

# CAPITAL IMPROVEMENT PLAN



FY 2017-FY 2021

## Table of Contents

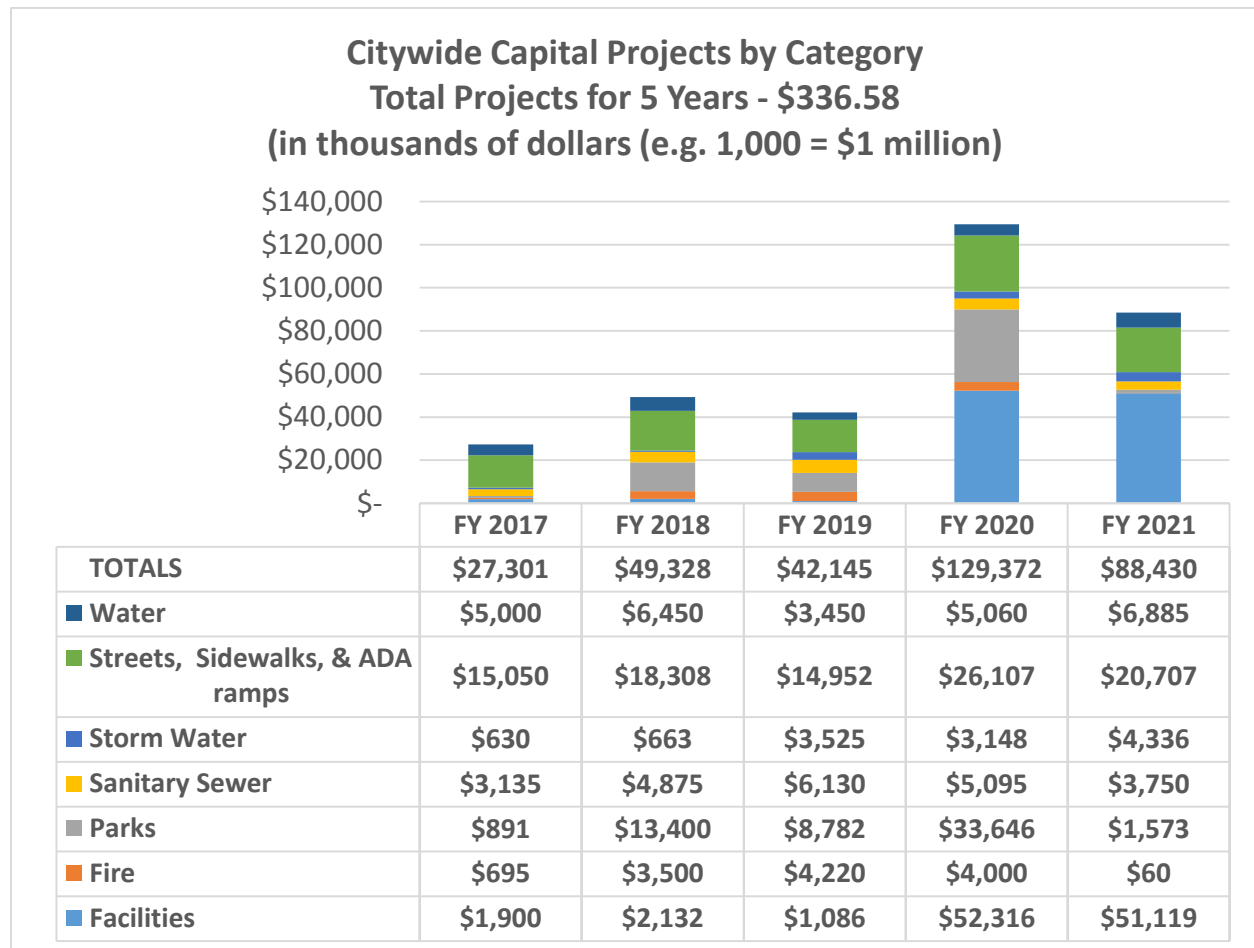
	<b>Page</b>
<b>Executive Summary</b>	<i>(page #s to be included in final draft)</i>
<b>Reader's Guide</b>	
Capital Improvement Plan (CIP) Definition	
Capital Projects Definition	
Document Structure	
CIP Development & Review Process	
Project Priorities	
Funding Sources & Restrictions	
Summary of Prior Plans	
<b>Facilities</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Fire</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Parks</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Sanitary Sewer</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Storm Water</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Streets &amp; Sidewalk</b>	
Overview	
Funding Table	
Project Sheets <i>(to be included in final draft)</i>	
<b>Water</b>	
Overview	

Funding Table  
Project Sheets *(to be included in final draft)*

DRAFT

## Executive Summary

The City of Bloomington’s Capital Improvement Plan (CIP) illustrates the City’s capital needs over a five-year period based on various Master Plans, goals and community expectations. Capital projects are generally large-scale in nature and include items such as facility construction and expansion, major equipment purchases and significant maintenance and repair. The Fiscal Year (FY) 2017-2021 CIP totals approximately \$336.58 M, with \$59.90 M in projects with funding secured and \$276.68 M in projects with funding not secured.



The principal goals of the CIP are to:

- Provide a balanced strategy for capital improvements given anticipated resources
- Preserve/enhance existing facilities and infrastructure while providing new assets for community growth
- Illustrate currently unmet capital needs

It is worth noting that much of the financial data included in the CIP is preliminary in nature and could change based on a variety of factors. Also, the CIP excludes potential costs that could be associated with key economic development projects, which could be substantial.

## **CIP Development & Review**

The FY 2017-2021 Capital Improvement Plan is the first of its kind for the City of Bloomington. Many of the City's capital project priorities are driven by needs identified in various Master Plans, often greatly influenced by critical deferred maintenance items. The City has an estimated \$337 M in capital and maintenance needs over the next five years including facilities, streets, sidewalks, bicycles, ADA facilities and improvements, sewer, storm water, water and parks combined. Preventative care for capital maintenance can save both time and money in the long run. Some capital projects repaired on an emergency basis have been estimated to cost 40% more. Emergency repairs cannot be planned, bid or scheduled at a fortuitous time or with cheaper materials.

Staff created the CIP including both funded and unfunded projects in an effort to express the City's full need. Ultimately, the CIP is a working and dynamic document. The development of a CIP aims to put the City in a more proactive stance than ever before.

## **Funding**

The City's funding options for capital projects are either cash ("pay-as-you-go") or debt financing, or a combination of both. Interest rates are still at historic lows making now an attractive time to issue debt.

Utility debt funded with user fees does not factor into debt ratios. Other areas not funded by user fees should be funded through general taxation or by creating a dedicated revenue stream.

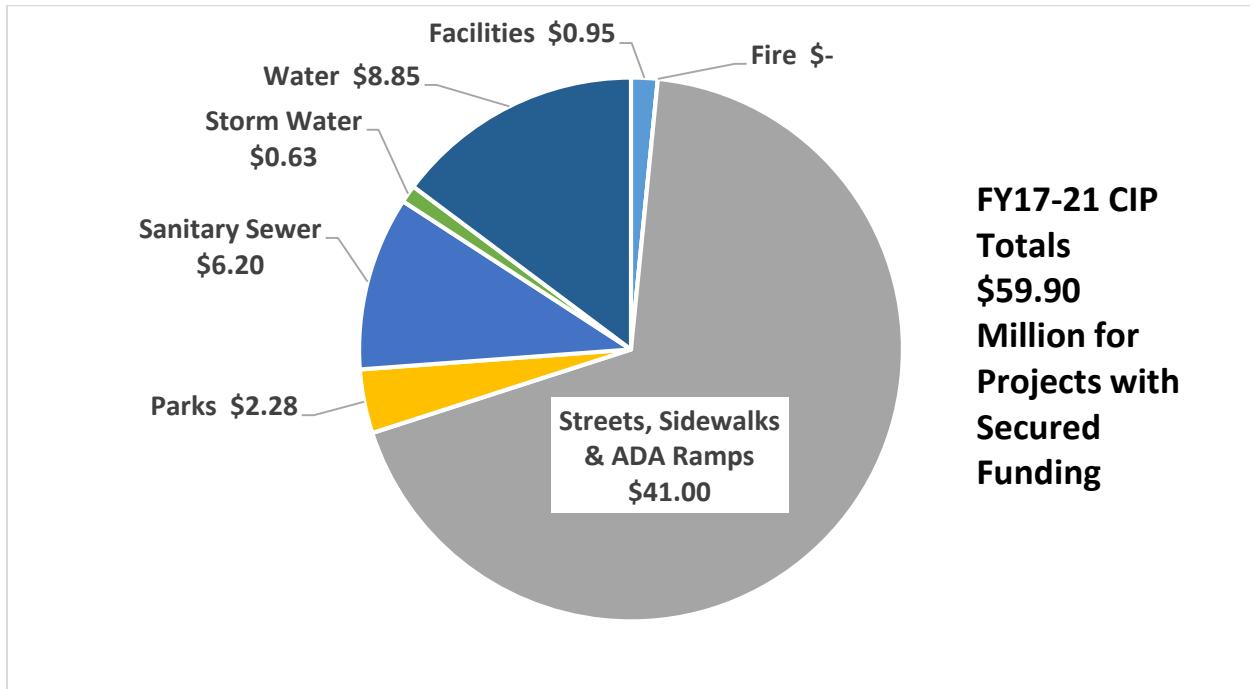
Street resurfacing and ADA have dedicated revenues of approximately \$4.8 M per year, though annual street maintenance needs are estimated at \$10 M.

Rate studies provide possible funding options for Sewer, Storm Water and Water capital needs. Sewer and Storm have rate recommendations already completed. Water will require a rate study after or simultaneously with their Master Planning.

Facilities including Fire stations and Parks have no dedicated source of revenue and should be considered through general taxation via sales, property tax or other viable general tax. A dedicated source of revenue could be developed for any plan area.

Another funding option could be to utilize debt service savings to issue new debt or cap annual debt service at current levels and issue debt as needed without going over the current amount.

**Projects with Secured Funding**

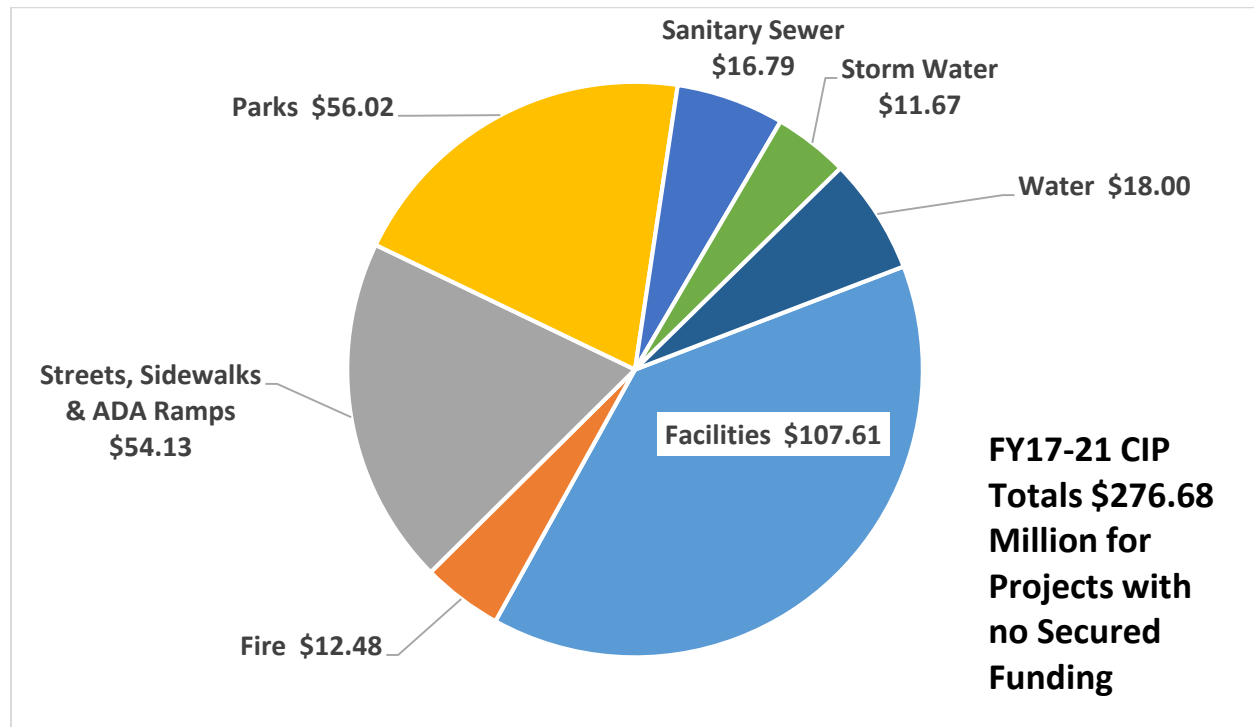


Projects with funding secured in this CIP total approximately \$59.90 M. Street resurfacing is the largest portion of the secured funding with \$41.00 M. This is due to the Home Rule sales tax increase, of which .25% is earmarked for this program, and the implementation of a Local Motor Fuel tax. This results in approximately \$4.8 M in funding each year. This includes funding from the State Motor Fuel Tax. This tax is distributed by the State and is approximately \$1.8 M per year. This fund has been accumulating some Fund Balance to prepare for a few major projects in the future.

Sanitary Sewer and Water have fairly steady streams of revenue that allow for projects to move forward each year. Water has the charges for service on the utility bills. This fluctuates at times based on weather and other factors but is around \$14-\$15 M per year. Water is also preparing for several large projects involving distribution and water supply. Sanitary Sewer also receives charges for services on the utility bill totaling approximately \$5 M per year. Sanitary Sewer works many of the same capital projects as Storm Water, but the Storm Water Fund is almost depleted as the last rate increase was in 2004. Storm receives about \$2.75 M per year in rate fees on the utility bill.

Parks, Facilities and Fire all depend on the General Fund for their primary source of revenue for capital projects. Currently Parks has \$2.28 M funded, and some of that is through grants, private foundations or mandated projects due to Intergovernmental Agreements (IGAs). Facilities has a very minor \$0.9 M in secured funding and Fire has no secured funding.

### Projects with Funding Not Secured



Projects with funding not secured in this CIP total approximately \$276.68 M. Facilities is the largest portion of the not secured funding with \$107.61 M. This is a reflection of the many capital project needs that have been deferred due to financial difficulties. Only the most critical or emergency projects were done for a period of time. The buildings are beginning to have numerous problems associated with lack of regular maintenance, such as the City Hall leaking roof, Police Department windows that leak and many other problems that have arisen over the past few years.

State Motor Fuel tax is the next largest unfunded area for capital projects. This is mainly due to the need to move forward on the construction of the Hamilton Road Bunn-Commerce which is estimated to cost \$10 M. There are many other bridge replacements, traffic lights and street projects in the future years.

Sanitary Sewer, Storm Water and Water all have unfunded needs of \$12-\$18 M. The current rate fees are not sufficient to cover all the upcoming projects, leaving the City's infrastructure vulnerable.

Parks, Fire and Street Resurfacing all have unfunded needs that must be paid for by the General Fund. Parks has the largest of these three of unfunded capital projects at \$56.02 M. This includes the building of a new recreation center and pool. The current Lincoln Leisure Center and both of the City pools are past their useful lives. The Fire department has brought forward the need to improve response times. One of the major projects in the future will be the building of a northeast station to address some of the response time issues.

## Debt Capacity

Debt management and capacity are developed by capital needs and the resources available to service those needs. A multiyear capital plan expressing capital needs coupled with disciplined project prioritization should be continuously reviewed within the current and future debt framework. The right level of debt and affordability is a fine tuning process. Pay-as-you-go and long term debt financing go hand and hand.

