N. 60th St.	Asph surf
W. Elm St. - N. Teutonia Av. to A Pt 1600' +/- W. of N. Teutonia Av.	Asph Surf
W. Fairmount Av. - N. 107th St. to N. 108th St.	Asph Surf
N. Holton St. - E. Capitol Dr. to E. Hope Av.	Asph Surf
E. Hope Av. - N. Richards St. to N. Holton St.	Asph Surf
W. Hope Av./W. Maxwell Pl. - N. 51st Bl. to W. Fond du Lac Av. (TID-42)	Asphalt
W. Howard Av. - W. Loomis Rd. to S. 43rd St. (City of Greenfield)	Asphalt
N. Maryland Av. - E. Newberry Bd. to E. Kenwood Bd.	Asph Surf
W. Medford Av. - W. Congress St. to N. 68th St. (TID- 42 \$600,000)	Asphalt
W. Mitchell St. - S. 38th St. to Miller Park Way (Portions in W Milw)	Asph Surf
E. Nash St. - N. Fratney St. to N. Holton St. (Elimination of RR Xings)	Concrete
N. Pierce St. - E. Center St. to E. Burleigh St.	Concrete
E. Stewart St. - S. Marina Dr. to S. Hilbert St.	Concrete
W. Walker St.- S. 2nd St. to S. 3rd St.	Concrete
W. Woolworth Av. - N. Sherman Bl. to N. 51st St.	Asph Surf

2017 Proposed Paving Program

Project	Pavement
W. Linwal La. - N. 26th St. to Cul de Sac 180'+/- West of N. 26th St.	Concrete
W. Rohr Av. - N. Sherman Bl. to N. 51st Bl.	Asph Surf
N. 69th St. - W. Capitol Dr. to W. Hope Av.	Asph Surf
N. 75th St. - W. Beckett Av. to W. Congress St.	Asph Surf
W. Carmen Av. - N. 68th St. to N. 76th St.	Asph Surf
N. Maryland Av.- N. Prospect Av. to E. Newberry Bd.	Asph Surf
N. 81st St. - W. Courtland Av. to W. Hampton Av.	Asph Surf
N. 83rd St. - W. Keefe Av. to W. Capitol Dr.	Asph Surf
N. 95th St. - W. Keefe Av. to W. Nash St.	Asph Surf
W. Metcalf Pl. - N. 92nd St. to N. 100th St. (incl. W. Nash St.)	Asph Surf
W. Nash St. - N. 95th St. to N. 96th St.	Asph Surf
N. 2nd St. - W. North Av. to W. Center St.	Reconstruct
W. Garfield Av. - N. Dr. Martin Luther King Jr. Dr. to N. 4th St.	Reconstruct
N. Richards St. - E. Capitol Dr. to Point N. of E. Hope Av.	Asph Surf
N. 44th St.- W. Roosevelt Dr. to W. Capitol Dr.	Asph Surf
W. Woolworth Av. - 400' +/- west of N. 51st St. to 200' +/- west of N. 56th St.	Asph Surf
N. 63rd St. - W. Nash St. to a point 450 +/- north of W. Nash St.	Asph Surf
N. 64th St. - W. Nash St. to a point north of W. Nash St.	Asph Surf
W. Blue Mound Ct. - 400'+/- east of N. Story Pkwy to 50'+/- east N. Story Pkwy	Asph Surf
W. Nash St. - N. 62nd St. to a point 150 +/- west of N. 64th St.	Asph Surf
W. St. Paul Av. - N. 92nd St. to N. 95th St.	Asph Surf
S. 53rd St. - W. Nebraska Av./S. Utah Av. to W. Oklahoma Av.	Asph Surf
S. 71st St. - S. Massachusetts Av. to W. Wilbur Ct.	Asph Surf
S. 82nd St. - W. Morgan Av. to W. Holt Av.	Asph Surf
S. 85th St. - W. Morgan Av. to W. Holt Av.	Asph Surf
S. 19th St. - W. Edgerton Av. to point 100'+/- north of W. Halsey Av.	Reconstruct
S. 21st St. - W. Van Norman Av. to W. Whitaker Av.	Asph Surf
W. Denis Av. - S. 14th St. to S. 15th Pl.	Asph Surf
W. Eden Pl. - S. 8th St. to S. 11th St	Asph Surf
S. Brust Av. - E. Euclid Av. to E. Oklahoma Av.	Asph Surf
S. California St. - E. Euclid Av. to E. Oklahoma Av.	Reconstruct

High Impact Paving Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017				\$8,000,000		
Request						
2016		8,000,000		8,000,000	14%	
2015	350,000	6,650,000		7,000,000	133%	
2014	2,000,000	1,000,000		3,000,000	200%	2,638,800
2013		1,000,000		1,000,000		567,189
Total	\$2,350,000	\$16,650,000		\$19,000,000		\$3,205,989

This program was created by the 2013 Budget. High impact streets serve a higher number of businesses in commercial corridors. This program will target streets that may be eligible for state or federal aid, but for which aid is not currently available. The goal is to expedite street improvements and maintenance that will have an immediate benefit to adjacent business. This program will not include concrete work. There will be no property owner assessments.

Request Summary – 2017

2017	\$8,000,000
2018	\$2,000,000
2019	\$2,000,000
2020	\$2,000,000
2021	\$2,000,000
2022	<u>\$2,000,000</u>
Total	\$18,000,000

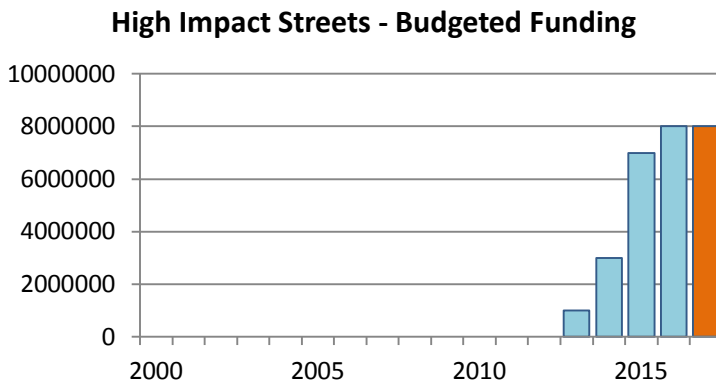
Streets in this program are improved using an asphalt overlay.

Projects can be estimated and bid in a short amount of time. Because there is no curb removal, the projects have a minimal impact on street-lighting and traffic-control facilities. Projects are typically constructed in a few days, minimizing impacts on businesses and traffic patterns.

During the 2015 Budget process, the department proposed a new short term strategy for making improvements to the City’s streets. It was called the “Extreme Makeover Strategy” and it proposed using a portion of local street funding over three years, to execute high impact projects.

To facilitate this strategy, a budget amendment moved \$3.5 million from the Local Street account in the 2015 Budget to the High Impact account. Based on maps provided by DPW, the amendment added approximately 11 miles to the High Impact program and removed just over 3.5 miles from the Local Street program.

The department anticipates using the Extreme Makeover Strategy for 2015, 2016 and 2017. Beginning in 2016, the department will use the High Impact approach on more residential streets.



Construction of some 2014 High Impact projects was delayed because the first round of bids came in too high. Actual contract costs for streets constructed in 2013 and through September 2014 average \$300,000 per mile.

Capital Request History – High Impact Program

Annual Request		Six-Year Request	
2017	\$8,000,000	2017	\$18,000,000
2016	\$7,500,000 (alternate)	2016	\$20,000,000 (alternate)
2016	\$8,000,000	2016	\$20,000,000
2015	\$2,000,000	2015	\$8,000,000
2014	\$1,500,000	2014	\$9,000,000
2013			

Proposed High Impact Projects 2016 & 2017

<u>Year</u>	<u>Roadway</u>	<u>From</u>	<u>To</u>
2016	N 100th St.	Hampton south	City Limits 120' +/-
2016	S 14th St	W. Maplewood Ct.	W. Abbott Ave.
2016	S 15th Pl.	W Abbott	Maplewood
2016	S 16th Street	W Windlake Ave	W Oklahoma Ave
2016	S 35th St.	W. Greenfield Ave.	W. National Ave.
2016	N 37th St.	W. FDL Ave.	W Townsend Ave
2016	N 51st St.	W. Capitol Dr.	W. Hampton Ave.
2016	N 51st St.	W. Burleigh	W. Center St.
2016	N 60th Street	Appleton Ave.	Burleigh St
2016	N 6th St.	W. Walnut	North Ave.
2016	N 6th Street	W Capitol Dr	W Marion Ave
2016	N 81st St.	W. Calumet Rd.	W. Bradley Rd.
2016	N 84th St.	W. Florist	W. Mill Rd.
2016	N 87th St.	Bradley	Tower
2016	N 92nd St.	W. Capitol Dr,	W. Lisbon Ave.
2016	W Abbott Ave.	S. 15th Pl.	S. 13th St.
2016	W Atkinson St.	W. Keefe	N. Teutonia Ave.
2016	W Calumet Rd.	N. 76th	N. 91st
2016	W Center St.	N. 20th	N. 27th
2016	E Chicago Ave.	N. Jackson	N. Milwaukee
2016	E Chicago Ave.	N. Milwaukee	N. Water
2016	N Colgate Circle	W Fiebrantz	N 88th Street
2016	W Grange Ave.	S. 6th St.	S. Howell Ave.
2016	W Hope Ave	N 92nd Street	N 84th Street
2016	N Jefferson St.	E. St. Paul	E. Chicago
2016	N Jefferson St.	E. Chicago	E. Erie
2016	W Lincoln Ave.	S. Layton/S. 27th	S 16th St
2016	W Lisbon Ave/Walnut	N. 20th St.	N. 31st (Bridge)

2016		Maplewood Ct.	S. 15th Pl.	S. 14th St.
2016	N	Maryland	Hartford	Edgewood
2016	W	Mill Rd.	N. 124th	Hwy 45
2016	W	Morgan Ave.	68th Street	W Forest Home Ave.
2016	W	North Ave.	N. 9th	W. FDL Ave
2016	N	Oakland Ave.	E. Park Pl.	E. Edgewood Ave.
2016	W	Oklahoma St.	S. 6th St.	S. Chase Ave.
2016	W	Olive Street	N 89th Street	N 84th Street
2016	W	Roosevelt Dr.	N. 36th St.	FDL Ave.
2016	N	Van Buren	E. Kilbourn	E. Ogden
2016	W	Villard	N. Sherman Blvd	N. 51 St.
2016	W	Wells St.	N. 37th	N. 27th
2017	S	27th St.	W. National Ave.	W. Evergreen Ln.
2017	N	32nd St.	W. Atkinson Ave.	W. Cameron Ave.
2017	S	35th St.	W. Lincoln Ave	W. Rogers St.
2017	N	37th St.	W. Wisconsin Ave.	W. State St.
2017	N	60th Street	W Center St	W Vliet
2017	W	Atkinson St.	N. 27th St.	N. 32nd St.
2017	W	Bradley Rd.	Granville Woods	N. 76th
2017	W	Cameron Ave.	N. 32nd St.	N. 35th St.
2017	W	Center St.	N. Sherman Blvd.	N. 60th St.
2017	W	Congress Ave	N 92nd Street	N 84th Street
2017	E	Corcoran St.	N. Jefferson	N. Milwaukee
2017	W	FDL Ave.	Pt. north of 68th	N. 76th
2017	W	Greenfield	S. 35th	S. 43rd
2017	N	Hopkins	N. Sherman Blvd.	N. 35th St.
2017	E	Kenwood Blvd	N. Lake Dr.	N. Downer Ave.
2017	W	Kilbourn	N. 6th	Milwaukee River
2017	W	Lakefield Dr.	W. Morgan Ave.	S. 35th St.
2017	N	Milwaukee St.	E. Menomonee	E. Corcoran
2017	N	Prospect Ave.	E. Ogden	E. North
2017	N	Sherman Blvd	Congress	Hampton
2017	W	Silver Spring Rd.	Lovers Lane	SS Drive
2017	S	Superior St.	E. Russell	Pt. S. of E. Oklahoma
2017	N	Water St.	E. Kilbourn	N. Van Buren
2017	W	Wells St.	N. 27th	N. 16th St.
2017	W	Windlake Ave	S 7th Street	S 16th St

