

City of Milwaukee

Capital Improvements Committee

2016 Capital Budget Hearings

April 16, 2015

April 17, 2015

DOA – Office of Environmental Sustainability

Better Buildings Challenge

1 of 1

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$600,000		

This is a request for funding in 2016 and 2017 (\$3.6 million total) to make improvements at city facilities that will reduce energy usage. The Better Buildings Challenge is a national program. The Energy Reduction Team recommends that projects specifically focused on energy efficiency should be funded centrally.

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 \$433,000. DPW did not submit a request for that account for 2016.

Projects proposed for 2016 as part of the Better Buildings Challenge include:

- Insulation of a steam pipe at Central Library
- Lighting upgrades in
- The City hall Complex
- Fire Stations,
- Central Library
- Police District Stations

Capital Request history – Sanitary Pump Rehabilitation Projects

Annual Request		Six-Year Request	
2016	\$600,000	2016	\$3,600,000
2015	\$150,000	2015	\$1,150,000

Department of Administration - ITMD

Year)	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$3,715,000	14%	
2015	250,000	3,010,000		3,260,000	208%	
2014	285,000	775,000		1,060,000	(44%)	
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	22,319,320	10,848,720		13,168,040		6,467,752

The Department of Administration – ITMD has submitted 13 capital requests, one fewer than last year. Seven of the requests are for funding in 2016. The remaining six projects are out-year requests. Annual funding for ITMD capital projects is highly variable.

The total six-year request is \$11,490,000 and represents a decrease of \$2.43 million (18%) from last year’s six-year request. \$1.2 million of the reduction is related to the Tax Collection System project and \$750,000 is related to the 809 Building renovation project, both of which were partially funded in 2015.

There is only one new project in the 2016 request – the upgrade of the Unified Call Center application (CRM Upgrade Kana/Lagan Enterprise). The remaining projects have all appeared as out year requests in previous years.

The HRMS project was moved to 2016 from 2017 in order to realize savings from vendor provided tax updates. The FMIS project that had been scheduled for 2016 was moved to 2017 to accommodate the HRMS Upgrade.

At the request of the Budget Office, the title for the Public Safety Communications program has been changed to Public Facility Communications

ITMD has been directed to coordinate technology across departments and to look for opportunities to share resources and reduce costs. 2015 is 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, Library, and the Assessor’s Office.

The levy supported capital target for DOA-ITMD for 2016 is \$3,750,000.

Capital Request Summary							
Project/Program	2016	2017	2018	2019	2020	2021	6 Yr. Total
Tax Collection System	800,000						\$800,000
Public Facility Communications	625,000	625,000	625,000	625,000	625,000	625,000	\$3,750,000
IT Upgrades & Replacement	300,000	300,000	300,000	300,000	300,000	300,000	\$1,800,000
Corporate Database Server Upgrade	270,000	200,000					\$470,000
CSWAN/COMOM Upgrade.	500,000	250,000					\$750,000
Oracle/PeopleSoft HRMS Upgrade	1,000,000						\$1,000,000
CRM Upgrade Kana/Lagan Enterp.	220,000						\$220,000
Oracle/PeopleSoft FMIS Upgrade		1,300,000					\$1,300,000
SAN Upgrade		250,000					\$250,000
Web Security Appliance			350,000				\$350,000
Oracle PeopleSoft HRMS eModules			200,000				\$200,000
Oracle/PeopleSoft Upgrades Study			300,000				\$300,000
Oracle PeopleSoft Employee Portal				300,000			\$300,000
Total	\$3,715,000	\$2,925,000	\$1,775,000	\$1,225,000	\$925,000	\$925,000	\$11,490,000

Tax Collection System

1 of 13

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request		\$800,000		\$800,000	(33%)	
2015		\$1,200,000		\$1,200,000		
2014						
Total		\$1,200,000		\$1,200,000		

This was a new project that was partially funded in the 2015 Budget. The 2016 request represents the remainder of the funding needed to complete the project. The total project cost estimate has not changed. The system is expected to have a useful life of six years.

The current tax collection system used by the Treasurer was designed in 1982 using the Cobol computing language. It is becoming increasingly difficult to recruit new personnel with the skillset required to support the system.

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 department has received two responses to its request for proposal. Demonstrations from both respondents were held and are being evaluated. It is not anticipated that a system will be installed to run concurrent with the existing tax collection system before the 2015 tax bills are produced and mailed. Testing will be done in the 2016 tax year.

In June 2012, the Legislative Reference Bureau responded to a request from ITMD to perform a survey of tax collection software utilized by other U.S. cities and other cities in Wisconsin. The LRB surveyed 14 U.S. cities which were similar in population to Milwaukee and the 10 largest cities in Wisconsin. The results of the survey are on file.

\$33,000 of this request is expected to support two positions (.6 FTEs); an Applications Development Manager and a Project Coordinator.

Capital Request History – Tax Collection System

Annual Request		Six-Year Request		Priority	
2016	\$800,000	2016	\$800,000	2016	1 of 13
2015	\$2,000,000	2015	\$2,000,000	2015	1 of 14

Public Facility Communications

2 of 13

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request		\$625,000		\$625,000	14%	
2015		550,000		550,000	10%	
2014		500,000		500,000		
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	3,850,000		4,650,000		3,483,828

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.

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 their “Gigaman” circuits depending on distance. Based on this value of the “gigabit” circuits, DPW estimates the value of the circuits it provides is about \$450,000 per month.

Projects are designed to increase system redundancy and to provide diverse routes to critical public safety locations. The 2016 program will continue the extension of the optical network to the Housing Authority and Libraries.

Average annual funding for this project (since 2001) is \$525,500. Since 2007, this program has had an average borrowing authority carryover balance of \$310,800. The six-year request is for \$625,000 each year from 2016 through 2021, an increase of 1.4% from the 2015 six-year request. A list of programming priorities was attached to the capital request.

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

Capital Request History – Public Facility Communications

Annual Request		Six-Year Request		Priority	
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)

IT Upgrades/Replacement

3 of 13

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$300,000	20%	
2015	250,000			250,000	(12%)	
2014	285,000			285,000	(5%)	
2013	100,000	200,000		300,000	(8%)	149,280
2012	325,000			325,000		105,746
2011						
Total	960,000	200,000		1,160,000		255,026

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 2016 through 2021 for a total of \$1,800,000. Funding has been requested for three projects in 2016.

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 is being used to replace unsupported and failing switches that are more than 14 years old. Funding in 2016 will be used to replace unsupported and failing switches that are more than 10 years old.

The second project will upgrade the hardware required for the City’s voice mail system. The project will include a new CityWatch solution and upgrades for additional ancillary telephone features.

The third project will upgrade the city’s Open Data portal. The portal provides the public with a single point of entry to City data sources. The project will increase citizen participation, collaboration, and transparency in government.

\$31,400 of this request is expected to support 3 positions (0.5 FTEs); 1 Programmer Analyst and 2 Telecommunications Analysts Sr.

Previously Requested Projects

- 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

Capital Request History – IT Upgrades/Replacements

Annual Request		Six-Year Request		Priority	
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

Corporate Database Server Upgrade 4 of 13

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

This one year 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 SAN disk that are necessary.

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 splits 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.

\$64,100 of this request is expected to support 3 positions (0.7FTEs); 1 Programmer Analyst and 2 Database Admin. and Assoc.

Capital Request History – Corporate Database Server Upgrade

Annual Request		Six-Year Request		Priority	
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

CSWAN / COMON Upgrade

5 of 13

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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						
Total		1,100,000		1,100,000		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. The original request was for one year. The current request is for \$500,000 in 2016 and \$250,000 in 2017. The total estimated project cost has decreased by \$350,000 from last year's request. The original cost estimate was based on the last upgrade which was done in 2008.

\$20,100 of this request is expected to support 2 positions (0.3 FTEs); 2 Telecommunications Analysts Sr.

Capital Request History – CSWAN/COMON Upgrade

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

Oracle/PeopleSoft HRMS Upgrade

6 of 13

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

The PeopleSoft HRMS system requires periodic upgrades. This upgrade was first requested in 2011 for funding in 2015. The project was briefly 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 has been scheduled for 2016 has been moved to 2017 to accommodate this project.

The HRMS upgrade will guarantee continued project support, updates and increased functionality. It will also provide an ongoing path for future upgrades. Annual maintenance payments for this project are included in ITMD's operational budget. The department is working to minimize any disruptions associated with migrating to the new system.

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	
2016	\$1,000,000	2016	\$1,000,000	2016	6 of 13
2015	\$0	2015	\$1,100,000 (2017)	2015	10 of 14
2014	\$0	2014	\$1,100,000 (2015)	2014	10 of 18
2013	\$0	2013	\$1,100,000 (2015)	2013	9 of 12
2012	\$0	2012	\$1,100,000 (2015)	2012	14 of 17
2011	\$0	2011	\$1,100,000 (2015)	2011	14 of 15

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

This is a **new** request for 2016 for a one year project 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).

Out Year Requests

Oracle /PeopleSoft Financial Upgrade

Out Year 8 of 13

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 has been rescheduled to 2017 to allow for the HRMS upgrade to be moved to 2016. The cost estimate has not changed. Funding of **\$1,300,000 is requested for 2017**.

The last major upgrade of the FMIS system was funded in 2009 and 2010 (\$1,217,600 and \$598,400 respectively). 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.

Storage Area Network (SAN) Upgrade

Out Year 9 of 13

This the first year that this project has been requested. The project will expand DOA-ITMD's Storage Area Network. The SAN was last updated in 2014 and includes off site data redundancy and disaster recovery capabilities. **\$250,000 is requested for 2017**.

\$15,200 of the request is expected to support 2 positions (0.3FTEs); 2 IT Support Specialists Sr.

Web Security Appliance

Out Year 10 of 13

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 2016 request. The cost estimate has not changed. This project will enhance internet security and safeguard against spyware, adware, malware and "phishing". 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.

\$48,500 of the request is expected to support 2 positions (0.6 FTEs); 1 IT Support Project Lead and 1 IT Support Specialist Sr.

Oracle PeopleSoft HRMS eModules

Out Year 11 of 13

This project was first requested in 2014 for funding in 2015. The 2015 request moved the project to **2018** where it remains for the 2016 request. The cost estimate has not changed. This is a one year project to purchase eDevelopment, eProfile Manager and eCompensation Manager to enhance self-service functionality. The estimated cost of the project is \$200,000.

Oracle PeopleSoft Upgrades Study

Out Year 12 of 13

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 **2018**. 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.

Oracle PeopleSoft Employee Portal

Out Year 13 of 13

This project was first requested in 2014 for funding in 2015. The 2015 request moved the project to **2019** where it remains for the 2016 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.

Project Updates and Past Requests

Work Place Safety and Efficiency

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2015		400,000		400,000		
2014				0		
2013		750,000		750,000		284,327
Total		1,150,000		1,150,000		284,327

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 was requested for 2016.**

Phase 1 has been completed. The second phase which will include common areas and conference rooms will be designed later this year. 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 is 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 currently 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 moved to 2014 and then back to 2013. This 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
2016 Request				\$555,666		
2015		555,000		555,000		
2014						
Total		555,000		555,000		

2016 will be the second year of what is expected to be a three to four year project to replace an in-house assessment software system. 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 department intends to purchase a software package. The positions associated with this request will support the conversion of property data to the new system.

The funding to complete the project has been requested over 2 years (2016 and 2017). The overall cost estimate (\$1,667,000) has not changed from the 2015 request.

Approximately 40% of the request amount will support positions associated with the conversion of property data to the new system. 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)

The levy supported capital target for the City Assessor for 2016 is \$555,000.

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	
2016	\$500,666	2016	\$1,112,000
2015	\$833,500	2015	\$1,667,000

City Attorney

City Hall Preservation, Restoration and Renovation – 8th Floor

1 of 2

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$3,120,000		
2015				0		
2014		1,758,000		1,758,000		
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		86,419

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 \$4,878,000. This amount includes funds that have already been budgeted. It is a reduction of \$513,000 from last year’s request. The savings primarily result from the removal of multi-year phasing. (Since 2012, the project has been requested as a three year project) The scope of the project has not changed.

Request Summary – 2016	
2016	\$3,120,000
2017	<u>\$0</u>
Total	\$3,120,000

The 2015 Proposed Budget included funding (\$3,120,000) to complete the construction in one year. In addition to cost savings, constructing the project in one year would help facilitate the movement of staff in other departments that will be required as part of the City Hall Foundation project. The Capital Improvements Committee did not support funding for the 8th floor project. The funding was removed by the Council prior to the adoption of the budget. The 2016 capital request reflects the amount that was proposed for 2015 by the Budget Office.

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. There are no office accommodations for two attorneys to perform their functions. 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.

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

Annual Request		Six-Year Request		Priority	
2016	\$3,120,000	2016	\$3,120,000 (2016)	2016	1 of 2
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)	2011	1 of 1

Replace/Upgrade IT Systems (preliminary title)**2 of 2**

Year	Carryover	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request					\$		

The City Attorney is preparing a new request for 2016 for a project that will replace/upgrade the IT systems used by the City Attorney.

The City Attorney's Office utilizes a document management system and docketing software. The two systems were provided by different vendors. The systems are not maintained or supported by DOA-ITMD. The City Attorney is currently exploring the options for replacing the systems which are old and have become increasingly unreliable. No cost estimate has been developed.

While no request has been submitted, it is likely an IT project will be considered for the 2016 Budget because waiting until 2017 to replace the systems is not generally considered a feasible or prudent option.

City Clerk

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$2,665,000		
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	215,000	1,142,500		1,357,500		1,066,546

The City Clerk's Office has submitted four capital requests for the 2016 Budget. One request is for an on-going program.

The City Clerk's request is essentially unchanged from last year. The total six-year request is \$3.13 million and represents a decrease of \$150,000 (5%) from last year's six-year request. The reduction is related to the Channel 25 digital conversion project which was partially funded in 2015.

The City Clerk has re-submitted the renovation projects for the LRB Research Office 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, and the funding in 2014 and 2015 was for the Channel 25 digital conversion.

The levy supported capital target for the City Clerk's Office for 2016 is \$225,000. This amount does not include the Capital Improvements Committee which is included in the capital target for Special Projects.

Capital Improvements Committee*

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$87,000		
2015	87,000			87,000	2.4%	
2014	85,000			85,000		
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	512,000			512,000		257,682

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 \$552,000.

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

Channel 25 Digital Conversion

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$225,000	50%	
2015	150,000			150,000	(14%)	
2014	175,000			175,000		
2013						
Total	325,000			325,000		

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 is making analog equipment more difficult to acquire and maintain. If critical components cannot be replaced or repaired, the City may be unable to televise its meetings. The conversion will ensure continued service and result in better video image quality for the City Channel.

The project was first funded in 2014. 2016 represents the final year of funding for the project. The Master Control System is nearly complete. Planning continues for the City Hall Control Room upgrade which will be done later this year.

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. Each phase of the project will be completed in August to coincide with the Council’s recess to minimize the disruption to the broadcast of meetings.

Capital Request History – Channel 25 Digital Conversion

Annual Request		Six-Year Request	
2016	\$225,000	2016	\$225,000
2015	\$150,000	2015	\$375,000
2014	\$175,000	2014	\$550,000
2013	\$135,000	2013	\$290,000
2012	\$135,000	2012	\$290,000

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 franchising changes. 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.

LRB Research Office Upgrade

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$438,000		

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 LRB 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	
2016	\$438,000	2016	\$438,000
2015	\$438,000	2015	\$438,000
2014	\$427,000	2014	\$427,000
2013	\$411,000	2013	\$411,000
2012	\$394,000	2012	\$394,000
2011	\$435,299	2011	\$435,299

City Hall Room 205 Renovation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,915,000		

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 and conference room space and enhance security for reception personnel.

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.

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	
2016	\$1,915,000	2016	\$1,915,000
2015	\$1,915,000	2015	\$1,915,000
2014	\$1,944,896	2014	\$1,944,896

Project Updates and Past Requests

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
2016 Request					\$32,000,000	21%
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	2,350,000	39,378,977	207,441,937	32,778,000	282,248,914	

The Department of City Development (DCD) has submitted eight capital requests for the 2016 Budget. All requests are for on-going programs.

The total six-year request is \$212.85 million and represents an increase of \$71.65 million (51%) from last year's six-year request. The largest increase is related to the request for Tax Incremental Districts (TIDs) (\$68.5 million). The in rem Property request also has a large increase (\$5million) compared to last year's six-year request. Much of the increase is related to the Mayor's Strong Neighborhood Plan which was first funded in 2014.

There is one new capital program in DCD; the Rental Housing Rehab Program. This program received \$1,000,000 of funding in the 2015 Budget. The department did not submit a request for this program for 2016.

The Vacant Lot Beautification Program which was created in the 2014 Budget was moved to Forestry in the 2015 Budget.

The levy supported capital target for the Department of City Development for 2016 is \$3,500,000. Tax incremental districts and TID developer revenues do not count toward the capital target.

Capital Request Summary (in thousands)							
Project/Program	2016	2017	2018	2019	2020	2021	6 Yr. Total
Neighborhood Commercial District Street Improvement Fund		600	600	600	600	600	\$3,000
Business Improvement Districts		250	250	250	250	250	\$1,250
Tax Incremental Districts	25,000	25,000	25,000	25,000	25,000	25,000	\$150,000
Advance Planning Fund	150	150	150	150	150	150	\$900
Healthy Neighborhoods Initiative	150	100	150	100	150	100	\$750
Housing Infrastructure Preservation	450	450	450	450	450	450	\$2,700
In Rem Property	2,000	2,500	2,500	2,500	2,500	2,500	\$14,500
Commercial In Rem Property	250	500	500	500	500	500	\$2,750
Commercial Investment (Façade)	500	500	500	500	500	500	\$3,000
Brownfield Program	500	500	500	500	500	500	\$3,000
Total	\$29,000	\$30,550	\$30,600	\$30,550	\$30,600	\$30,550	\$181,850

Business Improvement District

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0	(100%)	
2015		250,000		250,000	0%	
2014		250,000		250,000	0%	
2013		250,000		250,000	0%	0
2012		250,000		250,000	0%	22,864
2011		250,000		250,000	(80%)	192,622
2010		1,236,250		1,236,250		93,646
2009					100%	203,226
2008		500,000		500,000	0%	363,244
2007		500,000		500,000		4,812
Total		3,186,250		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 Jan 2015, there were 34 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 has been requested for 2016.**

Since 2007, this program has had an average carryover balance of \$1.7 million. \$1 million of carryover borrowing authority lapsed in Dec 2013 (CC file 131209). CC file 141361 moved \$750,000 of borrowing authority from the BID account to the Development Fund account.

Past Proposed Spending Plans

2011	Riverworks	\$140,000
2011	North Ave. Marketplace (BID #32)	\$150,000
2012	Historic King Drive (BID #8)	\$500,000
2012	Lincoln Avenue/Becher	\$200,000
2013	KK Streetscape	\$250,000
2013	Center Street	\$250,000
2013	Prospect Avenue	\$TBD
2014	Granville Streetscape	\$250,000

Capital Request History – Business Improvement District (BID)

Annual Request		Six-Year Request	
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	\$250,000	2011	\$3,000,000

Neighborhood Commercial District Street Improvement Fund

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0	(100%)	
2015		200,000		200,000	(50%)	
2014		300,000		300,000	(33%)	
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.

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. Since 2007 this program has had an average carryover balance of \$1.7 million. A total of \$750,000 of borrowing authority has lapsed since January 2014.

No spending plan for 2016 was submitted with the request

Past Proposed Spending Plans

2011	Center St. Marketplace (BID #39)	\$130,000
2011	Bronzeville Phase I & II	\$210,000
2012	Historic King Dr. (BID #8)	\$500,000
2012	Lincoln Avenue/Becher	\$200,000
2013	KK Streetscape	\$250,000
2013	Center Street	\$250,000
2013	Prospect Avenue	\$TBD
2014	Granville Streetscape	\$250,000

Capital Request History – Neighborhood Commercial District Street Improvement Fund

Annual Request		Six-Year Request	
2016	\$0	2016	\$3,000,000
2015	\$600,000	2015	\$3,000,000
2014	\$600,000	2014	\$3,600,000
2013	\$800,000	2013	\$3,800,000
2012	\$500,000	2012	\$1,750,000
2011	\$500,000	2011	\$3,000,000

Tax Incremental Districts

Year	New Borrowing	Developer Revenue	Capitalized Interest	Total	% Δ	Actual
2016 Request	\$25,000,000	\$3,000,000		\$28,000,000	40%	
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%	
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	253,933,937	36,228,000	23,788,000	313,949,937		179,501,403

Since 2000, nearly \$438 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 2013 have totaled \$294.2 million.

The 2016 capital request is for \$25 million in borrowing with an additional \$3.0 million in revenue for a total of \$28.0 million. The amount of borrowing proposed remains at \$25 million annually through 2021. The annual revenue estimate increases to \$6 million in 2018. The total six-year request, including revenue, has increased by \$68.5 million (61%) compared to last year's six-year request.

Since 2007 this program has had an average carryover balance of \$115.9 million. A total of \$27.4 million of borrowing authority has lapsed since December 2013.

No potential TIDs were identified in the submitted request. The most recently created tax incremental districts are listed below. As of Jan 2015, there were 45 TIDs listed in the DCD website.

No.	Title	File #	Approved	Estim Project Costs
77	Hellerman/Tyton (67 th & Good Hope)	120657	09-25-12	\$750,000
78	Northwestern Mutual Life	121429	04-03-13	\$73,300,000
79	N. Water Street Riverwalk	130053	05-21-13	\$1,750,000

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. Funding will be limited to an amount not to exceed the final year's incremental revenue from the district. Amendments to TID Nos. 34, 47, 30, 18, 42, and 28 have provided a total of \$2.75 million in additional revenue for paving projects.

On September 24th the Common Council passed file 130460, and 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 including those related to street paving cost can be extended for one year if certain conditions are met. One year

extensions for TID nos. 30 and 40 were approved by the Council in December 2014. Anticipated funding from the extensions for affordable housing totals \$1,250,000.

The 2011, 2012 and 2013 Annual Reports for the City's Tax Incremental Districts can be found in Common Council Files 120267, 130269 and 140302.

The request includes funding for 2 positions (0.41 FTEs); 1 Development and Environmental Manager and 1 Sr. Economic Development Specialist. The number of positions supported by this request has decreased by one from 2014. The funding request for one Economic Development Specialist was eliminated in the 2015 request.

Capital Request History – Tax Incremental Districts

Annual Request

	Borrowing	Revenue	Total
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
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
2016 Request				\$150,000	50%	
2015	100,000			100,000	(33%)	
2014	150,000			150,000	0%	
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	1,400,000			1,400,000		970,625

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 2016 was submitted with the request. This program has supported 4 graduate intern positions (2 FTE) since 2013.