Deferred capital maintenance repairs drain current resources when surprise or emergency repairs take place and are regarded as a poor management and cash flow strategy by credit rating agencies. The City's ability to issue affordable debt depends on the City's credit rating. Bloomington is a solid "aa" community at all three credit rating agencies.

Cities with good credit ratings have a better market for their debt and have competing bidders whereby reducing the interest payments due to investors. The City has participated in competitive sales over the last four years for its bond market transactions, achieving the best available interest rate at the time in the market.

The City could potentially issue \$40-\$50 M in debt if the city maintained 2016 debt service levels depending on 20 or 25 year bond amortization.

According to the FY 2015 Comprehensive Annual Financial Report (CAFR) the City had:

- \$75.4 M in outstanding General Obligation Bonds (GOB)
  - \$22.1 M in Illinois Environmental Protection Loans (IEPA)
  - \$8.6 M in outstanding capital lease principal (includes PBC leases)
- 
- \$106.1 M total

## Bond Debt Per Capita

	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
<b>Springfield</b>					
Population	117,096	116,250	116,250	117,006	117,000
Total Bond Debt	\$32,163,900	\$25,570,978	\$21,679,501	\$42,365,041	\$68,416,346
<i>Debt per Capita</i>	<b>\$275</b>	<b>\$220</b>	<b>\$186</b>	<b>\$362</b>	<b>\$585</b>
<b>Bloomington</b>					
Population	76,610	76,610	77,071	77,733	77,733
Total Bond Debt	\$73,055,000	\$79,060,605	\$75,663,324	\$80,070,175	\$74,977,100
<i>Debt per Capita</i>	<b>\$954</b>	<b>\$1,032</b>	<b>\$982</b>	<b>\$1,030</b>	<b>\$965</b>
<b>Champaign</b>					
Population	81,055	81,055	82,517	83,424	83,424



	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Total Bond Debt	\$77,435,000	\$74,840,000	\$71,780,000	\$68,400,000	\$64,500,000
<i>Debt per Capita</i>	<b>\$955</b>	<b>\$923</b>	<b>\$870</b>	<b>\$820</b>	<b>\$773</b>
<b>Decatur</b>					
Population	76,122	76,122	76,122	76,122	76,122
Total Bond Debt	\$85,102,316	\$81,822,528	\$79,221,881	\$96,263,756	\$110,860,000
<i>Debt per Capita</i>	<b>\$1,118</b>	<b>\$1,075</b>	<b>\$1,041</b>	<b>\$1,265</b>	<b>\$1,456</b>
<b>Normal</b>					
Population	52,497	52,757	52,972	52,497	52,497
Total Bond Debt	\$86,400,000	\$85,150,000	\$84,220,000	\$82,605,000	\$90,075,000
<i>Debt per Capita</i>	<b>\$1,646</b>	<b>\$1,614</b>	<b>\$1,590</b>	<b>\$1,574</b>	<b>\$1,716</b>
<b>Peoria *</b>					
Population	115,007	115,007	115,007	115,007	N/A
Total Bond Debt	\$207,450,000	\$203,270,000	\$239,220,000	\$188,700,000	N/A
<i>Debt per Capita</i>	<b>\$1,804</b>	<b>\$1,767</b>	<b>\$2,080</b>	<b>\$1,641</b>	N/A

\*Peoria has a December 31<sup>st</sup> year end and will not have fiscal year 2015 information available until July 2016.

As a home rule unit of government in Illinois, the City has no legal debt limit.

## Reader's Guide

### Capital Improvement Plan Definition

The City of Bloomington's Capital Improvement Plan (CIP) illustrates the City's capital needs over a five-year period based on various Master Plans, goals and community expectations.

### Capital Projects Definition

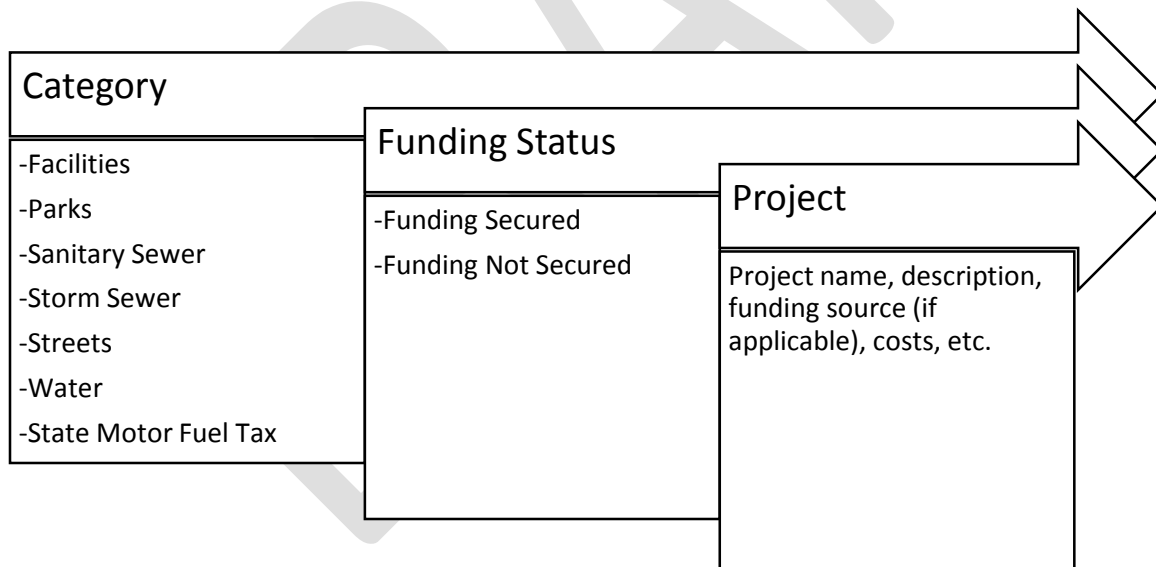
A capital project creates, improves, replaces, repairs or maintains a fixed asset. This includes property acquisition and facility construction, rehabilitation, reconstruction and renovation.

Fixed assets include land, site improvements, buildings, streets, shared-use paths, bridges and infrastructure.

Capital projects are generally large-scale in terms of cost, size and community benefit and do not duplicate normal maintenance.

### Document Structure

Projects in the CIP are arranged as follows:



### The CIP Development & Review Process

The FY 2017-2021 Capital Improvement Plan is the first of its kind for the City of Bloomington. Many of the City's capital project priorities are driven by needs identified in various Master Plans, often greatly influenced by critical deferred maintenance items. Staff created the CIP including both funded and unfunded projects in an effort to express the City's full need.

Ultimately, the CIP is a dynamic and working document. The development of a CIP aims to put the City in a more proactive stance than ever before.

### **Qualifying Criteria**

Capital projects must meet at least one of the following to be included in the CIP:

- Contribute to the development or implementation of Council-adopted plans and policies
- Address health and safety needs or improve access to City facilities for those with disabilities
- Maintain existing assets or improve operations
- Improve revenue potential or enhance existing programs

### **Project Priorities**

Potential capital projects and their priority are derived from a number of sources, including:

- Master Plans: Many of the City's capital project priorities are driven by needs identified in various Master Plans, *often greatly influenced by critical deferred maintenance items*
- Requests from citizens, neighborhood associations and community organizations
- Requests from other governmental agencies
- City departments
- City committees and commissions

### **Funding Sources & Restrictions**

#### **General Capital Projects Funds**

This fund provides for the use of a capital project fund to account for the financial resources to be used for the acquisition and construction of major capital facilities other than those financed through enterprise and trust funds. These include primarily building improvements, land improvements and infrastructure. Revenues come from the General Fund, grants, private donations and bond proceeds.

Restrictions: All bond proceeds are subject to the terms of the bond, and grants usually have their own restrictions within the agreement.

#### **State Motor Fuel Tax (MFT) Fund**

This fund is provided through the state and has very strict documentation. Each time gasoline is purchased in Illinois, a portion of the sales tax goes to the state and is distributed to municipalities.

Restrictions: MFT funds can be used for the following items:

- Construction and maintenance of any municipal street designated as a part of the federal aid primary or urban system of streets
- Construction and maintenance of municipal streets and alleys as may be designated by the corporate authorities and approved by the Illinois Department of Transportation (IDOT)
- Construction, maintenance or repair of sidewalks in the municipality
- The payment of engineering costs in connection with the work described

### **Local Motor Fuel Tax (LMFT)**

This fund is to provide revenue for the Street Resurfacing program. The LMFT is a four-cent (\$0.04) per gallon tax on all gasoline and diesel products sold within the City.

Restrictions: City code provides that this money will only be used for the Street Resurfacing program.

### **Home Rule Sales Tax**

The City increased this tax in January 2016 by 1%. This resulted in about \$9.6 M more in revenues for the City.

Restrictions: City ordinance mandates that .25% of the 1% increase goes to fund the Street Resurfacing program.

### **Water Fund**

This fund uses charges for services for providing water as their revenue source to fund operating and capital project expenditures.

Restrictions: City ordinance states that all charges for services revenue must be used for operating and capital expenditures benefiting the Water department only.

### **Sanitary Sewer Fund**

This fund uses the charges for service to pay for operating and capital project expenses related to the sanitary sewer. Charges for service include a monthly service charge of \$1.50 plus a charge based on water usage. The charge based on water usage is \$0.85 per hundred cubic feet of water used.

Restrictions: City ordinance states that all revenues must be kept separate from all other funds.

### **Storm Water Fund**

The Storm Water Utility Fee is used to provide for the management, protection, control, regulation, use and enhancement of the storm water systems and to facilities owned or operated by the City of Bloomington. It is also used for implementing the EPA water quality regulations. The basis of the charges is shown in following table.

Storm Water Utility Rates for Bloomington IL	
<b>Single-Family, Duplexes</b>	
Small Parcels (gross area less than or equal to 7,000 sq. ft.)	\$2.90/month
Medium Parcels (gross area greater than 7,000 sq. ft. and less than or equal to 12,000 sq. ft.)	\$4.35/month
Large Parcels (gross area over 12,000 sq. ft.)	\$7.25/month
<b>Parcels other than Single-Family, Duplexes</b>	
Base charge per Impervious Area Unit (IAU)	\$1.45/month
Parcels less than or equal to 4,000 sq. ft. shall be charged a flat rate equivalent to 4 IAUs.	\$5.80/month
Parcels greater than 4,000 sq. ft. will be charged for the actual number of IAUs within the parcel, OR 4 IAUs, whichever is greater.	

Restrictions: City ordinance states that all revenues must be kept separate from all other funds.

**Summary of Prior Plans**

The following is a list of plans and reports from which the majority of current CIP projects have been compiled: <List of Master Plans to be completed>

Document	Adopted by City Council

## **Facilities**

### **Overview**

The Facilities portion of the FY 2017-FY 2021 CIP captures Facilities-related capital projects not otherwise included in other areas of the CIP. For example, while the City's Facilities division has operational obligations to the Pepsi Ice Center, the Pepsi Ice Center's capital projects are included as part of the Parks portion of the CIP. Additionally, while the Fire department has several facilities (fire stations), Fire has its own section of the CIP.

The Faithful and Gould Facility Condition Assessment Summary, adopted by the City Council in 2015, is a primary driver to help identify Facilities capital projects. The Faithful and Gould study identified \$33 M in unmet facility needs, many of those costly repairs are a result of deferred maintenance, and 3% related to life-safety concerns.

These projects are essential for City facilities to continue to function in an effective, safe and cost-efficient manner.

### **Project Categories**

Facilities capital projects fall into one of the following categories:

#### Facilities Maintenance

General maintenance for City Hall, Police Administration, Records Storage, Old Engineering, the Public Works Garage, Public Works Fleet and the Public Works Salt Dome are included in the operational budget. However; large expenses, such as renovations, roof replacement and HVAC upgrades, are considered capital projects. Planning, design and construction of new buildings or demolition of old buildings are also capital projects.

#### Coliseum Maintenance

General maintenance of the Coliseum is included in the operational budget. Large expenses, such as renovations, roof replacement and HVAC upgrades, are considered capital projects.

#### Parking Operations

Parking Operations includes the Market Street Parking Garage, Pepsi Ice Center Parking Garage and the Major Butler Lot. Similar to Facilities and Coliseum Maintenance, general maintenance is included in the operational budget. Structural repairs, access control equipment replacement and other large expenses are considered capital projects. Planning, design and construction of new parking facilities are also potential capital projects.

#### Abraham Lincoln Parking Garage

The Abraham Lincoln Parking Garage is currently owned by the Public Building Commission and leased by the City of Bloomington and Mclean County. The lease agreement ends in December 2034, at which time the garage will be jointly-owned by the City and County. The lease agreement requires the City to operate and maintain the garage. As indicated in the other categories, general maintenance is included in the operational budget. Structural repairs, access control equipment replacement and other large expenses are considered capital projects.

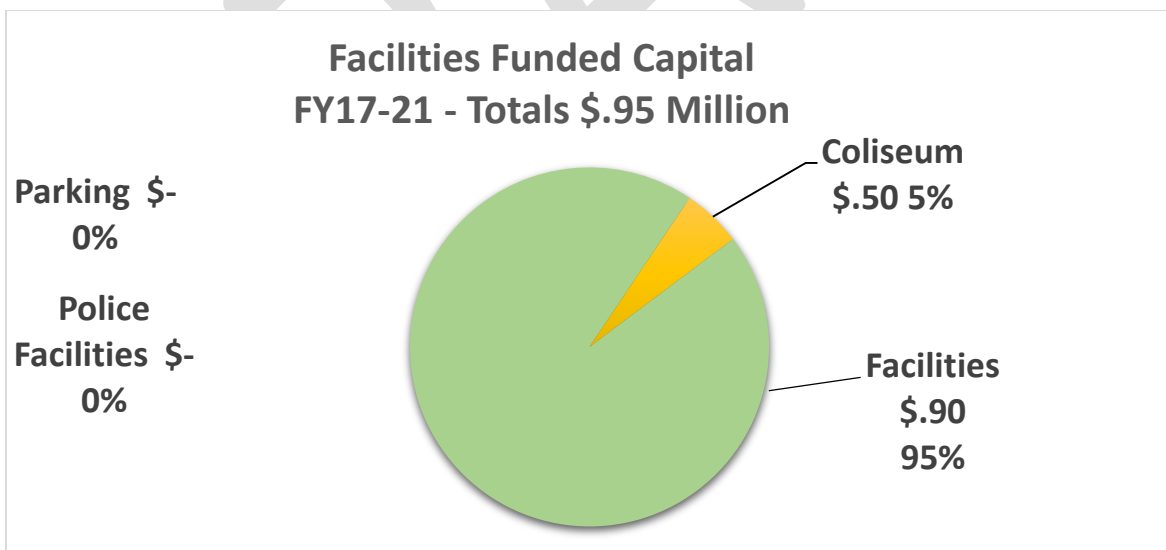
### Funding Outlook

Facilities capital projects are primarily funded by the General Fund. Grants can be a source of funding, though they are unreliable and typically limited to new construction or energy savings initiatives.

Parking Operations and Abraham Lincoln Parking Garage capital projects are funded with the Capital, Capital Lease or General Funds. The operational and general maintenance expenses often exceed revenues for both Parking Operations and Abraham Lincoln Parking. Parking Operations has seen decreased revenues and increased maintenance and repairs since FY 2005, and the losses are absorbed by the General Fund.