Completed High Impact Projects

<u>Year</u>	<u>Roadway</u>	<u>From</u>	<u>To</u>
2013	N 107th St	STH 145 Bridge	A point 900 ft North
2013	N 60th St	W. Center St	W. Appleton Ave
2013	N Farwell Ave	E. Brady St	E. Prospect Ave
2013	N Jefferson St	E. Kilbourn Ave	E. Wells St
2013	E Kilbourn Ave	Milwaukee River	N. Marshall St
2013	E Michigan Ave	N. Van Buren St	N. Water St
2013	N N. Jefferson St	E. Wells St	E. Clybourn St
2013	N Prospect Ave	E. Kilbourn Ave	E. Ogden St
2013	N Water	E. Mason St	E. Kilbourn Ave
2014	N 16th St	W. Wisconsin Ave.	W. State St.
2014	S 2nd St.	W. National	W Scott St
2014	N 55th St (Hawley)	W. Vliet St.	W. Lisbon Ave.
2014	N Bradley Rd.	N. 76th St.	N. 92nd St.
2014	E Brady St.	N. Water St.	N. Farwell Ave.
2014	N Holton Ave.	E. Reservoir Ave.	E. Center St.
2014	N Humboldt Ave.	E. Meinecke St.	E. Keefe St.
2014	S Kinnickinnic Ave.	E. Lincoln Ave.	E. Nevada (underpass)
2014	S Muskego Ave.	W Becher st	W. Forest Home Ave.
2014	N Teutonia	W. Villard	W. Silver Spring
2014	W Wells St.	N. 13th St.	N. 17th St.
2015	S 13th St.	Oklahoma	Montana
2015	S 20th St.	W. College	W. Ramsey
2015	N 27th St.	W. Capitol Dr.	W. Townsend
2015	S 2nd St.	W. Scott	W. Mitchell
2015	N 55th/Hawley	W. Lisbon	W. Burleigh
2015	S 6th St.	W. Greenfield	W. Virginia
2015	N 84th St.	W. Mill Rd.	N. Burbank
2015	W Center St.	N. 35th	N. Sherman
2015	W Center St.	N. 12th	N. 20th
2015	W Florist Ave.	N. Teutonia Ave.	N. Sherman Blvd.
2015	W Green Tree Rd.	N. 43rd	N. 60th
2015	N Holton Ave.	E. Locust	E. North
2015	W Keefe Ave.	N. 94th St.	N. 100th St.
2015	S Kinnickinnic Ave.	I - 794	E. Oklahoma Ave.
2015	W Locust St.	W. Fond du Lac	N. 35th St.
2015	W Morgan Ave.	S. 9th St.	S. 20th St.
2015	W Morgan Ave.	E. of Lakefield	S. 35th
2015	W Morgan Ave.	S. 35th	S. 43rd
2015	S Muskego Ave.	S. Caesar Chavez	W. Becher
2015	E Newberry Blvd.	N. Oakland Ave.	N. Downer Ave.
2015	E Newberry Blvd.	N. Downer Ave.	N. Lake Dr.
2015	W North Ave.	W. Lisbon	West City Limits
2015	E/W Pleasant St.	N. Dr. MLK	N. Palmer
2015	W Roosevelt Dr.	W. FDL Ave.	N. 51st Blvd.
2015	W Roosevelt Dr.	N. 51st Blvd.	N. 60th St.
2015	N Van Buren	E. Brady St.	E Ogden Ave
2015	W Villard	N. 51st	N. 60th
2015	W Villard	N. 60th	N. 68th

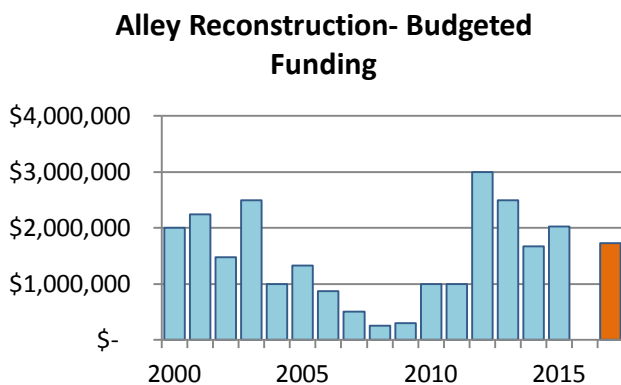
Alley Paving Program

Year	Tax Levy	Gen Oblig.	Special Assess	Total	% Δ	Actual
2017 Request		\$1,725,000	\$400,000	\$2,125,000		
2016				0		
2015		1,625,000	400,000	2,025,000	21%	
2014		1,625,000	50,000	1,675,000	(33%)	1,852,166
2013		1,625,000	875,000	2,500,000	(17%)	1,907,188
2012		2,400,000	600,000	3,000,000	200%	1,313,350
2011		800,000	200,000	1,000,000	0%	696,848
2010		800,000	200,000	1,000,000	233%	583,506
2009	0	300,000	100	300,100	20%	421,990
2008	0	150,000	100,000	250,000	(50%)	380,207
2007	125,000		375,000	500,000		745,910
Total	\$125,000	\$9,325,000	\$2,800,100	\$12,250,100		\$7,901,165

The City's alley network is comprised of approximately 4,000 alleys totaling 400 miles in length. DPW generally considers the useful life of an alley to be 50 years. Between 2000 and 2005, based on funds budgeted for the alley program, approximately 2 miles of alleys were replaced each year resulting in a replacement cycle of nearly 200 years. Average funding between 2006 and 2009 decreased by over 70%. Funding levels have recovered significantly since 2009.

Until 2009, the cost of paving alleys was recovered through a special assessment at a rate of 90%. With the passage of the Motor Vehicle Registration Fee (Common Council file 080034) the recovery rate was reduced to 60%. As part of the 2012 Budget process, the Common Council increased funding for the Alley Program and decreased the special assessment recovery ratio from 60% to 30%. The Alley Program will have the capacity to pave approximately 2.8 miles of alleys in 2017. Going forward, the reduction of the recovery rate will reduce the number of alleys that can be paved with a fixed amount of borrowing.

Maintaining funding at a level of \$2 million with a 30% recovery ratio will result in a replacement cycle of nearly 140 years.



Funding proposed for 2016 (\$645,000) was removed by amendment prior to the adoption of the Budget. The amendment was proposed, in part because concrete prices were projected to be usually high in 2016 and most alleys are paved with concrete.

Policy decisions regarding the appropriate level of funding and cost recovery must take into consideration, property owner expectations as well as the amount of

Request Summary – 2017*

2017	\$1,725,000
2018	\$1,725,000
2019	\$1,725,000
2020	\$1,725,000
2021	\$1,725,000
2022	<u>\$1,725,000</u>
Total	\$10,350,000

* Includes special assessments

funding available and the relative importance of other capital projects and programs. Alleys do not form the same type of transportation network that streets do, but in many neighborhoods they serve the important function of facilitating the removal of garbage by sanitation crews.

In a climate of funding constraints, deferring maintenance on alleys for a period of years can be an effective strategy for focusing limited infrastructure dollars where they will have the most impact.

Disinvestment in alleys can, however, lead to an overall decline in the appearance of a neighborhood and adversely affect property values. Investment in alley improvements can increase the perception of safety and accessibility. This may in turn encourage other neighborhood investments and improvements. This could be especially beneficial in neighborhoods struggling with high numbers of vacant and foreclosed homes.

Increased investment in alleys could also create jobs and opportunities for smaller contractors. It is important to note, however, that although their size makes alley projects manageable for small contractors, alleys are technically much more difficult to design and construct than most streets. Using inexperienced contractors may result in drainage and access issues in newly paved alleys.

Capital Request History – Alley Paving

Annual Request

	Borrowing	Spec Assess	Total
2017	\$1,725,000	\$400,000	\$1,125,000
2016	\$0	\$0	\$0 (alternate)
2016	\$2,025,000	\$100,000	\$2,125,000
2015	\$1,625,000	\$400,000	\$2,025,000
2014	\$1,975,000	\$50,000	\$2,025,000
2013	\$1,950,000	\$1,050,000	\$3,000,000
2012	\$1,800,000	\$1,200,000	\$3,000,000
2011	\$1,500,000	\$1,000,000	\$2,500,000

Six-Year Request

	Borrowing	Special Assess	Total	Annual Average
2017	\$10,350,000	\$2,400,000	\$12,750,000	
2016	\$10,650,000	\$2,500,000	\$13,150,000	\$2,191,700 (alternate)
2016	\$10,650,000	\$2,100,000	\$12,750,000	\$2,125,000
2015	\$9,750,000	\$2,900,000	\$12,650,000	\$2,125,000
2014	\$10,100,000	\$2,050,000	\$12,150,000	\$2,020,500
2013	\$12,450,000	\$8,050,000	\$20,500,000	\$3,410,700
2012	\$12,000,000	\$8,000,000	\$20,000,000	\$3,330,300
2011	\$11,700,000	\$7,800,000	\$19,500,000	\$3,250,000

New Street Construction

Year	Tax Levy	Gen Oblig.	Special Assess	Total	% Δ	Actual
2017 Request		\$200,000	\$150,000	\$350,000		
2016		0		0	(100%)	
2015		0		0	(100%)	
2014		200,000	150,000	350,000		367,786
2013		0		0	(100%)	231,458
2012		200,000		200,000		22
2011				0	(100%)	1,899
2010		200,000	50,000	250,000	25%	13,979
2009		200,000		200,000	0%	92,452
2008		200,000		200,000	(33%)	118,552
2007		200,000	100,000	300,000		154,455
Total		\$1,200,000	\$300,000	\$1,500,000		\$980,603

This program provides for the construction of presently unimproved streets to serve residential, commercial or industrial areas. These projects are sponsored by the City with a portion of the cost being recovered by special assessments levied against abutting properties. As of the request date, there were no requests for new streets.

Capital Request History – New Street Construction

	Annual Request			Six-Year Request			
	Borrowing	Assess	Total	Borrowing	Assess	Total	
2017	200,000	\$150,000	\$350,000	2017	\$600,000	\$450,000	\$1,050,000
2016	\$200,000	\$150,000	\$350,000	2016	\$600,000	\$450,000	\$1,050,000
2015	\$0	\$0	\$0	2015	\$600,000	\$450,000	\$1,050,000
2014	\$200,000	\$150,000	\$350,000	2014	\$1,200,000	\$900,000	\$2,000,000
2013	\$0	\$0	\$0	2013	\$1,000,000	\$750,000	\$1,750,000
2012	\$0	\$0	\$0	2012	\$950,000	\$750,000	\$1,700,000
2011	\$200,000	\$50,000	\$250,000	2011	\$1,200,000	\$800,000	\$2,000,000

New Street – Developer Funded

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2017				\$0		
Request						
2016			100,000	100,000	(75%)	
2015			400,000	400,000		
2014			400,000	400,000		628,058
2013			400,000	400,000		1,029,970
2012			0	0		428,031
2011			0	0		424,896
2010			400,000	400,000		293,251
2009			400,000	400,000		1,457,226
2008			0	0		283,603
2007			0	0		25,846
Total			\$2,100,000	\$2,100,000		\$4,570,881

This program provides for the construction of streets required to serve platted subdivisions and planned developments with funds provided by the developer. This fund is also used for street paving projects that are partially in other adjacent communities. The projects are constructed, then billed to the community.

\$1,350,000 was transferred into this account in April 2013 (Common Council file 121617) to provide authority for the paving projects on N. 124th Street and W. County Line Road. The projects were constructed in partnership with the adjoining municipalities. Agreements were placed to ensure the reimbursement of funds spent on these projects. The City was the lead agent on both of projects.

Capital Request History – New Streets – Developer Funded

Annual Request		Six-Year Request	
2017	\$0	2017	\$0
2016	\$0	2016	\$0
2015	\$400,000	2015	\$2,400,000
2014	\$400,000	2014	\$2,400,000
2013	\$400,000	2013	\$2,400,000
2012	\$0	2012	\$2,000,000
2011	\$0	2011	\$2,000,000

Sidewalk Replacement Program

Year	Tax Levy	Gen Oblig.	Special Assess	Total	% Δ	Actual
2016 Request		\$2,000,000	\$0	\$2,000,000	5%	
2015		\$1,425,000	\$475,000	\$1,900,000	6%	
2015		1,350,000	450,000	1,800,000	26%	
2014		1,000,000	425,000	1,425,000	7%	1,427,233
2013		1,000,000	333,000	1,333,000	(31%)	1,024,026
2012		1,478,000	464,500	1,942,500	44%	2,054,154
2011		1,000,000	345,000	1,345,000	10%	879,620
2010		900,000	325,000	1,225,000	53%	1,375,968
2009		650,000	150,000	800,000	(9%)	696,940
2008		480,000	400,000	880,000	29%	672,453
2007	337,500		343,750	681,250		553,802
Total	\$337,500	\$9,283,000	\$3,711,250	\$13,331,750		\$8,684,196

The purpose of the sidewalk replacement program is to eliminate cracked, spalled and out-of-grade sidewalk in the public way. In 2007 a detailed field sidewalk survey was completed which represented 5% of all sidewalks in random streets throughout the City. This survey indicated that as much as 18% of the 68 million square feet of sidewalk in the City may be defective.

This program has been used to maintain the City’s sidewalk system since 1963. Although significant increases have been made in this program in the last five years the investment trend in sidewalks since 2000 has been downward.

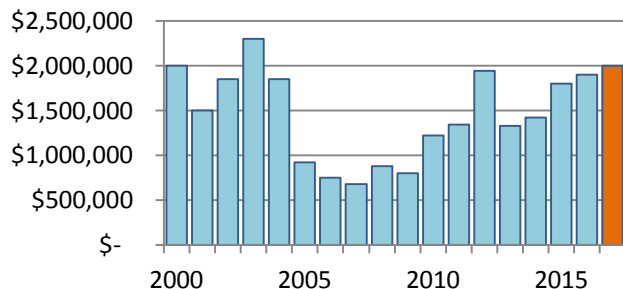
This program is not the only means by which sidewalk is replaced in the City. Additional sidewalks routinely get replaced in conjunction with local and major street improvement projects, City maintenance force work, excavation restoration work and development projects. Average annual walk replacement since 2009 for the local and major street programs is 378,000 SF and 92,000 SF respectively. The expansion of the High Impact program, which does not address sidewalk condition, may reduce the amount of sidewalk replaced.

Request Summary – 2017*

2017	\$2,000,000
2018	\$1,750,000
2019	\$1,750,000
2020	\$1,750,000
2021	\$1,750,000
2022	<u>\$1,750,000</u>
Total	\$10,750,000

*Includes Special Assessments

Sidewalk Replacement - Budgeted Funding



This capital account funds two separate sidewalk replacement programs. The larger of the two programs, replaces sidewalks in a systematic, area by area manner. The goal of this program is to replace between 300,000 and 350,000 square feet of sidewalk each year.