Proposed Activities	2016	2015	2014	2013	2012
Comprehensive Area Plan Implementation	\$	\$	\$	\$50,000 ⁴	\$50,000 ¹
Professional Development (conferences etc.)	\$	\$	\$	\$12,000	\$12,000
Software & GIS licensing	\$	\$	\$	\$8,000 ²	\$7,500 ²
Graduate Students and Scholar	\$	\$	\$	\$50,000	\$38,000
Market/Data Analysis	\$	\$	\$	\$43,000 ⁵	\$25,000 ³
GIS consultant for 2010 census data	\$	\$	\$	\$30,000	
Other	\$	\$	\$	\$12,000	\$12,500

¹ Downtown Catalytic Projects and strategic land use plans

² ArcView software and licenses

³ Citywide Industrial

⁴ Update Fond Du Lac Avenue & North Avenue Plan

⁵ Northwest side Industrial land use analysis

Capital Request History – Advance Planning

Annual Request		Six-Year Request	
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
2016 Request				\$150,000	50%	
2015	100,000			100,000		
2014				0	(100%)	
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 Greater Milwaukee Foundation also provides funds to support the Healthy Neighborhoods Initiative. DCD does not track the amount of the contributions because funding goes directly to the outside groups. However, the department estimated that the Foundation contributed over \$300,000 in 2011 and nearly \$400,000 in 2012. In 2014, 47 projects were approved leveraging over \$400,000.

During 2014, applications for new healthy neighborhoods were solicited. After review, 16 neighborhoods and 9 sponsoring organizations were chosen (see list below). 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.

The Healthy Neighborhood's recent annual reports can be found in Common Council Files 141439 (2014), 131250 (2013) and 121320 (2012).

Proposed Activities	2016	2015	2014	2013
Project within the neighborhoods	\$	\$50,000	\$100,000	\$90,000
Community improvement projects	\$	\$100,000	\$70,000	\$50,000
Administration	\$		\$30,000	\$10,000
Foreclosure Activities	\$			\$50,000

Designated Healthy Neighborhoods and Sponsoring Organizations for 2015

Thurston Woods	Agape Community Center
*Old North Milwaukee	Agape Community Center
Capitol Heights	Albright Methodist Church
Havenwoods	Havenswoods Economic Development Corp
Silver City	Layton Boulevard West Neighbors, Inc.
*Burnham Park	Layton Boulevard West Neighbors, Inc.
*Layton Park	Layton Boulevard West Neighbors, Inc.
*Harambee	Riverworks Development Corp.
*Riverwest	Riverworks Development Corp.
Sherman Park	Sherman park Community Association
*KK River Neighborhoods	Sixteenth Street Community Health Center
*Dunbar Oak	UW Extension Waukesha
*Tower Hill	UW Extension Waukesha
Lincoln Village	Urban Anthropology
*Baran Park	Urban Anthropology
*Polonia	Urban Anthropology

**Newly designated neighborhoods for 2015*

Capital Request History – Healthy Neighborhoods Initiative

Annual Request		Six-Year 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
2016 Request				\$450,000	0%	
2015		450,000		450,000	0%	
2014		450,000		450,000	(25%)	
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		3,200,000		3,200,000		1,723,670

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.

On November 1, 2013, the Common Council passed file 130736, an ordinance relating to expenditures from the Housing Infrastructure Preservation Fund. The ordinance provides that total expenditures from the Housing Infrastructure Preservation 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. The Common Council file also includes a report containing photos of all the homes that were in the program at that time.

A list of projects funded by this account in 2012 and 2013 can be found in Common Council File Numbers 121460 and 121405 respectively.

As of September 2014, this account has been used to fund improvements on 31 homes. Two additional homes have gone out to bid. Total expenditures as of September 2014 are \$2.4 million. The average cost per house where work has been completed (25 houses) is \$72,200. The average cost to date for houses still under construction (4 houses) is \$102,900. Eleven homes have been sold, 3 of them to NIDC. Excluding the homes that were sold to NIDC, the average sale price was \$17,800.

Capital Request History – Housing Infrastructure Preservation Fund

Annual Request		Six-Year Request	
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

HIP Expenditures by Year and Project						
Sum of Sum Amount	Year					
Descr	2010	2011	2012	2013	2014	Grand Total
2637 N 2ND ST - HIP		\$ 121,194.73	\$ -			\$ 121,194.73
2808 W. WELLS ST - HIP		\$ 28,131.97				\$ 28,131.97
3402 W. ST. PAUL - HIP 2011		\$ 28,332.89	\$ 3,190.52			\$ 31,523.41
HIP - 1227 N. 28th St.	\$ 193.00					\$ 193.00
HIP - 125 EAST LLOYD ST		\$ 43,486.61				\$ 43,486.61
HIP - 2565 N. 2ND ST		\$ 38,045.11				\$ 38,045.11
HIP - 2637-43 N. 2ND ST. 2011		\$ 4,011.60	\$ -			\$ 4,011.60
HIP - 2742 W STATE ST		\$ 83,706.97	\$ -			\$ 83,706.97
HIP - 2812 W. WELLS ST.		\$ 47,067.54				\$ 47,067.54
HIP - 318 Schiller St		\$ 60,949.20				\$ 60,949.20
HIP - 3320-22 West St. Paul	\$ 995.00					\$ 995.00
HIP - 749 N. 31st St.	\$ 193.00	\$ 733.98				\$ 926.98
HIP - 805 N. 28th St.	\$ 193.00	\$ 36,790.65				\$ 36,983.65
HIP - 817-19 North 28th Street	\$ 193.00	\$ 43,957.56				\$ 44,150.56
HIP 2010 - 2325 W MCKINLEY			\$ 27,538.26			\$ 27,538.26
HIP 2011 - 2325 W MCKINLEY			\$ 6.16			\$ 6.16
HIP 2011 - 2742 W STATE ST		\$ 87,394.99	\$ 10,508.38			\$ 97,903.37
HIP 2011 - 318 E SCHILLER		\$ 45,101.19	\$ 16,350.00			\$ 61,451.19
HIP 2011 - 3320-22 W ST PAUL		\$ 71,590.13				\$ 71,590.13
HIP 2011 - 749 N 31ST ST			\$ 70.71			\$ 70.71
HIP 2011 3402 W ST PAUL			\$ 4,001.64			\$ 4,001.64
HIP 2012 - 2217 N SHERMAN BLVD			\$ 36,503.55	\$ 49,929.50		\$ 86,433.05
HIP 2012 - 2325 W MCKINLEY			\$ 3,357.85	\$ 70,416.33		\$ 73,774.18
HIP 2012 - 2449 N 2ND ST			\$ 32,000.00			\$ 32,000.00
HIP 2012 - 2742 W STATE ST				\$ 1,540.00		\$ 1,540.00
HIP 2012 - 3229 W MCKINLEY			\$ 116,470.38			\$ 116,470.38
HIP 2012 - 3320-22 W ST PAUL			\$ 9,990.00			\$ 9,990.00
HIP 2012 - 3402 W ST PAUL			\$ 62,012.11	\$ 28,380.00		\$ 90,392.11
HIP 2012 - 3715 W SARNOV			\$ 3,624.44	\$ 1,500.00		\$ 5,124.44
HIP 2012 - 749 N 31ST ST			\$ 60,725.00			\$ 60,725.00
HIP 2013 - 1231 N 32ND ST				\$ 33,588.82	\$ 32,489.00	\$ 66,077.82
HIP 2013 - 2372 N 2ND				\$ 128.30	\$ 70,030.56	\$ 70,158.86
HIP 2013 - 2425 W MCKINLEY				\$ 119.46	\$ 60,215.19	\$ 60,334.65
HIP 2013 - 2429 N 2ND ST				\$ 66,694.86		\$ 66,694.86
HIP 2013 - 2534-36 N 1ST ST				\$ 70,053.32		\$ 70,053.32
HIP 2013 - 2676 N SHERMAN				\$ 55,406.91		\$ 55,406.91
HIP 2013 - 2807-09 W STATE ST				\$ 15,053.31	\$ 60,000.00	\$ 75,053.31
HIP 2013 - 3005 W KILBOURN				\$ 93.34		\$ 93.34
HIP 2013 - 4447 N 26TH ST				\$ 55.22		\$ 55.22
HIP 2013 - 4485 N 26TH ST				\$ 55.23		\$ 55.23
HIP 2013 - 805 N 28TH ST				\$ 6,594.00		\$ 6,594.00
HIP 2013 - 832 N 29TH ST				\$ 81,045.31	\$ 11,936.77	\$ 92,982.08
HIP 2013(2) - 4447 N 26TH ST					\$ 65,000.00	\$ 65,000.00
HIP 2014 - 2325-7 N SHERMAN					\$ 49,120.59	\$ 49,120.59
HIP 2014 - 2327 N 2ND ST					\$ 1,211.45	\$ 1,211.45
HIP 2014 - 4366 N 26TH ST					\$ 14,212.32	\$ 14,212.32
HIP 2014 - 4401 N 26TH ST					\$ 20,512.31	\$ 20,512.31
HIP 2014 - 749 N 31ST					\$ 2,280.00	\$ 2,280.00
HIP 2014 964-6 N 35TH ST					\$ 106.70	\$ 106.70
HIP ADMIN				\$ 51.20		\$ 51.20
HIP- Administration	\$ 968.00	\$ 50,743.75				\$ 51,711.75
Houseing Infra Preser-TAXABLE		\$ 16.00				\$ 16.00
Housing Infra Preser-TAXABLE		\$ 44,344.46	\$ 18,282.00			\$ 62,626.46
Grand Total	\$ 2,735.00	\$ 835,599.33	\$ 404,631.00	\$ 480,705.11	\$ 387,114.89	\$ 2,110,785.33

*as of Sept 2014

In rem Property

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$2,000,000	(38%)	
2015		2,500,000	750,000	3,250,000	71%	
2014		1,900,000		1,900,000	1,167%	
2013		150,000		150,000		128,820
2012						94,155
2011		200,000		200,000		36,228
2010						
2009						
2008						
2007						
Total		4,750,000	750,000	5,500,000		259,203

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.

Request Summary – 2016

2016	\$2,000,000
2017	\$2,500,000
2018	\$2,500,000
2019	\$2,500,000
2020	\$2,500,000
2021	<u>\$2,500,000</u>
Total	\$14,500,000

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. In 2016 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	\$39,799
Real Estate Analyst	1	0.50	\$42,269
Real Estate Specialist	<u>1</u>	<u>0.80</u>	<u>\$86,853</u>
Total	4	1.80	\$195,563

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. It is anticipated that the 2016 Budget will include TID sourced revenues. The current estimate for such revenues is \$333,200.

Estimated <i>In Rem</i> Properties			
Budget Request Year	Houses in City Inventory*	Additional Properties Anticipated**	Estimated Year End Inventory
2016	1,150	600-800	1,750-1,950
2015	1,000+	600-800	1,600-1,800
2014	1,000	600-800	1,600-1,800
2013	700	600-800	1,300-1,500
2011	558	700	1,258
*as of the request date (March of the year preceding the Budget Request Year)			
**prior to year end			

Activities related to the Special Joint Committee on Abandoned and Foreclosed Homes for 2010 through 2014 can be found in CC files 091230, 110809, 111347, 121405, and 131272.

Capital Request History – *In Rem* Property

Annual Request		Six-Year Request	
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

Commercial *in rem* Property Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$250,000	(50%)	
2015		500,000		500,000		
2014						
Total		500,000		500,000		

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. The number of city owned properties increased by approximately 8 from March 2014 to March 2015. It is expected that over 80 additional properties will be acquired in 2015 and 2016. Funding (\$500,000) has been requested each year from 2017 through 2021.

Capital Request History – Commercial *In Rem* Property

Annual Request		Six-Year Request	
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
2016 Request				\$500,000		
2015				0	(100%)	
2014		250,000		250,000	(50%)	
2013		500,000		500,000	0%	161,134
2012		500,000		500,000		0
2011						
Total		1,250,000		1,250,000		161,134

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. No spending plan for 2016 was submitted with the request.

In 2016, this account will fund 1 position of Commercial Corridor Manager (0.3 FTE).

The six-year capital request is for \$500,000 each year from 2017 through 2021 and is unchanged from last year's request. Since it was created, this account has had an average of \$787,000 in carryover borrowing authority.

Capital Request History – Commercial Investment Program (Façade Program)

Annual Request		Six-Year Request	
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
2016 Request				\$500,000	0%	
2015		500,000		500,000		
2014		500,000		500,000		
2013		500,000		500,000		429,756
2012		500,000		500,000		350,017
2011						
Total		2,000,000		2,000,000		779,773

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.

Capital Request History – Brownfield Program

Annual Request		Six-Year Request	
2016	\$500,000	2016	\$3,000,000
2015	\$500,000	2015	\$3,000,000
2014	\$500,000	2014	\$3,000,000
2013	\$500,000	2013	\$3,000,000

Rental Property Rehabilitation

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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.**

Project Updates

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 2013 total \$1,758,000.

Development Fund

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2015				0		
2014				0		
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%)	2,013,4489
2007		2,200,000		2,200,000		1,851,835
Total	675,000	7,675,000		8,350,000		29,349,165

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. Approximately \$91,700 of carryover borrowing authority remained in this account at the beginning of 2015. An additional \$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				\$22,543,000	1,088%	
2015		1,898,000		1,898,000	(58%)	
2014	170,000	3,587,000	680,000	4,437,000	30%	
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	28,179,500	680,000	29,215,500		22,104,513

The Fire Department (MFD) has submitted six capital requests. Three requests are for on-going programs. The remaining three are proposals to address the repair and maintenance needs for the department's fire fighting apparatus and to upgrade communications and IT systems.

The six-year total for all submitted requests is \$41,073,000.

The six-year request for Fire Facilities Maintenance has decreased by \$549,000 (10%) from the 2015 six-year request. 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.

The 2015 Proposed Budget included funding for the construction of the Annex at the repair facility. The cost of the Annex was partially offset by a reduction in major capital equipment. (fire engines and ladder trucks). Funding for the Annex was removed by an amendment prior to the adoption of the 2015 Budget. No additional funding was included for fire engines and ladder trucks.

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

The levy supported capital target for the Fire Department for 2016 is \$3,435,000.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$725,000	(47%)	
2015		1,374,000		1,374,000	10%	
2014		1,245,000		1,245,000	17%	
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		6,119,500		6,119,500		2,159,239

**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 \$549,000 less than last year’s six-year request. The average annual request is \$823,500, approximately \$22,900 per engine house per year.

The department has done a considerable amount of work evaluating the condition of their buildings and has developed a 20 year capital asset maintenance program. The early years of the program focused on building envelope issues.

Request Summary - 2016	
2016	\$725,000
2017	\$1,009,000
2018	\$777,000
2019	\$567,000
2020	\$751,000
2021	<u>\$1,112,000</u>
Total	\$4,941,000

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.

Since 2007, this program has had an average of \$1.5 million of carryover borrowing authority.

Capital Request History - Fire Facilities Maintenance

Annual Request		Six-Year Request		Priority	
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	Proposed Locations (for 2016)
Interior Surfaces ¹	\$86,000					
Ventilation	\$100,000					
Flooring		\$90,000	\$40,500	\$27,810	\$28,650	
Roofs	\$250,000	\$296,000	\$621,000	\$886,400	\$431,776	E18, E27, E37
HVAC	\$150,000 ²	\$60,000	\$7,700	\$39,784	\$8,195	E23
Boilers		\$150,000	\$25,700	\$26,523	\$27,318	
Electrical			\$45,000	\$46,350	\$47,740	E21
A/C		\$24,000	\$24,700	\$26,225	\$9,004	
Tuckpointing			\$132,000	\$108,768	\$28,008	E37
Paint		\$105,000	\$77,300	\$10,250	\$10,557	E4
Overhead Doors	\$25,000	\$38,000	\$7,800	\$32,251	\$8,304	E27
Windows	\$100,000	\$93,600	\$48,200	\$49,650	\$76,709	E6, E17
Doors		\$96,000	\$49,400	\$76,385	\$26,225	E6, E17
Mold		\$40,000	\$123,600			
Concrete	\$50,000	\$70,000	\$41,200	\$42,745	\$22,017	E21, E38
Apparatus floor ³						E3, E38
Water heater ³						E11, E12, E24
Foundation ³						E3

¹ Includes flooring, lighting and environmental remediation

² Combined boiler and HVAC

³ Funding for these activities is included in other categories.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$2,296,002	455%	
2015		414,000		414,000	(82%)	
2014		2,232,000		2,232,000	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		19,930,000		19,930,000		17,139,348

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

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. The current contract for purchasing fire fighting apparatus expires in December, 2015. The department will begin reviewing its specifications shortly in anticipation of executing a new contract. At the beginning of 2015, this program had \$3.4 million in carryover authority. Carryover amounts are often related to the long lead times that are associated with purchasing fire- fighting apparatus.

Request Summary - 2016	
2016	\$2,296,000
2017	\$2,378,000
2018	\$2,729,000
2019	\$3,184,000
2020	\$2,901,000
2021	<u>\$2,792,000</u>
Total	\$16,280,000

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.

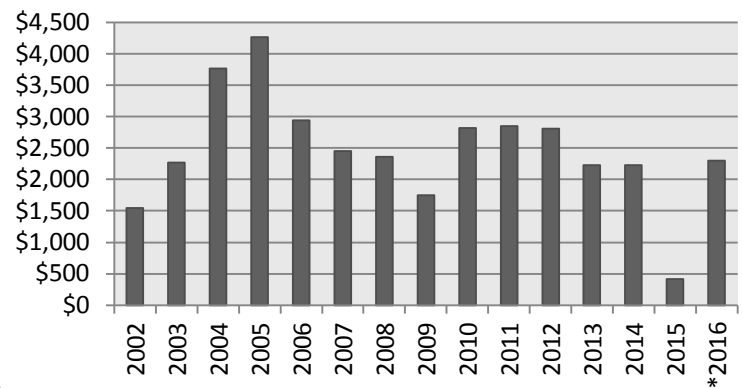
Fleet Size				Proposed Purchase Schedule								
	Frontline	Reserve	Total		2016	2017	2018	2019	2020	2021	Total	
Engines	33	10	43	Engines	2	2	2	3	2	2	13	
Ladder Units	15	7	22	Ladder Units	1	1	1	1	1	1	6	
Medical Units	15	5	20	Medical Units	3	2	3	2	3	2	15	
Total	63	22	85	Total	6	5	6	6	6	5	34	

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.

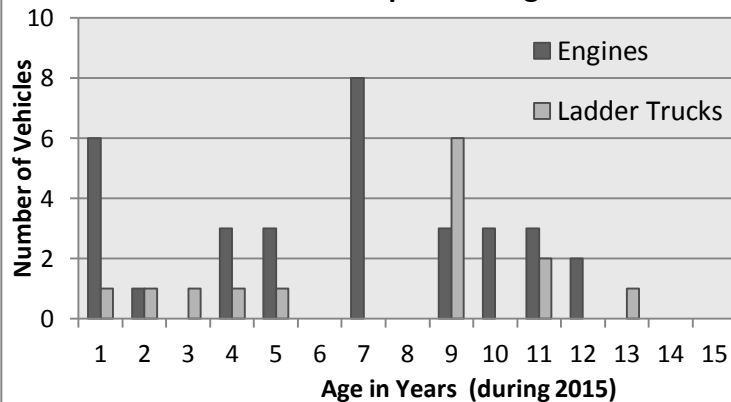
The Fire Dept. has proposed an acquisition schedule that is well aligned with the NFPA standards. The six-year request for major capital equipment is \$16.28 million and represents a decrease of \$2.5 million (13%) from last year's six-year request. The department has reduced its engine request by 1 engine and 2 ladder trucks over the six-year cycle.

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. It is also the result of proposed acquisition schedules that are more closely aligned with NFPA recommendations.

Thousands Fire Dept. Major Capital Equipment



Fire Dept. Fleet Age



Capital Request History – Fire Major Capital Equipment

Annual Request		Six-Year Request		Priority	
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 Digital Radio System**3 of 6**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$862,000		

This is a **new** request for 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.

Fire Record Management System**4 of 6**

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

This is a **new** request 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.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$18,000,000		

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 to 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 and 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	
2016	\$18,000,000	2016	\$18,000,000	2016	5 of 6
2015	\$4,300,000	2015	\$15,100,000 (3 year project)	2015	4 of 6
2014	\$4,100,000	2014	\$14,500,000 (3 year project)	2014	5 of 5
2013		2013		2013	No Request
2012		2012		2012	No Request
2011	\$5,975,000	2011	\$5,975,000 (1 year project)	2011	

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$110,000	0%	
2015		110,000		110,000	0%	
2014		110,000		110,000	0%	
2013		110,000		110,000	0%	191,563
2012		110,000		110,000	0%	0
2011		110,000		110,000	0%	38,342
2010		110,000		110,000	10%	228,656
2009		100,000		100,000	0%	0
2008		100,000		100,000	0%	(21,074)
2007		100,000		100,000	0%	34,867
Total		960,000		960,000		472,354

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.

The installation of a generator at Engine 21, funded in 2013, was completed in 2014. The installations at Engine 8 and Engine 24 are nearly complete. Generators have been ordered for Engine 7, Engine 11, Engine 17, and Engine 34. When these installations are complete, all but 5 stations (Engines 1, 6, 26, 27, and 28) will have a backup power supply. The department anticipates that no funding will be required after 2019.

Capital Request History – Auxiliary Power Supply

Annual Request		Six-Year Request		Priority	
2016	\$110,000	2016	\$440,000	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

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 3 cycles of county-wide paramedic training, and 3 cycles of 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.**

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.**

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.**

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 will complete 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 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.

Engine #	Address	Year Constructed	Age
Engine 01	784 N Broadway	1872	143
Engine 02	755 N James Lovell	1962	53
Engine 03	100 W Virginia St	1900	115
Engine 04	9511 W Appleton Ave	1976	39
Engine 05	1313 W Reservoir Ave	1969	46
Engine 06	1693 N Franklin Pl	1946	69
Engine 07	3174 S Chase Ave	1950	65
Engine 08	5585 N 69 St	1958	57
Engine 09	4141 W Mill Rd	1978	37
Engine 10	5600 W Oklahoma Ave	1954	61
Engine 11	2526 S Kinninckinnic Ave	1964	51
Engine 12	1400 N 9 St	1954	61
Engine 13	2901 N 30 St	1927	88
Engine 14	6074 S 13 St	1978	37
Engine 16	10320 W Fond Du Lac Ave	1990	25
Engine 17	4653 S 13 St	1959	56
Engine 18	3626 N Holton St	1981	34
Engine 21	2050 N Palmer St	1894	121
Engine 22	8814 W Lisbon Ave	1953	62
Engine 23	2130 W Oklahoma Ave	1996	19
Engine 24	4927 W Fiebrantz Ave	1967	48
Engine 25	300 S 84 St	1983	32
Engine 26	1140 S 26 St	1904	111
Engine 27	2647 N Bartlett Ave	1904	111
Engine 28	424 N 30 St	1904	111
Engine 29	3541 S 84 St	1985	30
Engine 30	2903 N Teutonia Ave	1912	103
Engine 31	2400 S 8 St	1912	103
Engine 32	1551 N 30 St	1985	30
Engine 33	4515 W Burnham	2010	5
Engine 34	6205 W Burleigh St	1949	66
Engine 35	100 N 64 St	1998	17
Engine 36	4060 N 27 St	1997	18
Engine 37	5335 N Teutonia Ave	1981	34
Engine 38	8463 N Granville Rd	1965	50
Engine 39	8025 W Bradley Rd	1977	38

Health Department

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$404,868	11%	
2015		366,000		366,000	(14%)	
2014		425,000		425,000	(2%)	
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	75,000	3,951,000		4,026,000		3,580,351

The Health Department has submitted one capital request for the 2016 Budget.