### Funding Secured

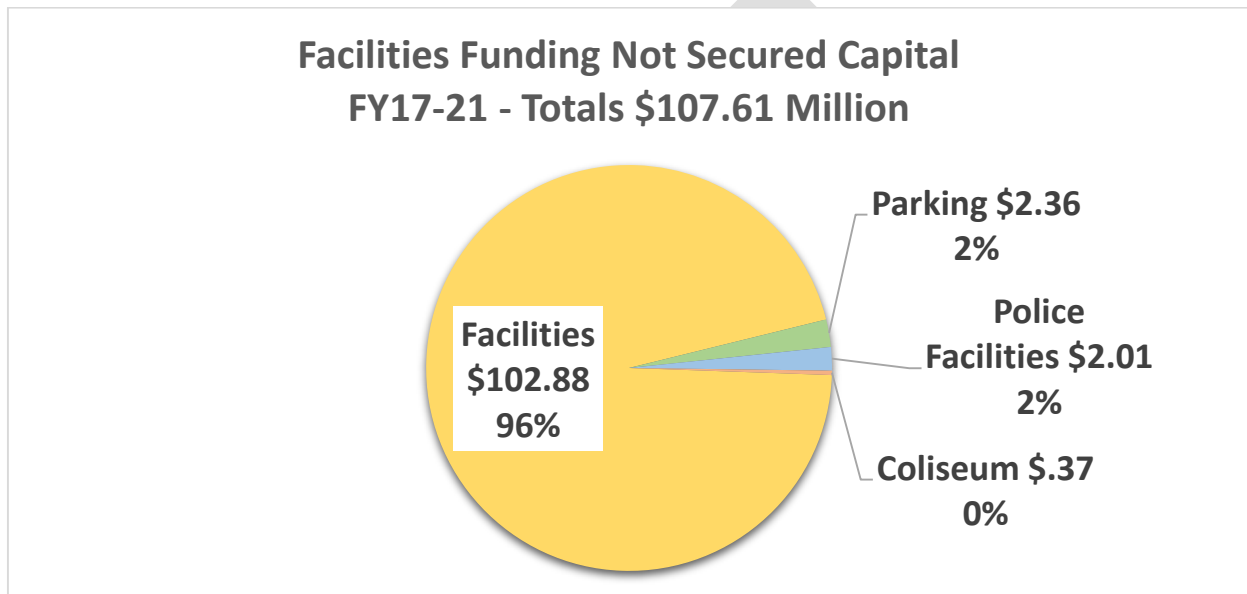
Funded Facility projects include City Hall Annex demolition, Downtown way finding signage and parking evaluation, a City Hall safety study and funding for other unknown major facility repairs, such as the roof repair for City Hall a few years ago.



There will also be continued work on the Coliseum’s Building Automated System which runs the HVAC units, exhaust fans, etc. All work is expected to be finished by July 2016.

## Funding Not Secured

The subcategory of Facilities is the largest of the unfunded areas. This supports the fact that the City has been deferring capital during difficult financial times and to balance budgets. Some of the larger projects with no secured funding include the building of a new Operating Facility that could possibly house Streets, Sanitary Sewer, Storm Water, Fleet, Solid Waste, Water and Parks. There are many other buildings that need to be renovated due to their age and use such as City Hall, the Old Engineering Building, records storage (roof replacement), the Public Works garage, Fleet and the salt dome. Many of these buildings do not have adequate space or are outdated, such as the garage where mechanics must fix larger Fire and other vehicles outside regardless of the weather.



There are also numerous small and large improvements and repairs that must be made at the Market Street Garage, Pepsi Ice Center Garage and the Butler Parking lot. The Coliseum needs to replace the dasher board system and, over a three year period, upgrade the refrigeration units.

Facilities also manages the majority of Police facility repairs that include the indoor firing range restoration, safety improvement, roof replacement and other building and garage repairs.



**Facilities**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Facilities	Major Facility Repairs	Funding Secured	250					250
	City Hall Annex Demolition	Funding Secured	350					350
	Downtown Wayfinding Signage	Funding Secured	75					75
	City Hall Safety Improvements	Funding not Secured	180					180
	Police Administration Window Repairs	Funding not Secured	325					325
	City Hall Office Space Study	Funding Secured	120					120
	Downtown Parking Evaluation	Funding Secured	100					100
	City Hall - Faithful & Gould Improvements	Funding not Secured		225	225	154	38	642
	New City Hall	Funding not Secured					50,000	50,000
	Records Storage - Improvements (storage, safety, roof)	Funding not Secured		30	56	150		236
	Public Works Garage - Faithful & Gould Improvements	Funding not Secured		159	23	526	30	738
	Public Works Fleet - Faithful & Gould Improvements	Funding not Secured		19	10	17	158	204
	Public Works Salt Dome - Faithful & Gould Improvements	Funding not Secured		26	32	9		67
	Old Engineering - Faithful & Gould Improvements	Funding not Secured		115	56	37	152	360
	Old Engineering - Safety Improvements	Funding not Secured			40			40
	New Operations Facility (Streets, Sanitary Sewer, Stormwater, Solid Waste, Water, Fleet, & Parks)	Funding not Secured				50,000		50,000
	Public Works Garage - Safety Improvements	Funding not Secured				55		55
	Public Works Fleet - Safety Improvements	Funding not Secured					30	30
								-
Facilities Secured Total			895	-	-	-	-	895
Facilities not Secured Total			505	574	442	50,948	50,408	102,877
Parking	Market Street Garage Improvements (bond)	Funding not Secured	250					250
	Market Street Garage Improvements	Funding not Secured		407		463	250	1,120
	Pepsi Ice Center Garage Improvements	Funding not Secured		407	463			870
	Major Butler Parking Lot Improvements	Funding not Secured			20	25	70	115
Parking Secured Total			-	-	-	-	-	-
Parking not Secured Total			250	814	483	488	320	2,355
Police Facilities	Indoor Firing Range Final Restoration and Maintenance Including Restrooms (bond)	Funding not Secured	200					200
	Police Administration Safety Improvements	Funding not Secured		105				105
	Police Administration Roof Replacement	Funding not Secured		250				250
	Police Administration - Faithful & Gould Improvements	Funding not Secured		170	111	130	341	752
	Replacement Mobile and Portable Radio Systems (Police Dept will take the lead on this project.)	Funding not Secured				700		700
Police Facilities Secured Total			-	-	-	-	-	-
Police Facilities not Secured Total			200	525	111	830	341	2,007
Coliseum	Smoke Control System Improvements	Funding Secured	50					50
	Replace Dasher Board System	Funding not Secured		220				220
	Upgrade Refrigeration in HVAC Units (3 years)	Funding not Secured			50	50	50	150
		Funding not Secured						-
Coliseum Secured Total			50	-	-	-	-	50

**Facilities****Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Coliseum not Secured Total			-	220	50	50	50	370
Total Funded Facilities Projects			945	-	-	-	-	945
Total not Funded Facilities Projects			955	2,132	1,086	52,316	51,119	107,608
<b>TOTAL ALL FACILITIES PROJECTS</b>			<b>1,900</b>	<b>2,132</b>	<b>1,086</b>	<b>52,316</b>	<b>51,119</b>	<b>108,553</b>

DRAFT

## **Fire**

### **Overview**

The mission of the Bloomington Fire Department is:

- Protecting life and property
- Minimizing the impacts of fire, medical emergencies and other natural or man-made disasters without subjecting personnel to unreasonable risk

The department's mission is accomplished through public education, fire prevention, code enforcement, fire suppression, emergency medical services, hazardous materials mitigation and fire investigation.

The Bloomington Fire department is a fully-paid department and has been since 1868. The department has grown over the years to 113 fulltime firefighters. In addition to Basic Firefighter II and Firefighter III certifications, department members maintain EMT-Basic, EMT-Intermediate or EMT-Paramedic certifications.

The department maintains five Fire Stations that are strategically located throughout the City. Each Station is staffed 24 hours a day, seven days a week and must accommodate the basic needs of the employees including gender equity. Every Station houses emergency vehicles unique to its primary response district. These emergency vehicles include fire engines, aerial fire apparatus, paramedic ambulances, a paramedic chase vehicle, airport crash trucks, a heavy rescue, a hazmat unit and various reserve apparatus.

NFPA 1710 outlines the importance of the distribution as well as concentration of Fire department resources in the deployment model of a career Fire department. Historical data supports the strategic location of the five current Stations. Increased travel distance combined with an increase in call volumes to the northeast response district will continue to increase response times until additional resources are strategically located in a fixed facility in that area (Station #7).

The Fire department Facilities Master Plan identifies specific needs in three of the five Stations. Both Headquarters Fire Station and Station #3 are over 40 years old, and the building systems are inefficient and at the end of their usable life.

### **Funding Outlook**

Current building maintenance needs have been pushed off for years due to lack of funding. Minor repairs become larger repairs or escalate to the emergency replacement of items, such as HVAC systems in both Station #3 and Station #4. The aging infrastructure is driving up the expenses for building repair and maintenance. The outdated building and systems should be renovated using an architectural design to accommodate current and future needs improving both the reliability and efficiency of operations.

### **Funding Secured**

The Fire department depends on the General Fund for the revenue to support projects. In FY 2017, there are three projects that could be potentially funded through bonds, but no bonding has been secured at this time. The potential projects are the Fire Station #3 kitchen renovation, Fire Station alerting systems and the Fire Station #3 architectural fees.

### **Funding Not Secured**

Currently all Fire department projects do not have secured funding. These projects include:

- Fire Station #3: Kitchen renovation, architectural fees and renovations (City is currently in negotiations with the Central Illinois Regional Airport)
- Fire Stations alerting systems
- Fire Station #4: Architectural fee, construction
- Fire Station #2 design
- Fire Station #7 (northeast) construction

Beyond the five year plan the following projects have no funding:

- Fire Station #1: Design and construction
- Fire Station #2: Design and construction

### **Fire Not Funded Capital FY17 - 21 Totals \$12.48 Million**



**Fire  
\$12.48  
100%**

**Fire Department**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Fire	Fire Station #3 Kitchen Renovation (Bond)	Funding not Secured	65					65
	Fire Station Alerting Systems (Five Bugles Report) (Bond)	Funding not Secured	300					300
	Fire Station #3 Architectural Fees (Five Bugles Report) (Bond)	Funding not Secured	330					330
	Fire Station #3 Renovation (Five Bugles Report)	Funding not Secured		3,500				3,500
	Fire Station #4 Architectural Fees (Five Bugles Report)	Funding not Secured			220			220
	Fire Station #4 Construction (Five Bugles Report)	Funding not Secured				4,000		4,000
	Fire Station #2 Design (Five Bugles Report)	Funding not Secured					60	60
	Fire Station #7 Construction North East	Funding not Secured			4,000			4,000
Fire Secured Total			-	-	-	-	-	-
Fire not Secured Total			695	3,500	4,220	4,000	60	12,475
<b>TOTAL ALL FIRE PROJECTS</b>			695	3,500	4,220	4,000	60	12,475

**Out Years for Fire**

Subcategory	Project Title	Funding	2022	2023	2024	2025	2026	Total
Fire	Fire Station Renovation #1 - Design	Funding not Secured	300					300
	Fire Station Renovation #1 - Construction	Funding not Secured		3,000				3,000
	Fire Station Renovation #2 - Design	Funding not Secured		300				300
	Fire Station Renovation #2 - Construction	Funding not Secured			3,000			3,000
Fire Secured Total			-	-	-	-	-	-
Fire not Secured Total			300	3,300	3,000	-	-	6,600

## **Parks**

### **Overview**

The Parks, Recreation and Cultural Arts department exists to maintain and enhance the quality of life for all citizens of Bloomington by providing parks, recreation and leisure opportunities through organized programs and by developing, maintaining and enhancing recreation areas and facilities. The department is large and varied and includes 38 parks, three spray parks, two swimming pools, four lakes and 30 miles of trail. The Parks department also includes:

- The Bloomington Center for the Performing Arts (BCPA), a nearly 2,000 seat facility that hosts a season of touring artists and approximately 500 community events annually
- The Pepsi Ice Center, a skating rink opened in 2006
- Miller Park Zoo, an Association of Zoos and Aquariums (AZA)-accredited institution opened in 1891 that entertains an average of 107,000 guests on an annual basis
- Three golf courses: Highland Park, Prairie Vista and the Arnold Palmer signature course, The Den at Fox Creek

The Parks Master Plan, adopted by City Council in 1997, and the Zoo Master Plan, adopted in 2012, are primary drivers to help identify Parks capital projects. These projects are essential as the City strives to meet community needs and strike a balance between developing new facilities and maintaining the safety and functionality of older parts of the Parks system.

### **Project Categories**

Parks capital projects fall into one of the following categories, which also represent some of the department's divisions:

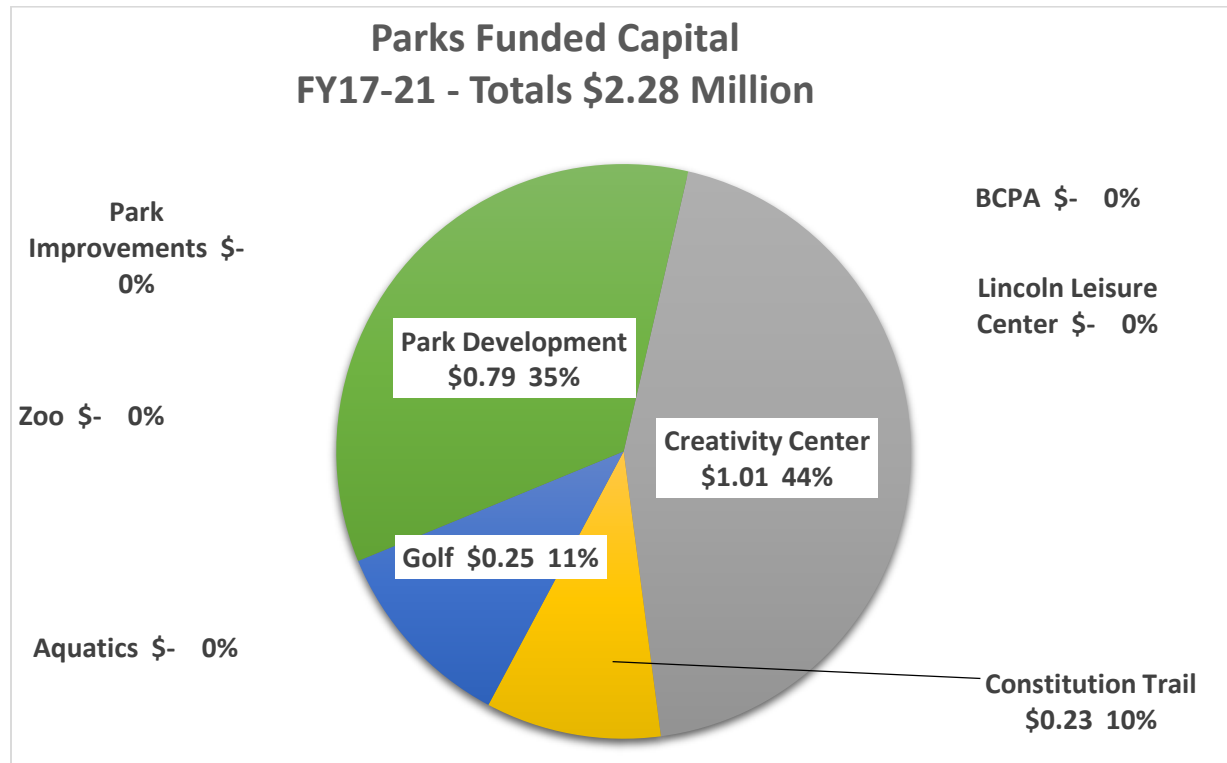
- Aquatics
- BCPA
- Golf
- Parks Administration
- Parks Maintenance
- Zoo

### **Funding Outlook**

The majority of Parks capital projects do not have a dedicated funding source and rely on what is available from the General Fund. Some projects could seek grant funding, such as the OSLAD grant, if available, though state funds in particular are unreliable as Illinois' budget crisis continues. Miller Park Zoo projects could have contributions from the Miller Park Zoological Society.

