Appendix

Batavia Miscellaneous Statistics

General and Demographic Statistics

2007 Capital Improvement Project Summary

Capital Projects that are over $100,000 and non-recurring in nature

2008 – 2011 Capital Improvement

Capital Projects in Development

City of Batavia Statistics

Form of Government

Mayor/Council	
Founded	1833
Incorporated as a Village	1856
Incorporated as a City	1891

Land Area in Square Miles

2006	9.71	2002	9.02
2005	9.64	2001	8.92
2004	9.17	2000	8.75
2003	9.08		

Population

2003 Special	24,978	1990	17,076
2000	23,866	1980	12,574

2003 Demographics

Gender	Number	Percent
Female population	12,850	51.4
Male population	12,128	48.6

Race/Ethnicity	Number	Percent
White (alone)	23,200	92.9
Black (alone)	612	2.5
Indian/Native	91	0.4
Asian (alone)	307	1.2
Other Race	379	1.5
Two or more races	389	1.6
Hispanic	1,311	5.2

Age	Number	Percent
Under 5 years	1,736	7.0
5 to 9 years	2,171	8.7
10 to 14 years	2,233	8.9
15 to 19 years	1,939	7.8
20 to 24 years	1,217	4.9
25 to 34 years	2,319	9.3
35 to 44 years	4,554	18.2
45 to 54 years	1,293	5.2
60 to 64 years	782	3.1
65 to 74 years	1,067	4.3
75 to 84 years	896	3.6
85 years and over	475	1.9

Number of Housing Units

Occupied	8,960
Owner Occupied	7,079
Rental	1,881
Vacant	486
Total Units	9,446

Household Size 2.77

Median Family Income

2000 Census $81,689

Number of Building Permits Issued

2005 – 1,108	2002 – 1,397
2004 – 1,459	2001 – 1,215
2003 – 1,522	2000 – 1,252

New Construction Permits

	Industrial	Commercial	Residential
2005	9	5	103
2004	7	5	141
2003	4	1	194
2002	7	7	189
2001	6	7	135
2000	7	5	214

Police Department

Number of Sworn Officers 43

Calls for Service

2005	12,248	2001	12,429
2004	13,624	2000	12,456
2003	13,458		
2002	13,203		

Criminal Offenses

	Total	Violent	Theft/Other
2005	624	30	594
2004	668	39	629
2003	683	25	658
2002	640	25	615
2001	706	30	676
2000	766	34	732

Auto Accidents

2005	1,034	2002	1,062
2004	1,063	2001	1,016
2003	1,064	2000	999

Fire Department

Number of Firefighters	24
Number of Paid on Call	30
Number of Fire Stations	2

Fleet

Number of Engines	4 (1 reserve)
Number of Ladder Trucks	2
Number of Brush Pumpers	1
Number of Ambulances	2 (1 reserve)
Number of staff vehicles	6

Calls for Service	**EMS**	**Fire**
2005	1,680	1,255
2004	1,708	1,331
2003	1,302	1,561
2002	1,173	1,600
2001	1,157	1,633
2000	1,157	1,579

Electric Utility

% Overhead	43%
% Underground	57%
Number of Substations	5
Miles of Fiber	21
Number of Streetlights	4,750
2005 MW Billed	409,951
2005 Peak MW Demand	87
Number of Services	10,592

Water Utility

Deep Well # 2 – Active (P)
Deep Well # 3 – Inactive
Deep Well # 4 – Active (P)
Deep Well # 5 – Active (Planned for Standby)
Deep Well # 9 – Active
Deep Well # 10 – Active
Deep Well # 11 – Active
Shallow Well # 6 – Active
Shallow Well # 7 – Active
Shallow Well # 8 – Active

Miles of water main	110 miles
Water valves	1,500
Hydrants	1,500
Number of Services	9,000

Annual Water Pumped (Billion Gallons)

2004	1.06	2001	1.04
2003	1.03	2001	1.05
2002	1.05		

Average Daily Pumpage	3.0 MG
Maximum Daily Pumpage	6.1 MG

Wastewater Utility

Number of Lift Stations:	18
Average Daily Flow	3.2 MGD

Plant Capacity – Peak Wet Weather Flow
12 MGD - Flow With Full Treatment
13 MGD - With Excess Flow Treatment Only
25 MGD - Peak Wet Weather Flow

Number of Services	8,790

Public Works

Miles of Urban Streets	105.88
Miles of Rural (no Sewer)	5.25
Miles of Rural (with Sewer)	1.14
Miles of Alley	.73
Miles of Sidewalk	156.42
Number of Bridges (River Crossing)	1
Number of Bridges (Other)	1
Number of Cemeteries	2

Equalized Assessed Value

2005	919,811,190	2002	688,494,953
2004	844,224,089	2001	625,784,138
2003	768,761,177	2000	566,886,353

Tax Rate (per $100 of EAV)

2005	$0.57472	2002	$0.62100
2004	$0.55305	2001	$0.6547
2003	$0.62360	2000	$0.6740

Capital Improvement Plan

City Staff have been actively working on developing a capital improvements plan in recognition of the importance of adequate capital planning. The following capital projects are the result of this process. Projects that are slated for 2008 - 2011 have been included after 2007 projects. These future projects are provided for reference of planned future capital projects. As with any multi-year plan, some these projects are in the very preliminary planning stages. Future projects will still be part of the normal budget process for approval. These future projects are provided for dissemination and discussion for future planning processes and not in conjunction with the 2007 budget. Approval of the 2007 budget does not indicate approval for any project not part of the 2007 budget.

Projects that are part of the 2007 budget are provided on the following pages. A table of contents is provided on the following page for easy reference. The projects included with this list may be a continuation of a prior year project or they may be new in 2007. The total cost listed at the top encompasses costs for all years, including prior years. In addition, some projects may span several accounts, departments or even funds. Therefore, the summaries provided herewith provide a snapshot of the total cost of the project. Although the City's accounting policy does not call for capitalization of software, these types of expenditures have been included with the CIP for further information and description.

Colonial Village Rebuild (841)

Estimated Total Cost of Project (All Accounts & Years)

$400,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$200,000	$200,000		

Project Location: Entire Colonial Village area.

Description and Scope of Project:

This project will replace all the old poles, wire and transformers. Most of the area has no easements, these will need to be acquired from property owners.

Justification and Purpose of Project:

Many of the poles, wire and transformers are 30 – 50 years old, and have out lived their usefulness.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

Capital Projects
(With costs in the 2007 Budget)

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Phone System Upgrade

Estimated Total Cost of Project (All Accounts & Years)

$205,000

Budget Year:	2007	2008	2008	2010	2011
Expense:	$100,000	$105,000			

Project Location: All City Buildings

Description and Scope of Project:

This project entails upgrading the existing phone systems in all city buildings. It will consist of redundant Call Manager Voice-Over-Internet-Protocol (VoIP) servers, replacement of the existing SONET fiber equipment with current technology network switches, replacement of the voice mail service and new handset phones. The network switches would be capable of virtual local area networking (VLAN), and Quality of Service (QOS) needed for a VoIP phone system. In 2007, the first phase of implementation will include the new Fire Stations and the Wastewater Treatment Plant. In 2008 all other buildings will be upgraded to the new system.

