

Six Year Capital Improvement Plan
Budget Year 2018-2019 by Program Name

All Projects Submitted for 2018-2019

<p>Bold - Indicates projects occurring in the first FY of the plan. + - Indicates projects with multiple funding sources.</p>										
Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds

Bridges

714-18-CIP	200 Block Alley Enhanced Improvements	V	\$0	\$0	\$0	\$817,000	\$0	\$0	\$817,000	\$817,000	\$0
+ 58-18-CIP	Eighth Street Bridge Repair	V	\$1,055,000	\$0	\$0	\$0	\$0	\$0	\$1,055,000	\$1,055,000	\$0
+ 885-18-CIP	North Cass Street Bridge Rehabilitation	V	\$183,000	\$0	\$0	\$0	\$1,035,000	\$0	\$1,218,000	\$1,218,000	\$0
+ 586-18-CIP	Park Street Bridge Repair	V	\$1,000,000	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
+ 187-18-CIP	South Cass Street Bridge Repair	V	\$982,000	\$0	\$0	\$0	\$0	\$0	\$982,000	\$982,000	\$0
+ 186-18-CIP	South Union Street Bridge Repair	V	\$0	\$0	\$0	\$1,134,000	\$0	\$0	\$1,134,000	\$1,134,000	\$0
+ 535-18-CIP	West Front Street Bridge Replacement	V	\$1,320,000	\$0	\$0	\$0	\$0	\$0	\$1,320,000	\$1,320,000	\$0
Total Bridges			\$4,540,000	\$0	\$0	\$1,951,000	\$1,035,000	\$0	\$7,526,000	\$7,526,000	\$0



Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

714-18-CIP 200 Block Alley Enhanced Improvements

Project Information

Submitted By: Rob Baciagalupi **Department:** Downtown Development
Category: Visionary **Department Head:** Jean Derenzy
Fund Group: Tax Increment Financing **Staff Priority:** Essential (Should Do)
Fund Detail: TIF 97 **Council Priority:**

Project Description:

Pedestrian bridge, riverwalk and pedestrian improvements to north East Front alley between Cass and Park.

714-18-CIP-C 200 Block Alley Enhanced Improvements - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$0	\$0	\$0	\$817,000	\$0	\$0	\$817,000
							Project Total:	\$817,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$817,000	Cost Total: \$817,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Landscaping and streetscape elements will result in additional services. Trash receptacle pick up

Project Justification:

TIF 97

Location Description:

Alley north of the 200 block of E. Front Street



Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

58-18-CIP Eighth Street Bridge Repair

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 2

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority: Imperitive (Must Do)
Council Priority:

Project Description:

The work will include concrete box beam deck removal and replacement, railing replacement, sidewalk widening, riverbank slope protection, approach work and related work including aesthetic treatments. Twenty percent of the composite deck area is delaminated/defective. The City received \$750,000 in funding thru the MDOT Local Bridge Program which requires a 5% local match and the City to perform engineering for the project. This project needs to be coordinated with the Midtown Water Transmission Line #115 project included in the Water Fund.

58-18-CIP-C Eighth Street Bridge Repair (+Grant) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
ACPF	Available Capital Projects Fund	\$155,000	\$0	\$0	\$0	\$0	\$0	\$155,000
FSG	Federal / State Grant	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000
TIFOT	TIF Old Town	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Project Total:								\$1,055,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,055,000	Cost Total: \$1,055,000
Annual Maint. Cost:	\$5,500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

885-18-CIP North Cass Street Bridge Rehabilitation

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	Imperitive (Must Do)
Fund Detail:	TIF 97	Council Priority:	

Project Description:

The work anticipated includes the removal and replacement of the existing concrete box beam supported deck, widening and replacement of the sidewalks, railings, approach pavement and related work.

885-18-CIP-C North Cass Street Bridge Rehabilitation (+ - Cost)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$935,000	\$0	\$935,000
IN	Inkind	\$183,000	\$0	\$0	\$0	\$0	\$0	\$183,000
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$100,000	\$0	\$100,000
Project Total:								\$1,218,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$183,000	
Construction:	\$1,035,000	Cost Total: \$1,218,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improvement should lessen service burden.