### Funding Secured

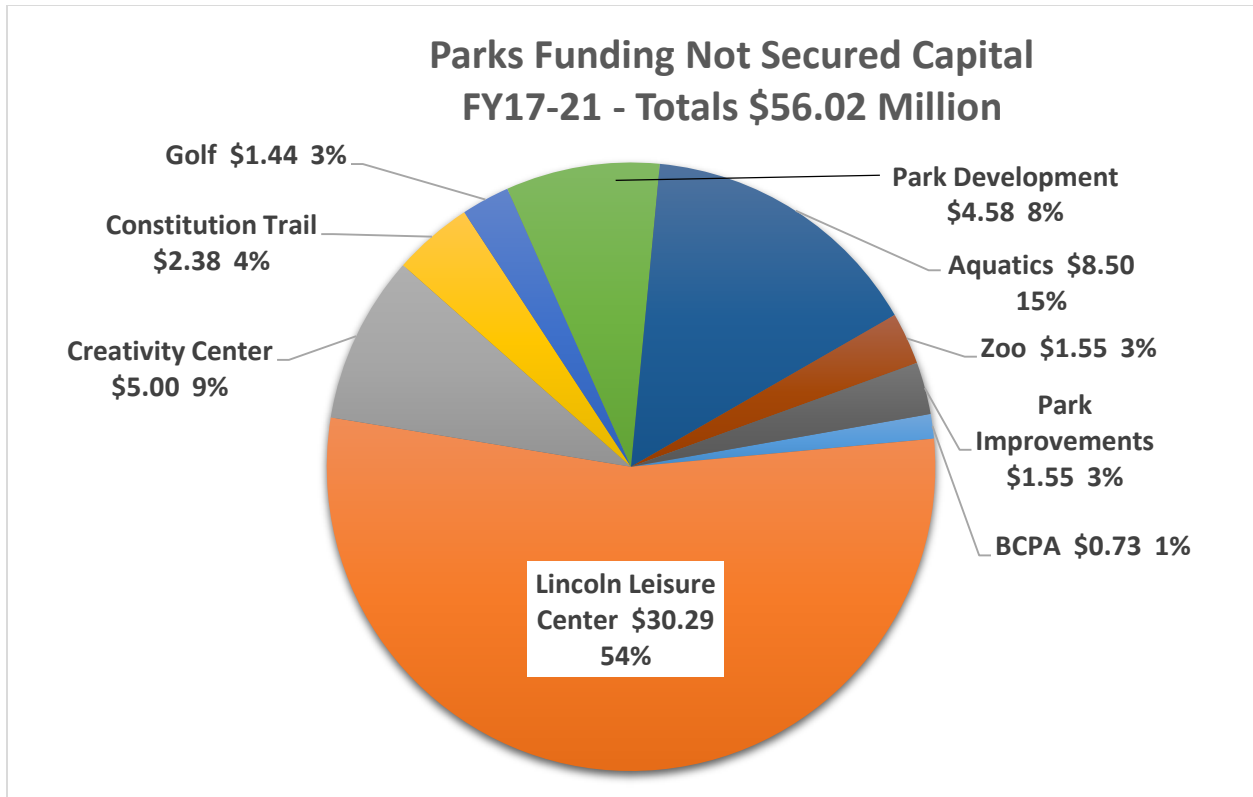
Funded Parks projects include Constitution Trail work through an IGA with the County, Prairie Vista path resurfacing, Downtown bike rack and bench updates and engineering and architectural services for possible park development and a Master Plan for Neighborhood Parks such as Sunnyside.



The park development and Master Plan will be funded through Park Dedication Funds and the remaining projects will be funded by the General Fund. Park Dedication Funds are derived from developer payments made to the City (per City Code) to provide park facilities when a subdivision is developed. The City is divided into eight Neighborhood Planning Areas to ensure funds are expensed in the area of development.

### Funding Not Secured

Park projects with funding not secured include renovations and upgrades at the BCPA such as replacing water and heating units, carpets, sound boards, auditorium speakers, etc. and the remodel of the Creativity Center. The Lincoln Leisure Center and the two pools are both past their useful lives and need to be replaced with a new recreation center and an aquatic center. These provide the community with affordable entertainment and improve the quality of life for the City.



Other than the IGA-related Constitution Trail work, there are new portions of the Trail and resurfacing needs of the Trail that are not funded. The Golf Courses all need work on their HVAC and irrigation systems, as well as renovations to the driving range at Prairie Vista and Highland Park maintenance shed. The park development and park improvements areas have numerous playgrounds in need of updating as well as new park developments and work at Miller Park. The Zoo would like to expand concessions and the gift shop, repair the roof and add parking, drives and fences. The Zoo also has the opportunity to add new exhibits such as the Anteater/Galapagos/Bush Dog and Tayra/Eagle exhibits.



**Parks**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
BCPA	BCPA Tuckpointing and Masonry Repairs - not using donated funds.	Funding not Secured	120.0					120.0
	BCPA Replace Trane Chiller, HVAC, Water Pumps, Carpet, Hot Water Heater - not using donated funds.	Funding not Secured	10.2					10.2
	BCPA Replace Sidewalks & Front Handrailings	Funding not Secured		35.0				35.0
	BCPA Tuckpointing and Masonry Repairs	Funding not Secured		65.0				65.0
	BCPA Replace Trane Chiller, HVAC, Water Pumps, Carpet, Hot Water Heater - not using donated funds.	Funding not Secured		84.0				84.0
	BCPA Upgrade Fly Sys, Auditorium Speakers, Monitor Sound Board and LED Fly Sys	Funding not Secured		69.0				69.0
	BCPA Tuckpointing and Masonry Repairs	Funding not Secured			65.0			65.0
	BCPA Replace Trane Chiller, HVAC, Water Pumps, Carpet, Hot Water Heater	Funding not Secured			30.0			30.0
	BCPA Ugrade Fly Sys, Auditorium Spkrs, Monitor Sound Brd & LED Fly Sys	Funding not Secured			7.0			7.0
	BCPA Tuckpointing and Masonry Repairs	Funding not Secured				65.0		65.0
	BCPA Replace Trane Chiller, HVAC, Water Pumps, Carpet, Hot Water Heater - not using donated funds.	Funding not Secured				80.0		80.0
	BCPA Ugrade Fly Sys, Auditorium Spkrs, Monitor Sound Brd & LED Fly Sys	Funding not Secured				7.0		7.0
	BCPA Replace Trane Chiller, HVAC, Water Pumps, Carpet, Hot Water Heater - not using donated funds.	Funding not Secured					50.0	50.0
	BCPA Ugrade Fly Sys, Auditorium Spkrs, Monitor Sound Brd & LED Fly Sys	Funding not Secured					43.0	43.0
<b>BCPA &amp; LLC Secured Total</b>			0.0	0.0	0.0	0.0	0.0	0.0
<b>BCPA &amp; LLC not Secured Total</b>			130.2	253.0	102.0	152.0	93.0	730.2
Lincoln Leisure Center	Lincoln Leisure Center - Parking Lot (level II)	Funding not Secured		255.0				255.0
	Lincoln Leisure Center-Restoration of Exterior Elements -Faithful & Gould Study (Life & Safety)	Funding not Secured				34.0		34.0
	Recreation Center - design & construction	Funding not Secured				30,000.0		30,000.0
<b>Lincoln Leisure Center Secured Total</b>			0.0	0.0	0.0	0.0	0.0	0.0
<b>Lincoln Leisure Center not Secured Total</b>			0.0	255.0	0.0	30,034.0	0.0	30,289.0
Creativity Center	Install TPO Roofing Membrane - Creativity Center (level 111) - BCPA Campaign funds	Funding Secured		805.0				805.0
	Replace Rooftop Units - Creativity Center (level III) - BCPA Campaign funds	Funding Secured		202.0				202.0
	Creativity Center Remodel	Funding not Secured			5,000.0			5,000.0
<b>Creativity Center Secured Total</b>			0.0	1,007.0	0.0	0.0	0.0	1,007.0
<b>Creativity Center not Secured Total</b>			0.0	0.0	5,000.0	0.0	0.0	5,000.0
Constitution Trail	Route 66 Trail Normal to Towanda - Construction 2nd Half - IGA	Funding Secured	45.0					45.0
	Route 66 Trail Towanda North 2.4 Miles - Design - IGA	Funding Secured	0.6					0.6

**Parks**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Constitution Trail	Route 66 Trail Towanda North 2.4 Miles - Construction - IGA	Funding Secured	44.0					44.0
	Route 66 Trail Shirley South - Design - IGA	Funding Secured	0.4					0.4
	Route 66 Trail Shirley South - Construction - IGA	Funding Secured	35.0					35.0
	Trail Resurfacing - Hershey Rd to Airport Rd	Funding not Secured		125.0				125.0
	Trail Ash St to Easy St along Lafayette	Funding not Secured		500.0				500.0
	Route 66 Trail Towanda North 2.4 Miles - Construction 1st half- IGA	Funding Secured		30.0				30.0
	Route 66 Trail Towanda North 2.4 Miles - Construction 2nd half- IGA	Funding Secured		30.0				30.0
	Route 66 Trail Shirley South - Construction 1st half - IGA	Funding Secured		20.0				20.0
	Route 66 Trail Shirley South - Construction 2nd half - IGA	Funding Secured		20.0				20.0
	Trail Croxton to Lafayette	Funding not Secured			1,000.0			1,000.0
Trail Hershey Road East through Brookridge	Funding not Secured			750.0			750.0	
<b>Constitution Trail Secured Total</b>			125.0	100.0	0.0	0.0	0.0	225.0
<b>Constitution Trail not Secured Total</b>			0.0	625.0	1,750.0	0.0	0.0	2,375.0
Golf	Prairie Vista Path Resurfacing	Funding Secured	250.0					250.0
	Den Golf Course Pond Dredging Project	Funding not Secured		60.0				60.0
	Prairie Vista Driving Range Renovation	Funding not Secured		50.0				50.0
	Prairie Vista HVAC & Patio	Funding not Secured		100.0				100.0
	The Den Clubhouse Roof & HVAC	Funding not Secured		100.0				100.0
	Highland Park Grey Water Irrigation Study	Funding not Secured			30.0			30.0
	Highland Park Irrigation System	Funding not Secured				750.0		750.0
	Highland Park Maintenance Shed	Funding not Secured				350.0		350.0
<b>Golf Secured Total</b>			250.0	0.0	0.0	0.0	0.0	250.0
<b>Golf not Secured Total</b>			0.0	310.0	30.0	1,100.0	0.0	1,440.0
Park Development	O'Neil Park Aquatic Center & Lincoln Leisure Center Feasibility Study - Jay would like to change to Parks Master Plan Development (bond money)	Funding not Secured	100.0					100.0
	Miller Park Pavillion & LLC - Replace Smoke and Burglar Alarms	Funding Secured	35.0					35.0
	Downtown Bike Rack & Bench project	Funding Secured	25.5					25.5
	Engineering/Architectural Services for Possible Park Development - <b>Park Dedication Funds</b>	Funding Secured	25.0	50.0	50.0	8.0		133.0
	Engineering/Architectural Services for Possible Park Development - <b>Park Dedication Funds</b>	Funding not Secured				42.0	50.0	92.0
	Master Plan for Neighborhood Parks - Sunnyside Master Plan - <b>Park Dedication Funds</b>	Funding Secured	200.0					200.0
	Woodbury Park (\$525K - GF/\$175K Private)	Funding not Secured		700.0				700.0
	Park Construction and Improvements - <b>Park Dedication Funds</b>	Funding Secured		200.0	200.0			400.0
	Park Construction and Improvements - <b>Park Dedication Funds</b>	Funding not Secured				200.0	200.0	400.0
	Wittenberg Woods Park - 50% funded by OSLAD	Funding not Secured			800.0			800.0

**Parks**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Park Development	Oakland School Playground	Funding not Secured			75.0			75.0
	Walt Bittner Park Playground	Funding not Secured				85.0		85.0
	Centennial Park/Dog Park Development	Funding not Secured				75.0		75.0
	Grove Park Construction	Funding not Secured				1,250.0		1,250.0
	Alton Park Playground	Funding not Secured					55.0	55.0
	Westwood Park	Funding not Secured					450.0	450.0
	Sugar Creek Park Land Acquisition	Funding not Secured					500.0	500.0
Park Development Secured Total			285.5	250.0	250.0	8.0	0.0	793.5
Park Development not Secured Total			100.0	700.0	875.0	1,652.0	1,255.0	4,582.0
Aquatics	O'Neil park Aquatic Facility Renovation	Funding not Secured		8,500.0				8,500.0
Aquatics Secured Total			0.0	0.0	0.0	0.0	0.0	0.0
Aquatics not Secured Total			0.0	8,500.0	0.0	0.0	0.0	8,500.0
Zoo	Zoo Concession, Gift Shop Expansion & Roof	Funding not Secured		275.0				275.0
	Zoo Additional Parking, Drives and Fencing	Funding not Secured		500.0				500.0
	Anteater/Galapagos/Bush Dog Exhibits-40% (\$180K) Paid by Miller Park Zoological Society	Funding not Secured			450.0			450.0
	Zoo Lab New Roof & HVAC	Funding not Secured				100.0		100.0
	Tayra/Eagle Exhibits-40% (\$90K) Funded by Miller Park Zoological Society	Funding not Secured					225.0	225.0
Zoo Secured Total			0.0	0.0	0.0	0.0	0.0	0.0
Zoo not Secured Total			0.0	775.0	450.0	100.0	225.0	1,550.0
Park Improvements	Rollingbrook Park Playground	Funding not Secured		75.0				75.0
	Cedar Ridge Park Renovation	Funding not Secured		200.0				200.0
	Miller Park Theatre Renovation	Funding not Secured		350.0				350.0
	Miller Park Elevator	Funding not Secured			325.0			325.0
	O'Neil Park Asphalt Replacement between Ball Fields	Funding not Secured				300.0		300.0
	White Oak Lake Erosion Control Project	Funding not Secured				300.0		300.0
Park Improvements Secured Total			0.0	0.0	0.0	0.0	0.0	0.0
Park Improvements not Secured Total			0.0	625.0	325.0	600.0	0.0	1,550.0
Total Funded Park Projects			660.5	1,357.0	250.0	8.0	0.0	2,275.5
Total not Funded Park Projects			230.2	12,043.0	8,532.0	33,638.0	1,573.0	56,016.2
<b>TOTAL ALL PARK PROJECTS</b>			<b>890.7</b>	<b>13,400.0</b>	<b>8,782.0</b>	<b>33,646.0</b>	<b>1,573.0</b>	<b>58,291.7</b>

## **Sanitary Sewer**

### **Overview**

The Citywide Sanitary Sewer system falls within the purview of the Public Works department. The system collects wastewater (i.e. Sanitary Sewer), which is then treated by the Bloomington-Normal Water Reclamation District (BNWRD). In older parts of the City, the existing sewers are mostly “combined” sewers, which convey both wastewater and storm water in the same pipe. There are 85-miles of combined sanitary sewer and storm water lines and 265-miles of only sanitary sewer lines.

The Sanitary Sewer capital projects in the FY 2017-2021 CIP, many of which come from the Sanitary Sewer Master Plan, aim to address the concerns of aging existing infrastructure and manage urban growth in a way that controls future costs while maintaining an appropriate level of service.