The total six-year request is \$2.3 million and represents an increase of \$184,000 (9%) from last year's six-year request.

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 2015 Budget funded 44% of the Health Department's request. Four unfunded projects from the 2015 request were resubmitted for 2016. Two of the projects have been rescheduled for 2017.

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.

The levy supported capital target for the Health Department for 2016 is \$400,000.

Health Facilities Capital Projects

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$404,868	11%	
2015		366,000		366,000	(14%)	
2014		425,000		425,000	(2%)	
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		1,836,000		1,836,000		550,608

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

Since 2010 this program has received nearly \$1.8 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. In 2012 these accounts had a combined carryover authority of just over \$1 million. As of 2013 no further carryover authority remains in those accounts.

In 2013, DPW did an inspection and analysis of the buildings maintained by the Health Department and found them to be in good condition. The department's 2015 capital request followed the recommendations in DPW's Facilities Condition Assessment (FCAP) report. The 2015 Budget funded 44% of the department's request. Projects scheduled for 2015 include the building Automated Systems at South Side Health Center and at Keenan Health Center.

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.

Request Summary – 2016

2016	\$404,868
2017	\$431,380
2018	\$401,911
2019	\$401,362
2020	\$397,233
2021	<u>\$279,025</u>
Total	\$2,315,779

2016 Anticipated Projects

Exterior

Porches – Membrane	\$25,700	
Asphalt Pavement (SSHC)	<u>\$11,100</u>	\$36,800

Mechanical

*Building Automated System (NWHS)	\$150,000	
*Air Handling (NWHC)	\$40,000	
*Air Conditioner (NWHC)	\$45,000	
*Water heater replacement (SSHC)	\$15,800	
*Lab ventilation system maintenance	<u>\$26,368</u>	\$277,168

Interior

Light Fixtures	\$51,400	
Painting Keenan	\$16,400	
Painting NWHC	<u>\$23,100</u>	\$90,900

Total **\$404,868**

*Projects requested in 2015.

Capital Request History – Health Facilities Capital Projects

Annual Request		Six-Year Request		Priority	
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

Project Updates

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
2016 Request				\$5,800,000	(34%)	
2015		8,750,000		8,750,000	159%	
2014	90,000	3,293,000		3,383,000	(10%)	
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	31,136,000	50,000	31,316,000		14,776,626

The Library has submitted seven capital requests for consideration for the 2016 Budget.

The total six-year request is \$27.9 million and represents a decrease of 4.3 million (13%) from last year's six-year request.

Work continues on the Building Initiative under the title "Branch Library – New Construction". East Library and the installation of a Vending library at Westlawn were both completed in 2014. The development and construction schedule for four new mixed use libraries has been extended through 2019.

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. No capital funding is requested for 2016 for any existing branch libraries.

The levy supported capital target for the Library for 2016 is \$5.8 million.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$4,800,000	12%	
2015		4,300,000		4,300,000		
2014						
Total		4,300,000		4,300,000		

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

This capital account was created in 2015. It is expected to be used to fund the construction of four new branch libraries to replace Mill Road, Forest Home, Capital and ML King. Funding for previous phases of the Library Facilities Initiative were requested and funded in other capital accounts.

Construction of Forest Home and Mill Road is expected to take place in 2016 and 2017. The construction of Capitol and ML King is expected to be complete in 2019.

The Library issued a request for interest, inviting developers who may want to partner on a mixed-use development that includes a library. Thirty-five developers attended an informational meeting that was held in early September, 2014. Responses to the RFI were due September 30, 2014. Fourteen proposals were received from seven different teams.

Request Summary - 2016	
2016	\$4,800,000
2017	\$4,100,000
2018	\$4,100,000
2019	\$600,000
2020	\$0
2021	\$0
Total	\$13,600,000

The MPL Board of 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 will be used for the entire project. The second use for the development will be market rate housing. The library and the apartments can be developed simultaneously.

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 capital request does not include any funding for building disposition if the redevelopment of the libraries creates vacant buildings.

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

Approximately \$3.7 million of the funding provided in 2014 in the Library Facilities capital account is for renovations and improvements at Tippecanoe and other neighborhood libraries.

Capital Request History – Branch Library New Construction

Annual Request		Six-Year Request		Priority	
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 7
		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
2016 Request				\$1,000,000	(41%)	
2015		1,700,000		1,700,000	9%	
2014		1,558,000		1,558,000	(21%)	
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		7,904,000		7,904,000		4,269,775

The Library makes three separate requests for the Central Library; the Interior Segment, the Exterior Segment and the Mechanical Improvements Segment. 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).

Since 2010, these requests have been budgeted in a general Central Library Improvements account. Since 2000, the City has invested nearly \$16.0 million in capital improvements at the Central Library.

From 2012 through 2014 the Central Library capital programs were funded as requested. In 2015 just over 40% of the request was funded. This account has had an average carryover borrowing authority balance of \$1.1 million since 2010.

This request also funds two positions (.2 FTE each); 1 Business Operations Manager and 1 Facilities Manager.

Proposed Projects for Central Library

Mechanical

2016	\$44,350	
2017 - Air handlers (3)	\$2,530,000	
2018 - Upgrade elevator	\$530,000	
2019 - Upgrade elevator 350 ton Chiller	\$1,252,000	
2020 - Air handlers (2)	\$1,444,350	
2021	<u>\$44,350</u>	
(Increase of \$294,350 (5.3%) from the 2015 request)		\$5,845,050

Exterior

2016 - Masonry repairs –Roof replacements	\$435,650	
2017 - Roof replacements	\$500,000	
2018 - Roof replacements	\$750,000	
2019	\$0	
2020	\$0	
2021 - Painting	<u>\$375,000</u>	
(Decrease of \$75,000 (3.5%) from the 2015 request)		\$2,060,650

Interior

2016 - Carpet Business & Science	\$520,000	
2017	\$250,000	
2018 - Repaint rotunda dome and halls	\$600,000	
2019 - Carpet in Art/Music Room and upgrade Humanities staff area	\$1,400,000	
2020 - Renovate Media and Teen areas Repaint rotunda dome and halls	\$1,100,000	
2021 - Paint Old Board Room & Upgrade 1 st floor staff areas	<u>\$435,000</u>	
(Decrease of \$7.4 million (63%) from the 2015 request)		\$4,305,000
		\$12,210,700

Capital Request History – Central Library Improvements

Annual Request

	<u>Mechanical</u>	<u>Exterior</u>	<u>Interior</u>	<u>Total</u>
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

	<u>Mechanical</u>	<u>Exterior</u>	<u>Interior</u>	<u>Total</u>
2015	\$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

Branch Library Improvements (Interior, Exterior, Mechanicals)

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0	(100%)	
2015		2,750,000		2,750,000		
2014				0		
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		1,479,667

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. Forest Home and Mill Road are requested for construction in 2016. Development (site selection and RFP) will begin in 2016 for Capitol and M.L King

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.

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	

2016 6 Year Request**Mechanicals**

2021 - HVAC & electrical system at Center Street \$900,000

Exterior

2020 - Replace roof at Bay View & Zablocki \$400,000

2021 - Replace windows at Center Street \$330,000

Interior

2021 - Carpeting for Bay View, Center Street & Washington Park \$450,000

\$2,080,000

Capital Request History – Branch Library Improvements**Annual Request**

	<u>Mechanical</u>	<u>Exterior</u>	<u>Interior</u>	<u>Total</u>
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

	<u>Mechanical</u>	<u>Exterior</u>	<u>Interior</u>	<u>Total</u>
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

Project Updates and Past Requests

Library Facility Initiative

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0**		
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 for 2015 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 that will 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 and existing branches were not closed, 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 are currently being developed.

Municipal Court

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$55,000	(89%)	
2015		504,000		504,000	250%	
2014	144,000			144,000		
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		1,277,174

The Municipal Court has submitted two capital requests. One request is for funding in 2016 and is not related to the Court's information technology systems.

The total six-year request is \$439,000 and represents a decrease of \$449,000 (51%) from last year's six-year request. Most of the decrease is related to the CATs & Website Upgrade project which was partially funded in 2015.

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.

The levy supported capital target for the Municipal Court for 2016 is \$384,000.

Court Remodel/Redesign**1 of 2**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$55,000		

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

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.

CATS & Website Upgrade**Out Year 2 of 2**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0	(100%)	
2015		504,000		504,000		
2014						
Total		504,000		504,000		

This project to upgrade the Court's Case Automated Tracking System (CATS) and the Courts website 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. The project was originally scheduled for 2015 and 2016. The court has decided to delay the project for one year and is now requesting for **2017** (\$384,100) because of staffing changes.

Capital Request History – CATS & Website Upgrade

Annual Request		Six Year Request		Priority	
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

Project Updates

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. **No additional funding was requested for 2015 or 2016.**

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. Nearly all traffic citations and approximately 80% of municipal citations are received electronically. The remaining citations must be scanned by Municipal Court staff.

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 has been completed on time and within its budget.

Department of Neighborhood Services

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$2,225,000	(1%)	
2015		1,744,000	500,000	2,244,000	(3%)	
2014		2,320,000		2,320,000		
2013				0		15,721
2012				0		0
2011						48,169
2010		76,141		76,141		0
2009						0
2008						
2007						
Total		4,140,141	500,000	4,640,141		63,890

The Department of Neighborhood Services (DNS) has submitted four capital requests for the 2016 Budget. All of the funding requested is for 2016, there are no out year requests.

The increased capital funding in 2014 and 2015 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 was requested for this program after 2016.

The Record Scanning project that was requested last year was not resubmitted.

The elimination of the Record Scanning project has been offset by an increased request for demolition funding causing the total six-year request to be virtually unchanged from last year.

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

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

The levy supported capital target for the Dept. of Neighborhood Services for 2016 is \$1,725,000.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,414,400	(7%)	
2015		*1,319,000		*1,319,000	(41%)	
2014		*2,220,000		*2,220,000		
2013						
Total		*3,539,000		*3,539,000		

**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 department did not request any additional funds for the Concentrated Blight Elimination account for 2015. The 2015 Budget, however, provided \$1.3 million for the continuation of demolition activities. For 2016, the department has requested capital funding of \$1.4 million for demolition activities. No funding has been requested after 2016.

The average cost per residential demolition is \$15,700. Approximately \$300,000 of the 2015 allocation has been set aside for deconstruction activities. Thirteen homes have been identified for deconstruction. The department reports demolition activities to the Special Joint Committee on the Redevelopment of Abandoned and Foreclosed Homes. Those reports are available as attachments to Common Council file 141695.

The department projects that approximately 205 in rem properties will be acquired which will require razing. DPW has the capacity to raze just over 40 of them. The cost to raze the remaining structures is nearly \$3.8 million. The department also anticipates the need for demolishing about 27 commercial properties at a cost of \$702,000. The total cost for contracted demolition services is expected to be \$4.5 million.

The department included a detailed demolition status report with the 2016 capital request.

Capital Request History – Demolition

Annual Request		Six-Year Request		Priority
2016	\$1,414,400	2016	\$1,414,400	1 of 4

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$500,000	0%	
2015			500,000	500,000		
2014						
Total			500,000	500,000		

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 2016.

This program will support 1 position (1FTE) of NIP Inspector.

Capital Request History – Code Compliance Loans

Annual Request		Six-Year Request	
2016	\$500,000	2016	\$500,000

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$225,000	(47%)	
2015		425,000		425,000		
2014						
Total		425,000		425,000		

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 partially funded in 2015. The 2016 request represents the funding required to complete the project.

The abandonment of the vault below the garage floor has been included in this request.

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.

Cost estimates from DPW Facilities do not include furnishings. The cost of the furnishings is not known at this time. Some furnishings could be repurposed from their existing use.

No funding has been requested after 2016.

Capital Request History – Conversion of Anderson Water Tower Garage

Annual Request		Six-Year Request		Priority	
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**4 of 4**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$85,600		

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. This request is for the completion of the project.

Capital Request History – Remodel of the Development Center Offices

Annual Request		Six-Year Request		Priority	
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	3 of 3

Project Updates and Past Requests

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, 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 continuing to monitor the piloted installations. No policy regarding the use of alternate board-up materials has been established. No funds have been expended from this account. All 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 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.** 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 was submitted for 2015 or 2016.**

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
2016 Request				\$24,315,900	197%	
2015		4,600,000	3,600,000	8,200,000	(11%)	
2014	225,000	8,952,000		9,177,000	24%	
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	760,000	42,149,631	3,600,000	46,509,631		27,595,105

The Police Department has submitted 16 capital requests for the 2016 Budget, six more than last year.

The 2016 request includes six new projects. All of the new requests are one year information technology projects. A total of \$5.2 million has been requested for the new one year projects. IT projects represent 55% of the 2016 funding request. With the exception of the Server Replacement request, which has funding requested for 2016 and 2017, no IT projects have out-year funding requests.

The total six-year request is \$61,564,483 and represents an increase of \$7.2 million (13%) from last year's six-year request. The largest increase in the six-year request is \$3.75 million for the Radio Dispatch Console Upgrade project. \$2 million of the increase is related to the renovation of the Police Administration Building. The project needed a lower level of funding in 2015. In 2016, the request returns to previously expected levels. Funding has been requested every year through 2021.

Additional funding of \$850,000 has been requested for the Uninterruptable Power Supply project which was originally funded (\$696,000) in 2014.

No funding has been requested for body cameras

The levy supported capital target for the Police Department for 2016 is \$8,050,000.

Capital Request Summary							
Project/Program	2016	2017	2018	2019	2020	2021	Six-Year Total
PAB Renovation	7,340,000	6,661,860	8,141,422	6,273,102	5,731,049	3,106,878	\$37,254,311
Radio & Communications Upgrade	815,000	375,000					\$1,190,000
Server & Storage Replacement	250,000	250,000					\$500,000
Record Management System	5,000,000						\$5,000,000
Mobile Data Computer Upgrades	1,000,000						\$1,000,000
District Station Repairs	2,053,900	1,511,070	1,546,182	1,037,628	1,359,754	1,254,638	\$8,763,172
Uninterruptable Power Supply	850,000						\$850,000
*Radio Dispatch Console Upgrade	3,750,000						\$3,750,000
*Warrant & Alerts Application System	\$350,000						\$350,000
*911 Network Upgrade	\$72,000						\$72,000
Upgrade CAD System	\$1,300,000						\$1,300,000
Police Training Mgmt. System	\$250,000						\$250,000
*MediaSolv Camera Upgrade	\$250,000						\$250,000
*Quarter Master System	\$35,000						\$35,000
Digital Asset Mgmt. System Repl.	\$150,000						\$150,000
Mobile Identification System	\$850,000						\$850,000
*New Request for 2016							
Total	\$24,315,900	\$8,797,930	\$9,687,604	\$7,310,730	\$7,090,803	\$4,361,516	\$61,564,483

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$815,000	308%	
2015		200,000		200,000	(45%)	
2014		365,000		365,000	(22%)	
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	1,312,000		1,527,000		337,595

This program was first funded in 2009. The six-year capital request is \$1,190,000.

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.

Request Summary - 2016	
2016	\$815,000
2017	\$375,000
2018	\$0
2019	\$0
2020	\$0
2021	\$0
Total	\$1,190,000

The Department anticipated the need to construct 8 new radio sites. The order of the build-out has changed from the original proposal in 2012, because there were more push-to-talk coverage issues in the UWM, St. Luke’s and District 4 areas. Funding in 2016 is expected to be used for the Bayside/Whitefish Bay Water Tower, Froedert/Children’s Hospital and the Oak Creek Water Tower sites.

The site at the Greenfield Water Tank will be constructed in 2015.

Below is the current proposed build-out schedule.

- UWM (complete)
- St. Luke’s Hospital (complete)
- District 4 (under construction)
- Greenfield Water Tank
- Bayside/Whitefish Bay Water Tower
- Froedert/Children’s Hospital
- Oak Creek Water Tank
- Oak Lane Tower

Capital Request History – Radio & Communications Upgrade

Annual Request		Six-Year Request		Priority	
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

Server & Storage Replacement

2 of 16

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

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 3 year cycle and establish a virtualized data center. The 2014 request included \$225,000 each year for a six-year total of \$1,350,000. No request was submitted in 2015. The 2016 request includes a total of \$500,000 (\$250,000 in 2016 and 2017).

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.

In 2014, the department has 150 terabytes of storage and anticipated needing an additional 250 terabytes over the next six years. 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.

This program will be implemented and administered by the Police Department’s Information Systems Division.

Capital Request History – Server & Storage Replacement

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

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$5,000,000	150%	
2015		2,000,000		2,000,000	43%	
2014		1,400,000		1,400,000	180%	
2013		500,000		500,000		
2012						
Total		3,900,000		3,900,000		

This capital account funds the replacement of the Police Department's Tiburon record management system. Since 2013 this capital account has received \$3.9 million of funding. The six-year capital request is \$5,000,000. No funding is requested after 2016. In 2013, \$68,300 was expended from the Tiburon Upgrade account for this project.

Vendor demonstrations were complete in July 2014. The department does not expect a contract to be awarded before late in 2015.

The estimated cost has increased by \$1.3 million from last year's request.

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 records management system to replace the Tiburon RMS instead of upgrading it.

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. The department expects that a contract for the project will be awarded late in 2015.

A number of issues have been raised 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 results of 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	
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 Administration Building Remodeling

4 of 16

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$7,340,000	753%	
2015		860,000		860,000	(86%)	
2014		5,991,000		5,991,000	4%	
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		21,074,831		21,074,831		8,854,852

Since 2000, the City has budgeted \$28.8 million for improvements at the PAB. A major renovation project began in 2011 and is expected to last through 2021. \$16.4 million has been budgeted for this project. The project was also authorized to receive \$350,000 in contingent borrowing in June, 2012. The estimated cost for the total project is \$58.6 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 2020, has been phased over multiple years to minimize impacts on annual budgets and MPD operations.

Request Summary - 2016

2016	\$7,340,000
2017	\$6,661,860
2018	\$8,141,422
2019	\$6,273,102
2020	\$5,731,049
2021	<u>\$3,106,878</u>
Total	\$37,254,311

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 was originally scheduled to be completed in July, 2014. The delay was caused 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 is somewhat behind schedule, less funding was required in 2015. The Department expects the design and construction schedule for Phases 3, 4 and 5 to improve because, unlike Phases I and II, they are predominantly general office spaces.

The construction of the 4th floor (Phase III) was funded in 2014. The department anticipates that most of the construction of the 4th floor will take place in 2015. The department has requested funding for 2015 to complete the asbestos removal on the 3rd floor. Actual construction of the 3rd floor (Phase IV) is expected to start in early 2016.

The Fusion Center, which was originally included in Phase III has been moved to Phase V. The adjusted Phase III estimate (excluding the Fusion Center) is \$5,991,260.

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.

The Police Department has obtained grant funding to update jail cell areas and the Fusion Center. 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.

Police Administration Building Phasing Schedule

Year	Phase	Proposed Work
2012	1	New chase and high-rise upgrades (complete)
2013 -2014	2	5 th Floor remodeling (complete Jan 2015)
2014 -2015	3	4 th Floor remodeling (begin design October 2014)
2015 – 2016	4	3 rd Floor remodeling (asbestos removal scheduled for 2015)
2016 -2017	5	2 nd Floor remodeling & Fusion Center
2017 -2018	6	1 st Floor remodeling - Municipal Court
2018 -2019	7	7 th Floor remodeling
2019 -2020	8	Basement & 6 th Floor remodeling
2020	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.

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	
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
2016 Request				\$1,000,000		
2015		1,000,000		1,000,000		
2014						
Total		1,000,000		1,000,000		

This request is 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 Budget to replace 160 mobile data computers (MDCs), one half of the 320 patrol and other vehicles so equipped. 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 Department is requesting an additional \$1 million of funding for 2016 to replace the remaining 160 computers.

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	
2016	\$1,000,000	2016	\$1,000,000	2016	5 of 16
2015	\$1,000,000	2015	\$2,000,000	2015	5 of 10
2014		2014		2014	No Request
2013	\$1,500,000	2013	\$3,000,000	2013	8 of 10

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$2,053,900	280%	
2015		540,000		540,000	8%	
2014		500,000		500,000	456%	
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	1,895,000		2,175,000		582,696

**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 \$8.8 million, an increase of 4% from last year’s six-year request.

In 2013, \$90,000 was provided for upgrades to the building automation systems in all of the district stations. Projects funded in 2014 included repairs to the garage at District 6. The 2015 Budget funded approximately 33% of the department’s request for District Station Repairs. Funding was provided for major maintenance and asphalt sealing at District 2, windows at the Neighborhood Task Force Building, two rooftop air handling units at District 7 and a generator fuel tank at the Radio Shop.

Two unfunded projects were moved from the 2015 request to the 2016 request: the general remodeling of District 4 and tile flooring replacement at District 2. The bathrooms and janitor’s closet that have been requested in the past as a separate capital item have been incorporated into this program.

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 - 2016	
2016	\$2,053,900
2017	\$1,511,070
2018	\$1,546,182
2019	\$1,037,628
2020	\$1,359,754
2021	<u>\$1,254,638</u>
Total	\$8,763,172

Projects Proposed for 2016

Police Administration Building	
Relocate Police Memorial	\$69,800
North & West Driveway Repair, truck dock stair, striping	\$45,200
Rem & Replace safely railing	\$47,100
Paint north exterior face at basement level	\$36,000
Replace Rooftop units for Muni court Entrance	\$75,000
District 2 – 242 W. Lincoln Avenue	
Flooring	\$48,000
Replace MAUs in Garage	\$45,000
DataComm Center – 2333 N. 49 th Street	
Additional toilet room and custodial closet	\$143,000
Exterior painting	\$40,000
District 4 – 6929 W. Silver Spring	
Kitchen renovation	\$30,000
Locker room construction	\$500,000
Office furniture replacement & renovation	\$317,000
Restroom renovations	\$27,000
Emergency generator replacement	\$125,000
District 6 – 3006 S. 27 th Street	
Paving and misc. site work	\$120,000
District 7 – 3626 W. Fond Du Lac Avenue	
Domestic water heater replacement	\$10,000
Neighborhood Task Force – 4715 W. Vliet Street	
Repair chimney	\$15,000
Roof replacement (Section 4)	\$15,000
82 nd & Keefe	
Roof replacement (3 sections)	\$150,000
Safety Academy	
Painting	\$45,800
Department Wide	
Camera, door security and inside monitoring	<u>\$150,000</u>
Total	\$2,053,900

Capital Request History – District Repair

Annual Request		Six-Year Request		Priority	
2016	\$2,053,900	2016	\$8,763,172	2016	6 of 16
2015	\$1,671,650	2015	\$8,441,730	2015	10 of 10
2014	\$1,693,200	2014	\$7,804,512	2014	6 of 8
2013	\$655,000	2013	\$2,155,000	2013	4 of 10
2012	\$790,000	2012	\$2,630,000	2012	4 of 4
2011	\$300,000	2011	\$300,000	2011	5 of 10, 9 of 10

Uninterruptable Power Supply**7 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$850,000		
2015						
2014		696,000		696,000		
Total		696,000		696,000		

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.