The second program, called “Scattered Sites” replaces defective sidewalks around the City as they are requested by property owners. DPW budgets approximately \$200,000 each year in capital authority to

replace sidewalks through this program. This level of funding allows the City to complete work at approximately 100 properties each year. In October 2011, there was a backlog of 520 properties. The Common Council added \$597,500 to this sidewalk program during the 2012 Budget process. The backlog has persisted, however, and the estimated wait to have sidewalk replaced through the Scattered Site Program is between 3 and 4 years.

Capital Request History – Sidewalk Replacement

Annual Request

	Borrowing	Special Assess	Total
2017	\$2,000,000	\$0	\$2,000,000
2016	\$1,000,000	\$375,000	\$1,375,000 (alternate)
2016	\$1,425,000	\$475,000	\$1,900,000
2015	\$1,350,000	\$450,000	\$1,800,000
2014	\$1,275,000	\$425,000	\$1,700,000
2013	\$1,200,000	\$400,000	\$1,600,000
2012	\$1,100,000	\$400,000	\$1,500,000
2011	\$1,190,000	\$410,000	\$1,600,000

Six-Year Request

	Borrowing	Special Assess	Total	Average
2017	\$10,750,000	\$1,250,000	\$12,000,000	
2016	\$9,330,000	\$3,220,000	\$12,550,000 (alternate)	\$2,091,700 per year
2016	\$9,355,000	\$3,220,000	\$12,575,000	\$2,085,800 per year
2015	\$9,055,000	\$3,070,000	\$12,125,000	\$2,020,800 per year
2014	\$8,705,000	\$2,995,000	\$11,700,000	\$1,950,000 per year
2013	\$8,325,000	\$2,775,000	\$11,100,000	\$1,850,000 per year
2012	\$7,690,000	\$2,810,000	\$10,500,000	\$1,750,000 per year
2011	\$8,120,000	\$2,980,000	\$11,100,000	\$1,850,000 per year

Street Lighting Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$12,200,000	3%	
2016		9,120,000		9,120,000	3%	
2015		8,860,000		8,860,000	(5%)	
2014	800,000	8,500,000		9,300,000	9%	7,641,665
2013		8,540,000		8,540,000	4%	8,746,347
2012		8,220,000		8,220,000	11%	6,428,443
2011		7,400,000		7,400,000	6%	8,033,078
2010		7,000,000		7,000,000	(11%)	8,203,721
2009		7,850,000		7,850,000	20%	6,668,625
2008	817,080	5,746,170		6,563,250	9%	6,976,692
2007	3,750,000	2,250,000		6,000,000		5,328,472
Total	\$5,367,080	\$73,486,170		\$78,853,250		\$58,027,043

Funding in this program is used to replace deteriorated poles, defective cable, outdated circuitry, aging electrical substations and other lighting equipment, and to modernize the street lighting control system. The City maintains over 68,300 street lights and 8,800 alley lights.

Approximately 48% of the total budget for street lighting in 2017 was expected to be related to the paving program. That percentage has been relatively stable since 2012. In 2011, nearly 57% of the street lighting budget was expected to be related to the paving program. The increases in the street lighting program have been largely related to increases in the paving program.

The frequency of area outages and single/double outages has been increasing steadily due to the City's aging street lighting infrastructure. The City's street light system is a combination of series and multiple circuitry. The series circuitry which is the older technology represents approximately 40% of the system. The City began transitioning to multiple circuitry in the 1950's. It is the series part of the system that is becoming increasingly unreliable. It is also more difficult to repair; requiring more time, specialized

knowledge and unique parts which are becoming more difficult to obtain.

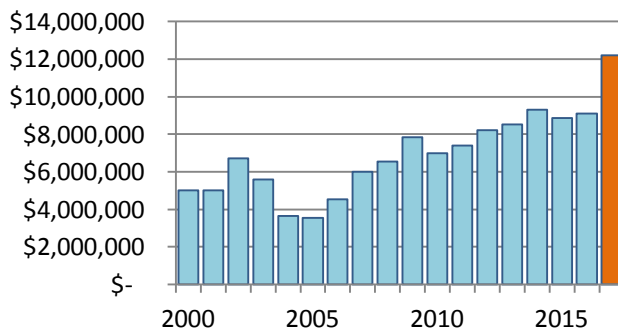
One of the main challenges with the conversion project is that series circuits cannot be replaced one block at a time – for example with a paving project. Each series circuit, which consists of multiple blocks, must be replaced in its entirety. The circuits are large – covering multiple blocks.

A study done by the LaFollette School of Public Affairs in 2009 evaluated various

Request Summary – 2017

2017	\$12,200,000
2018	\$11,500,000
2019	\$12,000,000
2020	\$12,500,000
2021	\$12,500,000
2022	<u>\$12,500,000</u>
Total	\$73,200,000

Street Lighting - Budgeted Funding



funding alternatives for transitioning from series to multiple circuitry. The report estimated that replacing the remaining series circuitry over the next six years would cost between \$120 million and \$131 million. This was determined to be the least cost effective of the alternative evaluated. Maintaining the status quo and continuing to fund the conversion program with \$1 million per year is the most cost effective in the short run but it is not a long term solution. As the failure rate increases, costs related to repairs including parts and overtime will continue to rise. Excessive outage could increase tax payer dissatisfaction, decrease the perception of neighborhood safety and have an impact on crime.

There may be opportunities to reallocate some street light funding from paving projects to series circuitry conversion by postponing the removal of overhead wiring after paving projects. This strategy has generally not been supported.

The City has 249 substations and enclosures, each with numerous circuits. In the past DPW would replace the entire substation at one time. The department has begun replacing individual circuits that are problematic. This will keep the conversion project moving forward in the absence of large amounts of resources and also allow the City to benefit from the reduced maintenance costs of failing circuits. It remains to be seen whether this will be an effective or affordable approach.

“Replacement of Control” continues as part of the City’s Street Lighting Control System Improvement Project. This involves replacing the existing hard-wired control system at substations and enclosures with a radio-based computerized communications system. This improvement provides backup in the event of a communications system failure, allows monitoring of street lighting operation, provides intrusion alarms and provides diagnostics to identify and assist with troubleshooting in response to street lighting system problems. Implementation of this program has been delayed due to increases in the lighting program relative to ARRA funded paving projects.

Capital Request History – Street Lighting

Annual Request		Six-Year Request		Average
2017	\$12,200,000	2017	\$73,200,000	\$12.9 million per year
2016	\$9,800,000 (alternate)	2016	\$71,230,000 (alternate)	\$11.9 million per year
2016	\$10,900,000	2016	\$71,380,000	\$11.9 million per year
2015	\$10,385,000	2015	\$66,395,000	\$11.1 million per year
2014	\$10,000,000	2014	\$59,950,000	\$10.0 million per year
2013	\$9,700,000	2013	\$60,250,000	\$10.0 million per year
2012	\$9,100,000	2012	\$57,400,000	\$9.6 million per year
2011	\$7,500,000	2011	\$53,700,000	\$9.0 million per year

Traffic Control Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$3,110,000	498%	
2016		520,000		520,000	(37%)	
2015		820,000		820,000	(59%)	
2014		1,993,000		1,993,000	(23%)	1,490,725
2013		2,055,000		2,055,000	12%	1,392,236
2012		2,303,000		2,303,000	20%	1,524,042
2011		1,912,250		1,912,250	62%	1,457,349
2010		1,182,500		1,182,500	19%	1,384,737
2009		990,000		990,000	41%	1,166,161
2008	700,000			700,000		801,542
2007	700,000			700,000		818,120
Total	\$1,400,000	\$11,775,750		\$13,175,750		\$10,034,912

This program provides for the upgrade, replacement and installation of traffic control devices as needed to accommodate traffic pattern changes, provide conformity with national standards, comply with City ordinances, and utilize technological advances to improve traffic flow. Traffic control devices are installed and maintained to conform with the federal Manual on Uniform Traffic Control Devices (MUTCD). Technology based improvements and techniques are constantly being incorporated in City traffic control systems to improve traffic flow and reduce vehicle emissions.

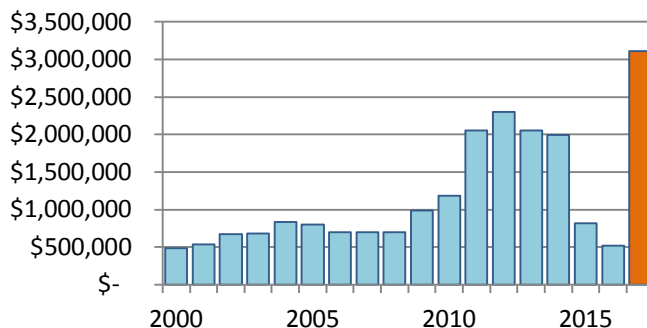
Request Summary – 2017

2017	\$3,110,000
2018	\$2,800,000
2019	\$3,100,000
2020	\$3,200,000
2021	\$3,000,000
2022	<u>\$2,800,000</u>
Total	\$18,010,000

In December 2009, the Federal Highway Administration issued a final rule adopting changes to the 2003 MUTCD. These changes became effective on January 15, 2010. The changes were adopted and incorporated by the State of Wisconsin into state statutes. The changes mandate upgrades and improvements to traffic control signs, signals and pavement marking systems in the City. In August 2011, the FHWA proposed amendments to the MUTCD that would eliminate most of the deadlines for replacing street signs including the 2018 deadline for replacing street name signs.

New sign standards include increased retro-reflectivity and changes in size, placement and content.

Traffic Control - Budgeted Funding



DPW estimates that over 40% of existing signs will need to be replaced to meet the new standards. Changes in traffic signal standards include signal mounting, location, size, type and configuration. DPW has developed a schedule for phasing in the mandated upgrades. Different components of the traffic control system will be phased in on slightly different schedules. A revised schedule was not submitted with the capital request.

In addition to the requirements of the MUTCD, the FHWA and the Department of Justice are considering proposed “Accessibility Guidelines for Pedestrian Facilities in the Public Right-of-Way”. The public comment period closed on February 2, 2012. It is not known when the final rules will be adopted. Key elements of the guidelines which could affect the City include the installation of audible pedestrian signals at all signalized intersections when the controller is changed or software is modified; the installation of signalization on all legs of multi-lane roundabouts; and new requirements for pedestrian clearance times (flashing Don’t Walk sign).

Capital Request History – Traffic Control Facilities Program

Annual Request		Six-Year Request		Priority	
2017	\$3,110,000	2017	\$18,010,000	2017	Not Listed
2016	\$2,550,000 (alternate)	2016	\$17,125,000 (alternate)	2016	Not Listed
2016	\$2,925,000	2016	\$17,970,000	2016	Not Listed
2015	\$2,000,000	2015	\$17,005,000	2015	Not listed
2014	\$2,393,000	2014	\$16,830,000	2014	Not listed
2013	\$2,590,000	2013	\$15,585,000	2013	Not listed
2012	\$2,770,000	2012	\$18,215,000	2012	Not listed
2011	\$2,366,000	2011	\$13,323,500	2011	Not listed

Underground Conduit Program

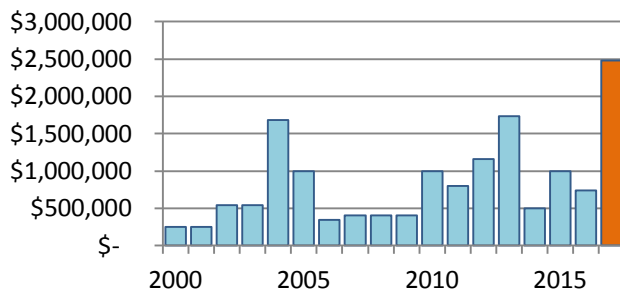
Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$2,484,000	238%	
2016		736,000		736,000	(26%)	
2015		1,000,000		1,000,000	100%	
2014		500,000		500,000	(71%)	671,054
2013		1,736,700		1,736,700	50%	105,616
2012		1,156,500		1,156,500	44%	197,705
2011		800,000		800,000	(20%)	458,759
2010		1,000,000		1,000,000	150%	499,809
2009		400,000		400,000		248,741
2008	400,000			400,000		403,861
2007	400,000			400,000		310,772
Total	\$800,000	\$7,329,200		\$8,129,200		\$2,896,317

The installation of a permanent underground electrical conduit and manhole system provides secure, weatherproof public safety cable and circuit networks for multiple City agencies. The system ensures a reliable route for City communication cables to be installed into all existing and proposed City buildings, provides a reliable route for traffic control at signalized intersections and is utilized for street lighting cable circuits.

Typically, 100% of the underground conduit and manhole program is driven by the paving program. An increase in 2010 funding for this program was directly related to a significant increase in street projects driven by ARRA grants. Funding in 2012 continued above historical averages to reflect increased funding for the Local Street Program. \$782,976 in general obligation borrowing authority lapsed in 2014. (CC file 131209)

From 2011 to 2012 there was a \$25 million increase in the six-year request. The cause of the increase

Underground Conduit - Budgeted Funding



Request Summary – 2017	
2017	\$2,484,000
2018	\$3,240,000
2019	\$3,780,000
2020	\$3,780,000
2021	\$3,780,000
2022	\$3,888,000
Total	\$20,952,000

was a departmental policy shift which changed the average annual requested amount to more accurately reflect opportunities for installing conduit. A list of potential projects was not included with the 2017 capital request.

The conduit system generates lease revenue from telecommunication companies. An expansion of the conduit system could support new communications capabilities.