Justification and Purpose of Project:

The City currently has three phone systems, a PBX (private branch exchange) at City Hall and two turnkey systems at the Fire Station and Public Works building. The Harris System at City Hall and the NEC system at Public Works are 12 years old. The system at the Fire Department was over 20 years old. The current systems are filled to capacity and no further lines can be added. Reconstruction of the Fire Stations made for a logical time to undertake this process. Implementing the upgrade at remaining buildings the following year will allow connection among all departments with very little lag time. Many features of the new system will provide for better customer service to all who make phone contact with the City.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Maintenance on the equipment is being estimated at 8,000 per year. The budget of $100,000 in 2007 includes $70,000 in General Activities and $30,000 in the Fire Station construction fund.

Total Budget Impact:	$8,000

Police Records Management Software

Estimated Total Cost of Project (All Accounts & Years)

$273,250

Budget Year:	2007	2008	2009	2010	2011
Expense:	$167,000	100,000			

Project Location: On the City Network

Description and Scope of Project:

Software and hardware are planned to replace the current Police Records Management System (RMS). The software will provide incident tracking of criminal activity, evidence and citation tracking, booking services, mobile report capabilities and integration into the City's Geographical Information Systems (GIS). A server with Microsoft SQL database software will be purchased in 2006 to host the system. The mobile reporting module of this project is planned for implementation in 2008.

Justification and Purpose of Project:

The City was awarded a federal grant of $147,000 to update the current system and will receive the funds in 2007. The current program (PIPS) is outdated and not able to integrate with other city systems. The current system does not provide the functionality needed by the Police Department. The new system will also replace a costly standalone booking system that does not integrate into a RMS. The new system will also create efficiencies by eliminating redundant data entry by the officers and records clerks, thus increasing time that officers can be in the field.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Maintenance of this system will be 16.5% of the software licensing cost projected to be $163,000.

Total Budget Impact:	$26,895

Land Development (Parcel/Permit/Infrastructure) Software

Estimated Total Cost of Project (All Accounts & Years)

$306,250

Budget Year:	2007	2008	2009	2010	2011
Expense:	$150,000	$150,000			

Project Location: On the City Network

Description and Scope of Project:

Software is planned to centralize the management of parcel data, land development, permitting, and infrastructure asset management. A server for this application was purchased in 2006 with the software and implementation planned for 2007 and 2008.

Justification and Purpose of Project:

This system will replace any system currently being used to manage parcel information. Having one parcel database eliminates the redundant task of updating multiple systems. The driving factor for purchasing this system is to replace an obsolete permit and inspection system. The Community Development department is in dire need of a system that can comprehensively track data related to a parcel number or address. The initial focus will be to establish a database that will allow for following a permit through all stages and allow for code enforcement or other useful information to become part of the record. There are also plans for Public Works and Engineering to use the software to manage infrastructure data that tie into the parcel and permit system. A new system would be able to replace multiple standalone systems and spreadsheets, thereby positioning data into one centralized database. This program would improve the accuracy of data and facilitate better intra-departmental communication.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

On going maintenance of this system will be 15% of the software licensing cost of $200,000. Other costs associated with this project include hardware and implementation services).

Total Budget Impact:	$30,000

Document Management

Estimated Total Cost of Project (All Accounts & Years)

$135,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$15,000	$105,000			

Project Location: On the City Network

Description and Scope of Project:

A Document Management system has been planned to give City staff a central repository for managing the archival of documents. The system would require a server, software, and possibly an optical jukebox for the storage of information. A consultant was hired in 2006 to begin cataloging files to evaluate the records that are currently maintained by City offices. Work on this is planned to continue in 2007 with proposal of a management system in 2008.

Justification and Purpose of Project:

This system will centralize the storage of documents into a citywide repository allowing departments the ability to share information and archive public records. Documents stored in the system would be indexed for easy search and retrieval. FOIA requests could be streamlined using this system with the possibility of records made public via the City website. The State of Illinois requires that no public record be disposed of without the approval of the Secretary of State Records Management Office and a document management system will assist with this mandate.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

On going maintenance of this system would be 15% of the projected hardware cost and software licensing cost.

Total Budget Impact:	$15,000

Fire Station Renovations and Addition

Estimated Total Cost of Project (All Accounts & Years)

$11,197,836

Budget Year:	2007	2008	2009	2010	2011
Expense:	$8,931,849				

Project Location: 800 East Wilson Street and 1400 West Main Street

Description and Scope of Project:

Complete renovations of the City's two fire stations began in 2006. The project was the result of a growing need for space and the age and condition of the buildings. Design engineering was completed in 2005. Demolition and construction began in October 2006. Project cost includes all design and construction engineering, construction and materials, furnishings, set up of all information technology and incorporation of space for the ESDA department.

Justification and Purpose of Project:

The fire departments have been operating beyond maximum space capacity for some time. Many employees are working in close proximity with inefficient workspace, living areas and storage space. The alternative to reconstruction of the fire stations would have been to build additional space elsewhere. Reconstruction with use of existing land was the most cost-effective plan.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be slight with additional costs for utilities and maintaining added space. Funding to pay for the project was secured through the issuance of 20-year Alternate Revenue Bonds in 2006. Sales Tax revenues were pledged as the revenue source to pay for the bonds. A non-home rule sales tax request was put to referendum and approved by voters in 2005. The new tax was necessary to augment sales tax revenues to fund this very important project.

Annual Debt Service	$728,168

Other costs will be incurred during the year of reconstruction in order to house the displaced fire department. Space has been leased on the east side of town and accommodations have been made in the City's Public Works facility for west side response.

Donovan Bridge Reconstruction

Estimated Total Cost of Project (With Contingencies)

$12,624,427

Budget Year:	2007	2008	2009	2010	2011
Expense:	**$11,065,775**				

Project Location: Wilson Street Fox River Crossing.

Description and Scope of Project:

This project began as rehabilitation after a structural examination of the bridge, but as part of Phase I engineering, the consulting engineers concluded that the entire structure must be rebuilt. This change has resulted in some delays for the project, which is now scheduled to begin construction in early 2007. Phase I engineering is complete and Phase II engineering is currently in process. In recognition of the magnitude of this project and the potential impacts to the community, a Citizens Advisory Committee was formed. The Committee consists of residents, business members and a representative of the School District, as well as City Staff. The Committee met several times to address all issues and concerns and recommendations were made and submitted. In addition, the City has had several open houses and actively solicited public input for the design of the new bridge.

Design Engineering & Other	$ 1,657,472
Construction Engineering	$ 822,000
Construction Estimate	$10,145,000
Total Project Cost	**$12,624,4270**

Justification and Purpose of Project:

The bridge was originally constructed in 1911. Structural evaluations of the bridge determined that repairs were necessary. The bridge conditions report, with support from the State and Federal Government, justifies the complete reconstruction. In addition, to safety, this project recognizes that the bridge is a major architectural feature of downtown Batavia

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Funding for the bridge has been from several State and Federal Grants. BRRP funding through IDOT is in place to fund 80% of approved construction costs. The City issued $2,000,000 in General Obligation Bonds in 2005 to pay for the City's 20% share of the project costs. The bonds were approved through referendum and will be paid through property taxes. The balance of approximately $420,000 in expenditures will be facilitated through a transfer from general activities

River Street Alley Improvements

Estimated Total Cost of Project (All Accounts & Years)

$237,100

Budget Year:	2007	2008	2009	2010	2011
Expense:	**$237,100**				

Project Location: Alley off River Street

Description and Scope of Project:

River Street Alley is a gravel surface. The area is also in need of utility improvements. The Engineering Departments proposed improvements, will consist of paving, sidewalk, storm sewer, trash enclosure, lighting improvements. This project also includes improvements by the Electric Department and Lift Station rehabilitation by the Wastewater Department. Below is a breakdown of the cost:

Design Estimate	Total Cost
Design Engineering	In House
Road Construction	$150,000
Electric Improvements	$ 37,100
Wastewater Improvements	$ 50,000
Total Project Cost	**$237,100**

Justification and Purpose of Project:

This project is in an effort to revitalize the downtown area and to provide a handicap access to the bike path along the Fox River.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Funding will be with TIF funds and utility reserves.