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.

Capital Request History – Uninterruptable Power Supply

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

Radio Dispatch Console Upgrades**8 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$3,750,000		

This is a **new** request for 2016 to replace the radio consoles used by the Police Department.

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 has made a separate request (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). No funding has been requested after 2016.

Warrants and Alerts Application System**9 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$350,000		

This is a **new** request for 2016 for a one year project that will allow the department to retire its mainframe.

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.

No funding has been requested after 2016.

911 Network Upgrade**10 of 16**

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

This is a **new** request for 2016 for a one year project that will upgrade the 911 network.

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

No funding has been requested after 2016.

Upgrade CAD System**11 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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 project was not funded in 2015. The requested amount has not changed from last year. The system is expected to have a useful life between 6 and 15 years.

Police Training Management System**12 of 16**

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

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. 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 2016. The requested amount has not changed from last year.

MediaSolv Camera Upgrade**13 of 16**

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

This is a **new** request for 2016 for a one year project that will allow the department to upgrade interview room cameras.

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.

No funding has been requested after 2016.

Quarter Master System**14 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$35,000		

This is a **new** request for 2016 for a one year project to purchase an inventory control system. The system will facilitate reporting of inventory for audit and grant purposes.

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.

No funding has been requested after 2016.

Digital Asset Management System Replacement**15 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$150,000		

This was a new request in 2015 for a one year project to replace the department digital asset management system. The project was not funded in 2015. No funding has been requested after 2016. The requested amount has not changed from last year.

The next generation of storage for the City’s eVault is expected to be a product used by law enforcement, courts, and the FBI. It is likely that the system will or could have the features desired by the Police Department. There may be opportunities to collaborate with the Dept. of Administration on this project.

Mobile Identification**16 of 16**

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$850,000	%	

This is 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 has been requested after 2016.

Project Updates and Past Requests

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 case is currently in the fact finding stage.

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.

Evidence Storage Warehouse

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

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 request was received for 2014, 2015 or 2016.**

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.

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.

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.**

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.**

Safety Academy Expansion

This project was first requested in 2013. It did not receive funding in the 2013 Budget. **No request was submitted for 2014, 2015 or 2016.**

The project would have developed 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 and intend to request funding to do a comprehensive study in conjunction with the Fire Department and DPW to determine appropriate training programs and facilities and develop the scope of the project.

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

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.**

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.**

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.

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.**

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	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				*\$850,000	(53%)	
2015		1,000,000	800,000	1,800,000	140%	
2014		750,000		750,000	(30%)	
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		5,050,000	3,450,000	8,500,000		3,976,809

*2016 request excludes grant funding

The Port of Milwaukee has submitted 13 capital requests. Six requests are for funding in 2016.

The total six-year request, excluding grant funding, is \$10,700,000. This amount includes \$4 million for the purchase of a new heavy lift crane. The crane has been in the capital plan for several years and is expected to be delivered in 2016.

A number of the Port's programs provide matching funds for grants. The 2016 request includes \$800,000 in grant funding for the Pier, Berth and Channel program. The six-year request includes \$8.28 million in projected grants including \$2.08 million for the City Heavy Lift Dock (2018) and \$1.4 million for the Transload Facility (2021).

City funding in the capital budget for the Port of Milwaukee has averaged just over \$815,000 per year since 2000. No capital funding was provided in 2010 or 2011. 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 2015 is \$516,000. Expenditures from 2010 through 2013 average \$420,900. (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 levy supported capital target for the Port of Milwaukee for 2016 is \$850,000. The purchase of the crane does not count toward the capital target.

The most recent 3 Year Statement of Intentions for Port activities can be found as an attachment to Common Council file 141689.

The Department of Public Works evaluated the condition of the Port's facilities. An interim FCAP report is available as an attachment to Common Council file 121728.

Capital Request Summary							
Project/Program	2016	2017	2018	2019	2020	2021	Six-Year Total
Rail Track and Service Upgrades	400,000	500,000		100,000		100,000	\$1,100,000
Dockwall Rehabilitation	100,000	150,000	150,000	150,000	150,000	150,000	\$850,000
Demolish Expired Leasehold Facilities	100,000			100,000		100,000	\$300,000
Pier Berth & Channel Improvements	200,000	200,000	200,000	200,000	200,000	200,000	\$1,200,000
Port Security	50,000		100,000	100,000	100,000	100,000	\$450,000
Cargo Handling Equipment	4,000,000						\$4,000,000
Terminal Resurfacing		50,000	250,000			100,000	\$400,000
Roadway Paving			100,000				\$100,000
Rehab Electrical Service S. Harbor Tract			100,000			100,000	\$200,000
Energy Initiative			100,000		100,000		\$200,000
Harbor Maintenance Dredging		50,000				150,000	\$200,000
Secured Ferry Terminal Parking			100,000		100,000		\$200,000
City Heavy Lift Dock Improvements			520,000				\$520,000
Transload Terminal						350,000	\$350,000
TOTAL	\$4,850,000	\$950,000	\$1,620,000	\$650,000	\$650,000	\$1,350,000	\$10,070,000

Port of Milwaukee Special Funds*						
	2010	2011	2012	2013	2014	2015
	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Actual</i>	<i>Budget</i>	<i>Budget</i>
Major Maintenance – Terminals & Piers	\$95,000	\$110,072	\$101,240	\$56,053	\$125,000	\$100,000
Major Rehab & Upgrades – Equipment	43,615	71,856	51,725	89,633	50,000	50,000
Environmental Cleanup Fund	70,000	37,646	37,419	48,217		100,000
Harbor Maintenance Dredging	46,500				25,000	25,000
Equipment Rehab & Upgrade	51,540	113,932	74,753	157,663	100,000	75,000
Dockwall & Breakwater Rehabilitation	31,978	29,221		61,146	100,000	50,000
Energy Efficiency Upgrade	52,000	31,338	22,265		50,000	
Leasehold Demolition	2,223	12,701				150,000
Sewer System Upgrade	1,041	24,198	35,437	5,6510	50,000	
Harbor Security	19,664		46,859			
Total *	\$413,561	\$430,964	\$369,698	\$469,222	\$500,000	\$550,000

**This table excludes Summerfest related special funds*

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$400,000	(20%)	
2015		500,000		500,000		
2014		500,000		500,000	100%	
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	1,250,000	100,000	1,450,000		207,781

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 through June 15, 2015.

With funding provided in 2013 the Port replaced 1,050 feet of 90 lb rail with 110/115 lb rail and rebuilt four switches. In 2014, 930 feet of track were upgraded, 3 crossings and 800 ties were replaced. Expenditures in 2014 were \$236,000.

Request Summary – 2016	
2016	\$400,000
2017	\$500,000
2018	
2019	\$100,000
2020	
2021	<u>\$100,000</u>
Total	\$1,100,000

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

Capital Request History – Rail Track and Service Upgrades

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

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$100,000	(33%)	
2015		150,000		150,000		
2014				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		394,107

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 dockwalls for its tenants. Loss of revenue to the City may result if the dockwalls are not kept in a safe and useable condition.

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 dockwalls. Recent O&M budgeted funding and actual expenditures are shown in the table below.

At the beginning of 2015 this program had \$140,000 of general obligation carryover borrowing authority. \$23,370 in borrowing authority lapsed in 2009. An additional \$9,513 in borrowing authority lapsed in 2013.

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 dockwalls in the mooring basin and Terminal 2 will be repaired in 2015.

Port of Milwaukee Special Fund – Dockwall and Breakwater Rehabilitation

Year	Budget	Actual
2015	\$50,000	
2014	\$100,000	
2013	\$70,000	\$61,146
2011	\$100,000	\$29,221
2012	\$100,000	\$0
2010	\$	\$31,978

Capital Request History – Dockwall Rehabilitation

Annual Request		Six-Year Request		Priority	
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

Demolish/Rehabilitate Port Facilities

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

**Budgeted in the Port Facilities Systems Capital Account*

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.

Port of Milwaukee Special Fund

Leasehold Demolitions

Year	Budget	Actual
2015	\$150,000	
2014	\$0	
2013	\$10,000	\$0
2012	\$40,000	\$0
2011	\$40,000	\$12,701
2010	\$84,000	\$2,223

Port of Milwaukee Special Fund

Major Maintenance – Terminals and Piers

Year	Budget	Actual
2015	\$100,000	
2014	\$125,000	
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	
2016	\$100,000	2016	\$300,000 (2016, 2019)	2016	3 of 14
2015	\$250,000	2015	\$450,000 (2015, 2016, 2020)	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

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$200,000		
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	5,600,000*	6,700,000		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. No projects were identified in the request.

Since 2000, this program has received \$4,170,000 in City funding. No Harbor Assistance grants were received in 2013 or 2014. Since 2007, the average amount of carryover borrowing authority has been \$522,000. Over \$1,000,000 in general obligation borrowing authority has lapsed in this account since 2008 including \$293,000 that lapsed in 2013.

Capital Request History – Pier, Berth and Channel Improvements

Excludes Grant Funding

Annual Request		Six-Year Request		Priority	
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

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$50,000	%	
2015				0		
2014				0		
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		1,548,852

Since 2004, \$900,000 has been budgeted in this account. No funding was received in 2010, 2011, 2012 or 2014. The 2013 Budget provided \$50,000. A \$25,000 contract to provide security training to Port staff was awarded in 2013. There were no capital or special fund expenditures in 2013. No funding was included in the 2015 Budget for the Harbor Security special fund.

This ongoing 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. In addition to funding requested for 2016, the six-year request includes \$100,000 each year from 2018 through 2021, an decrease of \$150,000 (259%) from last year’s six-year request. 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.

Capital Request History – Port Security (excluding grant funding)

Annual Request		Six-Year Request		Priority	
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

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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. The Port anticipates receiving bids in the summer of 2015 and expects to award the contract in August. 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.

Capital Request History – New Crane / Heavy Lift Equipment

Annual Request		Six-Year Request		Priority	
2016	\$4,000,000	2016	\$4,000,000	2016	6 of 14
2015	\$0	2015	\$4,000,000 (2016)	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

Out Year Requests

Terminal Resurfacing

Out Year 7 of 14

The 2015 Budget provided \$250,000 for terminal resurfacing at the Port. Funding has been requested for **2017, 2018** and **2021** (\$50,000, \$250,000 and \$100,000 respectively) This program received funding of \$100,000, \$250,000, and \$150,000 in 2008, 2009, and 2013 respectively. Actual expenditures from 2008 through 2013 were \$128,700. Expenditures in 2014 through September were \$8,600. \$151,418 of general obligation borrowing authority lapsed in 2013.

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.

Roadway Paving

Out Year 8 of 14

This program provides 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 2015 Budget provided \$100,000 for roadway paving at the Port. \$50,000 was provided in the 2002 Budget and \$100,000 was provided in 2013. Funding of \$100,000 is requested for **2018**.

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. There were no expenditures from this account in 2012 or 2013. Expenditures in 2011 were \$115,785.

Rehab Electrical Services – South Harbor Tract

Out Year 9 of 14

This project received \$100,000 in funding in 2008. The 2016 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.

Energy Efficiency Upgrades

Out year 10 of 14

This program has received no capital funding. A capital request was first submitted in 2011. Funding is requested for **2018** and **2020**. (\$100,000 each year.) 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 below.

Port of Milwaukee Special Fund – Energy Efficiency Upgrades

Year	Budget	Actual
2015	\$0	
2014	\$50,000	
2013	\$0	\$0
2012	\$0	\$22,265
2011	\$0	\$31,338
2010	\$50,000	\$52,000

Harbor Maintenance Dredging

Out Year 11 of 14

This program provides funding to maintain the navigation channels in certain areas of the harbor. Funding is requested for **2017** 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 below.

Port of Milwaukee Special Fund – Major Maintenance – Dredging

Year	Budget	Actual
2015	\$25,000	
2014	\$25,000	
2013	\$50,000	\$0
2012	\$50,000	\$0
2011	\$50,000	\$0
2010	\$50,000	\$46,500

Secured Ferry Terminal Parking

Out Year 12 of 14

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 is 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. The Port now believes that construction can be deferred until **2018**. The six-year request is for \$200,000. This account has no carryover borrowing authority.

City Heavy Lift Dock Improvements

Out Year 13 of 14

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.

Transload Terminal

Out Year 14 of 14

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.

Project/Account Updates

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 (**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. (**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 or 2016.** 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.

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

Port of Milwaukee Special Fund – Sewer System Upgrade

Year	Budget	Actual
2015	\$0	
2014	\$50,000	
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 was submitted for 2014, 2015 or 2016.** 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 below.

Port of Milwaukee Special Fund – Major Rehabilitation & Upgrades - Equipment

Year	Budget	Actual
2015	\$50,000	
2014	\$50,000	
2013	\$50,000	\$89,633
2012	\$50,000	\$51,725
2011	\$50,000	\$71,856
2010	\$50,000	\$43,615

Port of Milwaukee Special Fund – Equipment Rehabilitation and Upgrade

Year	Budget	Actual
2015	\$75,000	
2014	\$100,000	
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 will pay for 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
2016 Request				\$6,725,000	(5%)	
2015		7,080,000		7,080,000	(6%)	
2014		7,517,000		7,517,000	16%	
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		57,382,000		57,382,000		33,379,614

The Department of Public Works has submitted one capital request for Operations – Fleet Division for the 2016 Budget. The total six-year request is \$78,777,000 and represents an increase of \$28.8 million (58%) from last year’s six-year request.

The levy supported capital target for DPW Operations for 2016 is \$6,975,000

CNG

DPW is continuing to transition its garbage and recycling packers to compressed natural gas (CNG) engines. DPW now has over 40 CNG-powered packers in use. The marginal cost of the CNG engines is \$39,000, an increase of \$3,000 (8.3%) since last year.

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. Projected fuel savings for 2015 are \$5,220 for each CNG packer. If the City has to pay the full cost of a CNG packer (no grant funding) the payback period on fuel related savings is 7.5 years.

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.

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. No new CNG related grant funding is anticipated in 2015.

Automated Packers

The 2015 Budget includes \$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 is \$166,000 (unchanged from last year). DPW currently has 6 fully-automated side loading trucks which it tested to determine operational constraints. 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.

Strong Neighborhood Investment Plan

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).

The actual cost of the excavator was \$227,000. Demolition work began on February 5, 2014. As of September 3, 2014, 58 demolitions have been completed. Twenty-eight more were expected by the end of the year. The department expected to reach its goal of 100 structures by February 5, 2015. 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.

Major Capital Equipment

1 of 1

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$6,725,000	(5%)	
2015		7,080,000		7,080,000	(6%)	
2014		7,517,000		7,517,000	16%	
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		56,187,000		53,187,000		32,335,554

*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 on fleet performance.

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.

Request Summary – 2016

2016	\$6,725,000
2017	\$13,776,000
2018	\$13,776,000
2019	\$14,850,000
2020	\$14,700,000
2021	<u>\$14,950,000</u>
Total	\$78,777,000

In an effort to save money on fuel costs, DPW is beginning to transition its garbage and recycling packers to compressed natural gas (CNG) engines. DPW currently has over 40 CNG powered packers. The marginal cost of the CNG engines (\$36,000 each) was partially funded by a grant. DPW anticipates that using CNG will result in significant fuel savings. The long term effect of CNG on engine life and vehicle replacement cycles is unknown at this time.

Capital Request History – DPW Fleet Services

Annual Request		Six-Year Request		Priority	
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	2016			2015			2014		
	Requested	Proposed	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost	Requested	Budgeted	Estimated Unit Cost
Backhoe/Loader				1	1	\$129,000			
Crane, Sidewalk Excavator	1		\$287,000						
Sweeper	2		\$196,000	2	2	\$196,000	2	2	\$196,000
Stump Cutter	1		\$55,000						
Tractors									
Light, Multi-Purpose				2	2	\$100,000	2	0	\$105,000
Front-End Wheel Loader	1		\$155,000	1	1	\$155,000			
Trencher w/ Breaker & Trailer	1		\$55,000						
Trucks									
Aerial, 30 Ft, Cargo Body									
Aerial, 36 Ft, Utility Body									
Aerial, 36 Ft, Step Van Body									
Aerial 50 Ft Utility Body				1	1	\$180,000	1	1	\$180,000/ \$205,000
Aerial, 50 Ft, Chip Box									
Aerial Bridge Insp. Unit (Rebuild)									
Chipper, Brush				3	3	\$53,000	3	3	\$53,000
Digger-Derrick	1		\$220,000	1	1	\$220,000			
Dump, 16 yard, Tri-Axle	2		\$160,000	2	2	\$155,000	2	2	\$150,000
Dump, 2 Yard w/Compressor									
Dump, 2 Yard w/ Crane	8		\$52,000	6	6	\$52,000	8	8	\$52,000
Dump, 5 Yard	1		\$120,000				1	0	\$120,000
Dump, 5 Yard, Chip Body									
Dump, 5 Yard w/Underbody Plow	6		\$170,000	10	6	\$170,000	10	9	\$160,000
Dump, 5 Yard, Crew Cab									
Dump, 24 Yard, Chip Body				1	1	\$110,000	2	2	\$110,000/ \$115,000
Log Loader									
Packer, 25 Yard, Rear Load									
Packer, 25 Yard, Rear load/Recycle	7		\$285,000	7	7	\$285,000	7	6	\$285,000
Packer, 25 yard w/Ramp Lift Arm									
Packer, 25 Yard Rear load w/ automated arm							3	3	\$451,000
Packer, 27 Yard Automated recycle	3		\$380,000	3	3	\$380,000			
Packer, 31 Yard Top Load				1	1	\$265,000	1	1	\$265,000
Pick, Utility									
Platform, Compressor,	2		\$80,000						
Platform Stake, large									
Roll-Off							2	2	\$165,000
Road Patcher				1	1	\$250,000			
Step Van	1		\$120,000						
Wrecker, Heavy Equipment	1		\$270,000						
Vacuum Truck					1	\$280,000			
*Excavator							1		\$298,000
*Trailer							1		\$59,000
*Skeleton Bucket							2		\$10,000
Total # of Units	38			42	39		44	44	
<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 has poor drainage and is prone to flooding. During heavy rain events, storm water runoff containing oil and fuel remnants flows 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. There are approximately 15 radios that are in storage until the intended vehicles are delivered. 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.

Year	Gen Oblig.	Total	Actual
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	\$1,044,060

DPW Operations – Forestry

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$3,780,000	3%	
2015	200,000	800,000	2,655,000	3,655,000	14%	
2014	75,000	500,000	2,635,000	3,210,000	(5%)	
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	781,200	9,576,879	12,909,625	26,922,939		18,851,351

The Department of Public Works has submitted six Forestry related capital requests for the 2016 Budget.

The total six-year request is \$22,605,000 and represents a decrease of \$4.9 million (18%) from last year's six-year request. Most of the decrease (5.4 million) is related to the Emerald Ash Borer Transition request which was submitted, but not funded in 2015. The department did not submit a request for 2016.

The reduction of the EAB Transition request is partially offset by the inclusion of the Vacant Lot Beautification program. 2016 is the first year that this capital program has been requested by Forestry.

The department's request for headquarter modifications which was submitted in 2015, was not included in the 2016 request.

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 allow them to be paid over six years. This will benefit homeowners who are impacted by the emerald ash borer infestation. \$75,000 was provided in the 2014 and 2015 budgets.

The levy supported capital target for DPW Operations is \$6,975,000. The Tree Planting program, the Hazardous Tree Removal Program, the Stump Removal program and the Emerald Ash Borer Readiness and Response program do not count toward the capital target.

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$1,895,000	25%	
2015		300,000	1,220,000	1,520,000	3%	
2014			1,483,000	1,483,000	(2%)	
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	8,895,125	12,854,360		9,402,184

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. The transfer from the Sewer Maintenance Fund is also used to fund certain tree related activities in Forestry’s operating budget.

In 2015, this account is partially funded with general obligation debt. Revenues from the Sewer Fund transfer that would normally have been used to fund this program will be used to provide increased support for pruning activities in the operational budget.

The department is requesting funds for 6,179 trees to replace the number of trees lost in 2014 to mortality, disease and paving projects. To prevent the tree planting backlog from increasing, the department is considering contract tree planting for 2016.

Request Summary - 2016	
2016	\$1,895,000
2017	\$1,630,000
2018	\$1,630,000
2019	\$1,630,000
2020	\$1,630,000
2021	<u>\$1,630,000</u>
Total	\$10,045,000

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

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

The department has submitted a request for stump removal to address the stump backlog which will allow the tree planting program to move forward in a timely manner. The department estimates that it generates 3,600 new stumps annually and has the capacity to remove 2,300 stumps. Funds have been requested for the contract removal of 1,300 stumps annually. The City is carrying a larger than normal backlog of stumping into 2015. Stumping has been included in the capital budget since 2012.

This request funds 32 positions (15.5 FTE) a reduction of 6 positions (2.2 FTE) from the 2013 request.

Title	Positions	FTE	Amount
Urban Forestry Staff	24	9	\$751,863
Urban Forestry Technician	1	1	\$108,500
Nursery Staff	7	3.3	\$275,423
Total	32	13.3	\$1,135,786

Capital Request History – Tree Planting & Production

Annual Request		Six-Year Request		Priority	
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
2016 Request				\$1,000,000	0%	
2015			1,000,000	1,000,000	5%	
2014			952,000	952,000	0%	
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	5,594,000	6,394,000		4,086,275

This program is funded by the Storm Water Management Fee. In the 2015 Budget, this program received \$16,000 more than the requested amount. The increase will support the treatment of smaller diameter ash trees which were initially untreated but that have grown into the treatment class.

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, \$6.4 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’s inventory has approximately 3,500 trees that are under 7” in diameter and could grow into the treatment class.

Request Summary - 2016	
2016	\$1,000,000
2017	\$1,000,000
2018	\$1,000,000
2019	\$1,000,000
2020	\$1,000,000
2021	<u>\$1,000,000</u>
Total	\$6,000,000

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.

This request supports 15 positions (5 FTE).

Title	Positions	FTE	Amount
Urban Forestry Specialist	12	4.0	\$339,321
Urban forestry Manager	3	1.0	\$144,870
Total	15	5.0	\$484,191

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.