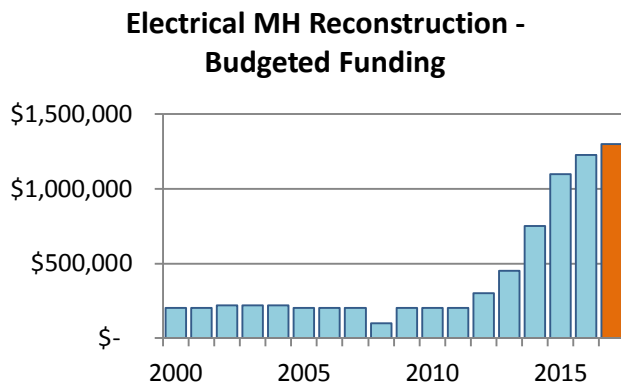
Communications and Electrical Manhole Reconstruction Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2017 Request				\$1,300,000	6%	
201		1,225,000		1,225,000	11%	
2015		1,100,000		1,100,000	47%	
2014		750,000		750,000	67%	452,209
2013		450,000		450,000	50%	261,460
2012		300,000		300,000	50%	217,600
2011		200,000		200,000		148,679
2010		200,000		200,000		124,057
2009		200,000		200,000	100%	494,597
2008		100,000		100,000	(50%)	259,700
2007		200,000		200,000		213,053
Total		\$4,725,000		\$4,725,000		\$2,171,355

This request was formerly titled Underground Conduit and Manhole Reconstruction. In the Budget, the account is titled Underground Electrical Manholes Reconstruction Program.

This program funds the reconstruction of existing manholes located in street right-of-way that provide the necessary entrance networks for all of the communications, traffic control and street lighting cable circuits that serve the City's governmental buildings and agencies. There are presently 7,543 active manholes in the system.

The department has developed a five year inspection plan for the system's manholes. Funding has been requested to address the deficiencies discovered in the 2013 inspection of the first of five areas in the City. The department has divided the City into five areas. One area will be inspected each year.



Request Summary – 2017

2017	\$1,300,000
2018	\$1,300,000
2019	\$1,300,000
2020	\$1,400,000
2021	\$1,400,000
2022	<u>\$1,500,000</u>
Total	\$8,200,000

The results of the inspections indicate that over 200 manholes need to be replaced or have major repairs; almost 80 manholes require deck roof replacement and 585 manholes require chimney or corbel repair.

The average cost to make repairs to a manhole is nearly \$5,000. The average replacement cost is \$23,500.

Capital Request History – Underground Conduit Installation Program

Annual Request		Six-Year Request		Priority
2017	\$2,484,000	2017	\$20,952,000	
2016	\$2,235,000 (alternate)	2016	\$20,160,000 (alternate)	
2016	\$3,360,000	2016	\$20,160,000	
2015	\$5,900,000	2015	\$30,900,000	
2014	\$4,300,000	2014	\$29,300,000	
2013	\$5,000,000	2013	\$30,000,000	
2012	\$4,100,000	2012	\$30,100,000	
2011	\$1,000,000	2011	\$6,000,000	

Capital Request History – Underground Conduit and Manhole Reconstruction

Annual Request		Six-Year Request	
2017	\$1,300,000	2017	\$8,200,000
2016	\$1,225,000 (alternate)	2016	\$8,395,000 (alternate)
2016	\$1,225,000	2016	\$8,395,000
2015	\$1,255,000	2015	\$8,255,000
2014	\$750,000	2014	\$5,785,000
2013	\$1,000,000	2013	\$6,000,000
2012	\$500,000	2012	\$3,000,000
2011	\$200,000	2011	\$1,200,000

Parking Fund

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$6,026,000		
2016	1,780,000	5,000,000		6,780,000	7%	
2015	2,292,000	5,000,000		7,292,000	9%	
2014	1,715,000	5,000,000		6,715,000	4%	1,486,330
2013	1,441,000	5,000,000		6,441,000	11%	1,849,163
2012	790,000	5,000,000		5,790,000	(6%)	1,417,012
2011	1,175,000	5,000,000		6,175,000	4%	1,523,462
2010	950,000	5,000,000		5,950,000	(25%)	1,859,376
2009	2,936,000	5,000,000		7,936,000	3%	2,038,959
2008	2,700,000	5,000,000		7,700,000	38%	1,385,192
2007	595,000	5,000,000		5,595,000		2,141,626
Total	\$16,374,000	\$50,000,000		\$66,374,000		\$13,701,120

The Department of Public Works has submitted nine capital requests for the Parking Fund. Five requests are for parking structure maintenance and four are for other projects. Seven requests are for funding in 2017.

The total six-year request is \$14.9 million and represents a decrease of \$1.2 million (7%) from last year's six-year request.

The most significant increases in the six-year request were the addition of \$1.6 million for repairs at the MacArthur Square parking structure and an additional \$1.6 million for single space credit card meters. The request for the replacement of multi-space meters (\$2.6 million) was not resubmitted.

The requested funding typically appears smaller than the budgeted funding because the Budget is required to include funding from the Parking Fund's Permanent Improvement Reserve account. Requested funding reflects the estimated costs of the proposed capital improvements.

Capital Request Summary							
Programs	2017	2018	2019	2020	2021	2022	Six-Year Total
Structure Maintenance							
1000 N. Water				613,000	396,000		\$1,009,000
2nd & Plankinton	500,000			300,000			\$800,000
4th & Highland							
MacArthur Square	1,610,000	1,610,000	1,464,000	450,000	963,000	468,000	\$6,565,000
Milwaukee Michigan					232,000		\$232,000
Parking Facility Repair & Maint.	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Other Projects							
Repave Tow Lot & Surface Lots	130,000	30,000	30,000	30,000	30,000		\$250,000
License Plate Recognition	586,000						\$586,000
Single Space Credit Card Meter Mechanisms	1,000,000	1,225,000					\$2,225,000
Replace Multi-Space Meters							
Revenue Ctrl and Access Equip	2,000,000						\$2,000,000
Total	\$6,026,000	\$3,065,000	\$1,694,000	\$1,593,000	\$1,821,000	\$688,000	\$14,867,000

Second & Plankinton Parking Structure Repairs

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$500,000		
2016				0		
2015	400,000			400,000	(11%)	
2014	450,000			450,000		325,923
2013				0	(100%)	275,916
2012	540,000			540,000	62%	434,168
2011	325,000			325,000		17,940
2010						190
2009						
2008						
2007						
Total	\$1,715,000			\$1,715,000		\$1,054,137

The department anticipates needing \$800,000 over the next six years for various repairs and maintenance. Work is tentatively scheduled for 2017 and 2021. Funding for this account is considered self-supporting.

The 2017 six-year request has increased by \$162,000 (25%) from the 2016 request.

Funding was provided in 2014 to paint the interior of the structure which was last painted in 1999. Funding in 2015 will be used to modernize the west elevator and reapply the roof level membrane.

Anticipated Work

2017	Caulk joints and paint exterior components (orig. scheduled for 2015)	\$500,000
2021	Replace 121 light fixtures (last done in 2010)	<u>\$300,000</u>
		\$800,000

Capital Request History – 2nd & Plankinton Parking Structure Repairs

Annual Request		Six-Year Request	
2017	\$500,000	2017	\$800,000 (2017, 2020)
2016	\$0	2016	\$638,000 (2017,2021)
2015	\$400,000	2015	\$1,000,000 (2015, 2017, 2018)
2014	\$450,000	2014	\$1,420,000 (2014,2015, 2017, 2018)
2013	\$0	2013	\$1,050,000 (2014, 2017, 2018)
2012	\$540,000	2012	\$1,305,000 (2012, 2016, 2017)
2011	\$325,000	2011	\$1,330,000 (2011, 2012, 2015)

Fourth and Highland Parking Structure Repairs

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$0		
2016	50,000			50,000	(64%)	
2015	137,000			137,000		
2014				0		20,466
2013				0		263,866
2012				0		256,051
2011				0		9,407
2010	550,000			550,000		19,250
2009				0		0
2008				0		0
2007				0		0
Total	\$737,000			\$737,000		\$569,040

No funding has been requested for this structure because it is scheduled for demolition in 2017 as part of the Bucks arena project. The department had anticipated that the structure would need \$850,000 of capital maintenance between 2016 and 2021.

Capital Request History - Fourth and Highland Parking Structure Repairs

Annual Request		Six-Year Request	
2017	\$0	2017	\$0
2016	\$500,000	2016	\$850,000 (2016, 2018)
2015	\$137,000	2015	\$1,037,000 (2015, 2016, 2018)
2014	\$0	2014	\$925,000 (2015, 2016, 2018)
2013	\$0	2013	\$860,000 (2016, 2018)
2012	\$0	2012	\$960,000 (2013, 2015)
2011	\$0	2011	\$935,000 (2013, 2015, 2016)

MacArthur Square Parking Structure Renovation

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$1,610,000		
2016	30,000			30,000	(93%)	
2015	400,000			400,000	(60%)	
2014	1,010,000			1,010,000		912,192
2013				0		181,953
2012				0		129,556
2011				0		608,641
2010				0		0
2009	290,000			290,000	(81%)	1,036,173
2008	1,500,000			1,500,000	305%	84,258
2007	370,000			370,000		27,952
Total	\$3,600,000			\$3,600,000		\$2,980,725

In addition to the funding proposed for 2017, the department anticipates needing \$4.95 million over the next six years for various repairs and maintenance. The 2017 six-year request has increased by \$2.6 million (111%) from the 2015 request.

In 2016, DPW Infrastructure requested a total of \$900,000 to make repairs related to MacArthur Plaza and the Kilbourn tunnel. No funding was provided. The department did not resubmit the request.

Funding was provided in 2014 to replace the expansion joint on the James Lovell level, make concrete repairs, re-apply membrane and pavement markings, and to evaluate the electrical system. Funding in 2015 was used to make concrete repairs and paint the east and west sides of the lower level. \$30,000 was provided in 2016 to take core samples, repair slabs and repaint the basement.

Anticipated Work

2017	Concrete repairs related to tunnel work and Pioneer Village	\$1,610,000
2018	Concrete repairs related to tunnel work and Pioneer Village	\$1,610,000
2019	Electrical upgrade project	\$1,464,000
2020	Electrical upgrade project	\$963,000
2021	Upgrade carbon monoxide ventilation system	<u>\$468,000</u>
		\$6,565,000

Capital Request History – MacArthur Square Parking Structure Renovation

Annual Request		Six-Year Request	
2017	\$1,610,000	2017	\$6,565,000 (2017-2022)
2016	\$30,000	2016	\$4,951,000 (2016-2021)
2015	\$400,000	2015	\$2,350,000 (2015, 2016, 2019, 2020)
2014	\$1,010,000	2014	\$3,360,000 (2014-2019)
2013	\$0	2013	\$1,875,000 (2014-2016)
2012	\$0	2012	\$1,450,000 (2014, 2015, 2017)
2011	\$0	2011	\$1,175,000 (2014, 2016)

Misc. Structural/Mechanical/Electrical Maintenance

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$200,000		
2016	100,000			100,000	(50%)	
2015	200,000			200,000		
2014	200,000			200,000		174,467
2013	0			0	(100%)	244,255
2012	250,000			250,000		164,051
2011	250,000			250,000	(38%)	195,943
2010	400,000			400,000	60%	492,999
2009	250,000			250,000	25%	207,448
2008	200,000			200,000		39,792
2007				0		0
Total	\$1,850,000			\$1,850,000		\$1,518,955

This program is used to provide necessary repairs of structural, mechanical and electrical deficiencies of a non-emergency nature. Funding is also used to correct unplanned deficiencies identified by violation reports issued by building code inspectors that are time-sensitive in nature. The request for this program is titled Parking Facility Repair and Maintenance. Funding is provided in the Misc. Structural/ Mechanical/Electrical Maintenance Account. Funding for this account is considered self-supporting.

No funding was requested for 2013 because there was sufficient carryover authority to make necessary repairs.

Request Summary – 2017

2017	\$200,000
2018	\$200,000
2019	\$200,000
2020	\$200,000
2021	\$200,000
2022	<u>\$200,000</u>
Total	\$1,200,000

Capital Request History – Parking Facility Repair and Maintenance

Annual Request		Six-Year Request	
2017	\$200,000	2017	\$1,200,000
2016	\$200,000	2016	\$1,200,000
2015	\$40,000	2015	\$95,000
2014	\$200,000	2014	\$1,100,000
2013	\$0	2013	\$900,000
2012	\$250,000	2012	\$1,450,000
2011	\$250,000	2011	\$1,500,000

Repave Tow Lot and Some Surface Lots

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$130,000		
2016	200,000			200,000	400%	
2015	40,000			40,000	(27%)	
2014	55,000			55,000		52,534
2013						
Total	\$295,000			\$295,000		\$52,534

This was a new request in 2014 for a 3 year paving project at the City's Tow Lot. One third of the Tow Lot's pavement will be replaced each year. Phasing the project will minimize operations disruptions. Funding in 2016 will replace the final third of the pavement.

Various surface lots will also be repaired. Paving of the surface lots is expected to take place in 2017 and 2021. The City maintains approximately 40 surface parking lots, many of which have not been paved in 25 years.

Request Summary – 2017

2017	\$130,000
2018	\$30,000
2019	\$30,000
2020	\$30,000
2021	\$30,000
2022	
Total	\$250,000

Capital Request History – Repave tow Lots and some Surface Lots

Annual Request		Six-Year Request	
2017	\$130,000	2017	\$250,000
2016	\$105,000	2016	\$155,000
2015	\$40,000	2015	\$95,000
2014	\$55,000	2014	\$150,000

Single Space Credit Card Meter Mechanisms

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$1,000,000	54%	
2016	650,000			650,000	(4%)	
2015	675,000			675,000		
Total	\$1,325,000			\$1,325,000		

The department is piloting a project to install single space credit card parking meters in the downtown area and the Third Ward where there are less than 6 contiguous parking spaces and parking rates are at least \$1.00 per hour. The project is scheduled for 2017 and 2018.