It is worth noting that despite the Master Plan, the City’s sewer system has never been fully evaluated and rated due to lack of resources. An evaluation of this type would help better guide the planning process for capital projects.

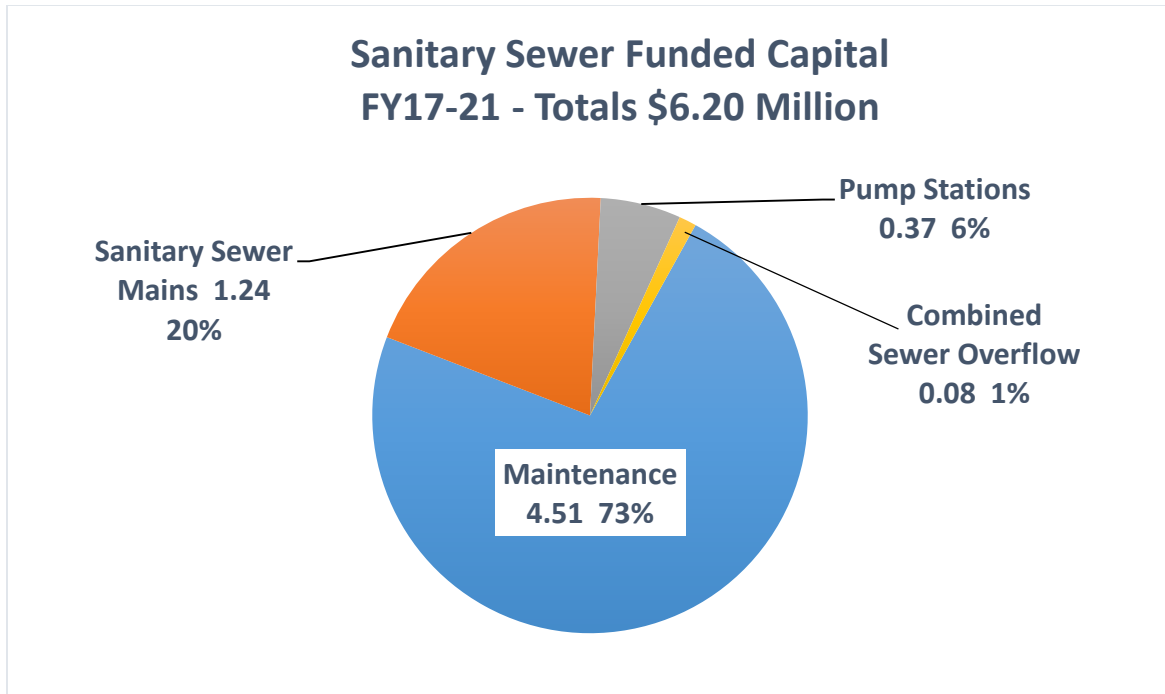
### **Funding Outlook**

In 2008, a four-year Sanitary Sewer rate increase of 100% over four years was implemented, allowing for a modest level of funding for capital projects. However, the demands of aging infrastructure are outpacing this funding, leaving several projects in the FY 2017-2021 CIP without funds identified at this time. This could result in increased costs overall as emergencies occur because of deferred maintenance. For example, emergency repair of a sewer collapse typically costs several times more per lineal foot than the cost of systematic sewer rehabilitation.

A sewer rate study was completed in 2015, the results of which could be considered when looking to the future to fund related capital projects.

### **Funding Secured**

Approximately 27% of Sanitary Sewer capital needs are funded over the next five years. This includes many projects recommended by the Sanitary Sewer and Storm Water Master Plan. Some of these projects are annual such as the sewer and manhole lining program and sanitary CCTV (camera) evaluations, although only FY 2017 has full funding for these annual programs.



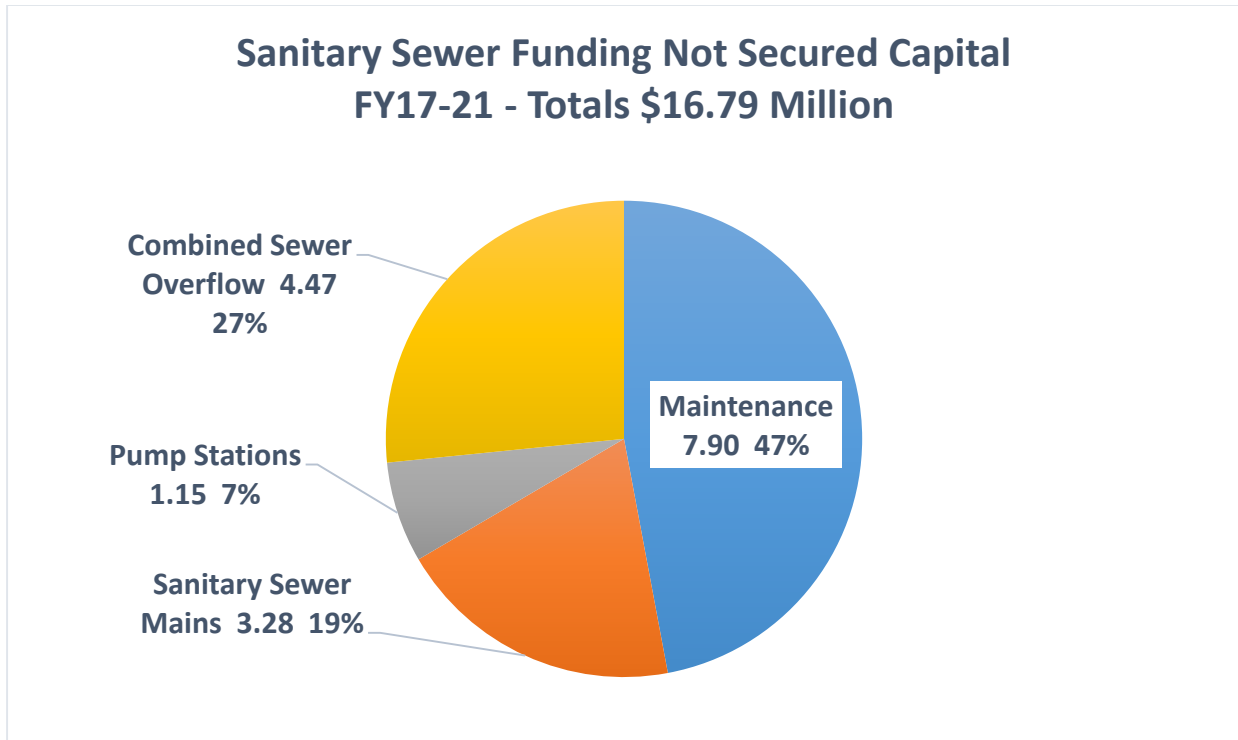
Other funded projects include:

- Adding public sanitary sewer mains to a section of Olive and Grove Streets
- Conducting a footing drain survey to separate the Broadmoor sanitary sewer system
- Numerous pump station improvements at Eagle Crest East pump station, Sugar Creek pump station and force main and Fell Avenue pump station
- A study on Strawberry Road to see if improvements need to be made to increase capacity
- A contract for design work for the Valley Sewer (Maizefield) for CSO elimination and the purchase of land

It is also anticipated that funds will be used to meet contractual obligations at the Grove on Kickapoo Creek subdivision for sewer oversizing.

### **Funding Not Secured**

Almost \$17 M of capital Sanitary Sewer needs do not have funding secured over the next five years. Many of the sewer lines and manholes are aging and not being maintained at a level that prevents or decreases emergencies. Sanitary sewers are not only a necessary part of every citizen's life but can also pose safety and health issues. There is also the concern that if the City does not do enough in regards to eliminating the current Combined Sewer Overflow (CSO) issue, federally-imposed mandates may occur.



As mentioned in the funded section, many necessary annual projects are not funded fully in the out years such as the sewer and manhole lining program that could extend the life of many sanitary sewers. The Locust Colton CSO elimination and water main replacement phases 2 and 3 will not be able to move forward. The ongoing installation of public sanitary sewer in streets with no public sanitary sewer will not be funded. Numerous other pump station improvements, sewer capacity upgrades, camera evaluations and upgrades to the camera system and Geographic Information Systems (GIS) will be left with no funding.

**Sanitary Sewer**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Maintenance	Mutli-Year Sewer and Manhole Lining Program (Sewer & Storm Water Master Plan)	Funding Secured	1,500	320			1,000	2,820
	Mutli-Year Sewer and Manhole Lining Program (Sewer & Storm Water Master Plan)	Funding not Secured		1,180	2,000	2,500	1,500	7,180
	Multi-Year Sanitary CCTV Evaluations	Funding Secured	200	200	400	500		1,300
	Multi-Year Sanitary CCTV Evaluations	Funding not Secured					400	400
	CCTV-GIS Infrastructure Rating Tool Development	Funding not Secured		30				30
	ESRI/GIS/CCTV/MUNIS Tool Upgrades	Funding not Secured		140				140
	ESRI/GIS/CCTV/MUNIS Tool Upgrades	Funding Secured				50		50
	Inventory Manholes/Structures	Funding Secured		60				60
	Manhole Inspection Program (Ongoing)	Funding not Secured		90			60	150
	Manhole Inspection Program (Ongoing)	Funding Secured				90		180
	Post-Rehabilitation Flow Analysis	Funding Secured			100			100
<b>Maintenance Secured Total</b>			1,700	580	590	640	1,000	4,510
<b>Maintenance not Secured Total</b>			-	1,440	2,000	2,500	1,960	7,900
Sanitary Sewer Mains	Olive Street Sanitary Sewer (400 East Block)	Funding Secured	160					160
	Grove Street Sanitary Sewer (400 East Block)	Funding Secured	160					160
	Broadmoor Sanitary Sewer - Footing Drain Survey-Separation	Funding Secured	125					125
	The Grove on Kickapoo Creek Subdivision Sewer Oversizing Construction	Funding Secured	500					500
	Strawberry Road Sewer Improvements-Design only	Funding Secured	40					40
	Strawberry Road Sewer Improvements	Funding not Secured		400				400
	Wall Street Sanitary Sewer (300 Block) Construction	Funding not Secured		120				120
	Low Street Sanitary Sewer (900-1100 South Block) Construction	Funding not Secured		400				400
	The Grove on Kickapoo Creek Subdivision Sewer Oversizing Construction	Funding not Secured		600				600
	Briarwood Subdivision Infrastructure Rehabilitation	Funding not Secured			225			225
	The Grove on Kickapoo Creek Subdivision Sewer Oversizing Construction	Funding not Secured			700			700
	Miller Street Sanitary Sewer (800 East Block)	Funding not Secured			160			160
	Gray Avenue Sanitary Sewer (300 Block)	Funding not Secured			160			160
	Install Public Sanitary Sewer In Streets With No Public Sewer	Funding Secured				250		250
	Sanitary Sewer and Manhole Testing (SSES)	Funding not Secured		260				260
	Install Public Sanitary Sewer In Streets w/ No Public Sewer	Funding not Secured					250	250
<b>Sanitary Sewer Mains Secured Total</b>			985	-	-	250	-	1,235
<b>Sanitary Sewer Mains not Secured Total</b>			-	1,780	1,245	-	250	3,275
Pump Stations	Eagle Crest East Pump Station Improvements	Funding Secured	300					300
	Fell Avenue Pump Station Improvements-Design	Funding Secured	20					20

**Sanitary Sewer**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
	Sugar Creek Pump Station and Forcemain Improvements-Design only	Funding Secured	50					50
	Fell Avenue Pump Station Improvements	Funding not Secured		100				100
	Sugar Creek Pump Station and Forcemain Improvements	Funding not Secured		500				500
	Pump Station Control Upgrades	Funding not Secured			125			125
	Pump Station Control Upgrades	Funding not Secured				425		425
Pump Stations Secured Total			370	-	-	-	-	370
Pump Stations not Secured Total			-	600	125	425	-	1,150
Combined Sewer Overflows	Valley Sewer (Maizefield) CSO Elimination Phase 1 Design & Land	Funding Secured	80					80
	Locust Colton CSO Elimination & Water Main Replacement - Design Phase 2	Funding not Secured		10				10
	Hawthorne Collector Sewer Capacity Upgrade	Funding not Secured		75				75
	Valley Sewer (Maizefield) CSO Elimination Phase 2 Design	Funding not Secured		40				40
	Valley Sewer (Maizefield) CSO Elimination Phase 1 Construction	Funding not Secured		350				350
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction	Funding not Secured			50			50
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction - ineligible expenses for loan	Funding not Secured			1,185			1,185
	Hawthorne Collector Sewer Capacity Upgrade	Funding not Secured			525			525
	Valley Sewer (Maizefield) CSO Elimination Phase 2 Construction	Funding not Secured			300			300
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Design & Land	Funding not Secured			110			110
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction	Funding not Secured				900		900
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction - ineligible expenses for loan	Funding not Secured				80		80
	Wet Weather Storage Project (10 MG Tank)	Funding not Secured				200		200
	Locust/Colton – Remaining Sewer Separation Projects (primarily sanitary sewer costs)	Funding not Secured				100		100
	Locust/Colton – Remaining Sewer Separation Projects (primarily sanitary sewer costs)	Funding not Secured					540	540
Combined Sewer Overflows Secured Total			80	-	-	-	-	80
Combined Sewer Overflows not Secured Total			-	475	2,170	1,280	540	4,465
Sanitary Sewer Secured Total			3,135	580	590	890	1,000	6,195
Sanitary Sewer not Secured Total			-	4,295	5,540	4,205	2,750	16,790
<b>TOTAL SANITARY SEWER</b>			<b>3,135</b>	<b>4,875</b>	<b>6,130</b>	<b>5,095</b>	<b>3,750</b>	<b>22,985</b>



## **Storm Water**

### **Overview**

The Citywide Storm Water system falls within the purview of the Public Works department and consists of both confined infrastructure and open flow elements. The system collects storm water runoff through a series of gutters, inlets, storm sewers, detention basins and stream channels. In older parts of the City, the existing sewers are mostly “combined” sewers, which convey both wastewater and storm water in the same pipe. There are 256 miles of storm water lines, 80 miles of sump pump drain lines that also carry storm water and 85 miles of combined sanitary sewer and storm water lines.

In the past, storm water planning focused on flood control, system sizing, flood routing and storm water detention. Now, pressures of urbanization and increased federal regulation dictate a total water resources management point of view, considering the volume of storm runoff and pollution prevention. Storm water frequently contains high levels of sediment, litter, phosphorus, nitrogen, heavy metals, oil, grease and organic materials. Storm water management also involves stream bank erosion control, often through placement of rock, concrete or other materials. Urban water channels, by their nature, must remain fairly narrow, straight and confined to a defined space, making them susceptible to erosion during periods of heavy water flow without the creation and maintenance of engineered stream banks.

The Storm Water capital projects in the FY 2017-2021 CIP, many of which come from the Stormwater Master Plan, aim to address concerns of aging existing infrastructure, flood prevention and need for managed urban growth in a way that controls future infrastructure costs while maintaining an appropriate level of service. By managing runoff and preventing pollutants from entering the environment, we strive to avoid the potentially-high costs of flooding, future treatment and increased regulation.