River Street Reconstruction and Water Main Replacement (Wilson Street to north of State Street)

Estimated Total Cost of Project (All Accounts & Years)

$560,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$35,000	$525,000			

Project Location: River Street from Wilson Street to north of State Street.

Description and Scope of Project:

River Street will be completely reconstructed. The River Street proposed roadway section will consist of curb and gutter, sidewalk, storm sewers and bituminous pavement. The enhancement portion of the project is anticipated to include lighting, pavers, landscaping and benches. The total project length for this project is approximately 425 LF. The water main is in excess of 75 years old and has broken in the past, so replacement is planned along with the road reconstruction is planned along with the road reconstruction.

Design Estimate	Fiscal Year	Department	Total Cost
Survey, Soil Borings & Cores	2007	Engineering	$10,000
Phase 2 Engineering	2007	Engineering	In-House
Phase 2 Engineering (10%) – Water Main	2007	Public Works	$10,000
Phase 2 Engineering (10%) – Sanitary	2007	Public Works	n/a
Phase 2 Engineering - Enhancements	2007	Planning	$15,000
Construction Estimate			
Construction Cost – Roadway	2008	Engineering	$300,000
Construction Cost - Water Main	2008	Public Works	$100,000
Construction Cost - Sanitary	2008	Public Works	n/a
Construction Cost - Enhancement	2008	Planning	n/a
Phase 3 Engineering - Roadway	2008	Engineering	$30,000
Phase 3 Engineering (10%) – Water Main	2008	Public Works	$10,000
Phase 3 Engineering (10%) – Sanitary	2008	Public Works	n/a
Phase 3 Engineering - Enhancements	2008	Planning	$85,000
Total Project Cost			**$560,000**

Justification and Purpose of Project:

Due to the existing poor condition of River Street, it needs to be reconstructed. Public Works has some water main and/or sanitary sewer improvements. The overall project cost is $560,000. This is not a complete budget number. The design, construction and construction engineering numbers are not included for either the enhancements or sanitary sewer improvements.

Wilson Street - Road and Water Main Design
(Water Street to Island/Shumway Avenue)

Estimated Total Cost of Project (All Accounts & Years)

$140,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$75,000	$65,000			

Project Location: Wilson Street – Water Street to Island/Shumway Avenue.

Description and Scope of Project:

Wilson Street will be completely reconstructed. The budget cost for 2007 will consist of architectural review, surveying and the traffic analysis of various intersections along Wilson Street by a traffic consultant. The 2008 budget includes the design engineering by a consultant for the roadway and water main improvements. Construction is scheduled for summer 2009. The cost for construction for both the roadway and water main are not yet known. The approximate total project length for this project is 800LF. Below is a breakdown of the design portion of the project:

Design Estimate	Total Cost
Architectural Review 2007	$ 10,000
Survey 2007	$ 18,000
Soil Borings & Cores 2007	$ 5,000
Design Engineering for Roadway 2008 Design Engineering for Water Main 2008	$ 38,500 $ 26,500
Design Engineering for traffic analysis 2007	$ 42,000
Total Design Cost	**$140,000**

Justification and Purpose of Project:

Due to the existing poor condition of Wilson Street, it needs to be reconstructed. This project will be coordinated with the Donovan Bridge project, proposed enhancements downtown and the potential traffic signal interconnect.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Funding for design will be from reserves.

Replacement of 1986 Pierce Lance Pumper (Engine 1)

Estimated Total Cost of Project (All Accounts & Years)

$505,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$505,000				

Project Location: Equipment housed at 800 East Wilson Street

Description and Scope of Project:

Replacement of a 1986 Pierce 1500 gallons per minute pumper. Replacement is based on the age of the vehicle, the excessive mileage on the vehicle, and the excessive wear in the fire pump. The projected cost includes the vehicle and all required NFPA 1901 basic equipment.

Justification and Purpose of Project:

The Batavia Fire Department has three main response vehicles: Engine 1, Engine 2 and Squad 1. This 19-year old Engine is a first out with 125,500 road miles, and 12,870 engine hours, which is the equivalent to 450,450 road miles. The fire pump has 882 hours of actual pumping time. The engine failed in 2002, which resulted in a complete engine replacement. Because this engine has not been manufactured since 1988, a motor had to be specially made, which delayed repairs. Since return to service, it has had 22,500 road miles and 2,570 engine hours, which equals 89,950 road miles. The alarm call volume, fire building inspections, special details, and weekly and monthly training all add to the mileage and wear and tear on the fleet.

In 2006, the annual pump service testing was done on all apparatus with fire pumps. Engine 1 experienced serious problems with overheating and was unable to pump the 1500 gallons per minute capacity. If a fire pump will not pump its rated capacity, it is to be removed from service. The fire pump repair will cost about $10,000. There is also a considerable amount of rust and scale on the entire undercarriage, which will need to be examined to determine structural safety. In addition, it is becoming difficult to find the parts to make repairs. Some of the most common parts have not been made for years. The 1986 Pierce Lance Pumper has served the citizens and the City of Batavia well, but is no longer cost efficient or reliable and should be replaced.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

A new vehicle will have lower costs for large repairs and routine maintenance costs will remain about the same. Funding for the pumper will require an additional transfer from the City's general activities to the capital replacement fund to facilitate this purchase.

138kV Transmission/ Substation Project (801 & 829)

Estimated Total Cost of Project (All Accounts & Years)

$24,069,689

Budget Year:	2007	2008	2009	2010	2011
Expense:	$19,511,946				

Project Location: This project originates on the East Side of the Fermi property and ends on the East Side of Batavia, in the industrial park.

Description and Scope of Project:

Plans include connection to ComEd 138kV lines through Fermi lab property. The City will construct a new 138kV pole line on the north side of Fermi property, and install a new circuit on Fermi owned poles that parallel Butterfield Road. The City will then construct two new 138kV to 34.5kV substations to serve the City's total load. Extension will be made from the two new 138kV substations for all necessary 34.5kV circuits, both overhead and underground.

Justification and Purpose of Project:

Starting in June 2007 the City will be responsible to pay ComEd a local distribution charge expected to be $1,000,000 or more, because we are served at 34.5kV. If we are served at 100kV or above those charges are eliminated. By building the 138kV lines and substations the City will eliminate those LDC charges. Other added benefits are more control of our system and a greater level of reliability in our energy delivery system.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Bonding will be necessary for this project. It is anticipated that 30-year bonds will be issued. The par amount of the bonds to be issued in 2006 are expected to be $26,000,000. The par amount exceeds the cost of the project because it includes borrowing a bond reserve to be held until the final payment on the bonds is due.