The department has been testing several meters in the field since October 2014. The meter manufacturer has installed over 100 single space test models at no cost to the City while they monitor their effectiveness. The department is evaluating whether LUKE meters can be replaced with single space credit card meters.

Installation is expected to take place over three years.

The existing single space meters were last replaced in 1997 and have an expected life of about 15 years.

Capital Request History – Single Space Credit Card Meter Mechanisms

Annual Request		Six-Year Request	
2017	\$1,000,000	2017	\$2,225,000 (2017, 2018)
2016	\$650,000	2016	\$650,000
2015	\$675,000	2015	\$1,325,000 (2015, 2016)
2014	\$0	2014	\$1,325,000 (2015, 2016)

License Plate Recognition System

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$586,000		
2016						
2015						
2014						
2013	721,000			721,000		721,000
Total	\$721,000			\$721,000		\$721,000

This project received \$721,000 in the 2013 Budget to begin installing license plate recognition (LPR) cameras on night parking enforcement jeeps. The technology can confirm the purchase of a night parking permit, identify vehicles that have been reported stolen and recognize vehicles with outstanding violations. This project has eliminated the costs related to printing and selling parking permits. The estimated payback period for this project is between five and six years.

The night parking cameras were installed by October 2013 and the sale of virtual parking permits for 2014 began in December, 2013.

In 2014, the department saw an increase in the number of permits purchased compared to the same period the prior year, an increase in on-line purchases, increased sales of annual permits and a decrease in voided citations related to lost or stolen permits. The department feels the technology is more efficient and more accurate, especially during the snow season.

A request was submitted in 2016 to install LPR equipment on the remaining jeeps in the departments fleet over two years; 12 jeeps each year. The department was able to fund the project in 2016 within its existing budget. Funding in 2017 will equip the final 12 jeeps.

The department has developed a policy that governs access to the license plate database, record retrieval and record requests. The policy was reviewed the City Attorney. License plate data will be stored on a server maintained by the Dept. of Administration-ITMD for seven years. Vehicle registration information will not be stored in the database. The data will be made available to the Police Department upon request.

Capital Request History - License Plate Recognition

Annual Request		Six-Year Request	
2017	\$586,000	2017	\$586,000
2016	\$586,000 (revised)	2016	\$1,172,000 (revised)
2015	No Request	2015	No Request
2014	No Request	2014	No Request
2013	\$720,000	2013	

Parking Structure Revenue Control and Access Equipment

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2017 Request				\$2,000,000		
2016	50,000			50,000		
2015						
Total	\$50,000			\$50,000		

This request for a two year project scheduled to begin in 2016 was first requested in 2014. The project will replace revenue control and ingress/egress equipment at three parking garages; 1000 N. Water, MacArthur Square and 2nd & Plankinton. The equipment being replaced was installed in 2004 and has a useful life of 9-11 years.

Funding in 2016 will be used to hire a consultant to write the specifications for a request for proposal. Installation is expected in 2017.

New features could include on-screen customer assistance, license plate recognition, sensors and cameras, barcode readers and mobile technology integration. The software will also allow for analytic data processing.

Capital Request History – Parking Structure Revenue Control and Access Equipment

Annual Request		Six-Year Request	
2017	\$2,000,000	2017	\$2,000,000
2016	\$50,000	2016	\$1,550,000 (2016, 2017)
2015	\$0	2015	\$1,550,000 (2016, 2017)
2014	\$0	2014	\$1,550,000 (2016, 2017)

Out Year Requests

1000 North Water Parking Structure Repairs

Out Year

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016	150,000			150,000	7%	
2015	140,000			140,000		
2014				0		748
2013				0		102,264
2012				0		393,680
2011				0		149,822
2010				0		700,367
2009	560,000			560,000		34,268
2008				0		7,894
2007				0		33,486
Total	\$850,000			\$850,000		\$1,422,529

This structure has received very little capital funding since 2007. Funding for this account is considered self-supporting. The department anticipates needing \$1.0 million over the next six years for various repairs and maintenance. The City is a member of the commercial condominium association that includes the parking garage. The City is obligated to the condo association to maintain this structure.

Funding in 2016 will be used to replace security cameras. Funding was provided in 2015 to replace elevator cabling.

Anticipated Work

2020	Replace expansion joints; sealer; pavement markings & Upgrade carbon monoxide detection system,	\$613,000
2021	Modernize electrical system	\$396,000
		\$1,009,000

Capital Request History – 1000 N. Water Street Parking Structure Repairs

Annual Request		Six-Year Request	
2017	\$0	2017	\$1,009,000 (2020, 2021)
2016	\$150,000	2016	\$1,093,000 (2016, 2020, 2021)
2015	\$140,000	2015	\$728,000 (2015-2017, 2020)
2014	\$0	2014	\$590,000 (2015-2017)
2013	\$0	2013	\$400,000 (2017)
2012	\$0	2012	\$220,000 (2016)
2011	No Request	2011	No Request

Milwaukee/Michigan Parking Structure Repairs

Out Year

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016	550,000			550,000	83%	
2015	300,000			300,000		
2014				0		0
2013				0		0
2012				0		0
2011				0		0
2010				0		529,278
2009				0		772
2008				0		511
2007				0		0
Total	\$850,000			\$850,000		\$530,561

The City is contractually obligated to Johnson Controls to make capital improvements in this structure. Johnson Controls is responsible for routine maintenance. Johnson Controls has maintained the structure to a high standard resulting in limited capital expenditures being required. Funding for this account is considered self-supporting.

The 2017 request reduces significantly the amount of work anticipated for this structure. The six year request decreases by \$2.1 million (90%) from last year. The only proposed work is the replacement of electrical branch circuits and panels and the replacement of light fixtures and poles in 2021.

Capital Request History – Milwaukee/Michigan Parking Structure

Annual Request		Six-Year Request	
2017	\$0	2017	\$232,000 (2021)
2016	\$550,000	2016	\$2,350,000 All years but 2018
2015	\$300,000	2015	\$2,468,000 All years but 2016
2014	\$0	2014	\$1,250,000 (2015, 2017-2019)
2013	\$0	2013	\$1,250,000 (2015-2018)
2012	\$0	2012	\$1,795,000 (2014, 2015, 2017)
2011	\$0	2011	\$880,000 (2013, 2014)

Project Updates and Past Requests

Replace Multi-Space Meters

This request to begin planning for the ultimate replacement of multi-space parking meters was first submitted in 2014. The City began installing multi-space meters in 2007. The meters have a 10 to 12 year useful life and by 2019 will likely need to be replaced or need substantial maintenance. Since 2007, the City has invested nearly \$3.5 million installing multi-space meters in the downtown area and in the Third Ward. Meters have been installed in areas that have at least six contiguous parking spaces and have parking rates of at least \$1.50 an hour.

Funding of \$1.1 million, \$900,000 and \$600,000 was requested for 2019, 2020 and 2021 respectively. **No request was submitted in 2017.** The City currently has 303 multi-space meters installed.

The purchase of multi-space meters may be affected by the pay-by-phone technology that will be introduced in the spring of 2015. Widespread use of the technology may reduce the number of multi-space meters that need to be purchased.

Revenue generated by the multi-space meters in 2014 exceeded \$3 million.

Capital Request History – Multi-Space Meter Replacement

Annual Request		Six-Year Request	
2017	No Request	2017	No Request
2016	\$0	2016	\$2,600,000 (2019-2021)
2015	\$0	2015	\$2,000,000 (2019 & 2020)
2014	\$0	2014	\$1,100,000 (2019)

Multi-Space Meters

Between 2006 and 2009 this program received \$4.2 million in funding to replace single space parking meters with multi-space electronic meters that accept credit/debit card payments. Expenditures through the end of 2013 total \$3.5 million. No requests for additional funding have been received since 2011. A separate capital request to begin planning for the eventual replacement of the LUKE meters as they age was submitted for the first time in 2014.

Parking Meter Wireless Network

This project received \$720,000 in the 2013 Budget to install a wireless communications (WiFi) network for the City's multi-space meters to reduce cellular communication costs. There are approximately 250 multi-space meters downtown and in the 3rd Ward. The system was to have a secure network with guaranteed priority bandwidth for processing parking meter transactions. The residual bandwidth would have been made available to the public free of charge.

DPW worked with the vendor of the LUKE meters to identify and approve a wireless modem that would ensure the security of credit card transactions. A modem was identified, but its manufacture was

discontinued in January 2013. DPW investigated other potential modems but none was identified that provided the features that were initially anticipated. The meter vendor and DOA-ITMD staff have determined that the project is not viable. No funds were expended in 2014.

Joint Dispatch/Parking Enforcement Relocation

This request for a one year project to relocate the Parking dispatchers and Parking Enforcement staff was requested in 2014. Parking staff would vacate the building at 123 N. 25th St where DPW leases space from MMSD. **The project was not funded in 2014. No request was submitted in 2015, 2016 or 2017.** Estimated costs from the 2014 request are shown below.

The 123 Building is a two story light industrial facility. It contains offices, the tire repair shop and storage space. The structure was developed in 1988 and renovated in 2001 to accommodate parking operations. The next major anticipated expenditure for the facility will be in 2017 when DPW estimates that \$568,000 will be required to replace various site features such as parking lots, fencing, bollards, fuel islands and underground storage tanks. Various interior and building control components are expected to require \$11.2 million in 2020. The complete FCAP report for the 123 Building is available as an attachment to Common Council file 111338.

Annual rent payments are indexed for inflation and were \$141,377 in 2014. The terms of the City's lease with MMSD may require the City to make capital investments at this facility.

Estimated costs for this move (from 2014 request)

Move	Tire Shop	to Central Repair	\$685,000
Move	Parking Dispatch	to Fleet Dispatch	\$188,000
Move	Parking Enforcement	to Lincoln Garage	<u>\$1,245,900</u>
			\$2,118,900

Sewer Maintenance Fund

Year	Cash	Borrowing	Grant & Aid	Assess.	Total	% Δ	Actual
2017 Request					\$41,714,000		
2016	2,700,000	35,800,000	2,324,000	3,580,000	44,404,000	1%	
2015	2,900,000	39,650,000	1,650,000		44,200,000	0%	
2014	3,400,000	39,500,000	1,650,000		44,550,000	0%	34,258,728
2013	3,810,000	38,060,000	2,640,000		44,510,000	1%	36,246,411
2012	3,800,000	37,510,000	2,640,000		43,950,000	10%	28,667,909
2011	2,700,000	33,933,000	2,800,000		*39,433,000	66%	31,433,967
2010	2,600,000	21,337,000			23,937,000	(24%)	41,172,721
2009	2,900,000	28,550,000	150,000		31,600,000	6%	36,236,229
2008	2,250,000	27,700,000			29,950,000	7%	30,082,879
2007	0	28,000,000			28,000,000		21,307,160
Total	27,060,000	330,040,000	13,854,000	3,580,000	374,534,000		259,406,004

*Budgeted total for 2011 includes \$400,000 of special assessment

The Department of Public Works has submitted six capital requests for the Sewer Maintenance Fund for the 2017 Budget.

Requested funding for sewer main projects is essentially unchanged from last year.

The total six-year request is \$244.6 million and represents a decrease of \$18.5 million (7%) from last year's six-year request. The decrease is primarily related to the Inflow and Infiltration program.

Flood Mitigation program. The program was created last year to fund storm water improvements in Dineen Park. The program has been expanded to include a project in Copernicus Park.

The six year request for the Water Quality Projects for TMDL account has increased by \$2.5 million.

The six-year request includes a total of \$8.7 million in grant funding for addressing water quality and inflow and infiltration. This is a decrease of just over \$5 million from last year's request.