Project Justification:

Bridge rehabilitation due the deck condition and known foundation type information.

Location Description:

North Cass Street bridge located between Grandview Parkway and E. Front Street.



Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

586-18-CIP Park Street Bridge Repair

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Rehabilitate bridge superstructure. It is possible this project could move to FY 17/18.

586-18-CIP-C Park Street Bridge Repair - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000
TIF97	TIF 97	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000
Project Total:								\$1,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,000,000	Cost Total: \$1,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

187-18-CIP South Cass Street Bridge Repair

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

Concrete arch rehabilitation. This project may move to FY 17/18.

187-18-CIP-C South Cass Street Bridge Repair(+TIF2) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$850,000	\$0	\$0	\$0	\$0	\$0	\$850,000
TIF97	TIF 97	\$66,000	\$0	\$0	\$0	\$0	\$0	\$66,000
TIFOT	TIF Old Town	\$66,000	\$0	\$0	\$0	\$0	\$0	\$66,000
							Project Total:	\$982,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$982,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$982,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

186-18-CIP South Union Street Bridge Repair

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development	Project Description: Rehabilitate bridge superstructure.
Category:	Visionary	Department Head:	Jean Derenzy	
Fund Group:	Tax Increment Financing	Staff Priority:		
Fund Detail:	TIF 97	Council Priority:		

186-18-CIP-C South Union Street Bridge Repair (+TIF2) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$945,000	\$0	\$0	\$945,000
GEN	General Fund	\$0	\$0	\$0	\$63,000	\$0	\$0	\$63,000
TIF97	TIF 97	\$0	\$0	\$0	\$63,000	\$0	\$0	\$63,000
TIFOT	TIF Old Town	\$0	\$0	\$0	\$63,000	\$0	\$0	\$63,000

Project Total: \$1,134,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,134,000	Cost Total: \$1,134,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BRIDGES-18-CIP

Bridges

535-18-CIP West Front Street Bridge Replacement

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	Imperitive (Must Do)
Fund Detail:	TIF 97	Council Priority:	

Project Description:

This project includes the complete removal and replacement of the existing concrete arch bridge with a new concrete bridge including aesthetic treatments. The current condition of the Front Street bridge is poor and very poor and it cannot be properly evaluated and renovated to meet current service and load carrying requirements. The City received \$1,100,000 in funding thru the MDOT Local Bridge Program which requires a 5% local match and the City to perform engineering for the project.

535-18-CIP-C West Front Street Bridge Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$1,100,000	\$0	\$0	\$0	\$0	\$0	\$1,100,000
TIF97	TIF 97	\$220,000	\$0	\$0	\$0	\$0	\$0	\$220,000
Project Total:								\$1,320,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,320,000	Cost Total: \$1,320,000
Annual Maint. Cost:	\$5,500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

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+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
Brown Bridge										
+ 850-18-CIP	ADA Trail Improvements	V	\$95,000	\$0	\$0	\$0	\$0	\$95,000	\$95,000	\$0
849-18-CIP	Bucks Landing Renovation	V	\$0	\$15,000	\$0	\$15,000	\$0	\$30,000	\$30,000	\$0
+ 847-18-CIP	Historic Brown's Bridge (West-End)	V	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
+ 851-18-CIP	Interpretive and Navigational Signage	V	\$10,000	\$10,000	\$0	\$0	\$0	\$20,000	\$20,000	\$0
852-18-CIP	Invasive Species Surveys	V	\$0	\$5,000	\$0	\$5,000	\$0	\$10,000	\$10,000	\$0
853-18-CIP	Invasive Species Treatment	V	\$10,000	\$0	\$10,000	\$0	\$0	\$20,000	\$20,000	\$0
848-18-CIP	North Access Road Stabilization	V	\$10,000	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$0
+ 863-18-CIP	North Parking Lot Improvements	V	\$0	\$15,000	\$0	\$0	\$0	\$15,000	\$15,000	\$0
+ 856-18-CIP	Overlook (2) and Access Steps (3 sets)	V	\$0	\$45,000	\$0	\$0	\$0	\$45,000	\$45,000	\$0
+ 855-18-CIP	Overlook and Historical Display at Former Powerho	V	\$0	\$15,000	\$0	\$0	\$0	\$15,000	\$15,000	\$0
+ 865-18-CIP	Southside ADA Trail	V	\$0	\$10,000	\$10,000	\$0	\$0	\$20,000	\$20,000	\$0
975-18-CIP	Wildlife Habitat Improvements (Bottomelands Plant	V	\$10,000	\$0	\$10,000	\$0	\$0	\$20,000	\$20,000	\$0
Total Brown Bridge			\$155,000	\$115,000	\$30,000	\$20,000	\$0	\$320,000	\$320,000	\$0