Annual Debt Service	$1,620,000

City Wide Capacitor Program (827)

Estimated Total Cost of Project (All Accounts & Years)

$225,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$175,000				

Project Location: City Wide.

Description and Scope of Project:

Capacitors will need to be installed on the entire electrical system, both on the 12.5kV and the 34.5kV systems as we remove load from the 34.5kV and migrate to the 138kV system. This project is required as part of the 138kV project

Justification and Purpose of Project:

As the City goes from being served at 34.5kV to 138kV the transmission provider requires a 93% power factor. The cities current power factor is at 88%. In order to reach 93% or greater the city will have to install about 30,000 KVAR of capacitors. These capacitors can be installed on the 12.5kV and the 34.5kV. They will be installed on the overhead/underground systems and in the individual substations. The cost to install in the substations will be included in a future budget as part of the substation cost.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Existing cash reserves or bond proceeds would fund this project.

McKee Street Substation Addition (826)

Estimated Total Cost of Project (All Accounts & Years)

$1,482,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$1,259,000				

Project Location: On McKee Street St. between Van Nortwick and Western Ave.

Description and Scope of Project:

At present time there is a 34.5kV to 12kV substation. A new (additional) transformer will be installed and new feeder circuits will be added at a later time. This will double the capacity of this substation.

Justification and Purpose of Project:

When the City removes the Millcreek Substation from the ComEd 34.5kV system in June 2007, we will need this substation to serve the load the Millcreek Substation now serves.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

McKee Street Substation Circuit (838)

Estimated Total Cost of Project (All Accounts & Years)

$361,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$361,000				

Project Location: McKee Street Substation

This project includes installation of three new 12kV circuits at the McKee Substation. One will go east to Republic on McKee then north to Fabyan Parkway. The other two will go west on McKee to Western Avenue, then one circuit goes north and one south.

Justification and Purpose of Project:

These three new circuits are needed to replace the circuit from Millcreek that will be de-energized. The consolidation to one substation will increase efficiency and allow for maintenance at one substation rather than two.

These three new circuits are needed to replace the circuit from Millcreek that will be de-energized.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

McKee Substation to Main Substation Wire Pull (843)

Estimated Total Cost of Project (All Accounts & Years)

$270,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$270,000				

Project Location: McKee Substation to Main Substation.

Description and Scope of Project:

34.5kV underground wire will be pulled from McKee Substation to Main Substation in order to create a backup feed and an additional circuit to the west side.

Justification and Purpose of Project:

When the City removes all of the 34.5kV ComEd meter points this new circuit will be the main feed to McKee Street Substation.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

12kV/34.5kV Distribution Improvements & Upgrade (839)

Estimated Total Cost of Project (All Accounts & Years)

$970,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$970,000				

Project Location: This project originates at the new 138kV North Substation and at the Main Substation.

Description and Scope of Project:

Two new 34.5kV circuits will be installed from the new 138kV Substation, to the Main Substation. These are needed to replace the ComEd 34.5kV meter points when the 138kV is constructed.

Justification and Purpose of Project:

This project is a long term project to get off the ComEd system, to save paying the LDC charge, and have more control and better reliability.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

Main Substation/Paramount Park Sub Circuit Tie (845)

Estimated Total Cost of Project (All Accounts & Years)

$112,250

Budget Year:	2007	2008	2009	2010	2011
Expense:	$112,250				

Project Location: On Fabyan Parkway from Nagel Boulevard

Description and Scope of Project:

Highland circuit from McKee Street Substation ends at Nagel Boulevard and Fabyan Parkway. Highland circuit from Paramount Park Substation passes by Proex Co. We will add approximately 1000 feet of underground wire.

Justification and Purpose of Project:

Industrial customers in the Northern section of our industrial park have grown in the last four years. The circuit tie will provide backup and balance circuit loads on our system.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

Prairie State Generation Project (834)

Estimated Total Cost of Project (All Accounts & Years)
Long Term Purchased Power Contract
Advanced Cost $1,894,196

Budget Year:	2007	2008	2009	2010	2011
Expense:	$250,000				

Project Location: Washington County Illinois (Southern Illinois)

Description and Scope of Project:

Prairie State is a planned 1,500 megawatt generating plant and coal mine under development by Peabody Energy, the world's largest private-sector coal company. The plant will provide clean, low-cost electricity using state-of-the-art technologies that would make it among the cleanest major coal-fueled plants in America. Negotiations are in process for this long-term project. The project will take several years to construct and begin operations. The City of Batavia joined with two other Cities to form the Northern Illinois Municipal Power Agency (NIMPA). This joint agency will issue bonds to cover the cost of the project. NIMPA's share of the total project is 105 mW for which total costs are not known at this early stage. Costs budgeted for 2006 include development costs for Bataiva's 50 mW share of the project. All development costs will be reimbursed when bonds are issued. Batavia will enter into a long-term purchased power contract with NIMPA, which in turn will pay the debt and operating costs of the plant.

Justification and Purpose of Project:

As the City of Batavia closes in on the end of the current full requirements contract (5/31/2007), prudent planning includes the need to create a diversified energy portfolio. Through the Northern Illinois Municipal Power Agency (NIMPA) the city will purchase 50mW, which is approximately 1/2 to1/3 of the City's future energy needs. Securing power at the site of generation will benefit Batavia's electric users. Plans to diversify energy sources should also provide protection to consumers for power supply as well as power costs.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The end result of this project will have an impact on the operating budget. It is too early in the project to quantify those numbers. The 2007 budget reflects reimbursement from NIMPA bond proceeds based on expected progress payment made for preliminary expenses of $1,894,196.

Timber Trail and Waubonsee Trail
Water Main Replacement

Estimated Total Cost of Project (All Accounts & Years)

$470,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$75,000				

Project Location: Timber Trail and Waubonsee Tr.

Description and Scope of Project:

As part of the Water Utility's ongoing effort to replace aging water mains, the Timber Trail water main and the Waubonsee Tr. water main are in need of replacement. The existing water main on Timber Tr. is located in the back yard and is difficult to access. The water mains have also reached the end of their life cycle. The bulk of the work is planned for fall 2006. The 2007 budget includes payment of retainage and restoration work.

Justification and Purpose of Project:

These water mains are in poor condition and prone to failure. The water mains are located in an area that is surrounded by mature landscaping with fencing. The main in the back yards along Timber Tr. has broken several times before the area was heavily developed. The water main on Waubonsee Tr. will be replaced in conjunction with the sewer main project planned for this street. By completing the projects at the same time, cost savings is realized for the street and landscaping restoration.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since the water mains will both be replacements. This project is slated for funding from water reserves.

Wilson St. Water Main Replacement

Estimated Total Cost of Project (All Accounts & Years)

$200,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$200,000				

Project Location: Wilson St., between the Bridge and River St.

Description and Scope of Project:

In conjunction with the bridge reconstruction project, a new water main will be installed in the parking stall area on the north side of Wilson Street. Plans are to terminate the new water main at the east end of the new bridge, but the Engineering Dept. will be considering the possibility of looping the new main with an existing water main located in the parking lot behind the businesses on the south side of the street.

Justification and Purpose of Project:

The purpose of this project is to assure that the water main located beneath the road surface will last as long as the new road improvements. The utility does not want to have to excavate the new road surface to repair an old water main

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since this is a water main replacement project. The project will be funded with reserves.