Capital Request Summary <i>(in thousands)</i>							
	2017	2018	2019	2020	2021	2022	Six-Year Total
Project/Program							
Sewer Relief and Relay	31,000	32,000	32,000	32,000	33,000	33,000	\$193,000
Inflow & Infiltration	5,000	5,000	5,000	5,000	5,000	5,000	\$30,000
Grant & Aid	1,650	1,650	1,650	1,650			\$6,600
Sanitary Pump Rehabilitation	700	700	700	700	700	700	\$4,200
Water Quality for TMDL	1,000	1,000	1,000	1,000	1,000	1,000	\$6,000
Grant & Aid	664	664	725				\$2,053
River Channel Maintenance	200	200	200	200	200	200	\$1,200
Flood Mitigation Program	1,500						\$1,500
Developer Out of Program							
Total	\$41,714	\$41,214	\$41,275	\$40,550	\$39,900	\$39,900	\$244,553

Year	Sewer Charge		Storm Water Management Fee	
	Amount/ CCF	% Change	Amount/ Quarter	% Change
2006	\$0.85		\$8.00	
2007	\$0.93	8.8%	\$8.00	0.0%
2008	\$1.04	12.0%	\$8.00	0.0%
2009	\$1.12	8.1%	\$11.82	47.8%
2010	\$1.17	4.2%	\$14.00	18.4%
2011	\$1.16	-0.6%	\$14.22	1.6%
2012	\$1.23	6.0%	\$14.94	5.1%
2013	\$1.29	4.9%	\$16.13	8.0%
2014	\$1.34	3.9%	\$16.94	5.0%
2015	\$1.38	3.0%	\$17.96	6.0%
2016	\$1.38	0%	\$19.22	7.0%

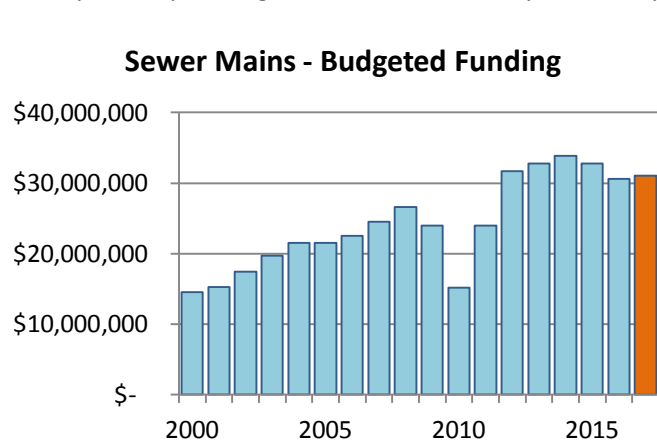
Sewer Relief & Relay Program

Year	Cash	Borrowing	Reserve	Total	% Δ	Actual
2017 Request				\$31,000,000	(1%)	
2016	2,000,000	26,000,000	2,600,000	30,600,000	(7%)	
2015	2,000,000	30,800,000		32,800,000	(3%)	
2014	2,000,000	31,900,000		33,900,000	3%	25,401,578
2013	2,000,000	30,800,000		32,800,000	3%	27,394,608
2012	2,000,000	29,700,000		31,700,000	32%	18,260,364
2011	1,200,000	22,800,000		24,000,000	58%	26,147,079
2010	1,600,000	13,562,000		15,162,000	(37%)	33,642,395
2009	2,000,000	22,000,000		24,000,000	(10%)	32,147,469
2008	2,000,000	24,600,000		26,600,000	9%	23,275,647
2007	0	24,500,000		24,500,000		19,142,847
Total	\$16,800,000	\$256,662,000	\$2,600,000	\$276,062,000		\$205,411,987

The Sewer Program, which has increased substantially over the last 15 years, has stabilized around \$32 million. The six-year request is \$193 million and is essentially unchanged from last year's request.

The miles of sewer that can be improved each year can vary considerably depending on the size of the sewer and the type of improvement required. On average, the requested funding should result in a replacement cycle that closely approximates the current recommended cycle of 90 years. The replacement cycle in 2010 was approximately 160 years.

As borrowing increases to support the sewer main program sewer rates will need to be closely monitored to ensure the financial health of the fund. In 2010 Springsted Inc. did an analysis of the Sewer Maintenance fund and recommended that sewer and storm water rates should increase 4.7% annually from 2011 through 2015. They believed the increases would be necessary to pay for anticipated operating and maintenance expenses, capital improvements and to provide sufficient cash



flow and reserves. The sewer charge has risen by 19% since 2011 and the storm sewer charge has risen 26% during that period.

Approximately 16% of the 2017 sewer program is projected to be paving related compared to 13% in 2016, 8% in 2015 and 10% in 2014. The average index rating for paving related projects on the Preliminary 2017 Sewer Program is 47.8 compared to 45.4 on the remainder of the program. 27% of the proposed projects for 2017

Request Summary – 2017

2017	\$31,000,000
2018	\$32,000,000
2019	\$32,000,000
2020	\$32,000,000
2021	\$33,000,000
2022	\$33,000,000
Total	\$193,000,000

are scheduled for lining. An additional 8% are projects that may utilize both sewer main relay and lining.

Although the requested level of funding will address on-going maintenance and rehabilitation needs, it does not address the existing backlog of older sewers. There are currently over 200 miles of sewers that are more than 90 years old. By 2020, there may be over 300 miles of sewer mains that have exceeded their useful life. The sewers remain in service because they are performing adequately. The department is actively monitoring their condition.

The department also continues to monitor and assess the life expectancy of sewer lining projects. Sewer lining is a technique that has proven to be a cost effective alternative for rehabilitating many sewers that in the past would have required complete replacement. Early estimates for the technology thought a useful life of 50 years might be possible. The department’s inspections of lined sewers have caused them to revise their estimate upward. The department now thinks that a useful life of 75 years or more may not be unreasonable.

Preliminary Sewer Program Statistics							
Year	Average Index (Paving)	Average Index (Non Paving)	Project Count (Paving)	Project Count (Non Paving)	Estim. Cost (Paving)	Estim. Cost (Non Paving)	Estim. Cost (Total)
2017	47.8	45.4	12	38	\$4,882,000	\$20,818,000	\$31,000,000
2016	45.5	44.1	17	52	\$4,068,000	\$22,132,000	\$32,000,000
2015	49.1	45.46	14	77	\$2,631,000	\$26,569,000	\$33,000,000
2014	43.7	49.6	10	100	\$3,220,000	\$25,480,000	\$31,000,000

Capital Request History – Sewer Relief and Relay Program

Annual Request		Six-Year Request	
2017	\$31,000,000	2017	\$193,000,000
2016	\$32,000,000	2016	\$194,000,000
2015	\$33,000,000	2015	\$194,000,000
2014	\$31,000,000	2014	\$201,000,000
2013	\$30,000,000	2013	\$195,000,000
2012	\$29,000,000	2012	\$186,000,000
2011	\$29,000,000	2011	\$186,000,000

Sanitary Pump Rehabilitation Project

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2016				\$700,000		
Request						
2015	700,000			700,000		
2015	700,000			700,000		
2014	700,000			700,000	(7%)	673,092
2013	750,000			750,000	(25%)	983,841
2012	1,000,000			1,000,000		1,010,371
2011	1,000,000			1,000,000	10%	608,015
2010	500,000			500,000	11%	628,645
2009	450,000			450,000	80%	579,818
2008	250,000			250,000		161,137
2007						
Total	\$6,050,000			\$6,050,000		\$4,644,919

Funding for this program provides for the inspection, rehabilitation and replacement of sanitary pump facilities. The City owns and maintains 7 sanitary lift stations and 83 sanitary bypass pump stations. These pumps reduce the risk of sewage backing up into homes and businesses. Pumps are located in areas that historically had sewer backup occurrences during periods of heavy rain. Funding for this program began in 2008.

Request Summary – 2017

2017	\$700,000
2018	\$700,000
2019	\$700,000
2020	\$700,000
2021	\$700,000
2022	\$700,000
Total	\$4,200,000

The City's lift stations pump sanitary flow from low areas into gravity sanitary sewers so the flow can reach the Milwaukee Metropolitan Sewerage District's collection and treatment system.

The sanitary bypass pump stations are covered under the Sanitary Bypass permit issued by the DNR. If the bypass pumps operate during large rain events, DNR has not objected to their use. If the bypass pumps operate during dry weather, or during small rain events, the DNR will work with the City to establish a course of action to prevent these types of operations. The 2005 stipulation with the Department of Justice allows for the DNR to assess a fine for the operation of bypass pumps during small events or dry weather. The DNR has finalized revisions to sanitary sewer overflow rules. The rules have become part of the City's current sanitary bypass permit.

Capital Request History – Sanitary Pump Rehabilitation Projects

Annual Request		Six-Year Request	
2017	\$700,000	2017	\$700,000
2016	\$700,000	2016	\$4,200,000
2015	\$700,000	2015	\$4,200,000
2014	\$700,000	2014	\$4,200,000
2013	\$1,000,000	2013	\$4,500,000
2012	\$1,000,000	2012	\$4,800,000
2011	\$1,000,000	2011	\$4,500,000

River Channel Restoration

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2017				\$200,000		
Request						
2016				0		
2015	200,000			200,000		
2014	200,000			200,000		0
2013	160,000			160,000		0
2012	400,000			400,000		0
Total	\$960,000			\$960,000		

This was a new request for the 2012 Budget to provide funding for the restoration of the channels and drainage ditches which carry stormwater to local waterways during rain events. Over time, sediment and vegetation can reduce their capacity and intensify the effects of excessive rainfall. As part of a broader strategy for managing storm water run-off and preventing flooding, the City will be reviewing these channels and restoring their capacity as necessary.

A project in the Cherokee Creek Channel was designed in 2015, the project is schedule for construction in 2016 if the DNR permits can be obtained.

This program has also funded the contract removal of trees, bushes and cattails in 2015. That work is expected to continue in 2016 and 2017.

Work is also anticipated in 2016 and 2017 to address erosion around storm outfalls.

The request is submitted with the title River Channel Maintenance. The funding appears in the Budget as River Channel Restoration. This fund is not for routine maintenance of waterways but for broader renovation projects which would restore/improve capacity. No projects were identified in the 2014 or 2015 request.

Request Summary – 2017

2017	\$200,000
2018	\$200,000
2019	\$200,000
2020	\$200,000
2021	\$200,000
2022	<u>\$200,000</u>
Total	\$1,200,000

Capital Request History – River Channel Restoration

Annual Request		Six-Year Request	
2017	\$200,000	2017	\$1,200,000
2016	\$200,000	2016	\$1,200,000
2015	\$200,000	2015	\$1,200,000
2014	\$200,000	2014	\$1,200,000
2013	\$200,000	2013	\$1,200,000
2012	\$200,000	2012	\$1,200,000

Inflow and Infiltration (I&I) Reduction Projects

Year	Cash	Borrowing	Grant & Aid	Reserve	Total	% Δ	Actual
2017 Request		\$5,000,000	\$1,650,000		\$6,650,000		
2016		4,500,000	1,650,000	450,000	6,600,000	(1%)	
2015		5,000,000	1,650,000		6,650,000	(23%)	
2014	400,000	6,600,000	1,650,000		8,650,000	(16%)	7,486,943
2013	400,000	7,260,000	2,640,000		10,300,000	(5%)	7,760,754
2012	400,000	7,810,000	2,640,000		10,850,000	(24%)	9,103,285
2011	500,000	10,633,000	2,800,000		*14,333,000	126%	4,053,085
2010	500,000	5,850,000			6,350,000	72%	5,445,132
2009	450,000	3,250,000			3,700,000	23%	2,148,056
2008		3,000,000			3,000,000		3,258,014
2007							
Total	\$2,650,000	\$53,903,000	\$13,030,000	\$450,000	\$70,433,000		\$39,255,269

*The total for 2011 includes \$400,000 for assessable private property work. To date, no assessments have been made to property owners.

Funding for this program is used to stop clear water from entering the sewer system. Work is done on both the public and the private portions of the sewer system

Funding for this program began in 2008 with \$3 million. The 2016 request is for \$8.8 million each year through 2021. That amount includes \$1.8 million in grant funding each year. Through the end of 2013, \$31.8 million has been expended on I&I projects, mostly in the public right of way.

2011 is the only year that assessment funding was included in the Budget for work done on private property. No special assessments have been charged for work done on private property.

The department has completed two private property lateral lining demonstration projects, one in Cooper Park one in the Clemens School area. The department has also completed a foundation drain disconnection program in Cooper Park. The department is considering three possible locations for an additional lateral lining project. Aq additional foundation drain disconnection project may be proposed for late 2016 or early 2017.

In the Cooper Park area (bounded by West Burleigh Street, West Center Street, North 82nd Street and North 92nd Street) multiple homes have experienced basement backups and monitoring showed excessive I&I. Participation in the lateral lining project was voluntary. Nearly 90% of property owners have chosen to participate. The lateral project reduced flows in the area by about 45% in the first year. Annual flow reduction has been variable. A follow-up project on N. 86th Street from Center Street to Chambers Street disconnected foundation drains from the sewer. Participation in the foundation drain project was also voluntary program and not as high as for the lateral lining project.

The second lateral lining project was undertaken in 2013 in the Clemens School neighborhood (north of Capitol Drive and west of N 35th Street). The project has 449 properties. The average cost was \$6,700 per property. The average cost per lateral in the Clemens project was \$116 less than in the Cooper Park

Request Summary – 2017*

2017	\$5,000,000
2018	\$5,000,000
2019	\$5,000,000
2020	\$5,000,000
2021	\$5,000,000
2022	<u>\$5,000,000</u>
Total	\$30,000,000

*Excluding grant funding

project primarily because the average lateral length was shorter. The per foot price was slightly higher in the Clemens project even though there were more bidders. The same contractor was awarded both projects.

In addition to the area wide I&I demonstration projects, the City also piloted a rehabilitation project on five city owned homes. The scope of the work included the rehabilitation of the sewer lateral with a cured-in-place liner, removal of the palmer valve and floor drain replacement, installation of a sump, pump and discharge piping, and the installation of a backflow valve to prevent sewer backups. The total cost per home was approximately \$18,600. Work was completed in 2011. The key challenges encountered were the need to upgrade the existing electrical system to accommodate the installation and operation of the sump pump, difficulties locating the sump pump discharge piping, and the extensive coordination that was required to schedule work with the tenants.

The 2005 stipulation that the City entered into with the Dept. of Justice requires that the City inspect its sanitary manholes once every five years and take corrective action on defective manholes within 18 months of discovery.