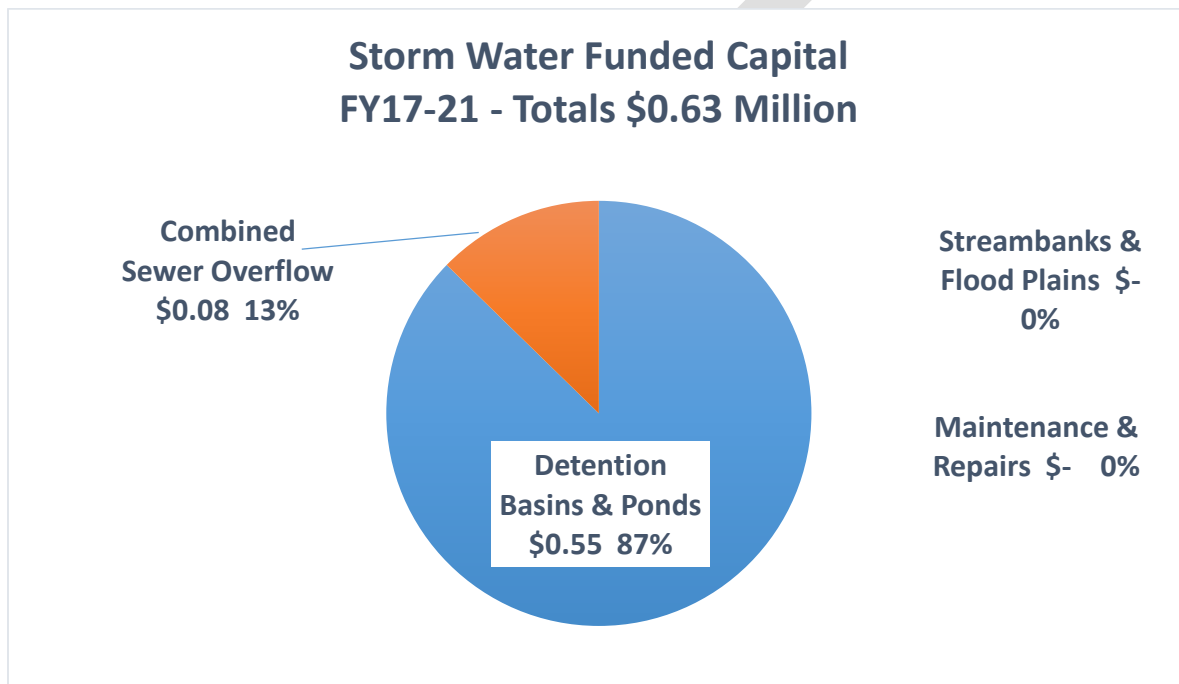
### **Funding Outlook**

While a Storm Water Utility Fund was established in 2004, and with no associated Master Plan, rates have remained stagnant since its inception and are currently insufficient to keep up with capital needs. Therefore, most projects in the FY 2017-2021 CIP do not have funds identified at this time. Failure to fund these projects could result in increased costs overall as emergencies due to deferred maintenance occur. There is also the threat of eroding banks encroaching on private property and on public assets, such as the Constitution Trail. Lastly, stagnant funding has slowed the City’s progress toward the federally-mandated elimination of combined sewer overflow, which is the release of combined sewer wastewater directly into streams.

A sewer rate study was completed in 2015, the results of which could be considered when looking to the future to fund related capital projects.

### Funding Secured

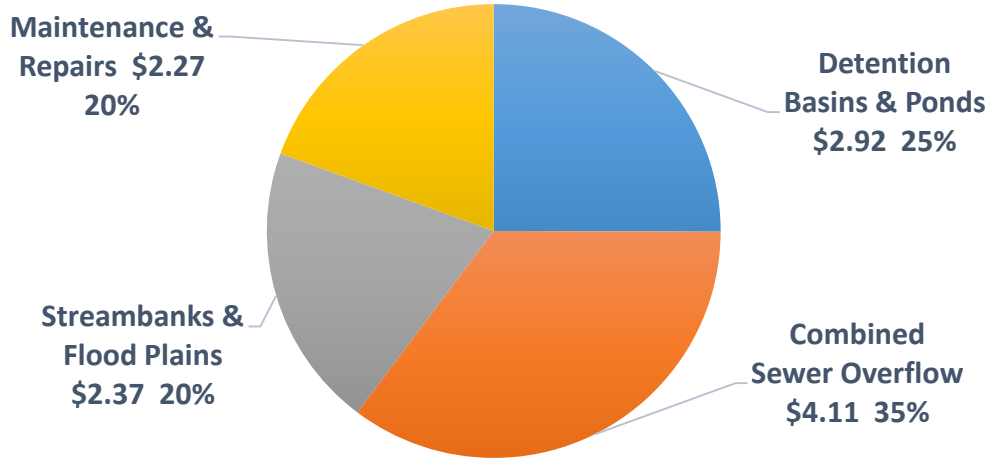
Storm Water has numerous projects related to Sanitary Sewer projects. The Fund Balance for Storm Water has been declining for several years as operating costs are overriding the revenue earned from the Storm Water fees. As addressed in the funding outlook, the fee has not been increased since 2004. Without any additional funding, capital projects will not be able to move forward. There are only two projects funded in FY 2017, which will use all of the remaining Fund Balance. These two projects are the Farm Bureau Detention Basin improvements and the Valley Sewer (Maizefield) CSO Elimination (only phase 1 design and the purchase of land).



### Funding Not Secured

With Storm Water only having \$630,000 of funded projects over five years, this leaves a fairly large number of projects not funded. Some of the main projects not funded include the Locust Colton CSO elimination and water main replacement (design, phase 2) and phase 2 of the Valley Sewer CSO elimination. Lack of funding will leave no ability to move forward on what should be annual projects such as detention basin improvements, the pond inspection and maintenance program, detention pond retrofits, stream bank stabilization, sewer separation projects and the floodplain/floodway encroachment program. There are also other needs such as updating the Storm Water ordinances and urban stream repairs and ongoing stream inspections.

**Storm Water Funding not Secured Capital  
FY17-21 - Totals \$11.67 Million**



DRAFT

## Storm Water

## Funding Secured &amp; Not Secured

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Detention Basins & Ponds	Farm Bureau Detention Basin Improvements	Funding Secured	550					550
	Detention Pond Retrofits	Funding not Secured			50	285		335
	Regional Stormwater Detention Facilities (Ponds 1 and 2)	Funding not Secured				300	1,238	1,538
	Pond Inspection and Maintenance Program (Public and Private Bonds)	Funding not Secured				500	550	1,050
Detention Basins & Ponds Secured Total			550	-	-	-	-	550
Detention Basins & Ponds not Secured Total			-	-	50	1,085	1,788	2,923
Combined Sewer Overflow	Valley Sewer (Maizefield) CSO Elimination Phase 1 Design & Land	Funding Secured	80					80
	Locust Colton CSO Elimination & Water Main Replacement - Design Phase 2	Funding not Secured		10				10
	Valley Sewer (Maizefield) CSO Elimination Phase 2 Design	Funding not Secured		40				40
	Valley Sewer (Maizefield) CSO Elimination Phase 1 Construction	Funding not Secured		350				350
	Valley Sewer (Maizefield) CSO Elimination Phase 2 Construction	Funding not Secured			300			300
	Locust Colton CSO Elimination & Water Main Replacement - Construction Phase 2 - ineligible expenses for loan	Funding not Secured			100			100
	Locust Colton CSO Elimination & Water Main Replacement - Construction Phase 2	Funding not Secured			1,185			1,185
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Design & Land	Funding not Secured			110			110
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction	Funding not Secured				1,185		1,185
	Locust Colton CSO Elimination & Water Main Replacement - Phase 3 - Construction - ineligible expenses for loan	Funding not Secured				80		80
	Sewer Separation Projects	Funding not Secured				200	550	750
Combined Sewer Overflow Secured Total			80	-	-	-	-	80
Combined Sewer Overflow not Secured Total			-	400	1,695	1,465	550	4,110
Streambanks & Flood Plains	Sugar Creek Flood Plain Study	Funding not Secured		163				163
	Floodplain/Floodway Encroachment Program	Funding not Secured				188	188	376
	Streambank Stabilization (Planning Areas 4, 7, and 8)	Funding not Secured				370	370	740
	Urban Stream Repairs (From Streambank Inventory) and Ongoing Stream Inspections	Funding not Secured					1,090	1,090
Streambanks & Flood Plains Secured Total			-	-	-	-	-	-
Streambanks & Flood Plains not Secured Total			-	163	-	558	1,648	2,368
Maintenance & Repairs	Rowe Dr Drainage Way Improvements Design	Funding not Secured		100				100
	Fort Jesse Road Reconstruction: Kaisner - Towanda Barnes	Funding not Secured			350			350
	Briarwood Subdivision Infrastructure Rehabilitation	Funding not Secured			355			355

**Storm Water**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
	Rowe Dr Drainage Way Improvements Construction	Funding not Secured			945			945
	Update Stormwater Ordinances	Funding not Secured			130			130
	McKay Dr Storm Sewer & Drainage Way Improvements Design	Funding not Secured				40		40
	McKay Dr Storm Sewer & Drainage Way Improvements Construction	Funding not Secured					350	350
Major Maintenance & Repairs Secured Total			-	-	-	-	-	-
Major Maintenance & Repairs not Secured Total			-	100	1,780	40	350	2,270
Storm Water Secured Total			630	-	-	-	-	630
Storm Water not Secured Total			-	663	3,525	3,148	4,336	11,671
<b>TOTAL STORM WATER PROJECTS</b>			<b>630</b>	<b>663</b>	<b>3,525</b>	<b>3,148</b>	<b>4,336</b>	<b>12,301</b>

\*FY17 is the only year capital can be funded and maintain a 15% balance. In the out years, operating expenses exceed revenues even with all capital being eliminated.

DRAFT

## **Streets & Sidewalk**

### **Overview**

The City's Streets and Sidewalk systems are overseen by the Public Works department and consist of approximately 842 lane miles of public streets and alleys and 423 miles of sidewalks.

All City streets are evaluated and rated by staff on a regular basis. Additionally, a Streets Master Plan is currently underway to identify and prioritize major street projects. These factors combined allow for an excellent inventory of the City's Streets system and identification of capital projects. Current ratings have identified 27% of streets and alleys as being in less than satisfactory condition. City sidewalks are also systematically rated, with 16% falling short of satisfactory.

Streets capital projects in the FY 2017-2021 CIP include street resurfacing, reconstruction, widening, new street construction, bridge work, pavement preservation treatments, restriping of traffic lanes, striping of bicycle lanes where appropriate and curb and gutter replacement. The projects are exclusive of day-to-day patching, pothole filling and other routine maintenance.

Sidewalk capital projects include installation and repair of curb ramps, repair of sidewalk panels, construction of new segments, response to reports of sidewalk problems and the voluntary 50-50 sidewalk repair program.

### **Funding Outlook**

Streets and sidewalk capital projects are currently funded through the Illinois Motor Fuel Tax, the local Motor Fuel Tax and an earmarked portion of sales taxes. Occasionally, Federal Aid Urban money is utilized.

#### General Resurfacing & Sidewalks

The general resurfacing program, plus the sidewalk program, is currently funded by the combined total of designated sales tax (¼%) and the local fuel tax. The total from the two revenue sources amounts to approximately \$4.8 M annually, allocated as follows:

- \$3.8 M for resurfacing.
- \$400,000 for ADA-construction of sidewalk ramps adjacent to street resurfacing work
- \$600,000 for sidewalk capital projects exclusive of sidewalk ramps.

#### Major Road & Bridge Projects

Major road and bridge projects are often funded by revenue from the Illinois Motor Fuel Tax (MFT). State MFT projects require exhaustive documentation. Therefore, it is more efficient to use state MFT money for a few big projects rather than numerous smaller ones. Use of federal road funds is determined by the multiagency Transportation Improvement Program. The planning group rotates use of federal money. These funds, too, are used for major projects.

## Grants

The City continues to seek grants to fund transportation projects. The City is currently seeking federal money to fund the majority of the Hamilton Road connection from Bunn to Commerce through the new FASTLANE grant program. Also, Bloomington and Normal partnered with the Illinois Department of Transportation on IDOT's request for a TIGER grant for Main Street Corridor improvements.

## **Funding Secured**

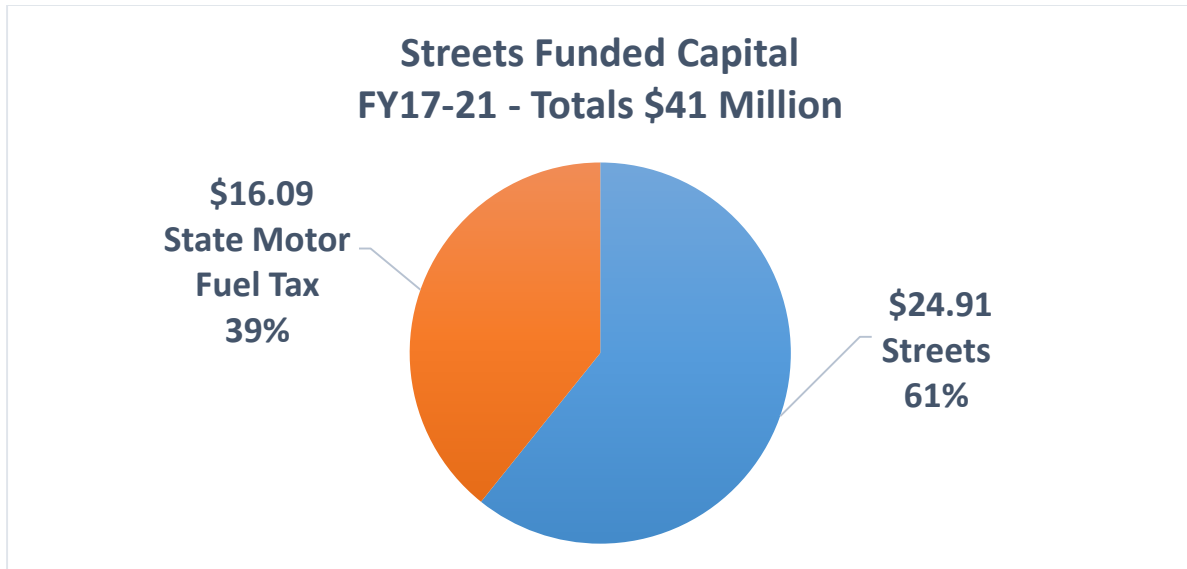
The Streets program and related areas such as sidewalks, ADA ramps and traffic signals are part of the infrastructure that the City recognizes is a priority to enable people to get around the City efficiently and safely. The City Council earmarked a new Local Motor Fuel Tax and .25% of a 1% increase in the Home Rule sales tax to specifically address the City's infrastructure needs of our streets. Even though this generates approximately \$4.8 M per year, there is the capacity within the Public Works department to complete about \$10 M per year of street work.

The dedicated revenue streams allow the City to have funding for the following projects throughout the next five years:

- Street and Alley Resurface Program
- ADA Sidewalk Ramp Replacement Program
- Sidewalk Repair Program
- Sidewalk Replacement 50-50 Program

Also in FY 2017, there is funding for the Harvest Point subdivision pavement oversizing construction, the Grove on Kickapoo Creek pavement oversizing and the Washington Street Realignment: Euclid-Brown feasibility study.

State Motor Fuel Tax revenues distributed by the state will fund several projects. The largest project is the Linden Street Bridge and Trail construction at \$1.6 M. There will also be a purchase of land for the Fox Creek Bridge. This funding has provided for \$.5 M for utility charges for street lighting since last fiscal year.



There will be a feasibility study completed for Lafayette Street from Main to Ash Street and road street improvements for Towanda Barnes Road at Ireland Grove Road (sharing cost with the county). Traffic signal construction includes:

- Hershey Road at Arrowhead
- Hershey Road at Clearwater Avenue
- GE Road at Keaton Place
- Towanda Avenue at Vernon Avenue

In the out years funding is secured for the Fox Creek Road Bridge over the Union Pacific Railroad (UPRR) and roadway improvements, Fort Jesse Road reconstruction to Kaisner, land purchase for Briarwood subdivision infrastructure, Hamilton Road phase 2 design (Bunn-Commerce- not fully funded) and some additional traffic signals and bridge replacements.