NE Water Tower Repairs and Painting

Estimated Total Cost of Project (All Accounts & Years)

$400,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	$400,000				

Project Location: N. Kirk Rd. water tower site

Description and Scope of Project:

The NE Batavia water tower is need of rehabilitation. The tower was constructed in 1965 and maintenance was performed in the late 1980's. The tower has a capacity of 500,000 gallons. The tower paint will need to be removed and replaced. The original paint has lead based primer, which is a factor in the cost.

Justification and Purpose of Project:

This is a preventative maintenance project. The paint on water towers and the tower's structural steel must be maintained to extend the useful life of the tower as a utility asset. The City has delayed the normal maintenance cycle to perform the painting, as long as reasonably possible.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The project is slated for funding from reserves.

Waubonsee Trail Sanitary Sewer

Estimated Total Cost of Project (All Accounts & Years)

$121,417

Budget Year:	2007	2008	2009	2010	2011
Expense:	$27,000				

Project Location: Waubonsee Trail from Waubonsee Trail to Shabbona Trail.

Description and Scope of Project:

Installation of sanitary sewer to provide service to those residents who are currently within city limits, but do not have access to sanitary sewers. The majority of the work will be completed in 2006 with retainage & restoration in 2007.

Justification and Purpose of Project:

It has been City policy to actively work to provide sanitary service to City of Batavia residents that do not utilize the City's Sanitary Sewer. It is desirable to eliminate the use of septic tanks within City limits so as to ensure the integrity of the City's sewer system and for general health reasons. The City began a program in 2002 for one such area. The City advanced the cost of the improvements and allowed residents to connect on an as-needed basis and to repay the City over a 10-year period. Residents living along Waubonsee Trail have approached the City requesting to participate in a similar program.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact of the Operating Budget will be dependant on the residents that choose to pay their share of the costs up front rather than finance them. The impact on future year budgets should be neutral, as the City will receive revenue from use of the sewers but that revenue will be offset by the cost of on-going maintenance and future improvements.

Carriage Crest Lift Station Renovations

Estimated Total Cost of Project (All Accounts & Years)

$655,500

Budget Year:	2007	2008	2009	2010	2011
Expense:	$349,845	$305,655			

Project Location: 667 Carriage Drive

Description and Scope of Project:

Complete renovation of the Carriage Crest Lift Station is planned to begin in 2007. Project costs include all design and construction engineering, construction and materials. The project includes: wet-well renovations to support two new submersible pumps, new control panels, back-up generator, generator/control panel enclosure (building) and landscaping.

Justification and Purpose of Project:

The existing Lift Station was constructed in the late 1960's. The original equipment, which is still in operation, is now over 35 years old and has surpassed its estimated and useful life. The pump manufacturer no longer supports the pumps nor inventories replacement parts. The lift station consists of a buried equipment chamber approximately 20 feet below grade with a cylindrical laddered access tube that allows manned entry into the equipment chamber.

As a result of safety and maintenance issues associated with the present Lift Station arrangement, the renovation includes plans to convert the buried structure system into a duplex submersible pump station by utilizing the existing wet well to house two new submersible pumps. The present buried equipment chamber will be abandoned. The new submersible pumps will be designed and constructed to allow installation and removal of the pumps without a manned entry into the wet well.

Future Impact on Operating and Non-Operating Budget:

The impact on the operating budget will be negligible. Any increases that may occur from added maintenance to the new building and generator should be offset by lower maintenance costs caused by the replacement of the old pumps and control panels with new ones. The project will be funded through reserves.

North River Street Parking Garage Expansion

Estimated Total Cost of Project (All Accounts & Years)

$2,010,000

Budget Year:	2007	2008	2009	2010	2011
Expense:	**$250,000**	**$1,760,000**			

Project Location: North River Street and State Street

Description and Scope of Project:

The North River Street Parking Garage will be expanded to have third level and will have access off of Washington Ave. (Rt. 25). The Third level will provide 75 more parking spaces and will be integrated with the surface parking for the Baptist church along Washington Ave. The estimated construction cost of a parking space in a parking garage is $20,000. The total estimated construction cost is 75 spaces at $20,000 = $1,500,000. Included in the structure expansion are improvements to the Baptist Church parking (reconstruction, landscaping, and lighting).

Design Estimate	Fiscal Year	Budgeting Department	Total Cost
Phase 2 Engineering (10%)	2007	Engineering	$250,000
Construction Estimate			
Construction Cost	2008	Engineering	$1,600,000
Phase 3 Engineering	2008	Engineering	$160,000
Total Project Cost			**$2,010,000**

Justification and Purpose of Project:

The purpose of this project is to provide additional parking for the redevelopment areas on the east side of the Fox River.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

This funding for this project has not been established yet. Funding options include TIF or establishment of a Special Service Area or Alternate Revenue Bonds. If Alternate Revenue Bonds are issued, this project may be combined with other projects to make the debt issuance cost effective.

Capital Projects
(Start date 2008 or later)

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Main Street Reconstruction
(Illinois Route 31 to Randall Road)

Estimated Total Cost of Project (All Accounts & Years)

$8,176,000 (City Share $5,676,000)

Budget Year:	2007	2008	2009	2010	2011
Expense:		**$429,380**	**$699,454**	**$299,766**	**$6,747,400**

Project Location: Main Street from IL Route 31 to Randall Road.

Description and Scope of Project:

Main Street will be completely reconstructed. The proposed roadway section will consist of curb and gutter, sidewalk, bike path, storm sewers and bituminous pavement. Phase 1 design engineering is scheduled to begin in 2008 & Phase 2 design engineering and Right-of-Way acquisition will begin in 2009. The City applied for Surface Transportation (STP) Funding for this project and has received notice that the City will receive $2,500,000. Depending on the funding schedule, construction could begin in 2011. The total project length is 7,725LF.

Design Estimate	Total Cost	STP Funds (75%)	City of Batavia (25%)
Phase 1 Engineering (7%)	$429,380	n/a	$429,380
Phase 2 Engineering (8%)	$490,720	n/a	$490,720
Phase 3 Engineering (10%)	$613,400	n/a	$613,400
Right-of-Way	$508,500	n/a	$508,500
Construction Estimate			
Construction Cost - Roadway	$6,134,000	$2,500,000	$3,634,000
Total Project Cost	**$8,176,000**	**$2,500,000**	**$5,676,000**

Justification and Purpose of Project:

Due to the existing poor condition of Main Street, it needs to be reconstructed. The overall project cost is $8,176,000, with the City of Batavia participation of $5,676,000. The funding level for STP funds of $2,500,000 was a benefit to Batavia since the cap on funding for all projects by the Kane/Kendall Council of Mayors is $3,500,000.

Future Impact on Operating and Non-Operating Budget:

Bonds will need to be issued to fund the City's share of this project. The impact on the operating budget will be high with estimated annual debt service payments of $450,000. The impact will be greater if STP funds do not cover the entire amount projected.

Total Budget Impact:	**$450,0000**

Wilson Street Interconnect

Estimated Total Cost of Project (All Accounts & Years)

$ 1,430,692.00

Budget Year:	2007	2008	2009	2010	2011
Expense:		**$187,580**	**$1,243,112**		

Project Location: Wilson Street – Prairie Street to Rt. 31 and Main Street – Rt. 31 to Main St.