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

850-18-CIP **ADA Trail Improvements**

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Brown Bridge Trust Parks Impr

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Install crushed and compacted limestone from Buck's Landing to new Bridge to improve handicap accessibility.

850-18-CIP-C Crushed Limestone for New Bottomland Trail - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$47,500	\$0	\$0	\$0	\$0	\$0	\$47,500
FSG	Federal / State Grant	\$23,750	\$0	\$0	\$0	\$0	\$0	\$23,750
P	Private	\$23,750	\$0	\$0	\$0	\$0	\$0	\$23,750
Project Total:								\$95,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$95,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$95,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

849-18-CIP **Bucks Landing Renovation**

Project Information

Submitted By: Larry LaCross **Department:** Department of Public Services
Category: Visionary **Department Head:** Frank Dituri
Fund Group: Brown Bridge Maintenance Fur **Staff Priority:** Important (Could Do)
Fund Detail: Brown Bridge Maintenance Fur **Council Priority:**

Project Description:

Gravel and re-grade existing parking lot at Bucks Landing off Brown Bridge Road; Replace fencing

849-18-CIP-C Bucks Landing Renovation - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBM	Brown Bridge Maintenance Fund	\$0	\$15,000	\$0	\$15,000	\$0	\$0	\$30,000
							Project Total:	\$30,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$30,000 **Cost Total:** \$30,000
Annual Maint. Cost: **Project Difference:** \$0
Maint. Year Start:

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP

Brown Bridge

847-18-CIP

Historic Brown's Bridge (West-End)

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Brown Bridge Trust Parks Impr

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Most people don't know that in 1869 William Walter Brown purchased 80 acres from the state of Michigan for \$50. Soon thereafter Mr. Brown and his neighbors constructed a bridge across the Boardman that became one of the area's first State Roads. The site was also home to an inn called the "Half-Way House" because of its mid-point position between Grand Rapids and the Straits. Today there is great interest in constructing a foot bridge at the original site of the historic Brown's Bridge. Not only would the bridge provide a critical recreational trail connection across the Boardman River but it will also serve as an important bridge to the past. \$140,000 is planned to be used 2017/2018.

847-18-CIP-C Historic Brown's Bridge (West-End) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
P	Private	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
							Project Total:	\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$160,000	Cost Total: \$160,000
Annual Maint. Cost:		Project Difference: \$-140,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

851-18-CIP **Interpretive and Navigational Signage**

Project Information

Submitted By: Larry LaCross **Department:** Department of Public Services
Category: Visionary **Department Head:** Frank Dituri
Fund Group: Brown Bridge Trust Parks Impr **Staff Priority:** Important (Could Do)
Fund Detail: Brown Bridge Trust Parks Impr **Council Priority:**

Project Description:

Design and install interpretative and navigational signage to improve way-finding and education opportunities on the trails.

851-18-CIP-C Interpretive and Navigational Signage - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$5,000	\$5,000	\$0	\$0	\$0	\$0	\$10,000
FSG	Federal / State Grant	\$2,500	\$2,500	\$0	\$0	\$0	\$0	\$5,000
P	Private	\$2,500	\$2,500	\$0	\$0	\$0	\$0	\$5,000
Project Total:								\$20,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$20,000 **Cost Total:** \$20,000
Annual Maint. Cost: **Project Difference:** \$0
Maint. Year Start:

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

852-18-CIP **Invasive Species Surveys**

Project Information

Submitted By:	Larry LaCross	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Brown Bridge Maintenance Fur	Staff Priority:	Essential (Should Do)
Fund Detail:	Brown Bridge Maintenance Fur	Council Priority:	

Project Description:

Continue to monitor and map existing/emerging populations of invasive species and prioritize their treatment/removal.