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. Seventeen infested trees were identified on private property. Three infested trees in the City's right of way were also identified. The infested City street trees were less than 8" in diameter, had not been inoculated and have been removed. Other nearby ash trees which had been treated were inspected and were not found to be infested. It is believed that the infestation is between four and six years old. In 2014, EAB was active in 3 areas of the City; in the vicinity of 80th and Mill Road, 84th and Adler, and 49th and Hampton. No EAB activity has been detected in treated ash street trees. A total of 828 ash street trees were removed in the last 3 years, 340 in 2012, 351 in 2013 and 137 as of October 2014.

Forestry has surveyed private trees in the vicinity of known EAB infestations and has notified property owners of trees confirmed or symptomatic for EAB. 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).

Forestry has performed extensive outreach, attempting to notify property owners with ash trees and 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.

Capital Request History – Emerald Ash Borer Readiness and Response

Annual Request		Six-Year Request		Priority	
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
2016 Request				\$360,000	0%	
2015			360,000	360,000	80%	
2014			200,000	200,000	(50%)	
2013			400,000	400,000	67%	400,415
2012			240,000	240,000		231,770
2011						
Total			1,200,000	1,200,000		632,185

DPW began 2015 with a backlog of over 3,150 stumps. Historically, the backlog averages around 400 stumps. The Forestry Section cited reductions in Urban Forestry FTE’s and 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 about \$275 per tree, but it can vary with the diameter size of the stumps that are on a particular contract. If funding is provided as requested, the department anticipates that the 2015 year-end backlog will be about 2,850.

Request Summary - 2016	
2016	\$360,000
2017	\$360,000
2018	\$360,000
2019	\$360,000
2020	\$360,000
2021	<u>\$360,000</u>
Total	\$2,160,000

Because new trees are generally planted in the same locations where the trees were removed the year before, stump removal is a necessary part of site preparation. If the stumps are not removed in a timely manner, tree replacement will be delayed. The demands for stumping operation are expected to increase in the near future because of the emerald ash borer infestation. The 3-year average for tree removal (mortality and construction related) is 4,400 trees, an increase of approximately 365 from the previous 3-year average.

The current 3-year average for paving related tree removals (2012-2014) is 520, an increase of nearly 40% from the 2009-2011 3-year average. Increases in the paving program do not directly affected stumping activities because stumping is a bid item on the paving contracts.

The department included a projection of the stump backlog through 2019 with the capital request.

Capital Request History - Stumping

Annual Request		Six-Year Request		Priority	
2016	\$360,000	2016	\$2,160,000	2016	3 of 6
2015	\$360,000	2015	\$2,160,000	2015	4 of 7
2014		2014		2014	No Request
2013	\$405,000	2013	\$405,000	2013	4 of 4
2012		2012		2012	No Request

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$250,000	(50%)	
2015		500,000		500,000	0%	
2014		500,000		500,000	0%	
2013		500,000		500,000	12%	0
2012		447,000		447,000	(3%)	542,762
2011		460,000		460,000	(0%)	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		4,364,789		4,652,879		3,058,378

This program is not funded by the Storm Water Management Fee. 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 in 2015 will allow for the replacement of approximately 100 taps. The 2016 request has been reduced from previous years. The department anticipates that work in 2016 will be funded with carryover borrowing authority and a \$32,000 transfer from the Hazardous Tree Removal account.

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.

Request Summary - 2016	
2016	\$250,000
2017	\$500,000
2018	\$500,000
2019	\$500,000
2020	\$500,000
2021	\$500,000
Total	\$2,750,000

This request will fund 7 positions (3.5 FTE). The positions are generally unchanged from 2011.

Title	Positions	FTE	Amount
Irrigation Professionals	2	1.5	\$177,348
Urban Forestry Specialist	2	1.0	\$84,811
Urban Forestry Manager	3	1.0	\$144,875
Total	7	3.5	\$407,037

Capital Request History – Concealed Irrigation and General Landscaping in City Boulevards.

Annual Request		Six-Year Request		Priority	
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

Hazardous Tree Removal Program

5 of 6

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$75,000	0%	
2015			75,000	75,000		
2014	75,000			75,000		
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, similar to street and alley paving improvements.

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.

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 the Hazardous Tree Removal account to the Concealed Irrigation and General Landscaping account for 2016.

Capital Request History – Hazardous Tree Removal

Annual Request		Six-Year Request		Priority	
2016	\$75,000	2016	\$450,000	2016	5 of 6
2015	\$75,000	2015	\$450,000	2015	6 of 7
2014		2014		2014	No Request

Vacant Lot Beautification

6 of 6

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$200,000	0%	
2015	200,000			200,000		
2014	200,000			200,000		
Total	400,000			400,000		

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 can 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. In 2014 Forestry provided assistance with administering contract landscape improvements. This role is expected to continue in 2015.

Capital Request History – Vacant Lot Beautification

Annual Request		Six-Year Request		Priority	
2016	\$200,000	2016	\$1,200,000	2016	6 of 6
2015	\$200,000	2015	\$1,200,000	2015	DCD

Project Updates and Past Requests

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.

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.**

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.**

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				\$100,000	(64%)	
2015		275,000		275,000	(89%)	
2014	100,000	2,300,000		2,400,000	380%	
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	6,613,459		6,713,459		2,867,397

The Department of Public Works has submitted one capital request for Sanitation. The request is for a continuation of the Brine Maker project.

The department will be submitting out year requests for the Environmental Services Facility Modifications account and the Industrial Road Relocation project.

No request was included for the Material Recovery Facility because it was funded with contingent borrowing in 2014.

The levy supported capital target for DPW Operations for 2016 is \$6,975,000.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$100,000	(64%)	
2015		275,000		275,000		
2014						
Total		275,000		275,000		

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. 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.

Additional equipment will have to be installed on the salt trucks. No cost estimate was provided but the department anticipates that the cost will be minimal.

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.

Request Summary - 2016	
2016	\$100,000
2017	\$0
2018	\$0
2019	\$0
2020	\$0
2021	\$0
Total	\$100,000

The department was able to purchase a used brine maker from the City of Beloit late in 2014 using operational funds. The brine maker will be installed on the north side later this year. Capital funding from 2015 and 2016 will be used to purchase a second brine maker, which will be installed on the south side. Additional capital funding will be needed to purchase and install the third brine maker.

The brine makers are expected to have a useful life of about 15 years.

Capital Request History – Brine Makers

Annual Request		Six-Year Request		Priority	
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 Request				\$0	%	
2015				0	(100%)	
2014	100,000			100,000	(80%)	
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	(100%)	217,635
2007		2,260,500		2,260,500		393,831
Total	100,000	4,038,459		4,138,459		2,867,397

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 2016. The department intends to submit a revised request with out-year funding requests.

In 2015, the department requested \$2.26 million for various projects including a salt storage dome at C2 (1625 N. 14th Street), maintenance and remodeling at S2 (2363 S. 35th Street), a new transfer bay at N1 (6732 N. Industrial Road), the repaving of the parking lot at N2 (30th & Ruby) and general repairs. No funding was provided.

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.

2015 Plan

*C2 Salt storage	\$1,500,000
*S2 Maintenance and remodel	\$55,000
*N1 Transfer Bay	\$610,000
Central Area – general repairs	\$60,000
N2 Pave parking lot	<u>\$30,000</u>
*originally requested in 2014	\$2,255,000

Yard Locations

N1	6732 N. Industrial Road
N2	30 th & Ruby
C1	5230 W State Street
C2	1625 N 14 th Street
S1	2363 S 35 th Street
S2	4031 S 6 th Street

Capital Request History – Environmental Services Facility Modifications

Annual Request	Six-Year Request	Priority
2016	2016	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.

The old recycling equipment has been removed and the building is being readied for installation of the new recycling system. The facility is expected to be operational by the spring of 2015.

Additional funding was not requested in 2016. Funding of \$2 million was requested in 2015 to make repairs to the seawall in 2020.

Industrial Road Facility Relocation

Direct Supply has an option on the property where the Industrial Road facility is located. If Direct Supply exercises 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.

The preliminary cost estimate to relocate the facility is \$13,500,000. The City will be responsible for 50% of the cost. DPW has submitted the same request each year since 2011 to ensure that the project remains in the capital plan. The cost estimate has not been reviewed in several years. The department has suggested that an updated needs study would be beneficial. **This project has not received any capital funding.** The Capital Improvements Committee has not recommended funding for this project. **No request was submitted in 2016.**

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
2016 Request				\$25,030,000	417%	
2015	0	4,793,000	50,000	4,843,000	(5%)	
2014	492,000	4,543,000	50,000	5,085,000	5%	
2013	200,000	4,654,000		4,854,000	39%	
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	1,494,000	65,441,140	50,000	67,035,140		81,506,283

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 nine capital requests for facility related programs for the 2016 Budget. Five requests are for on-going programs and four are for special projects. There are fewer on-going capital requests for 2016 because several programs have been combined. City Hall Remodeling has been combined with Space Planning and the projects normally included in the Municipal Garage and Outlying Facility Program will be included in other programs.

The total six-year request is \$102,180,000 and represents a decrease of \$4.7 million (4%) from last year's six-year request. The most significant change in the six-year request is an increase of \$30 million to the City Hall Foundation project. The six-year requests for virtually all programs have decreased significantly from last year. The only exceptions are the ADA account, which increased by \$660,000, and the Space Planning account, which increased by \$995,000.

DPW is coordinating with WisDOT to make repairs to the roof of the Kilbourn tunnel. Funding for 2016 and 2019 has been requested in the MacArthur Square Plaza account.

Tax levy funding has been used for portions of various facility capital accounts. In 2015, the entire capital program, with the exception of the Environmental Remediation program is funded with borrowing. In 2014 and 2015 the Environmental Remediation program was funded with revenue from the Sewer Maintenance Fund.

No request was received for the Playground Challenge Fund or Recreational Facilities.

The levy supported capital target for DPW Infrastructure – Bridges and Buildings for 2016 is \$3,875,000. This amount excludes the \$15 million capital target for the City Hall Foundation project.

Capital Request Summary

Programs	2016	2017	2018	2019	2020	2021	Six-Year Total
Environmental Program	150,000	150,000	150,000	200,000	200,000	200,000	\$1,050,000
ADA Compliance	450,000	450,000	250,000	300,000	350,000	350,000	\$2,150,000
Facilities Exterior Program	1,700,000	2,000,000	2,500,000	3,000,000	4,000,000	5,000,000	\$18,200,000
Facilities Systems	1,580,000	2,500,000	3,000,000	3,000,000	3,500,000	3,000,000	\$16,580,000
Space Planning	400,000	400,000	450,000	450,000	500,000	500,000	\$2,700,000
Projects							
City Hall Foundation	20,000,000	20,000,000	20,000,000				\$60,000,000
North Point Lake Tower	400,000						\$400,000
Hartung Park Landfill Closure	200,000						\$200,000
MacArthur Sq. Plaza	150,000		750,000				\$900,000
Energy Efficiency/ Renewable Energy							
Recreational Facilities							
Total	\$25,030,000	\$25,500,000	\$27,100,000	\$6,950,000	\$8,550,000	\$9,050,000	\$102,180,000

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$150,000	0%	
2015		100,000	50,000	150,000	(25%)	
2014		150,000	50,000	200,000	33%	
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		1,669,000	100,000	1,769,000		1,818,981

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 2000, \$5.8 million has been provided for this program. Average annual funding between 2000 and 2007 was \$566,000. In 2014, \$50,000 of revenue funding was provided from the Sewer Maintenance Fund.

This request includes 2 Professional/Inspection positions (0.4 FTE)

Request Summary – 2016	
2016	\$150,000
2017	\$150,000
2018	\$150,000
2019	\$200,000
2020	\$200,000
2021	<u>\$200,000</u>
Total	\$1,050,000

Planned expenditures	2016	2015	2014	2013	2012
Asbestos Abatement and Hazardous Waste	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Soil and groundwater remediation	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000
Leak detection system upgrades	\$50,000	\$50,000	\$50,000		\$50,000
Fuel dispenser replacement -		\$50,000	\$50,000		\$50,000
Total	\$150,000	\$200,000	\$200,000	\$100,000	\$200,000

Capital Request History – Environmental Remediation Program

Annual Request		Six-Year Request		Priority	
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
2016 Request				\$450,000	109%	
2015		215,000		215,000	(37%)	
2014	100,000	240,000		340,000	39%	
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	1,312,700		1,412,700		1,817,575

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.

Since 2001, \$3.97 million has been budgeted for this program. Actual expenditures from 2001 through 2013 were \$2.98 million. Average annual funding between 2001 and 2005 was \$462,000.

In the spring of 2011, the City of Milwaukee participated in the Department of Justice’s (DOJ) Project 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. Staff from the DOJ inspected all City facilities and will issue a report of their findings in the coming months. The City will generally have two years to address deficiencies noted in the report.

Request Summary – 2016	
2016	\$450,000
2017	\$450,000
2018	\$250,000
2019	\$300,000
2020	\$350,000
2021	<u>\$350,000</u>
Total	\$2,150,000

2012 was the first year that funding for ADA improvements to recreational facilities has been included in this program. In the past, ADA improvements to recreational facilities were funded through a separate Recreational Facilities Program capital account.

This request includes 2 Professional/Inspection positions (1.4 FTE)

2016 Proposed Activities

Recreational Facilities			
20 th & Olive	\$100,000		
30 th & Cawker	<u>\$100,000</u>	\$200,000	
DOJ Recommendations		\$200,000	
Various non-programmed		<u>\$50,000</u>	
		\$450,000	

Capital Request History – ADA Compliance Program

Annual Request		Six-Year Request		Priority	
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

Facilities Exterior Program

3 or 5

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,700,000	(15%)	
2015		2,008,000		2,008,000		
2014		2,088,000		2,088,000	126%	
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		9,254,800		9,254,800		5,801,135

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 \$10.4 million has been budgeted for this program. Annual funding for this program has been highly variable.

The 2015 six-year request for this program has increased by \$16.2 million (193% from last year's (2014) six-year request.

Request Summary – 2016

2016	\$1,700,000
2017	\$2,000,000
2018	\$2,500,000
2019	\$3,000,000
2020	\$4,000,000
2021	<u>\$5,000,000</u>
Total	\$18,200,000

This request includes 2 Professional/Inspection positions (1.8 FTE).

Proposed Projects for 2016

Building envelope	\$500,000
Roof replacements	\$800,000
Zeidler Muni Building	
Pavement Repair	\$200,000
20 th & Holt	
Sanitation Central II	
Lincoln Garage	
Various Emergency Repairs	<u>\$200,000</u>
Total	\$1,700,000

Capital Request History – Facilities Exterior Program

Annual Request		Six-Year Request		Priority	
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	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,580,000	7%	
2015		1,480,000		1,480,000	(16%)	
2014		1,765,000		1,765,000	22%	
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		11,960,500	1,710,000	13,670,500		14,881,059

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, \$32.1 million has been budgeted for this program. Average annual funding since 2000 has been approximately \$2 million. City funding decreased from 2010 through 2012 but the decrease was somewhat offset by grant funding. Average annual funding since 2007 is \$1.3 million. The six-year request for this program has decreased by \$715,500 (4%) from last year’s request.

Programming decisions are made using the Facilities Condition Assessment Program which provides condition data on City buildings. A list of projects was included with the request.

Since 2007, this program has had an average of \$2.3 million in carryover borrowing authority.

This request includes 2 Professional/Inspection positions (1.6 FTE).

Request Summary – 2016	
2016	\$1,580,000
2017	\$2,500,000
2018	\$3,000,000
2019	\$3,000,000
2020	\$3,500,000
2021	<u>\$3,000,000</u>
Total	\$16,580,000

Capital Request History – Facilities Systems Program

Annual Request		Six-Year Request		Priority	
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
2016 Request				\$400,000	7%	
2015		375,000		375,000	83%	
2014	205,000	0		205,000		
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	1,236,000		1,731,000		1,189,519

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. Last year's six-year request for City Hall Remodeling was \$17.4 million.

This request includes 2 Professional/Inspection positions (2.9 FTE).

Request Summary – 2016	
2016	\$400,000
2017	\$400,000
2018	\$450,000
2019	\$450,000
2020	\$500,000
2021	<u>\$500,000</u>
Total	\$2,700,000

Plan	2016	2015	2014	2013	2012
Space planning	200,000		\$15,000	\$15,000	\$15,000
General dept. reorganization and alteration	50,000		\$40,000	\$40,000	
General engineering & facility inspection	150,000		\$150,000	\$150,000	\$150,000
4 bay vehicle repair area					\$40,000
Total	\$400,000	\$205,000	\$205,000	\$205,000	\$205,000

Capital Request History – Space Planning and Alterations

Annual Request		Six-Year Request		Priority	
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

City Hall Hollow Walk Structural Repairs

SP1 of 4

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$20,000,000		
2015				0		
2014				0		
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		8,860,000		8,860,000		1,046,101

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 new terra cotta, the 2012 Budget did not include funding for this project.

Request Summary – 2016	
2016	\$20,000,000
2017	\$20,000,000
2018	\$20,000,000
2019	
2020	
2021	
Total	\$60,000,000

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.

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. .

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. Construction is anticipated to begin in 2016. Additional funding will be required at that time. It is unknown at this time what the total cost of this project will be.

An alternate proposal, submitted by DPW to meet proposed levy supported capital targets, reduces the City Hall Foundation program by \$5 million to \$15 for 2016. Over the six-year request, the alternate proposal does not change total requested funding.

This request includes 2 Professional/Inspection positions (0.1 FTE).

Capital Request History – City Hollow Walk Structural Repairs (Foundation Project)

Annual Request		Six-Year Request		Priority	
2016	\$15,000,000 (alternate)	2016	\$60,000,000 (alternate)	2016	alternate
2016	\$20,000,000	2016	\$60,000,000	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 4

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$400,000	18%	
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 is estimated to be \$740,000.

This request includes 2 Professional/Inspection positions (0.1 FTE).

Capital Request History – North Point Lake Tower

Annual Request		Six-Year Request		Priority	
2016	\$400,000	2016	\$400,000	2016	SP2 of 4
2015	\$340,000	2015	\$740,000 (2015, 2016)	2015	SP2 of 4

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$200,000		
2015				0		
2014				0		
2013				0		159,141
2012	60,000	140,000		200,000		8,900
2011						0
Total	60,000	140,000		200,000		168,041

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. No funding has been requested past 2016.

This request includes 2 Professional/Inspection positions (0.4 FTE).

Capital Request History – Hartung Park Landfill Closure

Annual Request		Six-Year Request		Priority	
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 (2015)	2014	SP7 of SP9
2013		2013		2013	No Request
2012	\$100,000	2012	\$100,000	2012	

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$150,000		
2015				0		
2014				0		
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		1,036,445

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 were not addressed in this request.

The funding that is currently being requested will be used to design and construct roof repairs on the Kilbourn tunnel. WisDOT will be doing paving repairs in the tunnel. This project will be coordinated with those repairs.

This request includes 2 Professional/Inspection positions (0.1 FTE).

Request Summary – 2016	
2016	\$150,000
2017	
2018	\$750,000
2019	
2020	
2021	
Total	\$900,000

Capital Request History – MacArthur Square Plaza Renovation

Annual Request		Six-Year Request		Priority	
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

Project Updates and Past Requests

Recreational Facilities Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0	%	
2015		175,000		175,000		
2014				0		
2013				0		
2012				0		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		1,529,766

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 to the ADA Compliance Program and the Municipal Garage/Outlying Facility Program. The 2015 Budget did include funding for the Municipal Garage account.

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. An amendment added \$175,000 prior to the adoption of the 2015 Budget.

No request was submitted for 2016.

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). The program will be used to leverage funding as part of the MKE Plays program.

Energy Efficiency & Renewable Energy Initiative

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2015		100,000		100,000	(33%)	
2014		150,000		150,000		
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		432,997

This program, established in 2011, will be 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.

No funding was requested by DPW for this program. The Dept of Administration – Office of Environmental Sustainability has requested \$600,000 for 2016 for energy reduction related projects as part of the Better Buildings Challenge.

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	
2016		2016		2016	No Request
2015	\$150,000	2015	\$1,200,000	2015	SP3-of SP4
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

City Hall Complex Remodeling – Misc.

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2015		0		0	(100%)	
2014	101,000	90,000		191,000	91%	
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		1,488,703

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 has come 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.** .

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	
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
2015				0	(100%)	
2014	86,000			86,000	(94%)	
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		5,077,674

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 addresses 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.**

Capital Request History – Municipal Garage/Outlying Facilities Remodeling

Annual Request		Six-Year Request		Priority	
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 2013 were \$1,156,197. **No request was submitted for this program in 2015 or 2016.**

DPW received \$385,000 in 2011 to begin Phase I of the repairs on the Zeidler Municipal Building. An inspection revealed that the glass and clearwall sections of the building were in adequate condition and did not require remedial work at that time. Restoration of the masonry at the corners of the building was planned for 2012 with funding carried over from 2011.

In May 2012, \$105,000 was transferred from the ZMB Lower Parking capital account to the Building Exterior Façade Restoration capital account (The ZMB project was completed under budget) The transfer will facilitate the completion of the façade repairs on the east and west ends of the ZMB.

Capital Request History – Building Exterior Façade Restoration

Annual Request		Six-Year Request		Priority	
2016		2016		2016	No Request
2015		2015		2015	No Request
2014	\$0	2014	\$1,500,000	2014	SP5 of SP9
2013	\$0	2013	\$1,500,000	2013	SP5 of SP7
2012	\$590,000	2012	\$2,090,000	2012	SP5 of SP7
2011	\$385,000	2011	\$2,159,300	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 2013 were \$4,958. **No capital request was submitted in 2015 or 2016**

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 2012 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 was submitted in 2015 or 2016.**

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 was submitted for 2015 or 2016.**

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 was submitted in 2015 or 2016.**

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 2016 capital request for the Department of Public Works – Infrastructure Services Division (ISD) includes \$91.1 million for twelve capital programs relating to bridges, streets, alleys, street lighting, traffic control and underground conduit. This represents an increase of \$3.8 million (4%) from the 2015 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 2016 is anticipated to be \$3.5 million less than in 2015. A \$4.1 million loss in the Major Bridge Program will be partially offset by a \$1.1 million gain 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 Budget Office target for ISD programs, excluding grant and aid funding, special assessments and developer funded projects is \$39.9 million for 2016. The 2015 Budget provided \$46.9 million in funding.

The Local Street Program request decreased from \$10 million (budgeted in 2015) to \$7.6 million a reduction of (24%). Local Road Improvement Program (LRIP) funds from the state are available in even years to supplement the Local Street Program. The 2015 Budget also included \$7.0 for the High Impact Street Program. 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 other ISD programs has increased over the 2015 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.

The levy supported capital target for DPW Infrastructure Services (excluding facilities) for 2016 is 39.9 million. Grant and aid funding, special assessments and developer funded projects do not count toward the capital target. The 2015 Budget provided \$46.9 million levy supported capital funding.