Description and Scope of Project:

The current Wilson Street traffic signal interconnect is from Rt 25 to Island Ave. It will be extended along Wilson St from Rt. 25 to Prairie St on the east and Island Ave. to Rt. 31 and the West. It will then be extended along Rt. 31 to Main Street. The project is anticipated to be funded by the Illinois Department of Transportation (IDOT). However, the funds, which are programmed in the Highway Improvement Program for the improvement of Rt. 25 and Rt. 31 intersections will not be available until 2010. Some type of interim financing will be necessary if the project is done in advance of funding.

Design Estimate			
Phase 2 Engineering (15%) 2008			$187,580.00
Phase 3 Engineering (12%)			$149,262.00
Total Engineering Cost			**$336,842.00**
Construction Estimate			
New Traffic Signals (Prairie, Washington, Rt. 25, Shumway, Rt. 31, and Rt. 31 and Main St.)	6 intersections		$750,000.00
Wilson Street and Main Street (wiring for interconnect)	4110.0 LF		$143,850.00
Temporary Traffic Signals	5 intersections		$200,000.00
Total Construction Cost			**$1,093,850.00**
Total Project Cost			**$1,430,692.00**

Justification and Purpose of Project:

The extension of the traffic signal interconnect will link all the traffic signals in the downtown area and place a new signal at Prairie Street and Wilson Street. This will allow traffic to move through the area at a more efficient pace and reduce the amount of congestion. This project meets the City Council's goal of improving traffic in the downtown.

Colonial Village Rebuild (841)

Estimated Total Cost of Project (All Accounts & Years)

$400,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$200,000	$200,000		

Project Location: Entire Colonial Village area.

Description and Scope of Project:

This project will replace all the old poles, wire and transformers. Most of the area has no easements, these will need to be acquired from property owners.

Justification and Purpose of Project:

Many of the poles, wire and transformers are 30 – 50 years old, and have out lived their usefulness.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

Carlisle Road Rebuild (842)

Estimated Total Cost of Project (All Accounts & Years)

$130,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$130,000			

Project Location: Carlise Rd. from Rt. 31 to Hoover.

Description and Scope of Project:

This project will replace the old poles, wire and transformers. Most of the Carlisle Rd. area is overhead, we will be evaluating if any can be installed underground.

Justification and Purpose of Project:

Everything on Carlisle Rd. is very old and in need of repair and replacement.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.

Well #2 Abandonment

Estimated Total Cost of Project (All Accounts & Years)

$250,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$250,000			

Project Location: S. Shumway Ave.

Description and Scope of Project:

Batavia's well #2 pump station (1915), well and reservoir may be ready for abandonment in 2008. The Water Department is in the process of upgrading the treatment facilities, water mains and water towers. Once the improvements are completed, Well #2 can be retired from service.

Justification and Purpose of Project:

The abandonment of Well #2 and related facilities was identified in the Water Department's 2000 Master Plan. Since the Water Dept. will have new facilities in service, it will not be necessary to continue to maintain Well #2. Deep wells #4 and #5, located east of the Fox River, will both be maintained as emergency back-up wells.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

There will be no long-term impact on the operating budget, funding will be from reserves.

Filter Rehabilitation and Painting @ Water Treatment Plant

Estimated Total Cost of Project (All Accounts & Years)

$100,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$100,000			

Project Location: Water Treatment Plant – Fabyan Pkwy.

Description and Scope of Project:

The iron and manganese water filters at Plant 1 at the water treatment plant are in need of painting and rehabilitation. These filters were installed almost fifteen years ago, and they are due for service.

Justification and Purpose of Project:

The filter tanks need to be maintained in order to extend their useful life. Rusting can occur in filters and they have numerous mechanical parts that periodically need maintenance.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since the filters are being rehabilitated. There is some ongoing maintenance with these types of units. This project is anticipated to be funded from the water reserve fund.

Automated Meter Reading

Estimated Total Cost of Project (All Accounts & Years)

$1,500,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$500,000	$500,000	$500,000	

Project Location: Residential, Commercial and Industrial Meter Accounts

Description and Scope of Project:

The Water Utility is in need of updating the meter inventory at most accounts. The utility would like to consider an automated, radio read system for reading the water meters. Staff has interviewed companies interested in providing this service to both the water and electric utilities. It is still being evaluated to determine if the cost to upgrade is justified.

Justification and Purpose of Project:

The purpose of this project is to assure that all of the utilities meters are accurate and being read properly and in a timely manner. There are many side benefits to automating a meter reading system, not the least of which is the better use of the meter reading personnel currently assigned to this duty. The water meters now located throughout town are aging, and will need to be put on a replacement schedule.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be neutral as the increased efficiencies will be offset by the cost of implementation and may take several years to recover. The largest benefit will be in better customer service. It is hoped that once a plan is in place, staff can show that the existing meter readers can be utilized in other positions in the City. The total impact on the operating budget and cost of debt service is unknown at this time. This project may be eligible for Low Interest Loan financing through the IEPA.

N. Batavia Ave Water Main Abandonment

Estimated Total Cost of Project (All Accounts & Years)

$150,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$150,000			

Project Location: 400-600 Blk. of N. Batavia Ave.

Description and Scope of Project:

There are two water mains on Batavia Ave. between North Ave. and Holy Heart of Mary. The original water main is located on the east side of the street and was installed more than 75 years ago. A newer main was installed on the west side of the street in the 1970's. The older main should be abandoned since it is no longer needed.

Justification and Purpose of Project:

The abandonment of the old water main will eliminate any future liability if the old water main were to break and cause any flooding. The old main has broken in the past and is really not needed any more. The services that are connected to the old main need to be augured under Rt. 31 to the newer main on the west side of the street.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

There will be no long-term impact on the operating budget, funding will come from reserves.

Odor Control

Estimated Total Cost of Project (All Accounts & Years)

$650,000

Budget Year:	2007	2008	2009	2009	2010
Expense:		$400,000	$250,000		

Project Location: 400 S. Shumway Ave. (WWTP)

Description and Scope of Project:

The City is currently working with consultants on a detailed Sanitary Sewer Evaluation Study (SSES) to determine the best course of action to take to manage the current odor situation. Some of the items that will likely be added are: Air Scrubbers, tank covers, fans and air handling devices or chemical addition to outlying lift stations.

Justification and Purpose of Project:

As the downtown area continues to develop closer to the WWTP, the need for new odor control technologies/procedures continues to increase.

Future Impact on Operating and Non-Operating Budget:

The Impact on the operating budget should be *negligible* as long as chemical addition is not required. There will be slightly more maintenance and electrical use charge involved.

**Should chemical addition be required, it could have a *high impact* on the operating budget as other comparable communities are spending up to $150,000 per year for the required chemicals.

Randall Road Lift Station Rehab

Estimated Total Cost of Project (All Accounts & Years)

$220,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$220,000			

Project Location: 117 N. Randall Rd.

Description and Scope of Project:

The project will include removal of existing pumps and control panel to be replaced with new pumps, control panel and automatic back-up generator.

Justification and Purpose of Project:

The existing pump station was built in 1987 and will be 20 years old when rehab is scheduled to begin. The pumps are approaching their useful life expectancy and are very close to their maximum pumping capacity given the built out service area they now service.

Future Impact on Operating and Non-Operating Budget:

The rehabilitation project should initially have a positive effect on the operating budget, as it should require fewer man-hours to service the new equipment.

The project will be funded with reserves.