### **Funding Not Secured**

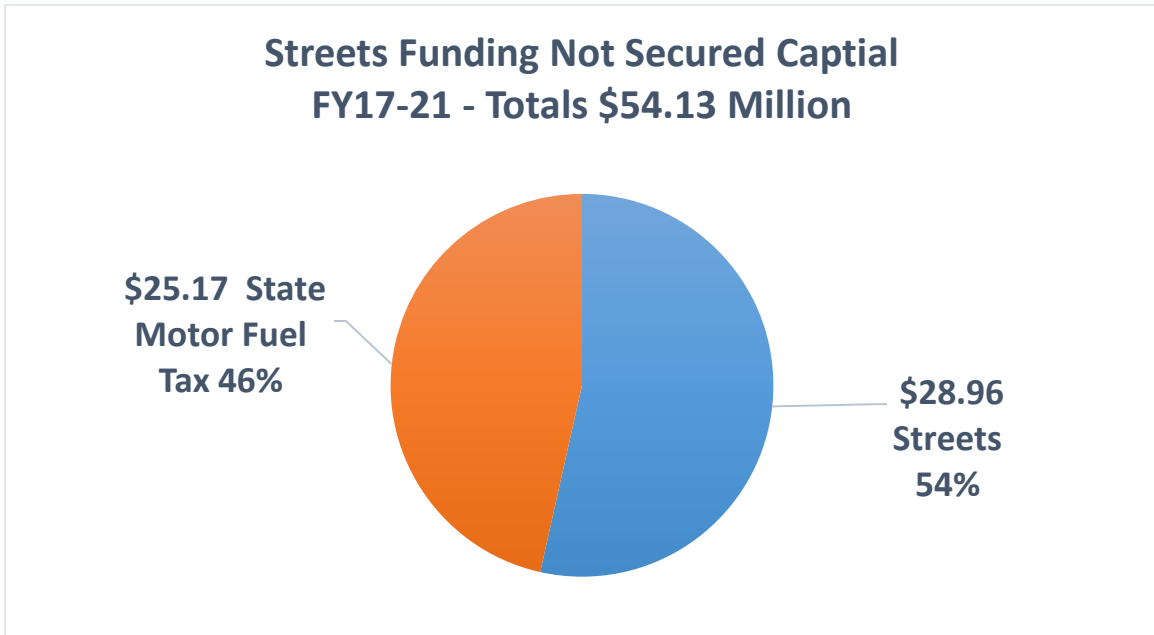
The projects without secured funding are understated in the Streets subcategory. Although there is almost \$4 M showing as not funded, Public Works has always taken the conservative approach of primarily only budgeting for those projects they have more confidence will be funded. The number of projects that need funding will grow next year as we know there are many street needs.

Some of the major Street projects that are not currently funded are:

- The Lutz Road reconstruction: Morris Ave to Luther Oaks
- Miller Park road resurfacing, curb and gutter
- The Grove on Kickapoo ongoing pavement oversizing
- Multi-year Downtown street light design and construction



- The Empire Business Park Cornelius Drive oversizing



The State Motor Fuel Tax projects that do not have secured funding include some major projects that Public Works has been trying to save for from fund balance to push these projects forward. The largest project at \$10 M is the actual construction of Hamilton Road Bunn to Commerce. This also depends on the design and preliminary work that must be funded and completed before construction in FY 2020.

There are also numerous bridge replacements such as Jersey Avenue and Cottage Avenue.

There are other signals not being funded at Airport and Fort Jesse Road, Empire Street (Fire Station #3) and Streid Drive at Ireland Grove. This fund may not be able to cover the \$.5 M in utility charges in the out years. The continuation of the Briarwood Subdivision infrastructure rehabilitation started in FY 2017 does not have funding in the out years to complete this multi-year project.

**Street Resurfacing Program****Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Streets, Sidewalks & ADA Ramps	Multi-Year Street & Alley Resurface Program (\$2.4M supported by LMFT & \$2,404,573.62 additional projected of .25% portion of the 1% increase of the Home Rule Sales Tax effective January 1, 2016. )	Funding Secured	3,362	3,614	3,628	3,658	3,662	17,923
	Multi-Year ADA Sidewalk Ramp Replacement Program (\$2.4M supported by LMFT & \$2,404,573.62 additional projected of .25% portion of the 1% increase of the Home Rule Sales Tax effective January 1, 2016. )	Funding Secured	500	500	500	500	500	2,500
	Multi-Year Sidewalk Repair Program (\$2.4M supported by LMFT & \$2,404,573.62 additional projected of .25% portion of the 1% increase of the Home Rule Sales Tax effective January 1, 2016. )	Funding Secured	463	489	500	494	509	2,455
	Multi-Year Sidewalk Replacement 50-50 Program (\$2.4M supported by LMFT & \$2,404,573.62 additional projected of .25% portion of the 1% increase of the Home Rule Sales Tax effective January 1, 2016. )	Funding Secured	100	100	100	100	100	500
	Emergency Multi-Year Street, Alley & Sidewalk Repairs (\$2.4M supported by LMFT & \$2,404,573.62 additional projected of .25% portion of the 1% increase of the Home Rule Sales Tax effective January 1, 2016. )	Funding Secured	200	200	200	200	206	1,006
	FY 2017 Resurfacing-Remaining Portion of 2013 Bond for \$10.0 Million-Street Resurfacing	Funding Secured	271	-	-	-	-	271
	Harvest Point Subdivision Pavement Oversizing Construction	Funding Secured	14	-	-	-	-	14
	Washington Street Realignment: Euclid - Brown - Feasibility Study	Funding Secured	40	-	-	-	-	40
	The Grove on Kickapoo Creek Subdivision Pavement Oversizing	Funding Secured	200	-	-	-	-	200
	The Grove on Kickapoo Creek Subdivision Pavement Oversizing	Funding not Secured	-	225	55	570	480	1,330
	Streets 2.0	Funding not Secured	5,000	5,000	5,000	5,000	5,000	25,000
	Multi-Year Downtown Street Light Design / Construction	Funding not Secured	-	275	-	-	-	275
	Multi-year Empire Business Park - Cornelius Dr. Oversizing Construction (Developer paying majority)	Funding not Secured	-	230	-	-	-	230
	Locust Colton CSO Elimination & Water Main Replacement - Construction Phase 2	Funding not Secured	-	50	-	-	-	50
	Lutz Road Reconstruction: Morris Avenue to Luther Oaks Construction	Funding not Secured	-	700	-	-	-	700
Miller Park Road Resurfacing, Curb & Gutter	Funding not Secured	-	-	1,000	-	-	1,000	

## Street Resurfacing Program

## Funding Secured &amp; Not Secured

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Streets	Multi-Year Downtown Street Light Design / Construction	Funding not Secured	-	-	-	375	-	375
Streets Secured Total			5,150	4,903	4,927	4,952	4,977	24,910
Streets not Secured Total			5,000	6,480	6,055	5,945	5,480	28,960
State Motor Fuel Tax	Linden Street Bridge & Trail Construction	Funding Secured	1,600					1,600
	Fox Creek Bridge Land Purchase	Funding Secured	40					40
	Hershey Road @ Arrowhead Traffic Signals Construction	Funding Secured	625					625
	Hershey Road @ Clearwater Avenue Traffic Signals Construction	Funding Secured	625					625
	GE Road @ Keaton Place Traffic Signals and NB Turn Lane Land & Construction	Funding Secured	540					540
	Towanda Ave @ Vernon Ave Traffic Signals w/NBR Turn Ln Land & Construction	Funding Secured	450					450
	Lafayette Street: Main Street to Ash Street - Feasibility Study	Funding Secured	120					120
	Lafayette Street: Main Street to Ash Street - Feasibility Study	Funding not Secured					8,000	8,000
	Towanda Barnes Rd @ Ireland Grove Rd Improvement (City share)	Funding Secured	400					400
	Street Lighting Charges	Funding Secured	500				500	1,000
	Street Lighting Charges	Funding not Secured		500	500	500		1,500
	Empire St (IL 9) Left Turn Lane @ Harvest Pointe Blvd Design & Construction	Funding Secured		475				475
	Fox Creek Road Bridge over UPRR & Roadway Improvements	Funding Secured		5,950				5,950
	Fort Jesse Road Reconstruction (Towanda Barnes - Kaisner)	Funding Secured			1,400			1,400
	Briarwood Subdivision Infrastructure Rehabilitation Land	Funding Secured			22			22
	Briarwood Subdivision Infrastructure Rehabilitation Land	Funding not Secured			63			63
	Airport Road @ Fort Jesse Traffic Signals	Funding not Secured			505			505
	Hershey Road @ Fort Jesse Traffic Signals	Funding not Secured			480			480
	Hamilton Road Phase II Design (Bunn - Commerce)	Funding Secured			902			902
	Hamilton Road Phase II Design (Bunn - Commerce)	Funding not Secured			98			98
	Briarwood Subdivision Infrastructure Rehabilitation Construction	Funding not Secured				950		950
	Empire Street (IL 9) @ Firestation #3 Traffic Signal	Funding Secured				190		190
	Empire Street (IL 9) @ Firestation #3 Traffic Signal	Funding not Secured				310		310
	Jersey Avenue Bridge Replacement	Funding not Secured				1,630		1,630
	Cottage Avenue Bridge Replacement	Funding not Secured				1,630		1,630
	Hamilton Road Bunn to Commerce - Construction	Funding not Secured				10,000		10,000
	Streid Drive @ Ireland Grove Road Traffic Signals	Funding Secured					500	500
	Cottage Bridge Replacement	Funding Secured					750	750
	Street Lighting Charges	Funding Secured					500	500
State Motor Fuel Tax Secured Total			4,900	6,425	2,324	190	2,250	16,089

**Street Resurfacing Program****Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
State Motor Fuel Tax not Secured Total			-	500	1,646	15,020	8,000	25,166
Total Funded Street Projects			10,050	11,328	7,252	5,142	7,227	40,999
Total not Funded Street Projects			5,000	6,980	7,701	20,965	13,480	54,126
<b>TOTAL ALL STREET PROJECTS</b>			<b>15,050</b>	<b>18,308</b>	<b>14,952</b>	<b>26,107</b>	<b>20,707</b>	<b>95,125</b>

DRAFT

## **Water**

### **Overview**

The Water department is dedicated to providing a high-quality water supply, a resilient and reliable system and excellent customer service. The water produced by the department is consistently of higher quality than required by federal and state drinking water regulations. Unlike standard municipal services which serve only a single municipality, the Water department has a much wider scope and serves approximately 50% of the total population of McLean County, as well as many of the largest employers in Bloomington and Normal.

Bloomington's water system is vast and includes two manmade lakes, a water treatment plant, transmission mains, reservoirs, pumping stations, storage facilities, water mains and other elements.

The primary near-term goal of the Water department is to address deferred operations and maintenance projects, while the near-to-long-term goals include the development of a Water Department Infrastructure Master Plan and implementation of the Interim Water Supply Plan. Many projects in the FY 2017-2021 CIP focus on addressing the concerns of an aging water system, which are evident across all department functions.

Historically, system maintenance activities have consumed the majority of staff effort. Staff is developing procedures and leveraging other resources in order to increase focus on capital projects and planning. It is essential to plan, design, construct, operate and maintain the system to achieve maximum flexibility, operational efficiency, safety and reliability.

These water capital projects are essential for meeting current and future needs while maintaining compliance with state and federal regulations. It is important to note that a number of these projects require careful coordination with other departments to make the best use of resources.

### **Project Categories**

Water capital projects fall into one of the following categories, which also represent a part of the Water department system:

#### Department Administration

Department Administration provides support and administrative services for operations. The majority of administrative functions are performed at the Division Street office.

#### Water Supply & Future Planning

The City of Bloomington obtains water from two man-made reservoirs, the Lake Bloomington reservoir and Evergreen Lake reservoir. The Lake Bloomington reservoir is fed by runoff from 70-square miles of land while the drainage area for the Evergreen Lake reservoir is 41-square miles. The majority of the watershed is agricultural in nature.

The water supply challenges of the City of Bloomington are typical of many communities. The Water department must address both short-term issues related to surface-water quality deterioration and interim-term needs for additional sources of supply.

The City is working to alleviate two areas of concern: high nitrate levels in reservoirs and finding new sources of water to support future population growth in the City. An Interim Water Supply Plan has been crafted that takes into consideration available supplies, water quality, management and infrastructure options. The CIP includes projects that will continue implementation of the water supply plan.

### Water Treatment Operations

The Water Treatment plant at Lake Bloomington exists to provide safe drinking water by processing water pumped from Lakes Bloomington and Evergreen. We are also responsible for managing the lakes and for maintaining our source water and watershed protection program, as well as operations and maintenance of the Water Treatment Plant, Evergreen pump station and Mackinaw pumping pool and pump station. Construction of Lake Bloomington and the adjacent Water Treatment Plant was completed in 1929, with an expansion of the plant completed in the 1980s. Lake Evergreen was originally constructed in the 1960s, while its dam was raised five feet in 1995, increasing storage capacity by 36%. In addition, water treatment staff is responsible for planning and management of related capital improvement projects.

### Lake Parks & Infrastructure Operations

The Lake Parks Maintenance division provides for the maintenance of the extensive lands surrounding our drinking water reservoirs, roadways and lanes on City property, and meter reading and distribution service maintenance in the Lake Bloomington area. Lake Parks also is responsible for the operations and maintenance of the Davis Lodge and the public boat ramp. Additionally, our lake patrol helps to maintain public safety and boat registration for users of Lake Bloomington and the parks. The majority of the division's functions are performed around Lake Bloomington and at Evergreen Lake dam.

### Mechanical Maintenance & Storage

The Department's mechanical maintenance staff are responsible for maintenance and operations of all Water Department facilities and grounds within the City and Town of Normal. These facilities include the Division Street offices, Fort Jesse pump stations and tanks, Hamilton Road elevated tank, North East Route 66 elevated tank, South Main Street pump station, Division pump station, Enterprise pump station, Division Street underground tanks, and number water quality and pressure monitoring systems. In addition, mechanical maintenance staff is responsible for planning and management of related capital improvement projects.

### Transmission & Distribution

The department's Transmission & Distribution staff responsible for both scheduled preventative maintenance and emergency repairs to the City's 400 plus miles of water transmission and

distribution mains, 4,700 fire hydrants, 20,000 distribution valves, meter vaults, and over 30,000 water service lines. In addition, transmission and distribution staff is responsible for planning and management of related capital improvement projects.

This division is also responsible for marking all City underground utility facilities under J.U.L.I.E (Joint Utility Locating Information for Excavators). J.U.L.I.E. is a non-for-profit corporation that provides contractors, excavators, homeowners, and others who may be disturbing the earth with a free service phone number to call for the locating and marking of underground utility facilities. The Department processes over 15,000 locate requests per year.

### Meter Services

The Water Meter Division oversees and maintains the City of Bloomington's metering system. The Meter Division reads over 32,000 water accounts for billing purposes for the water, sewer, and Bloomington Normal Water Reclamation District.

In addition, the Meter Service Division responds to customer service issues that include - low or high water pressure inside the home; water leaks from the meter; stopped and noisy meter related issues; verify the function of valve control from the water main into the customer's home.; water dripping from leaking plumbing fixtures. Staff also verifies the size and proper meter application, and performs service disconnections and reconnections.