Major Bridge Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request		\$270,000	\$1,050,000	\$1,327,000	165%	
2015		100,000	400,000	500,000	(62%)	
2014		260,000	1,040,000	1,300,000	(74%)	
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	13,963,000	74,824,000	89,287,000		14,708,060

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 2016 is \$1,050,000. Grant funding has increased by \$650,000 from 2015.

Because of the complexity of bridge projects, it is not unusual for a bridge to be constructed in a year other than the year it was initially funded. Therefore large amounts of bridge funding in a particular year may not correspond to a large amount of construction in that year.

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. This will put increasing pressure on the Local Bridge Program

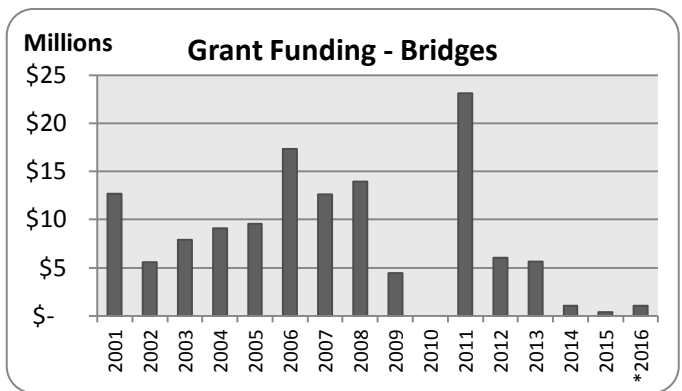
Local Bridge Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$8,925,000	1%	
2015		8,810,000		8,810,000	(10%)	
2014		9,815,000		9,815,000	0%	
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		51,007,000		51,007,000		21,485,205

Request Summary - 2016			Major Bridge	Local Bridge
	Borrowing	Grant/Aid	Total	
2016	\$277,000	\$1,050,000	\$1,327,000	\$8,925,000
2017	\$2,471,000	\$6,159,000	\$8,630,000	\$9,300,000
2018	\$1,209,000	\$4,777,000	\$5,986,000	\$8,600,000
2019	\$680,000	\$2,620,000	\$5,986,000	\$9,100,000
2020	\$600,000	\$2,400,000	\$3,300,000	\$10,505,000
2021	\$690,000	\$5,610,000	\$6,300,000	\$9,700,000
Total	\$5,297,000	\$22,616,000	\$28,543,000	\$56,130,000

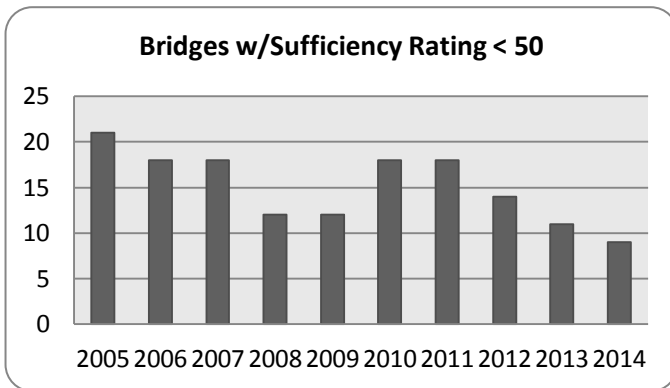
With the exception of 2011 when TIGER grant funding was received, grants have been trending downward in the Major Bridge program since 2006

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 2014, there were 9.

In 2010 the Local Bridge Program provided funding for the rehabilitation of the Clybourn Street Lift Bridge over the Milwaukee River. TIGER grants of \$21.5 million were received in 2011 for the Wisconsin Avenue Bridge over the Milwaukee River and the Juneau Avenue Bridge.



An alternate bridge request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Local Bridge program by \$2.5 million to \$6,425,000 for 2016. The department did not identify specific projects that would be affected. Over the six-year request, the alternate proposal does not change total requested funding.

Capital Request History – Bridges

Major Bridge

Annual Request

	Borrowing	Grant/Aid	Total
2016	\$277,000	\$1,050,000	\$1,327,000
2015	\$100,000	\$66,667	\$166,667
2014	\$260,000	\$1,040,000	\$1,300,000
2013	\$100,000	\$5,655,000	\$5,755,000
2012	\$500,000	\$6,035,000	\$6,536,000
2011	\$6,354,000	\$23,116,000	\$29,470,000

Six-Year Request

	Borrowing	Grant/Aid	Total
2016	\$5,927,000	\$22,616,000	\$28,543,000
2015	\$4,768,000	\$16,892,000	\$21,660,000
2014	\$4,920,000	\$23,000,000	\$27,920,000
2013	\$4,050,000	\$21,455,000	\$25,505,000
2012	\$4,191,000	\$20,799,000	\$24,990,000
2011	\$15,071,000	\$59,719,000	\$74,790,000

Local Bridge

Annual Request

2016	\$8,925,000
2015	\$10,010,000
2014	\$9,815,000
2013	\$9,785,000
2012	\$10,435,000
2011	\$200,000

Six-Year Request

2016	\$56,130,000
2015	\$62,065,000
2014	\$61,820,000
2013	\$57,835,000
2012	\$64,810,000
2011	\$37,975,000

Bridge Construction	Type of Work	Construction Start	Opened
Bridges Proposed for Construction in 2015			
Broadway Bascule over the Milwaukee River	Paint	May 2015 (E)	Aug 2015 (E)
Becher Street Bridge over the KK river	Rehab	May 2015 (E)	Aug 2015 (E)
Whitnall Avenue Bridge over the UPRR	Replace	April 2015 (E)	Oct 2015 (E)
North Avenue over the CPRR		June 2015 (E)	Nov 2015 (E)
Bridge Construction in 2014			
KK River Trail over E Rosedale			
Howell Avenue (3400S) over UPRR	Repair	Oct 2014	
35 th Street (2700S) over UPRR	Repair	Oct 2014	
45 th Street Bridge over the Menomonee River	Re-deck	June 2014	Dec 2014
27 th Street Bridge over the KK River		April 2014	Dec 2014
1 st Street Bridge over the KK River	Rehab	May 2014	Dec 2014
Lisbon Avenue Bridge over the CPRR	Replace	June 2014	Dec 2014
Granville Road Bridge over Little Menomonee (removal)	Remove	Sept. 2014	Dec 2014
St. Paul Avenue Bridge over the Milwaukee River		2013	June 2014
**Hank Aaron State Trail Ped Bridge @ 6th Street Viaduct		2013	May 2014
Bridge Construction in 2013			
Pleasant Street Lift Bridge		2012	July 2013
**Hank Aaron State Trail Ped Bridge @ 6th Street Viaduct		Sept. 2013	May 2014
St. Paul Avenue over the Milwaukee River		July 2013	June 2014
**Hank Aaron State Trail Ped Bridge @ S. 33rd Ct		2012	July 2013
**Hank Aaron State Trail Ped Bridge over CP RR		2012	July 2013
Capitol Drive Bridge over Menomonee River		May 2013	Nov. 2013
**Marsupial Trestle Bridge (1870 N. Commerce)		Jan. 2013	Aug. 2013
**KK River Trail Ped Bridge over Chase Ave		Nov. 2012	Oct. 2013
Bridge Construction in 2012			
Wisconsin Avenue Bridge over the Milwaukee River		2011	Aug. 2012
Juneau Ave Bridge over the Milwaukee River		2011	Nov. 2012
Pleasant Street Lift Bridge		Sept 2012	July 2013
**Hank Aaron State Trail Ped Bridge @ S. 33rd Ct		June 2012	July 2013
**Hank Aaron State Trail Ped Bridge over CP RR		June 2012	July 2013
**KK River Ped Bridge over Chase Ave		Nov. 2012	Oct. 2013
Bridge Construction in 2011			
County Line Road Bridge over the Little Menomonee River			July 2011
Clybourn Ave. Lift Bridge			July 2011
Wisconsin Avenue Bridge over the Milwaukee River		2011	Aug 2012
Juneau Avenue Bridge over the Milwaukee River		2011	Nov 2012
**New bridges			

Major Street Program

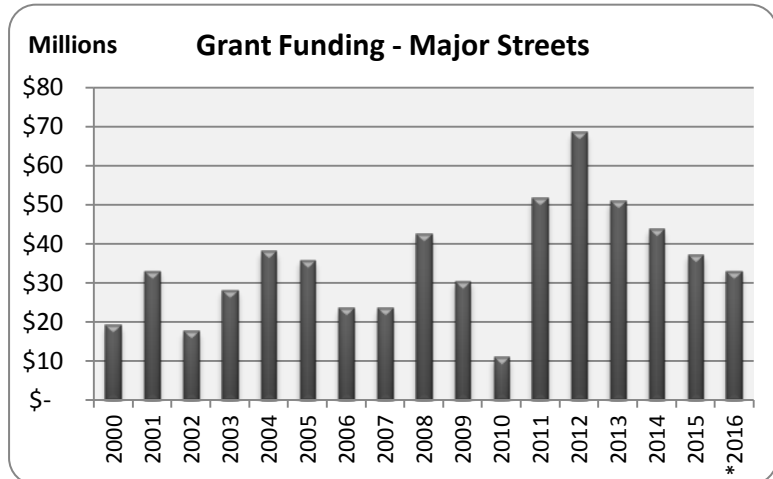
Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	*Actual
2016 Request	\$473,500	\$8,912,808	\$33,090,919	\$42,477,227	(6%)	
2015	390,000	7,401,000	37,207,907	44,998,907	(10%)	
2014	1,000	6,214,000	43,778,000	49,993,000	(3%)	
2013	1,000	435,000	50,900,000	51,336,000	(34%)	9,952,265
2012	1,000	9,776,200	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	2,508,349	52,998,830	359,237,122	414,714,301		48,208,643

*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. In even years, grant funding from the Local Road Improvement Program (LRIP) can be used to pave streets which would not otherwise be eligible for grant funding. Grant funding for 2016 has decreased by \$4.1 million (12%) from 2015.



Request Summary - 2016				
	Borrowing	Grant/Aid	Assess	Total
2016	\$8,912,808	\$33,090,919	\$473,500	\$42,477,227
2017	\$8,714,968	\$34,944,652	\$319,000	\$43,978,620
2018	\$5,849,724	\$28,691,781	\$327,500	\$34,869,005
2019	\$6,614,000	\$24,815,000	\$329,000	\$31,758,000
2020	\$9,183,400	\$31,005,600	\$509,000	\$40,698,000
2021	\$4,848,400	\$29,226,600	\$172,000	\$34,247,000
Total	\$44,123,300	\$181,774,552	\$2,130,000	\$228,027,852

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.

An alternate request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Major Street program by \$3.2 million to \$39.24 million for 2016. The department did not identify specific projects that would be affected. Over the six-year request, the alternate proposal increases total requested funding by \$151,000.

The following major streets are scheduled for construction in 2015:

- W. Morgan Avenue: W. Forest Home Avenue – S 43rd Street
- S. 27th Street: W Drexel Avenue – S College Avenue
- N. Teutonia Avenue: W. Ruby – W. Capitol Drive
- S. Howell Avenue: E/W Layton – E/W Howard Avenue

Recent Construction Activity:

- 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
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
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
2016 Request		\$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%)	
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	94,333,700	5,588,794	103,232,450		79,442,482

The 2016 request is for a total of \$7.6 million in capital funding, a reduction of \$5.9 million (44%) from the 2015 Request and a reduction of \$2.4 million (24%) from the 2015 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.

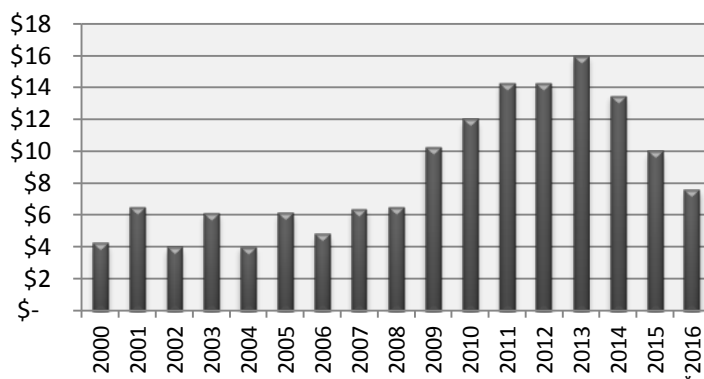
To facilitate this strategy, a budget amendment moved \$3.5 million that had been proposed for the Local Street program to the High Impact account. The department provided a series of maps which detailed the proposed changes in the 2015 Local Paving Program and the 2015 High Impact program. The maps can be found as an attachment to Common Council file 141767. Based on the 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.

Request Summary* – 2016

2016	\$7,600,000
2017	\$7,600,000
2018	\$17,100,000
2019	\$17,100,000
2020	\$17,100,000
2021	<u>\$17,100,000</u>
Total	\$83,600,000

**Includes special assessments*

Local Streets - Budgeted Funding

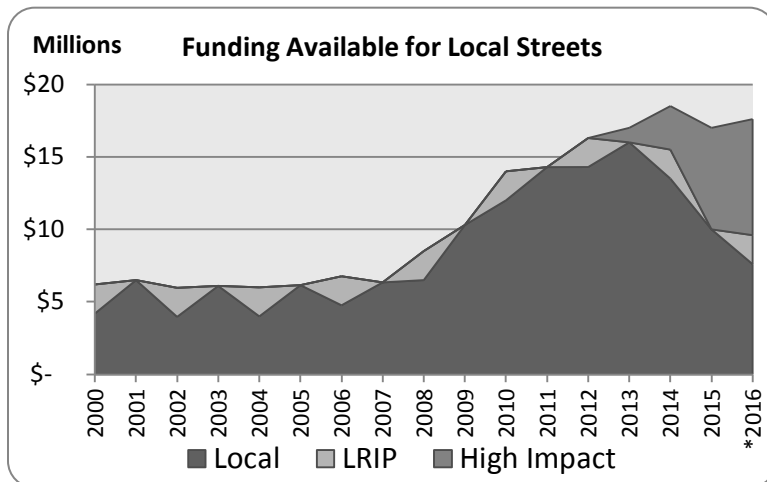


The 2016 Preliminary Paving Program contains approximately 4.5 miles of streets. (see list at the end of this section). High Impact projects for 2016 have not been finalized.

The amount of funding from local sources is similar to recent years. However, a much smaller portion of the improvements will be made on local streets. Local Road Improvement Program (LRIP) funds from the state will be available in 2016.

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.

Work continues on the pavement condition survey that began in the fall of 2013. According to a condition report sent to the state, as of Dec 2011 there 3,793 local and collector street segments in good condition, 4,458 in fair condition and 4,425 in poor condition compared to 5,905, 5,314, and 1,727 segments in good, fair and poor condition respectively in 2007.



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 2016 for capital maintenance.

An alternate request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Local Street program by \$1.5 million to \$6.1 million for 2016. The department did not identify specific projects that would be affected. Over the six-year request, the alternate proposal increases requested funding by \$700,000.

Capital Request History – Local Street Paving

Annual Request (including special assessments)

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
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

As of April 1, 2015, the following projects were listed in the DPW database as being on the 2016 Local Street Paving Program.

Title	Length	Total Cost	Age
S. 5th St. - W. Scott St. to W. Virginia St.	2,640	\$472,000	63
S. 23rd St. - W. National Av. to W. Pierce St. (TID)	615	0	100
N. 32nd St. - W. Lisbon Av. to W. North Av.	2,300	717,900	77
N. 37th St. - W. Keefe Av. to W. Roosevelt Dr.	2,224	508,000	86
N. 55th St. - W. Florist Av. to W. Douglas Av.	700	0	58
N. 70th St. - 1000'+/- south of W. Glenbrook Rd. to W. Glenbrook Rd.	1,000	130,000	43
N. Astor St. - E. Kilbourn Av. to E. State St. (TID-82)		0	
W. Douglas Av. - N. 55th St. to N. 60th St.	1,200	0	50
W. Elm St. - N. Teutonia Av. to A Point 1600' +/- W/O of N. Teutonia .	1,600	0	53
W. Fairmount Av. - N. 107th St. to N. 108th St.	330	0	52
N. Holton St. - E. Capitol Dr. to E. Hope Av.	1,340	0	65
E. Hope Av. - N. Richards St. to N. Holton St.	700	0	65
N. Hopkins St. - W. Douglas Av. to point north of W. Douglas Av.	1,150	495,000	41
W. Mitchell St. - S. 38th St. to Miller Park Way	1,200	230,000	47
N. Pierce St. - E. Center St. to E. Burleigh St.	2,660	733,600	96
E. Stewart St. - S. Marina Dr. to S. Hilbert St.	760	300,000	85
W. Woolworth Av. - N. Sherman Bl. to N. 51st St.	2,443	375,000	57
	<u>22,862</u>	<u>\$3,961,500</u>	<u>64.9</u>

High Impact Paving Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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%	
2013		1,000,000		1,000,000		567,189
2012						
Total	2,350,000	8,650,000		11,000,000		567,189

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.

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. The department provided a series of maps which detailed the proposed changes in the 2015 Local Paving Program and the 2015 High Impact program. Those maps can be found as an attachment to Common Council file 141767. Based on the 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.

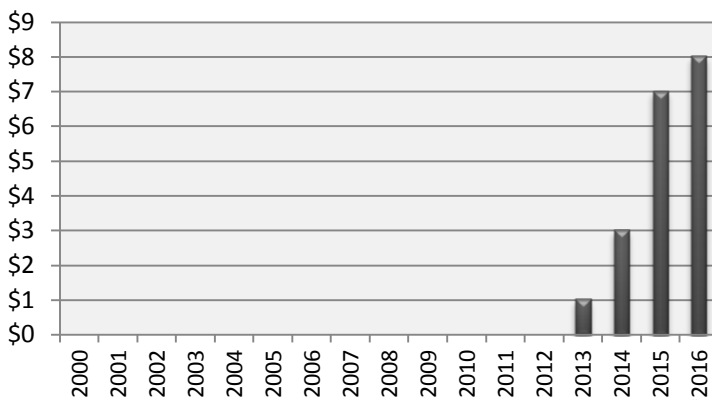
The 2016 High Impact Program is still being developed. It is anticipated that like 2015, it will focus on arterial streets.

Construction of some 2014 High Impact projects was delayed because

Request Summary – 2016

2016	\$8,000,000
2017	\$8,000,000
2018	\$1,000,000
2019	\$1,000,000
2020	\$1,000,000
2021	<u>\$1,000,000</u>
Total	\$20,000,000

Millions **High Impact Streets - Budgeted Funding**



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.

An alternate request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the High Impact program by \$500,000 to \$7.5 million for 2016. The total funding requested over six years is unchanged.

Streets improved in 2013 using High Impact funds include:

- E. Kilbourn Avenue - The Milwaukee River – N. Marshall Street
- N. Jefferson Street - E. Kilbourn Avenue – E Wells Street
- N. Water Street - E. Mason Street – E. Kilbourn Avenue
- N. Water Street @ E. Clybourn Avenue
- E. Michigan Street - N. Water Street – N. Van Buren Street

Streets improved in 2014 using High Impact funds include:

- N. 60th St. - N/L of W. Center St. to S/L of W. Appleton
- N. 107th St. - N/L STH 145 Bridge to Pt. 900' +/- North
- N. Prospect Ave. - N/L of E. Kilbourn Ave. to S/L of E. Ogden Ave.
- N. Farwell Ave. - N. Prospect Ave. to E. Brady St.
- N. Jefferson St. - E. Wells St. to north side of E. Clybourn St. (excl INTERSECTIONS)
- N. 55th St./N. Hawley Rd. - W. Vliet St. to W. Lisbon Ave.
- N. Holton St. - E. Reservoir Ave. to E. North Ave.
- N. Humboldt Bl. - E. Meinecke Ave. to E. Keefe Ave.
- E. Brady St. - N. Farwell Ave. to E. Van Buren St.
- S. Kinnickinnic Ave. - I-794 to E. Lincoln Ave.
- S. Muskego Ave. - S. Cesar Chavez to W. Forest Home Ave.
- S. 2nd St. - W. National Ave. to W. Scott St.
- N. 16th St - W. Wisconsin Ave. to W. Kilbourn Ave.
- N. Teutonia Ave. - W. Villard Ave. to W. Silver Spring Dr.

Capital Request History – High Impact Program

Annual Request		Six-Year Request	
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

Alley Paving Program

Year	Tax Levy	Gen Oblig.	Special Assess	Total	% Δ	Actual
2016 Request		\$2,025,000	\$100,000	\$2,125,000	5%	
2015		1,625,000	400,000	2,025,000	21%	
2014		1,625,000	50,000	1,675,000	(33%)	
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		6,048,999

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.

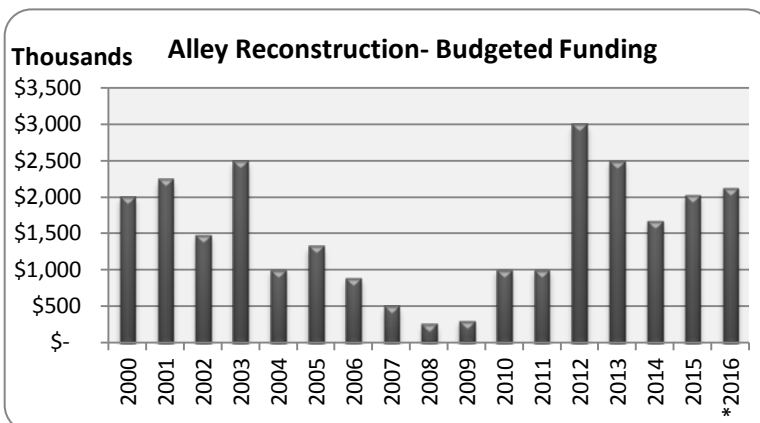
Until 2009, the cost of paving alleys was recovered through a special assessment at a rate of 90%. With the passage of the Motor Vehicle Registration Fee (Common Council file 080034) the recovery rate was reduced to 60%. As part of the 2012 Budget process, the Common Council increased funding for the 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 2015. 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 the 2015 level with the 30% recovery ratio is likely to provide a replacement cycle of nearly 140 years.

Request Summary – 2016*

2016	\$2,125,000
2017	\$2,125,000
2018	\$2,125,000
2019	\$2,125,000
2020	\$2,125,000
2021	<u>\$2,125,000</u>
Total	\$12,750,000

* Includes special assessments



Policy decisions regarding the appropriate level of funding and cost recovery must take into consideration, property owner expectations as well as the amount of 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.

An alternate alley request has been submitted by DPW to meet the levy supported capital target. The alternate request eliminates funding for alley paving in 2016. Over the six-year request, the alternate proposal increases requested funding by \$400,000.

Capital Request History – Alley Paving

Annual Request

	Borrowing	Spec Assess	Total
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
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
2016 Request		\$200,000	\$150,000	\$350,000	0%	
2015		0		0	(100%)	
2014		200,000	150,000	350,000		
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	1,500,00		612,817

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.

No alternate proposal was submitted by DPW to meet the levy supported capital target.