Houston Street Reconstruction

Estimated Total Cost of Project (All Accounts & Years)

$1,000,000

Budget Year:	2007	2008	2009	2010	2011
Expense:		$100,000	$700,000 (Stage I)	$200,000 (Stage II)	

Project Location: Houston Street, Batavia Avenue to Island Avenue.

Description and Scope of Project:

This project calls for complete reconstruction of this 940 foot section of Houston Street, including pavement, base, curb and gutter, and sidewalks. This project will include some revisions to on-street parking and pavement markings. Some driveway closures and relocations will be required. Stage I of the project will be construction from Water Street to Island Avenue (520 feet). Stage II of the project will be construction from Batavia Avenue to Water Street (420 feet). The $100,000 in 2008 is for Phase 2 engineering for both stages of the project.

Justification and Purpose of Project:

A portion of Houston Street, east of Water Street was constructed over a branch of the Fox River that was filled in the 1960's with material of unknown content and bearing capacity, which may account for the present widespread, uneven settlement of the pavement. Subsurface investigations and extensive replacement of this material may be required. Stage II of this project is dependent on resolution and completion of the environmental remediation of the area east of Batavia Avenue.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget is expected to be negligible for the additional maintenance needs for this section of Houston Street and any appurtenant structures added to the street infrastructure.

Funding for the project is yet to be determined. Funding options include street/MFT funds or the issuance of debt. The Engineering Department is evaluating all street projects to determine if a bond issue is the appropriate avenue to complete necessary street construction projects.

Houston Street Enhancements

Estimated Total Cost of Project (All Accounts & Years)

$ 215,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			$15,000	$200,000	

Project Location: Houston Street, Batavia Avenue to Island Avenue.

Description and Scope of Project:

Design and construction of concrete, brick, and paver sidewalks and crosswalks, pedestrian corner "bump-outs", trees and sidewalk planters, pedestrian street lights, decorative street signs, bollards, benches, and decorative trash/recycling containers.

Justification and Purpose of Project:

This is a portion of the overall downtown revitalization program. This project focuses on improving and beautifying this section of Houston Street following the street reconstruction project. The investment in public improvements will be repaid by corresponding private investment in the restoration of existing buildings, redevelopment of underutilized land, and new development on vacant property throughout the downtown area. The improvements are called for in existing plans, including the Downtown Batavia Master Plan and redevelopment plans for the downtown.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget is expected to be negligible for the additional maintenance needs for the enhancements added to the streetscape. The project may be funded through TIF Funds.

Houston St. Water Main Replacement

Estimated Total Cost of Project (All Accounts & Years)

$410,000

Budget Year:	2006	2007	2008	2009	2010
Expense:				$410,000	

Project Location: Houston St. between Batavia Ave. & Island Ave. then south to Wilson

Description and Scope of Project:

As part of the Water Utility's ongoing effort to replace aging water mains, the Houston St. water main is proposed to be replaced. The project will involve replacing the water main and services.

Justification and Purpose of Project:

This section of water main is in poor condition and is prone to failure. There are currently two mains on the Houston Street hill. There are also issues to be resolved with the possible underground contamination in the vicinity. It may be possible to increase the size of the water main to improve fire flows. The proposed new main should be run through the system model to determine the replacement main size.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since the water main will be a replacement. This project is anticipated to be funded from the water reserve fund.

Fabyan Parkway Relief Storm Sewer

Estimated Total Cost of Project (All Accounts & Years)

$ 250,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			$250,000		

Project Location: Batavia Highlands, near the intersection of Fabyan Parkway and Surrey Road

Description and Scope of Project:

This project will consist of the engineering analysis, design, and construction of a new or additional storm sewer or culvert under Fabyan Parkway to improve drainage and reduce the potential for flooding in the Batavia Highlands subdivision.

Justification and Purpose of Project:

Prior to development, the project area was drained by a natural stream that flowed northwest across Fabyan Parkway and into the Fox River near the Fabyan Forest Preserve property. As part of the development of the Batavia Highlands subdivision, the portion of this stream south of Fabyan Parkway was replaced with a storm sewer. Later development south of the Highlands resulted in an increase in stormwater runoff draining to this storm sewer. This project will alleviate accumulation of excess storm water.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget is expected to be negligible for the additional maintenance needs for this storm sewer and any appurtenant other drainage structures added to the current infrastructure. The project will be funded through reserves.

Bulk Salt Storage Facility @ Water Treatment Plant

Estimated Total Cost of Project (All Accounts & Years)

$100,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			$100,000		

Project Location: Water Treatment Plant – Fabyan Pkwy.

Description and Scope of Project:

The Water Dept. is considering the addition of a bulk salt storage facility for use in the generation of chlorine for water treatment. The bulk storage facility was originally designed into the new water treatment plant, but was removed form the initial bid because of cost considerations. The water department will present to the Public Utilities Committee options for the storage of salt in 2006.

Justification and Purpose of Project:

The addition of a bulk salt storage facility will save the City money in the long-term. Bulk deliveries are usually a minimum of 20-22 tons per load.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since the filters are being rehabilitated. There is some ongoing maintenance with these types of units. This project is anticipated to be funded from the water reserve fund.

Pine St./Raddant Rd. System Extension (825)

Estimated Total Cost of Project (All Accounts & Years)

$175,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			$175,000		

Project Location: The project starts at Pine St. & Raddant Rd., then continues south to Wind Energy Pass then East to Kirk Rd.

Description and Scope of Project:

New 500MCM wire will be installed along with new underground switches that will greatly increase capacity and reliability to the South East side of town.

Justification and Purpose of Project:

With all the new development on the South East side of town, an additional feeder (circuit) will relieve existing circuits and support new loads.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

Existing cash reserves will fund this project.

Shumway Ave. Water Main Replacement

Estimated Total Cost of Project (All Accounts & Years)

$275,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			$275,000		

Project Location: Shumway Ave., between First St. and Wilson St.

Description and Scope of Project:

As part of the Wilson Street reconstruction process, a new water main will be installed in the street on Shumway Ave. and across Wilson St. The new main will replace water main that is in excess of 75 years old and located in the roadway. The new main will be increased to twelve inch diameter.

Justification and Purpose of Project:

The purpose of this project is to assure that the water main located beneath the road surface will last as long as the new road improvements. The new main will also improve fire flows in the area.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since this is a water main replacement project. Funding will be from water reserves.

Installation of Sludge De-Watering Centrifuge

Estimated Total Cost of Project (All Accounts & Years)

$500,000

Budget Year:	2007	2008	2009	2010	2011
Expense:			**$500,000**		

Project Location: 400 S. Shumway Ave. (WWTP)

Description and Scope of Project:

The centrifuge will replace the existing Belt Filter Press (BFP) in the sludge handling building, which was installed in 1990.

Justification and Purpose of Project:

The existing (BFP), as well as the centrifuge, is used to separate water from the treated sludge before it's disposal. The existing (BFP) removes around 12% of the water from the sludge, whereas, the centrifuge will remove anywhere from 23%-25%. The end result will reduce the volume of treated sludge leaving the WWTP and result in far fewer trips to the landfill.

Future Impact on Operating and Non-Operating Budget:

The replacement of the existing (BFP) with a centrifuge will be a *positive* effect to the operating budget as the results should be 30% - 40% fewer long-distance trips to the landfill. The centrifuge will also be much more automated than the existing (BFP), which will free up additional time for the staff responsible for that operation. The positive effect on the operating budget will probably not be realized in 2009, however it could provide an annual cost savings of $25,000 - $35,000 from that point forward. The project will be funded through reserves.