### Billing & Collections

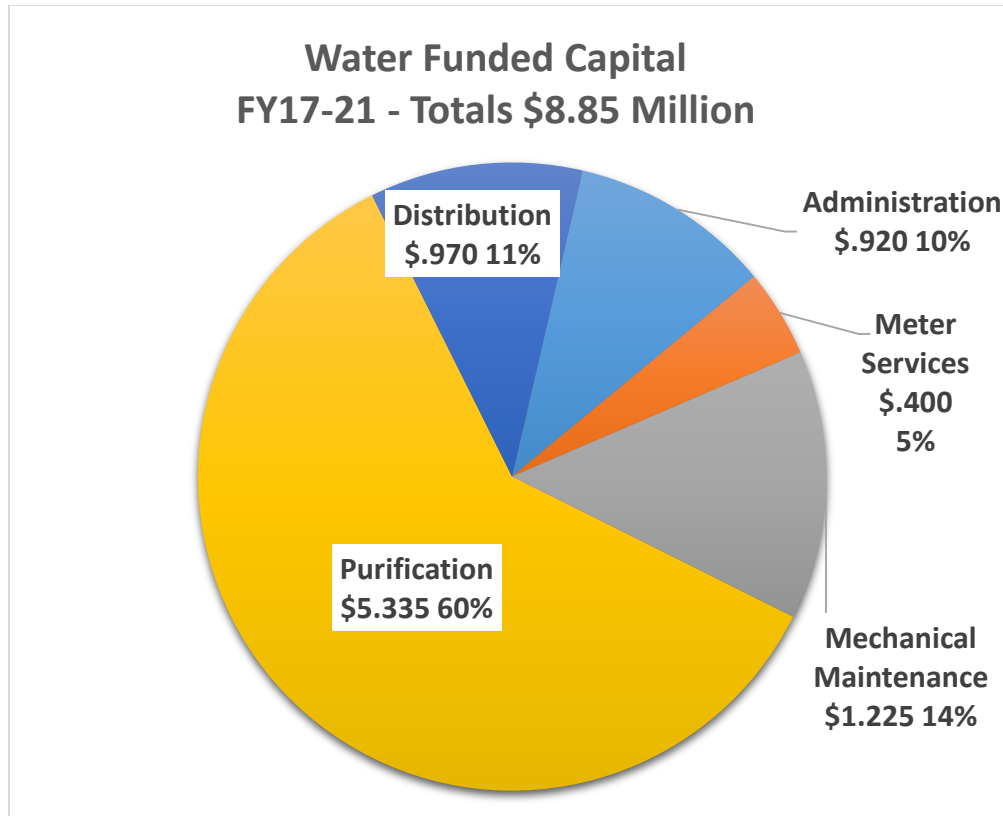
Staff performs billing and collection services for City water, solid waste, storm water, and sanitary sewer, as well contract billing for limited Town of Normal sewer customers, and the complete billing and remittance for the Bloomington and Normal Water Reclamation District (BNWRD).

### **Funding Outlook**

Water capital projects receive the majority of their funding from charges for services. The Water Fund has a projected beginning FY17 fund balance of approximately \$25 million. <Need more text>

### **Funding Secured**

Water projects are funded mainly through their charges for services (utility fees). Water has been working towards building a Fund Balance that can address many lower dollar projects but also several costly projects such as the construction of a deep groundwater production well by the Lake Bloomington Water Purification Plant and filter plant expansion. Together these projects total \$3.6 M.



In Administration, the projects include consulting services for the development of a Water department infrastructure Master Plan as well as a water rate study. To assist with moving forward the numerous capital projects, an outside consultant will be used for civil engineering services. The Water department will evaluate the value and contribution of the outside services at the end of the Fiscal Year to determine if the services will be used next Fiscal Year.

Water Meter Services will continue to upgrade to compound meters in this Fiscal Year and in the out years although funding is not secured after FY 2018. These are for wholesale water customers and provide timely information on leakages and illegal use of the water from the fire service lines.

Mechanical Maintenance has funding secured for the study/design of the Supervisory Control and Data Acquisition System (SCADA), which monitors many of the water infrastructure components as well as the design for the Division Street pump station improvements and the Water Treatment Plan and Lake Evergreen pump station arch flash study and field implementation. The Evergreen Pump Station will also go through an electrical conversion to make the station safer to work on for the electricians.

Purification has the largest portion of the funded capital projects including the following:

- Deep groundwater well development
- Multi-year reservoir shoreline/stream erosion control improvements
- Water Treatment Plant recarbonation bypass design and construction

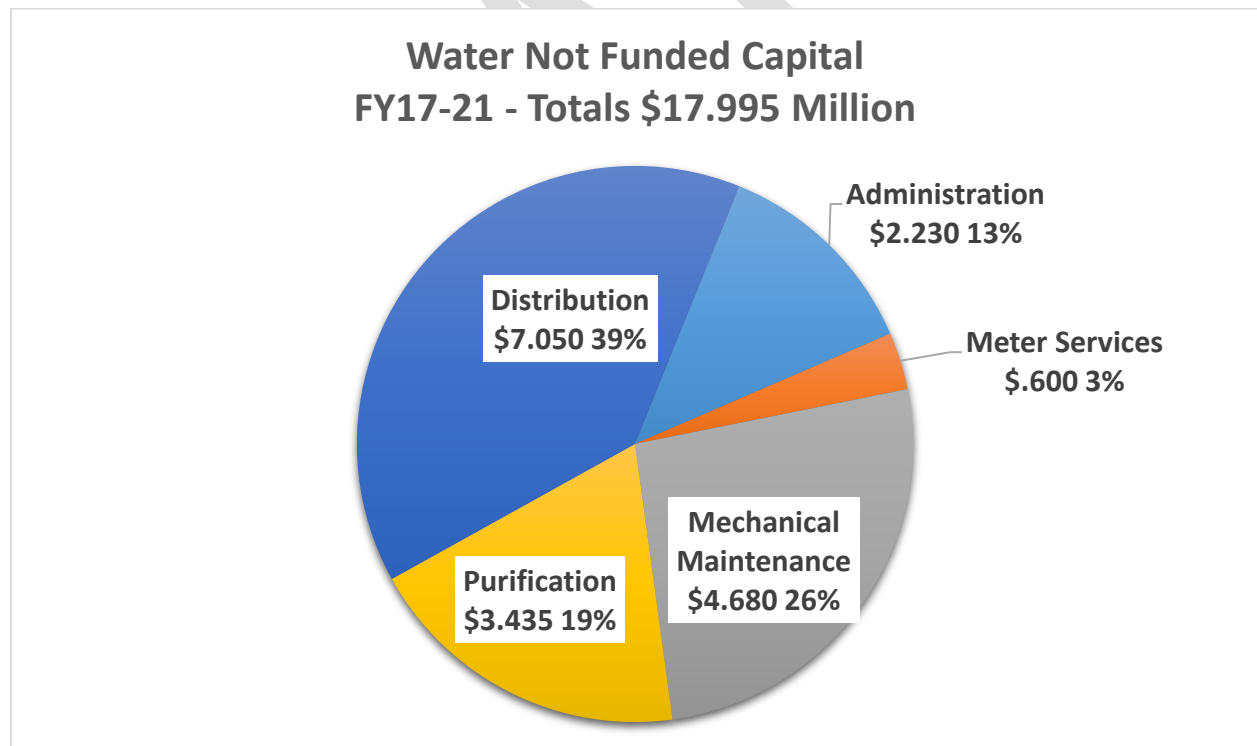


- Replacement of the roof on the old Water Treatment Plant
- Natural gas main replacement to Main Process building
- Water Treatment Plant Filter expansion design and construction
- Replacement of caulking at Lake Bloomington design and construction
- Fill area that had been used as a clean construction debris fill site at the Water Treatment Plant

Distribution has secured funding to replace or relocate the water mains at Parkview Drive, Fleetwood, May Drive, Cloud from McGregor to Vale and Shelbourne Drive (High Speed Rail conflict). The Lake Bloomington and Oak/Stewart water mains will also be replaced.

### Funding Not Secured

The Water department has 67% of all projects in the next five years without secured funding. Many of the projects in the design phase in FY 2017 that have secured funding will not be able to move forward in the out years. Some of the projects include the SCADA Master Plan actual construction, pump station arc flash implementation, Division Street pump station improvements (construction) and continued safety improvements for the electrical and building at the Water Treatment Plant.



Other critical projects with no secured funding include the Water Treatment Plant groundwater modifications design and construction, the design and construction of the Water Treatment Plant emergency ion exchange, northeast tank modification (study/design) and boiler replacements. Water main replacements that are without secured funding include:

- Lumber to Euclid
- Grove to Oakland
- Ireland Grove from Morrissey to Loop Road
- Pierce Avenue
- Cloud from McGregor Street to Vale
- Lumber to Magoun
- Olive to Oakland
- Gridley Street
- Cast Iron

DRAFT

**Water**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Administration	Multi-year Outside Consultant Civil Engineering Services	Funding Secured	285	285				570
	Multi-year Outside Consultant Civil Engineering Services	Funding not Secured			285	285	285	855
	Water Department Infrastructure Master Plan	Funding Secured	350					350
	Lake Bloomington Sewerization - Design - anticipate grants, SSA, user contribution	Funding not Secured			750			750
	Lake Bloomington Sewerization - Design - anticipate grants, SSA, user contribution	Funding not Secured					500	500
	Water Department Rate Study	Funding Secured			125			125
<b>Administration Secured Total</b>			635	285	-	-	-	920
<b>Administration not Secured Total</b>			-	-	1,160	285	785	2,230
Meter Services	Multi-year Compound Meter Upgrades	Funding Secured	200	200				400
	Multi-year Compound Meter Upgrades	Funding not Secured			200	200	200	600
<b>Meter Services Secured Total</b>			200	200	-	-	-	400
<b>Meter Services not Secured Total</b>			-	-	200	200	200	600
Mechanical Maintenance	SCADA Master Plan - Study/Design	Funding Secured	300					300
	Division Street Pump Station Improvements - Design	Funding Secured	50					50
	Water Treatment Plant & Lake Evergreen Pump Station Arc Flash Study & Field Implementation	Funding Secured	50					50
	Electrical Conversion of the Evergreen Pump Station	Funding Secured	75					75
	SCADA Master Plan - Construction	Funding not Secured		1,500				1,500
	Electrical Conversion of the Evergreen Pump Station - Construction	Funding Secured		750				750
	Pump Station Arc Flash Study and Field Implementation	Funding not Secured		50				50
	Hamilton Tank Valve Reconstruction - Design	Funding not Secured			30			30
	Hamilton Tank Valve Reconstruction - Construction	Funding not Secured				150		150
	Division Street Pump Station Improvements -Construction	Funding not Secured			750			750
	Electrical & Building Improvements at the Water Treatment Plan - Design	Funding not Secured				200		200
	Electrical & Building Improvements at the Water Treatment Plan - Construction	Funding not Secured					2,000	2,000
	<b>Mechanical Maintenance Secured Total</b>			475	750	-	-	-
<b>Mechanical Maintenance not Secured Total</b>			-	1,550	780	350	2,000	4,680
Purification	WTP Groundwater - Construction	Funding Secured	2,000					2,000
	Multi-year Reservoir Shoreline/Stream Erosion Control Improvements	Funding Secured	200					200
	Water Treatment Plant Recarbonation Bypass - Design	Funding Secured	25					25
	Old Water Treatment Plant Roof Replacement	Funding Secured	250					250
	Natural Gas Main Replacement to Main Process Building	Funding Secured	135					135
	Water Treatment Plant Filter Expansion - Design	Funding Secured	250					250
	Replacement of Caulking At Lake Bloomington - Design	Funding Secured	25					25
	Water Treatment Plant Fill Area Reshaping/Grading - Construction	Funding Secured	400					400
	WTP Modifications/Groundwater - Design	Funding not Secured			150			150
	WTP Modifications/Groundwater - Construction	Funding not Secured				1,000		1,000
	Replacement of Caulking at lake Bloomington - Construction	Funding Secured		200				200
	Replace the Drain System at Lake Evergreen Lake Reservoir - Design	Funding not Secured			35			35
	Replace the Drain System at Lake Evergreen Lake Reservoir - Construction	Funding not Secured				350		350
	Water Treatment Filter Plant Expansion - Construction	Funding Secured		1,600				1,600

**Water**

**Funding Secured & Not Secured**

(In thousands of dollars (e.g. 1,000 = \$1 million))

Subcategory	Project Title	Funding	2017	2018	2019	2020	2021	Total
Purification	Main Process Building Boiler Replacement	Funding not Secured			50			50
	Main Process Building Boiler Replacement	Funding not Secured			200			200
	Water Treatment plant Recarbonation Bypass - Construction	Funding Secured		250				250
	WTP Emergency Ion Exchange - Design	Funding not Secured				150		150
	WTP Emergency Ion Exchange - Constuction	Funding not Secured					1,500	1,500
<b>Purification Secured Total</b>			3,285	2,050	-	-	-	5,335
<b>Purification not Secured Total</b>			-	-	435	1,500	1,500	3,435
Distribution	Parkview Drive, Fleetwood, and Mays Drive Water Main - Design	Funding Secured	50					50
	Cloud from McGregor St to Vale Water Main Replacement - Design	Funding Secured	25					25
	24" Transmission Main Relocation at Shelbourne Drive (HSR Conflict)	Funding Secured	330					330
	Lumber St, to Euclid Ave and Grove to Oakland Water Main - Design	Funding not Secured			25			25
	Lumber to Euclid and Grove to Oakland Water Main - Construction	Funding not Secured				1,025		1,025
	Lumber to Magoun and Olive to Oakland Water Main Replacement - Design	Funding not Secured				25		25
	Ireland Grove Rd from Morrissey to Loop Rd Water Main Replacement - Design	Funding not Secured			25			25
	Pierce Ave Water Main replacement	Funding not Secured			325			325
	Parkview Drive, Fleetwood and Mays Drive Water Main - Construction	Funding not Secured		1,050				1,050
	Cloud from McGregor St to Vale Water Main Replacement - Construction	Funding not Secured			450			450
	Lake Bloomington Water Main Replacement - Construction	Funding Secured		465				465
	Oak/Stewart Water Main Replacement - Construction	Funding Secured		100				100
	Lumber to Magoun and Olive to Oakland Water Main Replacement - Construction	Funding not Secured					1,025	1,025
	Cast Iron Transmission Main Lining Project - Design	Funding not Secured			50			50
	Ireland Grove Rd from Morrissey to Loop Rd Water Main Replacement - Construction	Funding not Secured				650		650
	Gridley Street Water Main Replacement - Design	Funding not Secured				25		25
	Distribution	Northeast Tank Modifications - Study/Design	Funding not Secured					125
Cast Iron Transmission Main Lining Project - Construction		Funding not Secured				1,000	1,000	2,000
Gridley Street Water Main Replacement - Construction		Funding not Secured					250	250
<b>Distribution Secured Total</b>			405	565	-	-	-	970
<b>Distribution not Secured Total</b>			-	1,050	875	2,725	2,400	7,050
<b>Total Funded Water Projects</b>			5,000	3,850	-	-	-	8,850
<b>Total not Funded Water Projects</b>			-	2,600	3,450	5,060	6,885	17,995
<b>TOTAL ALL WATER PROJECTS</b>			<b>5,000</b>	<b>6,450</b>	<b>3,450</b>	<b>5,060</b>	<b>6,885</b>	<b>26,845</b>

\*It was necessary to not fund some projects in FY18 to maintain a 15% fund balance for FY19. The two out years are not balanced because operating costs outpace the revenue without capital.