Capital Request History – New Street Construction

Annual Request

	Borrowing	Assess	Total
2016	\$200,000	\$150,000	\$350,000
2015	\$0	\$0	\$0
2014	\$200,000	\$150,000	\$350,000
2013	\$0	\$0	\$0
2012	\$0	\$0	\$0
2011	\$200,000	\$50,000	\$250,000

Six-Year Request

	Borrowing	Assess	Total
2016	\$600,000	\$450,000	\$1,050,000
2015	\$600,000	\$450,000	\$1,050,000
2014	\$1,200,000	\$900,000	\$2,000,000
2013	\$1,000,000	\$750,000	\$1,750,000
2012	\$950,000	\$750,000	\$1,700,000
2011	\$1,200,000	\$800,000	\$2,000,000

New Street – Developer Funded

Year	Tax Levy	Gen Oblig.	Revenue	Total	% Δ	Actual
2016 Request				\$0	(100%)	
2015			400,000	400,000		
2014			400,000	400,000		
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			2,000,000	2,000,000		3,942,823

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. Those projects are being constructed in partnership with the adjoining municipalities. Agreements are in place to ensure the reimbursement of funds spent of these projects. The City was the lead agent on both of projects.

An alternate request has been submitted by DPW to meet the levy supported capital target. The alternate request increases the Developer Street program by \$400,000 in 2016. Over the six-year request, the alternate proposal increases requested funding by \$2,400,000. Developer Funded paving does not count toward the capital target.

Capital Request History – New Streets – Developer Funded

Annual Request		Six-Year Request	
2016	\$400,000 (alternate)	2016	\$2,400,000 (alternate)
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		\$1,425,000	\$475,000	\$1,900,000	6%	
2015		1,350,000	450,000	1,800,000	26%	
2014		1,000,00	425,000	1,425,000	7%	
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	6,858,000	3,236,250	11,431,750		7,256,963

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 335,000 SF and 90,500 SF respectively.

This capital account funds two separate sidewalk replacement programs. The larger of the two

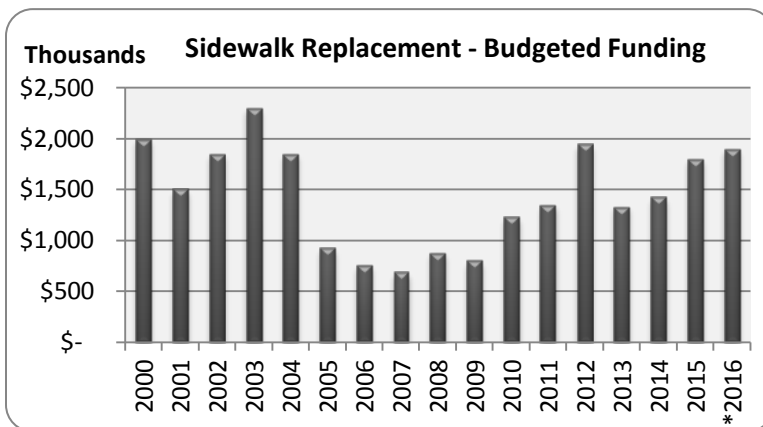
Request Summary – 2016*

2016	\$1,900,000
2017	\$2,000,000
2018	\$2,100,000
2019	\$2,200,000
2020	\$2,125,000
2021	<u>\$2,250,000</u>
Total	\$12,575,000

*Includes Special Assessments

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.

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.

An alternate sidewalk request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Sidewalk Replacement program to by \$425,000 to \$1.0 million. Over the six-year request, the alternate proposal decreases requested funding by \$25,000.

Capital Request History – Sidewalk Replacement

Annual Request

	Borrowing	Special Assess	Total
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
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
2016 Request				\$10,900,000	23%	
2015		8,860,000		8,860,000	(5%)	
2014	800,000	8,500,000		9,300,000	9%	
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	64,366,170		69,733,250		50,385,378

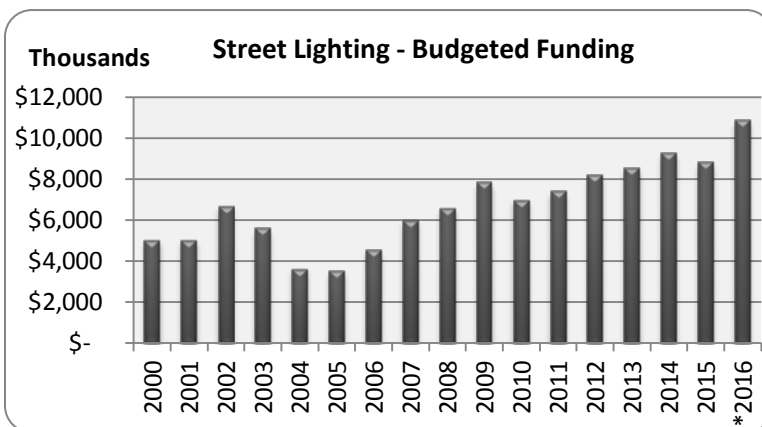
Funding in this program is used to replace deteriorated poles, defective cable, outdated circuitry, aging electrical substations and other lighting equipment, and to modernize the street lighting control system. The City maintains over 68,300 street lights and 8,800 alley lights.

Approximately 47% of the total budget for street lighting in 2016 is 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.

Request Summary – 2016

2016	\$10,900,000
2017	\$11,180,000
2018	\$11,610,000
2019	\$12,100,000
2020	\$12,560,000
2021	<u>\$13,030,000</u>
Total	\$71,380,000

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 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.

DPW has indicated that they are developing a new strategy for the conversion project. 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.

An alternate street lighting request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Street Lighting program by \$1.0 million to \$9.8 million for 2016. Under the alternate proposal there would be reductions in funding for substation repair and maintenance, the control circuit project, and street and alley light improvements in the Neighborhood Lighting program. Funding would be eliminated for the harp light LED conversion project and the allowance for uncollectible knockdowns would be reduced. Over the six-year request, the alternate proposal reduces requested funding by \$150,000.

Capital Request History – Street Lighting

Annual Request		Six-Year request		Average
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

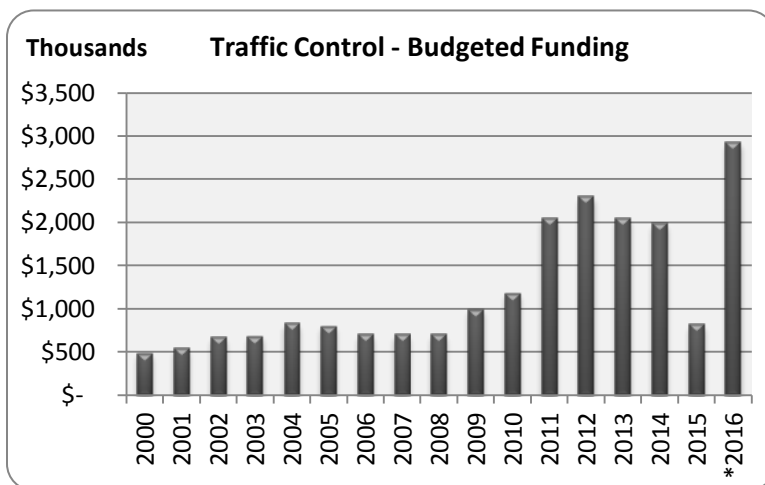
Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$2,925,000	257%	
2015		820,000		820,000	(59%)	
2014		1,993,000		1,993,000	(23%)	
2013		2,055,000		2,590,000	12%	1,392,236
2012		2,303,000		2,303,000	20%	1,524,042
2011		1,912,250		1,912,250	62%	1,457,349
2010		1,182,500		1,182,500	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	11,255,750		13,190,750		8,544,187

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 – 2016

2016	\$2,925,000
2017	\$2,800,000
2018	\$2,720,000
2019	\$3,105,000
2020	\$3,155,000
2021	<u>\$3,265,000</u>
Total	\$17,970,000

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. 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.

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). **Costs for these upgrades have not been included in the six-year request.**

An alternate traffic control request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Traffic Control Facilities program by \$375,000 to \$2.55 million. Under the alternate proposal there would be reductions in the traffic signal program for emergency signal pre-emption, audible pedestrian signals and the replacement of LED signal heads. Over the six-year request, the alternate proposal decreases funding by \$845,000.

Capital Request History – Traffic Control Facilities Program

Annual Request		Six-Year Request	
2016	\$2,550,000 (alternate)	2016	\$17,125,000 (alternate)
2016	\$2,925,000	2016	\$17,970,000
2015	\$2,000,000	2015	\$17,005,000
2014	\$2,393,000	2014	\$16,830,000
2013	\$2,590,000	2013	\$15,585,000
2012	\$2,770,000	2012	\$18,215,000
2011	\$2,366,000	2011	\$13,323,500

Underground Conduit Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$3,360,000	236%	
2015		1,000,000		1,000,000	100%	
2014		500,000		500,000	(71%)	
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	6,593,200		7,393,200		2,225,263

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. Since 2000 this program has received \$12 million in funding. \$782,976 in general obligation borrowing authority lapsed in 2014.

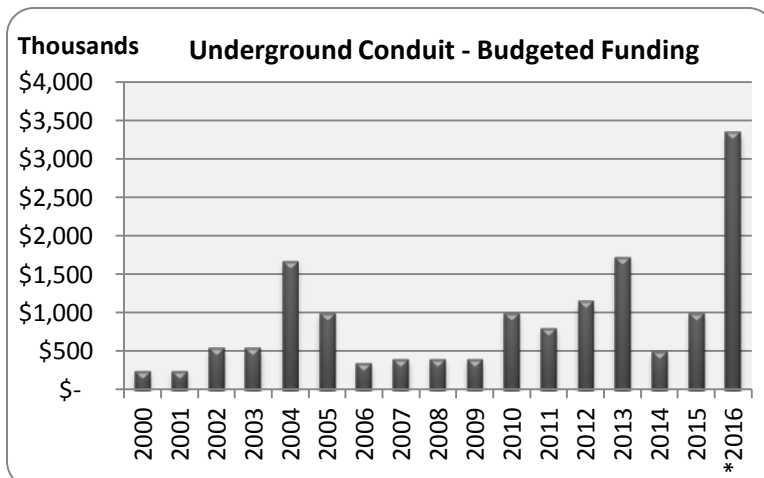
From 2011 to 2012 there was a \$25 million increase in the six-year request. The cause of the increase was a departmental policy shift which changed the average annual requested amount to more

Request Summary – 2016

2016	\$3,360,000
2017	\$3,360,000
2018	\$3,360,000
2019	\$3,360,000
2020	\$3,360,000
2021	<u>\$3,360,000</u>
Total	\$20,160,000

accurately reflect opportunities for installing conduit. A list of potential projects was included with the 2016 capital request.

An alternate request has been submitted by DPW to meet the levy supported capital target. The alternate request reduces the Underground Conduit Installation program by \$1.1 million to \$2.2 million. Over the six-year request, the alternate proposal does not change total requested funding.



Capital Request History – Underground Conduit Installation Program

Annual Request		Six-Year Request	
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

Communications and Electrical Manhole Reconstruction Program

Year	Tax Levy	Gen Oblig.	Grant & Aid	Total	% Δ	Actual
2016 Request				\$1,225,000	11%	
2015		1,100,000		1,100,000	47%	
2014		750,000		750,000	67%	
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		3,500,000		3,500,000		1,719,146

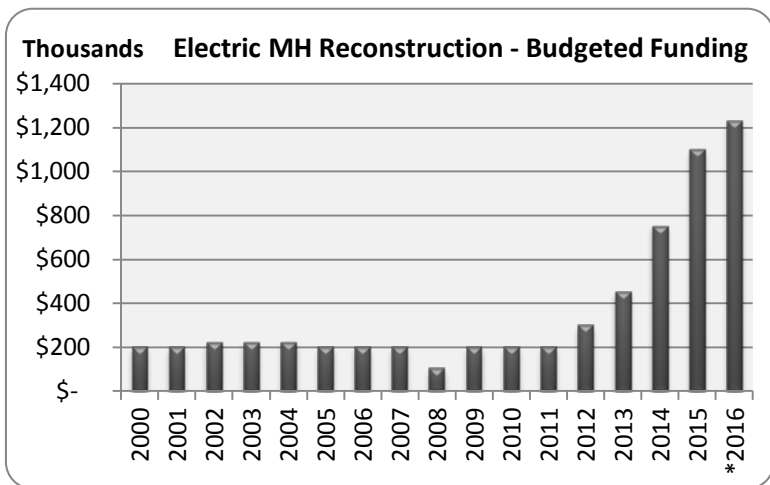
This request was formerly titled Underground Conduit and Manhole Reconstruction. In the Budget, the account is titled Underground Electrical Manholes Reconstruction Program.

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.

Request Summary – 2016	
2016	\$1,225,000
2017	\$1,300,000
2018	\$1,360,000
2019	\$1,430,000
2020	\$1,500,000
2021	<u>\$1,580,000</u>
Total	\$8,395,000

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.

The results of the 2013 and 2014 inspection indicate that just 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.

An alternate proposal submitted by DPW to meet the proposed debt targets did not change the request for the Communications and Electrical Manhole Reconstruction Program.

Capital Request History – Underground Conduit and Manhole Reconstruction

Annual Request		Six-Year Request	
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
2016 Request				\$2,235,000		
2015	2,292,000	5,000,000		7,292,000	9%	
2014	1,715,000	5,000,000		6,715,000	4%	
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	14,594,000	45,000,000		59,594,000		12,214,790

The Department of Public Works has submitted ten capital requests for the Parking Fund. Six requests are for parking structure maintenance and four are for other projects. Eight requests are for funding in 2016.

The total six-year request is \$16.1 million and represents an increase of \$2.3 million (17%) from last year's six-year request.

The most significant changes in the six-year request were the addition of \$2.6 million for repairs at the MacArthur Square parking structure and a decrease of \$675,000 for the purchase of single space credit card mechanisms.

The License Plate Recognition project, which was funded in 2013, is complete and operational.

The Parking Meter Wireless Network project, which was also funded in 2013, has been cancelled.

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	2016	2017	2018	2019	2020	2021	Six-Year Total
Structure Maintenance							
1000 N. Water	150,000				88,000	855,000	\$1,093,000
2nd & Plankinton		600,000				38,000	\$638,000
4th & Highland	500,000		350,000				\$850,000
MacArthur Square	30,000	1,000,000	750,000	1,250,000	950,000	974,000	\$4,954,000
Milwaukee Michigan	550,000	300,000		300,000	600,000	600,000	\$2,350,000
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	105,000		25,000		25,000		\$155,000
Single Space Credit Card Meter Mechanisms	650,000						\$650,000
Replace Multi-Space Meters				1,100,000	900,000	600,000	\$2,600,000
Revenue Ctrl and Access Equip	50,000	1,500,000					\$1,550,000
Total	\$2,235,000	\$3,600,000	\$1,325,000	\$2,850,000	\$2,763,000	3,267,000	16,040,000

Single Space Credit Card Meter Mechanisms

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$650,000	(4%)	
2015	675,000			675,000		
Total	675,000			675,000		

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 tentatively scheduled for 2015 and 2016.

The meter manufacturer has installed 136 single space test models at no cost to the City while they monitor their effectiveness. Several models are being tested and improvements are being made. New models were installed during the first week of October, 2014. No final determination regarding purchasing has been made. If the credit card mechanisms are not found to be feasible, budgeted funding will be used to purchase standard mechanisms. 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	
2016	\$650,000	2016	\$650,000
2015	\$675,000	2015	\$1,325,000
2014	\$0	2014	\$1,325,000

Parking Structure Revenue Control and Access Equipment

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$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 four parking garages. The equipment being replaced was installed in 2004 and has a useful life of 9-11 years. Funding of \$50,000 and \$1,500,000 has been requested for 2016 and 2017 respectively. Funding in 2016 will be used to hire a consultant to write the specifications for a request for proposal.

Capital Request History – Parking Structure Revenue Control and Access Equipment

Annual Request		Six-Year Request	
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)

1000 North Water Parking Structure Repairs

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$150,000	7%	
2015	140,000			140,000		
2014				0		
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	700,000			700,000		1,421,781

This structure has received very little capital funding since 2007. Funding for this account is considered self-supporting. In addition to the funding proposed for 2016, the department anticipates needing \$943,000 over the next six years for various repairs and maintenance. Work is tentatively scheduled for 2016, 2020 and 2021.

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.

The 2016 six-year request has increased by \$365,000 (50%) from the 2015 request. The scope of the work anticipated in the six-year plan has not changed from last year. The replacement of expansion joints, sealer and pavement markings was moved from 2017 to 2021. The estimated cost of those improvements increased by \$405,000. The cost estimate for the security cameras planned for 2016 increased by \$100,000. Funding in 2015 will be used to replace elevator cabling.

Anticipated Work

2016	Replace 8 security cameras	\$150,000
2020	Upgrade carbon monoxide detection system	\$88,000
2021	Replace expansion joints; sealer; pavement markings	<u>\$855,000</u>
		\$1,093,000

Capital Request History – 1000 N. Water Street Parking Structure Repairs

Annual Request		Six-Year Request	
2016	\$150,000	2016	\$1,093,000
2015	\$140,000	2015	\$728,000
2014	\$0	2014	\$590,000
2013	\$0	2013	\$400,000
2012	\$0	2012	\$220,000

Milwaukee/Michigan Parking Structure Repairs

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$550,000	83%	
2015	300,000			300,000		
2014				0		
2013				0		0
2012				0		0
2011				0		0
2010				0		529,278
2009				0		772
2008				0		511
2007				0		0
Total	300,000			300,000		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 most significant changes to the six-year plan were the addition of an electrical circuit and panel replacement project scheduled for 2017 and the deletion of the carbon monoxide detection system upgrade that was scheduled for 2020. The six-year capital request has decreased by \$88,000 (4%) from last year's six-year request.

Anticipated Work

2016	Traffic membrane (last applied in 2005); pavement markings; water repellent sealer	\$550,000
2017	Replace electrical branch circuits and panels	\$300,000
2019	Replace slabs and pavement markings	\$300,000
2020	Steel component painting (2 year project)	\$600,000
2021	Steel component painting (2 year project)	<u>\$600,000</u>
		\$2,350,000

Capital Request History – Milwaukee/Michigan Parking Structure

Annual Request		Six-Year Request	
2016	\$550,000	2016	\$2,350,000
2015	\$300,000	2015	\$2,468,000
2014	\$0	2014	\$1,250,000
2013	\$0	2013	\$1,250,000
2012	\$0	2012	\$1,795,000
2011	\$0	2011	\$880,000

MacArthur Square Parking Structure Renovation

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$30,000	(93%)	
2015	400,000			400,000	(60%)	
2014	1,010,000			1,010,000		
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	3,570,000			3,750,000		2,068,533

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 will be used to make concrete repairs and paint the east and west sides of the lower level.

In addition to the funding proposed for 2016, the department anticipates needing \$4.92 million over the next six years for various repairs and maintenance. Work is tentatively scheduled for every year between 2016 and 2021. The 2016 six-year request has increased by \$2.6 million (111%) from the 2015 request. Newly proposed projects include concrete repairs in conjunction with the Kilbourn tunnel and concrete repairs at the Museum's Pioneer Village.

In addition to this request, DPW Infrastructure has requested \$150,000 for 2016 and \$750,000 for 2018 for repairs related to MacArthur Plaza and the Kilbourn tunnel.

Anticipated Work

2016	Take core samples; Repair elevated slabs and slab on grade; repaint basement	\$30,000
2017	Take core samples; Repair elevated slabs and slab on grade; repaint basement	1,000,000
2018	Concrete repairs related to tunnel work and Pioneer Village	\$750,000
2019	Concrete repairs related to tunnel work and Pioneer Village; Electrical upgrade project	\$1,250,000
2020	Electrical upgrade project	\$950,000
2021	Upgrade carbon monoxide ventilation system	<u>\$974,000</u>
		\$4,954,000

Capital Request History – MacArthur Square parking Structure Renovation

Annual Request		Six-Year Request	
2016	\$30,000	2016	\$4,951,000
2015	\$400,000	2015	\$2,350,000
2014	\$1,010,000	2014	\$3,360,000
2013	\$0	2013	\$1,875,000
2012	\$0	2012	\$1,450,000
2011	\$0	2011	\$1,175,000

Misc. Structural/Mechanical/Electrical Maintenance

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$200,000	0%	
2015	200,000			200,000		
2014	200,000			200,000		
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	1,750,000			1,750,000		1,344,488

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 – 2016

2016	\$200,000
2017	\$200,000
2018	\$200,000
2019	\$200,000
2020	\$200,000
2021	<u>\$200,000</u>
Total	\$1,200,000

Capital Request History – Parking Facility Repair and Maintenance

Annual Request		Six-Year Request	
2016	\$200,000	2016	\$1,200,000
2015	\$200,000	2015	\$1,200,000
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 Lots and Some Surface Lots

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$105,000	162%	
2015	40,000			40,000	(27%)	
2014	55,000			55,000		
2013						
Total	95,000			95,000		

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 2018 and 2020. The City maintains approximately 40 surface parking lots, many of which have not been paved in 25 years.

Request Summary – 2016	
2016	\$105,000
2017	
2018	\$25,000
2019	\$25,000
2020	
2021	
Total	\$155,000

Capital Request History – Repave tow Lots and some Surface Lots

Annual Request		Six-Year Request	
2016	\$105,000	2016	\$155,000
2015	\$40,000	2015	\$95,000
2014	\$55,000	2014	\$150,000

Fourth and Highland Parking Structure Repairs

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$500,000	265%	
2015	137,000			137,000		
2014				0		
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	687,000			687,000		548,574

This structure has received very little capital funding since 2007. In addition to the funding proposed for 2016, the department anticipates needing \$350,000 over the next six years for various repairs and maintenance. Work is tentatively scheduled for 2016, and 2018.

The 2016 six-year request has decreased by \$187,000 (18%) from the 2015 request. The scope of the work has not changed from last year. Funding provided in 2015 will be used to install an electrical backup system, to replace elevator cabling and windows, and to do a façade inspection.

Repairs and maintenance at this parking structure may be affected by the development of a new arena for the Milwaukee Bucks.

Anticipated Work

2016	Paint and repair expansion joints (originally scheduled for 2015)	\$500,000
2018	Joint caulking; water repellent sealer; pavement markings	<u>\$350,000</u>
		\$850,000

Capital Request History – Fourth and Highland Parking Structure Repairs

Annual Request		Six-Year Request	
2016	\$500,000	2016	\$850,000
2015	\$137,000	2015	\$1,037,000
2014	\$0	2014	\$925,000
2013	\$0	2013	\$860,000
2012	\$0	2012	\$960,000
2011	\$0	2011	\$935,000

Out Year Requests

Second & Plankinton Parking Structure Repairs

Out Year

Year	New Borrowing	Perm Impr Reserve	Grant & Aid	Total	% Δ	Actual
2016 Request				\$0		
2015	400,000			400,000	(11%)	
2014	450,000			450,000		
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		728,214

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.

The department anticipates needing \$638,000 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 2016 six-year request has decreased by \$362,000 (36%) from the 2015 request.