Batavia Creek Floodplain Mapping

Estimated Total Cost of Project (All Accounts & Years)

$ 100,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$100,000	

Project Location: Southeast quadrant of the City

Description and Scope of Project:

Batavia Creek is a small, intermittent stream on the east side of the City that is a tributary of the Fox River. The creek begins near the intersection of Davey Drive and Norcross Drive and flows generally west to its confluence with the Fox River just south of the Illinois Prairie Path. Batavia Creek is located entirely within the City's municipal boundaries; draining the residential and industrial areas east of Illinois Route 25 Road along the Illinois Prairie Path. The Batavia Creek watershed is slightly over one square mile in area.

The purpose of this project is to develop baseline floodplain mapping for Batavia Creek based on current land use conditions and using current regulatory standards and engineering methodology.

Justification and Purpose of Project:

In 1981, the Federal Emergency Management Agency (FEMA) published the initial Flood Insurance Study (FIS) for the City of Batavia. The FIS study did not include floodplain mapping for Batavia Creek because of the relatively small size of the watershed.

The result is that the City has had no accurate and effective regulatory tool for evaluating recent development projects along the creek. Because the watershed is almost fully urbanized, the new floodplain mapping is expected to be accurate for the foreseeable future.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible. This project will define current floodplain conditions along the Batavia Creek corridor. Accordingly, future CIP projects may be identified as an outcome of the study results.

Mahoney Creek Floodplain Mapping Revisions

Estimated Total Cost of Project (All Accounts & Years)

$120,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$120,000	

Project Location: Northeast quadrant of the City

Description and Scope of Project:

Mahoney Creek, a small, intermittent stream within the City is a tributary of the Fox River. The creek begins just southeast of the intersection of Kirk Road and Fabyan Parkway and flows generally southwest to its confluence with the Fox River just south of downtown Batavia. It provides drainage for a large portion of the industrial area east of Kirk Road and a large section of the residential area west of Kirk Road. The Mahoney Creek watershed is approximately 2.39 square miles in area.

The scope of the project is to update the floodplain mapping that was initially completed 25 years ago. The updated mapping will be based on current land use conditions within the watershed and use current regulatory standards and engineering methodology.

Justification and Purpose of Project:

The Federal Emergency Management Agency (FEMA) published Batavia's Flood Insurance Study (FIS) in 1981, which included a detailed mapping of the Mahoney Creek floodplain from its confluence with the Fox River to a point just northwest of Wilson St. and Kirk Rd. The study did not include floodplain mapping for the headwaters portion of Mahoney Creek in the industrial park or mapping for the tributary that flows through the existing residential area along Wintergreen Terrace.

The engineering studies for the FIS, were based on the land use in the watershed in the late 1970's, which has changed significantly since then. Additionally, the engineering methods and models used for the study were more limited than those available now.

Taken together, the age of the FIS floodplain mapping, the large areas omitted from the original study, and the changes to watershed, the City is utilizing outdated, incomplete, and obsolete regulatory standards for evaluating current projects along Mahoney Creek. Because the watershed is almost fully urbanized, an updated floodplain map would provide an accurate and effective tool.

Future Impact on Operating and Non-Operating Budget:

(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible. This project will define current conditions that exacerbate flooding along the Mahoney Creek corridor. Accordingly, future CIP projects may be identified as an outcome of the study results.

Replacement of 1991 Pierce Lance Pumper

Estimated Total Cost of Project (All Accounts & Years)

$650,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$650,000	

Project Location: 800 East Wilson Street

Description and Scope of Project:

Replacement of a 1991 Pierce 1500 gallons per minute pumper. Replacement is based on the age of the vehicle, the excessive mileage on the vehicle, and the excessive wear on the entire vehicle. The projected cost includes the vehicle and all required NFPA 1901 basic equipment.

Justification and Purpose of Project:

This unit is a first out, front line piece of apparatus. The 2006 road miles are 113,620 with 10,500 engine hours, which is the equivalent to 367,500 road miles. The fire pump has 2,119 hours of actual pumping time. The engine and transmission are reaching a point where they may need to be overhauled if plans include keeping the vehicle for a longer period.

This engine is beginning to show signs of excessive wear. The engine, transmission and fire pump combination is critical. These are the vital parts of the vehicle and if not working in harmony, will render the vehicle inoperable. There is also an issue of rust and how it is delaminating the frame rails. The issue with the frame rails is probably the most important. We will be steam cleaning the frame rails later this spring to investigate the rust and delaminating problem. After the steam cleaning, we will be able to determine the condition of the frame and other areas under the vehicle

Older vehicles are more difficult to find the parts to make repairs. Some of the most common parts have not been made for years due to demand or design change. Each piece of fire equipment is unique to the date and time of the manufacture.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The replacement of the 1991 Pierce Lance Pumper will have a positive impact on operating funds. A new vehicle will have less maintenance costs on large repairs; i.e. brakes, springs, engine, fire pump and transmission. Routine maintenance costs will remain about the same. Replacement in 2010 will be dependent on revenues in the capital development fund.

Well # 4 Motor Control Center

Estimated Total Cost of Project (All Accounts & Years)

$250,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$250,000	

Project Location: E. Wilson St. at Well #4 Well House.

Description and Scope of Project:

The motor control center at Well #4 is very old and in need of replacement. The motor control center is part of the electrical controls that operate the well. The existing control was upgraded during the 1970's and is not as reliable as modern controls.

Justification and Purpose of Project:

The purpose of this project is to assure that the electrical components that operate this well are modern and in good working condition. The motor control center is an important piece of equipment. The motor control center operates the well and protects the submersible motor if any electrical problems were to occur.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since this is a water main replacement project. Funding will be from water reserves.

Well # 4 Reservoir Rehabilitation

Estimated Total Cost of Project (All Accounts & Years)

$250,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$250,000	

Project Location: E. Wilson St. at Well #4 Well House.

Description and Scope of Project:

The water reservoir at Well #4 is in need of rehabilitation or replacement. The reservoir holds 100,000 gallons of water and is over fifty years old. It is a concrete tank that is susceptible to scaling and leakage.

Justification and Purpose of Project:

The purpose of this project is to assure that the water reservoir is structurally sound and free from significant defects. The water supply system relies on the water storage reservoirs for our daily supply of water.

Future Impact on Operating and Non-Operating Budget:
(Recurring costs and expected annual debt service; Discussion of annual savings from new efficiencies or conversely anticipated rate increases or revenue sources proposed)

The impact on the operating budget will be negligible since this is a water main replacement project The project will be funded with reserves.

34.5kV Upgrades on Western Ave. and Fabyan Parkway

Estimated Total Cost of Project (All Accounts & Years)

$500,000

Budget Year:	2007	2008	2009	2010	2011
Expense:				$500,000	

Project Location: Project originates at the McKee street substation and ends near the existing river crossing between the river and Rt. 31.

Description and Scope of Project:

This project will provide for upgrades to the aging sections of the 34.5 kV distribution system. Plans include replacement of existing poles and installation of underground wire in some areas.

Justification and Purpose of Project:

The poles in question are 30 to 40 years old and will be in need of replacement. When this project is in the beginning stages it will be determined if it is economically feasible to install part and/or all underground.

Future Impact on Operating and Non-Operating Budget:

Funding will be from reserves.