Capital Request History – Inflow and Infiltration Reduction Projects

Annual Request

	Enterprise	Grant	Total
2017	\$500,000	\$1,650,000	\$6,650,000
2016	\$5,000,000	\$1,800,000	\$6,800,000
2015	\$5,000,000	\$1,800,000	\$6,800,000
2014	\$7,000,000	\$1,750,000	\$8,750,000
2013	\$7,000,000	\$2,800,000	\$9,800,000
2012	\$7,000,000	\$1,700,000	\$8,700,000
2011	\$6,370,000	\$0	\$6,370,000

Six-Year Request

	Enterprise	Grant	Total
2017	\$30,000,000	\$6,600,000	\$36,600,000
2016	\$40,000,000	\$10,800,000	\$50,800,000
2015	\$40,000,000	\$10,800,000	\$50,800,000
2014	\$42,000,000	\$10,500,000	\$52,500,000
2013	\$42,000,000	\$11,800,000	\$53,800,000
2012	\$42,000,000	\$10,200,000	\$52,200,000
2011	\$25,160,000	\$0	\$25,160,000

Water Quality Projects to Meet Total Maximum Daily Load (TMDL)

Year	Reserve	Borrowing	Grant & Aid	Total	% Δ	Actual
2017 Request		\$1,000,000	\$674,000	\$1,674,000	52%	
2016	100,000	1,000,000	674,000	1,774,000	61%	
2015		1,100,000		1,100,000		
2014						697,115
2013						107,208
Total	\$100,000	\$2,100,000	\$674,000	\$2,874,000		\$804,323

This was a new request in 2013 for an on-going program to construct various best management practices to reduce total maximum daily loads in the Menomonee, Milwaukee, and Kinnickinnic River watersheds and estuary areas.

This program will replace and expand the Best Management Practices for Total Suspended Solid (TSS) Reduction program. The TMDL program will construct best management practices in a similar manner to the TSS program, but it will take a broader approach to water quality, focusing on bacteria and total phosphorus as well as total suspended solids.

MMSD and the DNR are working jointly to develop the standards that will apply to impaired watersheds with respect to TMDLs. The standards were expected to be largely complete by the end of 2012, but they have been delayed. The standards are now expected to be complete by July 2016. The City will have three permit cycles (5 years each) to comply with the new standards.

Request Summary – 2017*

2017	\$1,664,000
2018	\$1,664,000
2019	\$1,725,000
2020	\$1,000,000
2021	\$1,000,000
2022	<u>\$1,000,000</u>
Total	\$8,053,000

*includes grant funding

The 2017 six-year capital request has increased by \$2.9 million (82%) from the 2015 request. Grant funding is only anticipated through 2019, reducing grant funding for the six year period by \$814,000

Capital Request History – Water Quality Projects to Meet TMDLs

Annual Request		Six-Year Request		Priority	
2017	\$1,664,000	2017	\$8,053,000	2017	Not listed
2016	\$1,674,000	2016	\$6,367,000	2016	Not listed
2015	\$1,000,000	2015	\$3,500,000	2015	Not listed
2014	\$1,000,000	2014	\$3,500,000	2014	Not listed
2013	\$500,000	2013	\$3,000,000	2013	Not listed
2012*	\$1,000,000	2012	\$6,000,000	2012	Not listed
2011*	\$2,000,000	2011	\$6,000,000	2011	Not listed

*BMP for Total Suspended Solids request

Flood Mitigation Program

Year	Reserve	Borrowing	Grant & Aid	Total	% Δ	Actual
2017 Request				\$1,500,000		
2016	430,000	4,300,000		4,730,000	72%	
2015		2,750,000		2,750,000		
Total	\$430,000	\$7,050,000		\$7,480,000		

This was a request for a one year project for 2015 to implement the findings of a flood mitigation study in the Dineen Park Neighborhood. It was anticipated that funding would be used to construct a storm water detention pond. The memorandum of understanding between the City of Milwaukee, Milwaukee County and MMSD can be found as an attachment to Common Council File #121683. The City is working with the Milwaukee county to develop an Intergovernmental Cooperation Agreement (ICA). The ICA is expected to be executed by the end of June 2016. The project will be designed in 2016 and constructed in 2017.

The 2016 request added a project in Copernicus Park. The City and Milwaukee County partnered to commission a study to develop a solution to address flooding issues in the area. The preferred option is to construct a storm water detention facility within the park. Funding in 2017 would provide for the construction of the detention facility and associated park improvements.

Capital Request History – Flood Mitigation Program

Annual Request		Six-Year Request	
2017	\$1,500,000	2017	\$1,500,000
2016	\$5,000,000	2016	\$6,500,000 (2016, 2017)
2015	\$2,500,000	2015	\$2,500,000
2014		2014	

Best Management Practices (BMP) for Total Suspended Solid (TSS) Reduction

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2016				0		
2015				0		
2014	1,000,000			1,000,000	100%	
2013	500,000			500,000		
2012		0		0		293,889
2011		500,000		500,000	(74%)	567,165
2010		1,925,000		1,925,000	(32%)	1,310,928
2009		2,700,000	150,000	2,850,000		1,106,223
2008				0		
2007				0		
Total	\$1,500,000	\$5,125,000	\$150,000	\$6,775,000		\$3,278,205

This program provided funding to construct various Best Management Practices (BMPs) such as green streets, rain gardens, wet detention ponds, bio-infiltration areas, and end of pipe treatments to reduce the amount of Total Suspended Solids (TSS) that enter waterways. Due to changes in the Wisconsin state budget and new EPA regulations that are pending, this program is being replaced by a more comprehensive water quality program. **See Water Quality Projects to meet TMDL Requirements**

The Wisconsin Department of Natural Resources' regulation in ch. 151, Wis, Adm. Code required the City to reduce the amount of TSS in runoff by 40%. This project began in 2009 and was intended to continue until the 40% TSS goal was reached. The original deadline for compliance was March 10, 2013. Since 2009, the City has allocated over \$6.8 million for the program. In order to meet the compliance deadline, the City worked with the DNR to be given credit for the TSS removed by the treatment of storm water in the combined sewer area. With the allowance of this credit, the City has attained the 40% compliance rate. The combined sewer area credit may not be applicable to the new TMDL guidelines.

Capital Request History – Best Management Practice for Total Suspended Solids

Annual Request		Six-Year Request	
2017	No Request	2017	No Request
2016	No Request	2016	No Request
2015	No Request	2015	No Request
2014	No Request	2014	No Request
2013	\$500,000	2013	\$3,000,000
2012	\$1,000,000	2012	\$6,000,000
2011	\$2,000,000	2011	\$6,000,000

Milwaukee Water Works

Year	Borrowing	Retained Earnings	Assess	Developer Funded	Total	% Δ	Actual
2017 Request					\$29,210,000		
2016	11,674,000	13,976,000	5,000	5,000	*26,828,000	8%	
2015	10,736,000	14,214,000	0	0	24,950,000	130%	
2014	4,000,000	6,454,443	100,000	300,000	10,854,443	(22%)	23,958,926
2013	8,000,000	5,450,000	100,000	300,000	13,850,000	49%	15,217,228
2012	8,690,000	500,000	30,000	100,000	9,320,000	(54%)	10,269,980
2011	4,045,000	16,200,000	100,000	300,000	20,645,000	3%	12,170,208
2010	0	19,630,000	100,000	300,000	20,030,000	(26%)	16,825,681
2009	0	26,696,000	100,000	300,000	27,096,000	(26%)	19,308,374
2008	12,500,000	23,569,000	100,000	600,000	36,769,000	46%	18,124,405
2007	0	24,540,500	0	600,000	25,140,500		15,485,215
Total	47,971,000	137,253,943	630,000	2,800,000	188,654,943		107,401,091

*The total for 2016 includes \$\$1,168,000 of borrowing reserve.

The Milwaukee Water Works (MWW) has submitted eleven capital requests. Nine requests are for funding in 2016. The total six-year request is \$205.3 million and represents an increase of \$50.5 million (33%) from last year’s request.

The 2015 Budget provided significantly more funding for the replacement of water mains than has been available in recent years. The 2016 request anticipates increasing water main investment by 36% over the next six years.

As part of the most recent rate case, the Public Service Commission has determined that the City should be replacing 25 miles of water mains annually. Replacing water mains at that rate will require the Water Works to rely much more heavily on debt or pursue more aggressive rate increases. Water consumption continues to decline, putting additional pressure on the finances of the utility.

The PSC is also requiring the Water Works to report on the status of the City’s water mains. The department maintains the data necessary to meet the reporting requirements.

The department is re-evaluating the cost, timing and necessity of capital projects related to other Water Works facilities.

Capital Request Summary <i>(in thousands)</i>							
Project/Program	2017	2018	2019	2020	2021	2022	6 Yr. Total
Non-Assessable Water Main	225,750	27,000	27,000	30,000	30,000	30,000	\$166,750
Assessable Water Main Program	5	100	5	5	100	5	\$220
Developer Water Main Program	5	100	5	5	100	5	\$220
Linnwood Plant							
Building Improvements	750	665	1,110	1,500	100	250	\$4,375
Treatment Improvements	500	9,900	1,590	1,350	2,765	15,000	\$31,105
Howard Plant							
Building Improvements	150	475	170	50	550	250	\$1,645
Treatment Improvements	450	900	550	550	0	1,000	\$3,450
Other Facilities							
Pump Facilities Improvements	125	5,500	2,850	5,200	4,500	2,500	\$20,675
Storage Facility Improvements	2,300	1,400	1,800				\$5,500
Meter Repair Shop	175	425	0	0	0	0	\$600
Capital Project Contingencies	2,000	2,000	2,000	2,000	2,000	2,000	\$12,000
Total	\$29,210	\$48,465	\$37,080	\$40,660	\$40,115	\$51,010	\$246,540

Distribution Water Main System Program

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	%Δ	Actual
2017 Request					\$22,750,000		
2016	8,984,000	*11,674,000	5,000	5,000	20,668,000	6%	
2015	8,764,000	*10,736,000	0	0	19,500,000	70%	
2014	8,025,000	3,075,000	100,000	300,000	11,500,000	44%	8,502,960
2013		7,600,000	100,000	300,000	8,000,000	1,170%	8,319,621
2012	500,000		30,000	100,000	630,000	(96%)	2,595,517
2011	15,400,000		100,000	300,000	15,800,000	3%	3,909,320
2010	15,000,000		100,000	300,000	15,400,000	(8%)	9,728,663
2009	16,380,000		100,000	300,000	16,780,000	3%	14,071,107
2008	15,560,000		100,000	600,000	16,260,000	4%	12,353,980
2007	15,040,500		0	600,000	15,640,500		12,094,051
Total	103,653,500	33,085,000	635,000	2,805,000	140,178,500		71,575,219

* This amount of debt was budgeted to finance Water Works capital projects— not all of it may be used for water mains.

Funding for water mains has increased substantially over historic levels due to a Public Service Commission (PSC) order that requires the City to increase the rate of water main replacement. Replacing water mains at the rate will require the Water Works to rely much more heavily on debt or pursue more aggressive water rate increases. Water consumption continues to decline, putting additional pressure on the finances of the utility

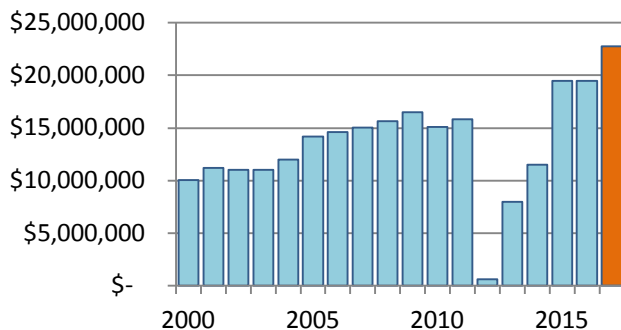
The lower funding levels from 2012 through 2014 were related to revenue shortages cause by a delay in the settlement of a rate case which was brought before the Public Service Commission.

A large percentage of the main breaks in the system are related to the construction materials that were used between 1946 and 1963. As the department systematically replaces those mains the condition of the system, as measured by the number of main breaks per hundred miles of main has improved.

Request Summary – 2017

2017	\$22,750,000
2018	\$27,000,000
2019	\$27,000,000
2020	\$30,000,000
2021	\$30,000,000
2022	\$30,000,000
Total	\$166,750,000

Water Mains - Budgeted Funding



Main breaks per 100 began increasing dramatically in the mid-1950s and continued to increase through the mid-1990s before beginning a downward trend. The annual number of main breaks can be extremely volatile so any given year is not representative of the system's overall condition. 2014 was among the worst years on record for water main breaks. However, three of the last ten years had less than 25 breaks per 100 miles. Before 2005, the last year to have less than 25 breaks was 1975.

Capital Request History – Distribution Water Main Program

Annual Request		Six-Year Request	
2017	\$22,750,000	2017	\$166,750,000
2016	\$19,500,000	2016	\$138,000,000
2015	\$9,750,000	2015	\$83,300,000
2014	\$10,000,000	2014	\$80,000,000
2013	\$7,000,000	2013	\$64,000,000
2012	\$3,500,000	2012	\$42,500,000
2011	\$14,770,000	2011	\$106,070,000

Linnwood Plant Building Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$750,000	76%	
2016	425,000				425,000	(29%)	
2015	600,000				600,000		
2014					0	(100%)	23,190
2013	150,000				150,000	(86%)	44,133
2012	1,040,000				1,040,000	100%	243,846
2011		520,000			520,000		5,184
2010							791,218
2009	250,000				250,000	(93%)	1,790,166
2008	3,390,000				3,390,000	54%	1,069,610
2007	2,200,000				2,200,000		193,088
Total	\$8,055,000	\$520,000			\$8,575,000		\$4,160,435

Since 2001 this program has received \$10.4 million in funding. Funding has been highly variable. Funding in 2015 was for roof repairs and the replacement of a sanitary sewer. No projects were scheduled for 2014. Funding provided in 2013 was for skylight filters that will reduce sunlight and reduce algae growth on treatment filters.

The 2017 six-year request is \$150,000 less than the 2016 request.

Projects anticipated for 2017 include roof replacements on the South Pipe Gallery, the SW Drive End House, the SE Drive End House, and the East Pump Room. A data center project is also anticipated.