Anticipated Work

2017	Caulk joints and paint exterior components (orig. scheduled for 2015)	\$600,000
2021	Replace 121 light fixtures (last done in 2010)	<u>\$38,000</u>
		\$600,000

Capital Request History – 2nd & Plankinton Parking Structure Repairs

Annual Request		Six-Year Request	
2016	\$0	2016	\$638,000
2015	\$400,000	2015	\$1,000,000
2014	\$450,000	2014	\$1,420,000
2013	\$0	2013	\$1,050,000
2012	\$540,000	2012	\$1,305,000
2011	\$325,000	2011	\$1,330,000

Replace Multi-Space Meters

Out Year

This out-year 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 is requested for **2019, 2020 and 2021** respectively. 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	
2016	\$0	2016	\$2,600,000 (2019-2021)
2015	\$0	2015	\$2,000,000 (2019 & 2020)
2014	\$0	2014	\$1,100,000 for 2019

Project Updates and Past Requests

Joint Dispatch/Parking Enforcement Relocation

This request for a one year project to relocate the Parking dispatchers and Parking Enforcement staff was first 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 or 2016.** 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

License Plate Recognition System

This project received \$721,000 in the 2013 Budget to install license plate recognition (LPR) cameras on 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. The cameras will be used for both day and night parking enforcement. This project will eliminate the costs related to printing and selling parking permits. The estimated payback period for this project is between five and six years.

As of October 2013, all the cameras had been installed. The software was programmed to reflect the City's parking regulations. The sale of virtual parking permits for 2014 began in December, 2013.

The department has seen an increase in the number of permits purchased compared to the same period last 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, especially during the snow season, and more accurate.

The department has developed a policy that governs access to the license plate database, record retrieval and record requests. The policy is under review by 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.

A bill that would have limited the use of license plate readers state wide was drafted, but never introduced. Changes in state law could have an adverse effect on the City's parking enforcement operations.

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.

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.

Sewer Maintenance Fund

Year	Cash	Borrowing	Grant & Aid	Assess.	Total	% Δ	Actual
2016 Request					\$46,374,000	5%	
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%	
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	400,000	39,833,000	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	24,360,000	294,240,000	11,530,000	400,000	350,530,000		225,147,276

The Department of Public Works has submitted six capital requests for the Sewer Maintenance Fund for the 2016 Budget.

Requested funding for sewer main projects is essentially unchanged from last year.

The total six-year request is \$263.1 million and represents an increase of \$6.9 million (3%) from last year's six-year request. The increase is primarily related to the 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 request for the Water Quality Projects for TMDL account has increased by \$2.9 million from 2016 through 2019. All of the increase is related to anticipated grant funding.

The six-year request includes a total of \$10.8 million in grant funding for addressing inflow and infiltration issues on private property.

Capital Request Summary <i>(in thousands)</i>							
	2016	2017	2018	2019	2020	2021	Six-Year Total
Project/Program							
Sewer Relief and Relay	32,000	32,000	32,000	32,000	33,000	33,000	\$194,000
Inflow & Infiltration	5,000	7,000	7,000	7,000	7,000	7,000	\$40,000
Grant & Aid	1,800	1,800	1,800	1,800	1,800	1,800	\$10,800
Sanitary Pump Rehabilitation	700	700	700	700	700	700	\$4,200
Water Quality for TMDL	1,000	500	500	500	500	500	\$3,500
Grant & Aid	674	674	674	845			\$2,867
River Channel Maintenance	200	200	200	200	200	200	\$1,200
Flood Mitigation Program	5,000	1,500					\$6,500
Developer Out of Program							
Total	\$46,374	\$44,374	\$42,874	\$43,045	\$43,200	\$43,200	\$263,067

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%

Sewer Relief & Relay Program

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2016 Request				\$32,000,000	(2%)	
2015	2,000,000	30,800,000		32,800,000	(3%)	
2014	2,000,000	31,900,000		33,900,000	3%	
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	14,800,000	230,662,000		245,462,000		180,010,409

The Sewer Program, which has increased substantially over the last 15 years, has stabilized around \$32 million. The six-year request is \$194 million and is unchanged from last year's request.

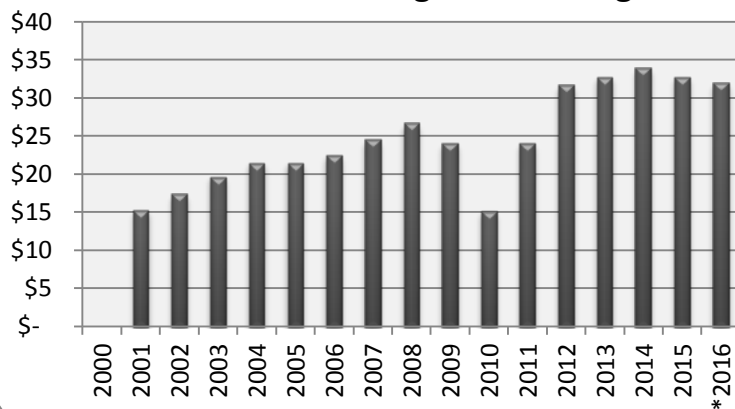
The miles of sewer that can be improved each year can vary considerably depending on the size of the sewer and the type of improvement required. On average, the requested funding should result in a replacement cycle that closely approximates the current recommended cycle of 90 years. The replacement cycle in 2010 was approximately 160 years.

Request Summary – 2016

2016	\$32,000,000
2017	\$32,000,000
2018	\$32,000,000
2019	\$32,000,000
2020	\$33,000,000
2021	\$33,000,000
Total	\$194,000,000

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.

Millions Sewer Mains - Budgeted Funding



Approximately 13% of the 2016 sewer program is projected to be paving related compared to 8% in 2015 and 10% in 2014. The average index rating for paving related projects on the Preliminary 2016 Sewer Program is 45.5 compared to 44.1 on the remainder of the program. 28% of the proposed projects for 2016 are scheduled for lining. An additional 6% 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)
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	
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 Request				\$700,000	0%	
2015	700,000			700,000		
2014	700,000			700,000	(7%)	
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	5,350,000			5,350,000		3,971,827

Funding for this program will provide 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.

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 is continuing its review of their sanitary sewer overflow rules. It is not known when those rules will be finalized. It is DPW's understanding that the revised rules would not eliminate the use of sanitary bypass pumps as long as the municipality is maintaining its system and addressing infiltration and inflow

Request Summary – 2016

2016	\$700,000
2017	\$700,000
2018	\$700,000
2019	\$700,000
2020	\$700,000
2021	<u>\$700,000</u>
Total	\$4,200,000

Capital Request History – Sanitary Pump Rehabilitation Projects

Annual Request		Six-Year Request	
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
2016 Request				\$200,000	0%	
2015	200,000			200,000		
2014	200,000			200,000		
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.

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 – 2016

2016	\$200,000
2017	\$200,000
2018	\$200,000
2019	\$200,000
2020	\$200,000
2021	<u>\$200,000</u>
Total	\$1,200,000

Capital Request History – River Channel Restoration

Annual Request		Six-Year Request	
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	Assess.	Total	% Δ	Actual
2016 Request		\$5,000,000	\$1,800,000		\$6,800,000	2%	
2015		5,000,000	1,650,000		6,650,000	(23%)	
2014	400,000	6,600,000	1,650,000		8,650,000	(16%)	
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	400,000	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	49,403,000	11,380,000	400,000	63,833,000		31,768,326

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.

Request Summary – 2016*

2016	\$5,000,000
2017	\$7,000,000
2018	\$7,000,000
2019	\$7,000,000
2020	\$7,000,000
2021	<u>\$7,000,000</u>
Total	\$40,000,000

*Excluding grant funding

I&I Reduction Projects – Expenditures

Budget Yr.	Cash	Borrowing	Grant/Aid	Total Expenditure	Change
2013		7,760,754		7,760,754	(15%)
2012		9,103,285		9,103,285	125%
2011	500,000	3,446,783	106,302	4,053,085	(25%)
2010	500,000	4,945,132		5,445,132	153%
2009	450,000	1,698,056		2,148,056	(34%)
2008		3,258,014		3,258,014	
2007					

To address I&I issues on private property, DPW piloted a project to repair defective sanitary sewer laterals in 2012. The project was located near Cooper Park in an area bounded by West Burleigh Street,

West Center Street, North 82nd Street and North 92nd Street, which is an area where multiple homes have experienced basement backups and which has been shown to have excessive I&I. Participation in the project was voluntary. Nearly 90% of property owners have chosen to participate. The initial project reduced flows in the area by about 45%. A follow-up project on N. 86th Street from Center Street to Chambers Street will disconnect foundation drains from the sewer. Early participation in the voluntary program was not as high as for the lateral lining project.

A 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. Work began in March 2013 and was completed in the fall of 2013. The average cost per lateral in the Clemens project was \$116 less than in the Cooper Park 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
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
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	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2016 Request		\$1,000,000	\$674,000	\$1,674,000	52%	
2015		1,100,000		1,100,000		
2014						
2013						
Total		1,200,000		1,200,000		

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. The City will have three permit cycles (5 years each) to comply with the new standards.

Request Summary – 2016*

2016	\$1,674,000
2017	\$1,174,000
2018	\$1,174,000
2019	\$1,345,000
2020	\$500,000
2021	<u>\$500,000</u>
Total	\$6,367,000

**includes grant funding*

The 2016 six-year capital request has increased by \$2.9 million (82%) from the 2015 request. The increase is related to grant funding that is anticipated from 2016 through 2019.

Capital Request History – Water Quality Projects to Meet TMDLs

Annual Request		Six-Year Request	
2016	\$1,674,000	2016	\$6,367,000
2015	\$1,000,000	2015	\$3,500,000
2014	\$1,000,000	2014	\$3,500,000
2013	\$500,000	2013	\$3,000,000
*2012	\$1,000,000	*2012	\$6,000,000
*2011	\$2,000,000	*2011	\$6,000,000

**BMP for Total Suspended Solids request*

Flood Mitigation Program

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
2016 Request				\$5,000,000	82%	
2015				2,750,000		
2014						
Total				2,750,000		

This was a request for a new 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 2016 request has added a project in Copernicus Park.

Capital Request History – Flood Mitigation Program

Annual Request		Six-Year Request	
2016	\$5,000,000	2016	\$6,500,000 (2016, 2017)
2015	\$2,500,000	2015	\$2,500,000

Best Management Practices (BMP) for Total Suspended Solid (TSS) Reduction

Year	Cash	Borrowing	Grant & Aid	Total	% Δ	Actual
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 2013 Budget contained \$500,000 for this capital account even though the department requested the funding in the TMDL water quality account.

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	
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
2016 Request					\$30,450,000	22%	
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%)	
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 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 (in thousands)							
Project/Program	2016	2017	2018	2019	2020	2021	6 Yr. Total
Non-Assessable Water Main	19,500	20,000	23,400	23,400	26,000	26,500	\$138,000
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	565	1,035	350	1,175	850	550	\$4,525
Treatment Improvements	2,425	2,750	1,090	1,350	2,765	5,000	\$15,380
Howard Plant							
Building Improvements	0	575	170	50	550	250	\$1,595
Treatment Improvements	750	1,350	550	550	0	1,000	\$4,200
Other Facilities							
Pump Facilities Improvements	3,200	2,500	2,850	5,200	4,500	2,500	\$20,750
Storage Facility Improvements	2,000	1,400	3,600	0	0	0	\$7,000
Meter Repair Shop	0	125	175	300	0	0	\$600
Capital Project Contingencies	2,000	2,000	2,000	2,000	2,000	2,000	\$12,000
Total	\$30,700	\$31,935	\$34,195	\$34,035	\$36,865	\$37,810	\$204,490

Water Works Expenditures							
Program	2009 Actual	2010 Actual	2011 Actual	2012 Actual	2013 Actual	2014 Budget	2015 Budget
Water Mains*	\$14,071,107	\$9,728,663	\$3,909,320	\$2,595,517	\$8,365,752	\$11,500,000	\$19,500,000
Linnwood Plant							
Building Improve.	\$1,790,166	\$791,218	\$5,184	\$243,846	\$44,133		\$600,000
Treatment Improve.	\$394,366	\$514,968	\$151,289	\$465,693	\$1,814,385	\$775,000	\$1,350,000
Howard Plant							
Building Improve.	\$194,078	\$23,157	\$334,932	\$851,302	\$1,029,431	\$100,000	\$250,000
Treatment Improve.	\$27,382	\$167,001	\$98,244	\$70,213	\$101,090	\$150,000	
Pump Facilities	\$584,073	\$2,254,680	\$754,183	\$5,350,759	\$2,179,381	\$100,000	\$50,000
Storage Facilities	\$1,523,366	\$1,373,128	\$1,088,150	\$32,809	\$47,276		\$2,500,000
Meter Shop	\$0	\$902,823	\$84,110	\$13,100		\$700,000	\$700,000
Backup Power Gen.	\$723,836	\$1,070,043	\$5,744,796	\$646,741	\$1,635,780		\$0
Contingencies						\$500,000	
Total	\$19,308,374	\$16,825,681	\$12,170,208	\$10,269,980	\$15,217,228	\$13,825,000	\$24,950,000
<i>*Includes Feeder Main and Developer agreements in budget amounts</i>							

Distribution Water Main System Program

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2016 Request					\$19,500,000		
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%	
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	85,905,550	*21,411,000	630,000	2,800,000	119,510,500		63,072,259

* \$10,736,000 of debt was budgeted in 2015 to finance Water Works capital projects– not all of it may be used for water mains.

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.

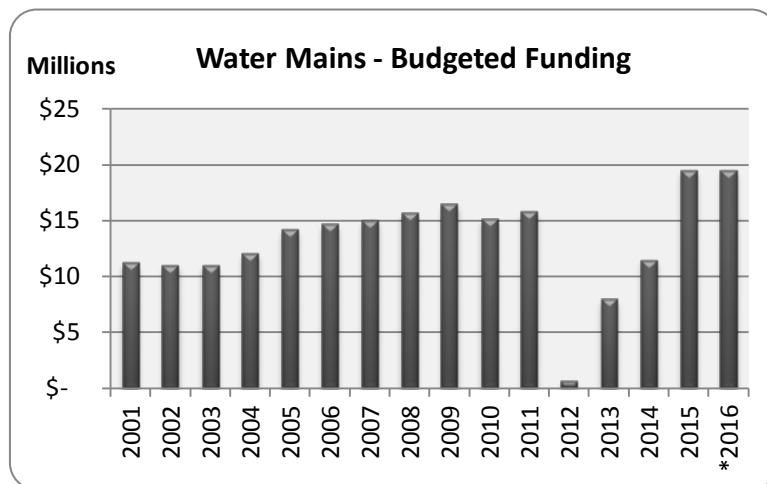
The lower funding levels from 2012 through 2014 were related to revenue shortages cause by a delay in the settlement of a rate case which was brought before the Public Service Commission.

As part of the most recent rate case, the PSC has determined that the City should be replacing 25 miles of water mains annually. The department believes that replacing approximately 15 miles of main per year would be adequate.

Request Summary – 2016

2016	\$19,500,000
2017	\$20,000,000
2018	\$23,400,000
2019	\$23,400,000
2020	\$26,000,000
2021	<u>\$26,500,000</u>
Total	\$138,800,000

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.



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.

Replacing water mains at the rate determined by the Public Service Commission 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.

Capital Request History – Distribution Water Main Program

Annual Request		Six-Year Request	
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

Feeder Main Program

This program enables the Milwaukee Water Works to satisfy consumer needs and to protect the health and safety of Milwaukee citizens. Changing water use patterns necessitate the addition of feeder mains to improve pressure and flows. Although the Distribution Water Main Program and the Feeder Main Program have been requested separately, they are typically budgeted together. No request was submitted for 2015 or 2016. **See discussion for Distribution Water Main System Program.**

Capital Request History – Feeder Main Program

Annual Request		Six-Year Request	
2016	No Request	2016	No Request
2015	No Request	2015	No Request
2014	\$1,500,000	2014	\$11,000,000
2013	\$1,000,000	2013	\$10,000,000
2012	\$500,000	2012	\$4,500,000
2011	\$2,750,000	2011	\$8,650,000

Assessable Water Main Program

See discussion for Distribution Water Main System Program.

Capital Request History – Assessable Water Main Program

Annual Request		Six-Year Request	
2016	\$5,000	2016	\$220,000
2015	\$100,000	2015	\$600,000

Developer Water Main Program

See discussion for Distribution Water Main System Program.

Capital Request History – Developer Water Main Program

Annual Request		Six-Year Request	
2016	\$5,000	2016	\$220,000
2015	\$150,000	2015	\$900,000

Suburban Financed

See discussion for Distribution Water Main System Program

Capital Request History – Suburban Financed

Annual Request		Six-Year Request	
2016	No Request	2016	No Request
2015	\$150,000	2015	\$900,000

Linnwood Plant Building Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2016 Request					\$565,000	(6%)	
2015	600,000				600,000		
2014					0	(100%)	
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	7,630,000	520,000			8,150,000		4,137,245

Since 2001 this program has received \$10 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 2016 six-year request is \$3.5 million less than the 2015 request. A portion of the reduction is related to revised cost estimates for roof repairs that the department anticipates doing over the next six years.

Projects anticipated for 2016 include roof replacements on the North Pipe Gallery, the NW Drive End House, and the NE Drive End House. The assessment and repair of the concrete roofs over the filter beds is expected to be a two year project which will begin in 2016.

Request Summary – 2016

2016	\$565,000
2017	\$1,035,000
2018	\$350,000
2019	\$1,175,000
2020	\$850,000
2021	<u>\$550,000</u>
Total	\$4,525,000

Future projects may include various security upgrades, the replacement of the HVAC system and windows in the Administration office, replacement of the service elevator and the repaving of the perimeter drive.

Capital Request History – Linnwood Plant Building Improvements

Annual Request		Six-Year Request	
2016	\$565,000	2016	\$4,525,000
2015	\$600,000	2015	\$7,985,000
2014	\$0	2014	\$2,185,000
2013	\$150,000	2013	\$2,135,000
2012	\$0	2012	\$200,000
2011	\$1,520,000	2011	\$4,880,000

Linnwood Plant Treatment Improvements

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2016 Request					\$2,425,000	80%	
2015	1,350,000				1,350,000	74%	
2014		775,000			775,000	158%	
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	4,375,000	2,350,000			7,075,000		7,242,051

Funding was provided in 2014 to design the Motor Control Centers Replacement (MCC) project. There are four MCC units at Linnwood.

The replacement of the MCC units will be a multi-year project. 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. 2016 funding will also replace the flocculator bearing in the North Coagulation Basin.

Future projects may include upgrades to the chemical feed system, refurbishment of the ozone contactor roof, replacement of pneumatic control valves, replacement of Pump Room butterfly valves, and the replacement of filter media.

Request Summary – 2016

2016	\$2,425,000
2017	\$2,750,000
2018	\$1,090,000
2019	\$1,350,000
2020	\$2,765,000
2021	<u>\$5,000,000</u>
Total	\$15,380,000

Capital Request History – Linnwood Plant Treatment Improvements

Annual Request		Six-Year Request	
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

Out year

Year	Non-Assessable	Borrowing	Assess.	Developer	Total	% Δ	Actual
2016 Request					\$0		
2015	250,000				250,000	150%	
2014	100,000				100,000	0%	
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		2,618,888

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.

Future projects may include the following*:

Loading dock – maintenance area	\$500,000
New flow tube	\$100,000
Coag building roof	\$100,000
Security Upgrades	\$100,000
Machine shop upgrade	\$550,000
Freight elevator	\$200,000

*Cost estimate from 2015 Capital Request

Request Summary – 2016

2016	\$0
2017	\$575,000
2018	\$170,000
2019	\$50,000
2020	\$550,000
2021	\$250,000
Total	\$1,595,000

Capital Request History – Howard Plant Building Improvements

Annual Request		Six-Year Request	
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
2016 Request					\$750,000		
2015					0	(100%)	
2014		150,000			150,000	50%	
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	1,122,000	850,000			1,972,000		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.

Projects being proposed for 2016 include improvements and replacement of the in-line rapid mixers and the first year of the flocculator system upgrade.

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 – 2016

2016	\$750,000
2017	\$1,350,000
2018	\$550,000
2019	\$550,000
2020	\$0
2021	<u>\$1,000,000</u>
Total	\$4,200,000

Capital Request History – Howard Plant Treatment Improvements

Annual Request		Six-Year Request	
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
2016 Request					\$3,200,000		
2015	50,000				50,000	(50%)	
2014	100,000				100,000		
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	16,595,000	1,650,000			18,195,000		11,605,123

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 2016 six-year capital request is \$950,000 (5%) more than last year's request.

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. There were no projects scheduled for 2013. Funding in 2014 provided for the replacement of portions of the electrical equipment at the Texas Avenue pumping station.

Funding requested for 2016 will begin the replacement of the Howard Plant substation and switchgear.

Request Summary – 2016

2016	\$3,200,000
2017	\$2,500,000
2018	\$2,850,000
2019	\$5,200,000
2020	\$4,500,000
2021	<u>\$2,500,000</u>
Total	\$20,750,000

Capital Request History – Pump Facilities Improvements

Annual Request		Six-Year Request	
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
2016 Request					\$2,000,000	(20%)	
2015	2,500,000				2,500,000		
2014					0	(100%)	
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	8,671,000				8,671,000		6,692,234

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. 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 – 2016

2016	\$2,000,000
2017	\$1,400,000
2018	\$3,600,000
2019	\$0
2020	\$0
2021	\$0
Total	\$7,000,000

Future projects may include:*

Linnwood north reservoir roof construction	\$1,400,000
Florist – paint tanks	\$3,600,000
Florist – dome, drain and parapet rehabilitation	\$500,000
Florist elevated storage tank	\$6,000,000

*Cost estimates from 2015 capital request

Capital Request History – Storage Facilities Improvements

Annual Request		Six-Year Request	
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
2016 Request					\$0	(100%)	
2015	700,000				700,000	0%	
2014	700,000				700,000		
2013					0	(100%)	0
2012	50,000				50,000	(67%)	13,100
2011	150,000				150,000		84,110
2010	0				0	(100%)	902,823
2009	300,000				300,000		0
2008	0				0	(100%)	11,450
2007	400,000				400,000		11,138
Total	2,300,000				2,300,000		1,022,621

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 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 – 2016

2016	\$0
2017	\$125,000
2018	\$175,000
2019	\$300,000
2020	\$0
2021	\$0
Total	\$600,000

Capital Project History – Meter Shop Improvements

Annual Request		Six-Year Request	
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
2016 Request					\$0		
2015					0		
2014					0	(100%)	
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		10,069,356

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 was submitted in 2015 or 2016.**

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	
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
2016 Request					\$2,000,000		
2015							
2014	500,000				500,000		
2013							
2012							
2011							
2010							
2009							
2008					1,826,000		
2007							
Total	500,000				2,326,000		

This request is for contingency borrowing authority to be available for unexpected needs.

Capital Request History – Capital Projects Contingencies

Annual Request		Six-Year Request	
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