Request Summary – 2017

2017	\$750,000
2018	\$665,000
2019	\$1,100,000
2020	\$1,500,000
2021	\$100,000
2022	<u>\$250,000</u>
Total	\$4,375,000

Capital Request History – Linnwood Plant Building Improvements

Annual Request		Six-Year Request	
2017	\$565,000	2017	\$4,525,000
2016	\$600,000	2016	\$7,985,000
2015	\$0	2015	\$2,185,000
2014	\$150,000	2014	\$2,135,000
2013	\$0	2013	\$200,000
2012	\$1,520,000	2012	\$4,880,000
2011	\$14,770,000	2011	\$106,070,000

Linnwood Plant Treatment Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$500,000	(35%)	
2016	775,000				775,000	(43%)	
2015	1,350,000				1,350,000	74%	
2014		775,000			775,000	158%	716,261
2013		300,000			300,000	(25%)	1,814,385
2012	400,000				400,000	(69%)	465,693
2011		1,275,000			1,275,000	264%	151,289
2010	350,000				350,000	(67%)	514,968
2009	1,050,000				1,050,000	(2%)	394,366
2008	1,075,000				1,075,000	115%	2,786,803
2007	500,000				500,000		1,114,547
Total	\$5,550,000	\$2,350,000			\$7,850,000		\$7,958,312

The replacement of the Motor Control Center (MCC) units will be a multi-year project. There are four MCC units at Linnwood. Funding in 2016 will provide construction funding for Phase 2 which will replace the MCC in the East Pump Room and install HVAC for hydrogen sulfide gas mitigation. Funding was provided in 2014 to design the Motor Control Centers Replacement (MCC) project.

2016 funding will also replace the flocculator bearing in the North Coagulation Basin.

Funding in 2017 is requested for a project that will line leaking pipes that service the filter beds.

Request Summary – 2017

2017	\$500,000
2018	\$9,900,000
2019	\$1,590,000
2020	\$1,350,000
2021	\$2,765,000
2022	<u>15,000,000</u>
Total	\$31,105,000

Capital Request History – Linnwood Plant Treatment Improvements

Annual Request		Six-Year Request	
2017	\$500,000	2017	\$31,105,000
2016	\$2,425,000	2016	\$15,380,000
2015	\$2,050,000	2015	\$17,435,000
2014	\$775,000	2014	\$3,350,000
2013	\$300,000	2013	\$10,000,000
2012	\$0	2012	\$3,900,000
2011	\$1,275,000	2011	\$17,880,000

Howard Plant Building Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$150,000		
2016	0				0		
2015	250,000				250,000	150%	
2014	100,000				100,000	0%	6,471
2013	100,000				100,000	(50%)	1,029,431
2012	200,000				200,000	(43%)	851,302
2011	350,000				350,000		334,932
2010	0				0		23,157
2009	450,000				450,000	156%	194,078
2008	176,000				176,000		53,643
2007	0				0		132,345
Total	\$1,626,000				\$1,626,000		\$2,625,359

Funding is requested to install a fire suppression system in the data center at the Howard Treatment Plant.

In 2013 funding was provided to upgrade aging electrical systems including the electrical pump starter for the two Howard filter surface wash pumps, electrical panel and distribution centers, and the electrical power bus for the overhead crane. Funding in 2014 was for access control upgrades and to improve perimeter protection. In 2015, funding was provided to resurface the concrete driveway. No projects are scheduled for 2016.

The large decrease in the six-year request from 2011 to 2012 was due to the delay in the PSC approval of the rate case.

Request Summary – 2017

2017	\$150,000
2018	\$475,000
2019	\$170,000
2020	\$50,000
2021	\$550,000
2022	<u>\$250,000</u>
Total	\$1,645,000

Capital Request History – Howard Plant Building Improvements

Annual Request		Six-Year Request	
2017	\$150,000	2017	\$1,645,000
2016	\$0	2016	\$1,595,000
2015	\$250,000	2015	\$1,800,000
2014	\$100,000	2014	\$1,350,000
2013	\$100,000	2013	\$1,350,000
2012	\$0	2012	\$600,000
2011	\$600,000	2011	\$2,100,000

Howard Plant Treatment Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$450,000		
2016	750,000				750,000		
2015					0	(100%)	
2014		150,000			150,000	50%	0
2013		100,000			100,000	100%	101,090
2012	50,000				50,000	(92%)	70,213
2011		600,000			600,000	362%	98,244
2010	130,000				130,000	(74%)	167,001
2009	500,000				500,000	13%	27,382
2008	442,000				442,000		0
2007	0				0		161,253
Total	\$1,872,000	\$850,000			\$2,722,000		\$625,183

From 2001 through 2015, this program has received \$3.3 million in funding.

Funding in 2013 was to replace the effluent valves that control the flow of water through the plant's eight filters. Funding in 2014 will replace the dielectric tubes in one of the plant's generators. This project should add between five and ten years to the life of the generator. No projects were scheduled for 2015.

Funding in 2016 will be used to analyze and design liners for the holding tanks at the Howard Treatment Plant. Funding in 2017 would be used for construction.

The large decrease in the six-year request from 2011 to 2012 was due to the delay in the PSC approval of the rate case.

Request Summary – 2017

2017	450,000
2018	\$900,000
2019	\$550,000
2020	\$550,000
2021	\$0
2022	<u>\$1,000,000</u>
Total	\$3,450,000

Capital Request History – Howard Plant Treatment Improvements

Annual Request		Six-Year Request	
2017	\$450,000	2017	\$3,450,000
2016	\$750,000	2016	\$4,200,000
2015	\$350,000	2015	\$6,800,000
2014	\$150,000	2014	\$3,650,000
2013	\$100,000	2013	\$7,450,000
2012	\$0	2012	\$1,100,000
2011	\$950,000	2011	\$6,750,000

Pump Facilities Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$125,000	(38%)	
2016	200,000				200,000	300%	
2015	50,000				50,000	(50%)	
2014	100,000				100,000		3,989,636
2013	0				0	(100%)	2,179,381
2012	2,250,000				2,250,000	36%	5,350,759
2011		1,650,000			1,650,000	(54%)	754,183
2010	3,600,000				3,600,000	5%	2,254,680
2009	3,440,000				3,440,000	260%	584,073
2008	955,000				955,000	(84%)	307,843
2007	6,200,000				6,200,000		174,204
Total	\$16,795,000	\$1,650,000			\$18,445,000		\$15,594,759

This program provides funding to upgrade or replace various aspects of the pumping facilities that aid in the efficient distribution of water throughout the system. From 2001 through 2015, this program has received \$23.1 million in funding. Annual funding is highly variable.

The large decrease in the six-year request from 2011 to 2012 was due to the delay in the PSC approval of the rate case.

\$2,250,000 was budgeted for this program in 2012 to perform a physical inspection of the treated water tunnel between the Linnwood Plant and the Riverside pumping station. The last complete inspection of this 7,200 foot tunnel was in 1986.

Funding requested for 2017 be used to design the replacement of the Howard Plant substation and switchgear and the Lincoln Avenue Pumping Station substation and switchgear.

Request Summary – 2017

2017	\$125,000
2018	\$5,500,000
2019	\$2,850,000
2020	\$5,200,000
2021	\$4,500,000
2022	<u>\$2,500,000</u>
Total	\$20,675,000

Capital Request History – Pump Facilities Improvements

Annual Request		Six-Year Request	
2017	\$125,000	2017	\$20,675,000
2016	\$3,200,000	2016	\$20,750,000
2015	\$250,000	2015	\$19,800,000
2014	\$100,000	2014	\$30,200,000
2013	\$0	2013	\$21,000,000
2012	\$800,000	2012	\$3,500,000
2011	\$2,050,000	2011	\$11,200,000

Storage Facilities Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$2,300,000	15%	
2016	2,000,000				2,000,000	(20%)	
2015	2,500,000				2,500,000		
2014					0	(100%)	221,738
2013	1,400,000				1,400,000	600%	47,276
2012	200,000				200,000	(33%)	32,809
2011	300,000				300,000	200%	1,088,150
2010	100,000				100,000	(97%)	1,373,128
2009	3,826,000				3,826,000	2,539%	1,523,366
2008	145,000				145,000	(28%)	1,022,916
2007	200,000				200,000		1,604,589
Total	\$10,671,000				\$10,671,000		\$6,931,972

This program provides funding for the evaluation, elimination or enhancement of the system's water storage capacity. From 2001 through 2015, this program has received \$14.7 million in funding. The 2016 six-year request is \$7 million (50%) less than the 2015 request. This program was funded as requested in 2015.

The large decrease in the six-year request from 2011 to 2012 was due to the delay in the PSC approval of the rate case. Funding in 2013 was for the roof replacement over the Linnwood South Clearwell.

Funding is requested in 2017 to replace the waterproofing system for one of the tanks of the Florist Booster District and to investigate and remediate lead in the soil at the Lincoln facility.

There were no projects scheduled for 2014. Funding was requested in 2015 to repaint the West tank at Lincoln. Funding requested for 2016 will paint the East tank and install a cathodic protection system on both tanks.

Request Summary – 2017

2017	\$2,300,000
2018	\$1,400,000
2019	\$1,800,000
2020	\$0
2021	\$0
2022	\$0
Total	\$5,500,000

Capital Request History – Storage Facilities Improvements

Annual Request		Six-Year Request	
2017	\$2,300,000	2017	\$5,500,000
2016	\$2,000,000	2016	\$7,000,000
2015	\$2,500,000	2015	\$14,000,000
2014	\$0	2014	\$7,500,000
2013	\$1,400,000	2013	\$8,900,000
2012	\$0	2012	\$7,500,000
2011	\$300,000	2011	\$14,200,000

Meter Shop Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$175,000		
2016					0		
2015	700,000				700,000		
2014	700,000				700,000		139,008
2013					0	(100%)	0
2012	50,000				50,000	(67%)	13,100
2011	150,000				150,000		84,110
2010					0	(100%)	902,823
2009	300,000				300,000		0
2008					0	(100%)	11,450
2007	400,000				400,000		11,138
Total	\$2,300,000				\$2,300,000		\$1,161,629

This program provides funding for improvements to the operations associated with the Milwaukee Water Works Business Section's Water Meter Services. This program first received funding in 2004. Since that time, \$2.7 million has been budgeted.

Recent capital requests for this program have been somewhat intermittent.

Funding is requested for 2017 for a bulk fill water station. The station would allow authorized purchasers to fill trucks equipped with tanks.

Funding in 2012 was for the construction of fill stations for bulk water (to replace hydrant permits). No projects were scheduled for 2013. The replacement of the roof at the Meter Shop North was funded in 2014. Projects planned for 2015 include structural and HVAC upgrades. No projects are scheduled for 2016.

Request Summary – 2017

2017	\$175,000
2018	\$425,000
2019	\$0
2020	\$0
2021	\$0
2022	\$0
Total	\$600,000

Capital Project History – Meter Shop Improvements

Annual Request		Six-Year Request	
2017	\$175,000	2017	\$600,000
2016	\$0	2016	\$600,000
2015	\$700,000	2015	\$700,000
2014	\$700,000	2014	\$700,000
2013	\$0	2013	\$2,000,000
2012	\$150,000	2012	\$4,150,000
2011	\$150,000	2011	\$3,150,000

Backup Power Generation

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$0		
2016					0		
2015					0		
2014					0		10,320,374
2013	3,800,000				3,800,000	(16%)	1,635,780
2012	4,500,000				4,500,000		646,741
2011	0				0		5,744,796
2010	450,000				450,000	(91%)	1,070,043
2009	5,000,000				5,000,000	(60%)	723,836
2008	12,500,000				12,500,000		218,160
2007	0				0		0
Total	\$26,250,000				\$26,250,000		\$20,359,730

In response to a regional power outage in the Northeast in 2003, the City retained the consulting firm of Black & Veatch to perform an evaluation of the reliability of the MWW's electrical power. The study had several objectives including providing benchmarking data and developing conceptual designs for critical facilities. The study determined that the electrical feeds to MWW's critical facilities are generally reliable. The study strongly recommended, however, that the City consider implementing emergency power at each of its critical facilities. (see Council file 061500 for the full report)

This program was first funded in the 2008 Budget when it received \$12.5 million. Since then it has received \$13,750,000 in additional funding. The department is currently evaluating whether additional power generation facilities need to be constructed, or if the needs of the City can be met with the projects that are in place or in progress. **No request has been submitted since 2014.**

Funding in 2013 was for the upgrade of the Grange Pumping Station to include backup power generation and will replace aging switchgear.

Capital Request History - Back-up Power Generation

Annual Request		Six-Year Request	
2017	No Request	2017	No Request
2016	No Request	2016	No Request
2015	No Request	2015	No Request
2014	\$0	2014	\$6,600,000
2013	\$3,800,000	2013	\$10,400,000
2012	\$0	2012	\$11,800,000
2011	\$0	2011	\$12,000,000

Capital Projects Contingencies

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2017 Request					\$2,000,000		
2016	2,000,000				2,000,000		
2015							
2014	500,000				500,000		
2013							
2012							
2011							
2010							
2009							
2008					1,826,000		
2007							
Total	\$2,500,000				\$4,326,000		

This request is for contingency borrowing authority to be available for unexpected needs.

Capital Request History – Capital Projects Contingencies

Annual Request		Six-Year Request	
2017	\$2,000,000	2017	\$12,000,000
2016	\$2,000,000	2016	\$12,000,000
2015	\$500,000	2015	\$1,500,000
2014	\$500,000	2014	\$500,000
2013	No Request	2013	No Request
2012	\$0	2012	\$4,000,000
2011	\$0	2011	\$5,000,000