852-18-CIP-C Invasive Species Surveys - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBM	Brown Bridge Maintenance Fund	\$0	\$5,000	\$0	\$5,000	\$0	\$0	\$10,000
							Project Total:	\$10,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$10,000	Cost Total: \$10,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**
853-18-CIP **Invasive Species Treatment**

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Maintenance Fur
Fund Detail: Brown Bridge Maintenance Fur

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Treat/remove invasive species that threaten ecologic integrity of Brown Bridge.

853-18-CIP-C Invasive Species Treatment - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBM	Brown Bridge Maintenance Fund	\$10,000	\$0	\$10,000	\$0	\$0	\$0	\$20,000
							Project Total:	\$20,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$20,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$20,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP

Brown Bridge

848-18-CIP

North Access Road Stabilization

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Maintenance Fur
Fund Detail: Brown Bridge Maintenance Fur

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Stabilize road surface and adjoining slopes to limit/prevent soil erosion at the north end of the former earthen dam.

848-18-CIP-C Berm Trail Stabilization - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBM	Brown Bridge Maintenance Fund	\$10,000	\$0	\$0	\$0	\$0	\$0	\$10,000
							Project Total:	\$10,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$10,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$10,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP

Brown Bridge

863-18-CIP North Parking Lot Improvements

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Brown Bridge Trust Parks Impr

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Gravel and re-grade parking lots on Ranch Rudolf Road; Replace fencing.

863-18-CIP-C North Parking Lot Improvements - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
FSG	Federal / State Grant	\$0	\$3,750	\$0	\$0	\$0	\$0	\$3,750
P	Private	\$0	\$3,750	\$0	\$0	\$0	\$0	\$3,750
Project Total:								\$15,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$15,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$15,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP

Brown Bridge

856-18-CIP

Overlook (2) and Access Steps (3 sets)

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Brown Bridge Trust Parks Impr

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Provide viewing opportunities and river access points to the "new" section of river to limit stream bank erosion caused by recreational foot traffic.

856-18-CIP-C Overlook (2) and Access Steps (3 sets) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$22,500	\$0	\$0	\$0	\$0	\$22,500
FSG	Federal / State Grant	\$0	\$11,250	\$0	\$0	\$0	\$0	\$11,250
P	Private	\$0	\$11,250	\$0	\$0	\$0	\$0	\$11,250
Project Total:								\$45,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$45,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$45,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

855-18-CIP **Overlook and Historical Display at Former Powerho**

Project Information

Submitted By:	Larry LaCross	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)
Fund Detail:	Brown Bridge Trust Parks Impr	Council Priority:	

Project Description:

Design and install an overlook and historic display featuring one of the turbines removed from the powerhouse during decommissioning of the dam.

855-18-CIP-C Overlook and Historical Display at Former - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$7,500	\$0	\$0	\$0	\$0	\$7,500
FSG	Federal / State Grant	\$0	\$3,750	\$0	\$0	\$0	\$0	\$3,750
P	Private	\$0	\$3,750	\$0	\$0	\$0	\$0	\$3,750
Project Total:								\$15,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$15,000	Cost Total: \$15,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP **Brown Bridge**

865-18-CIP **Southside ADA Trail**

Project Information

Submitted By: Larry LaCross
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Brown Bridge Trust Parks Impr

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Establish an ADA trail from Buck's Landing to an area overlooking the new river channel and bottomlands

865-18-CIP-C Southside ADA Trail - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$5,000	\$5,000	\$0	\$0	\$0	\$10,000
FSG	Federal / State Grant	\$0	\$2,500	\$2,500	\$0	\$0	\$0	\$5,000
P	Private	\$0	\$2,500	\$2,500	\$0	\$0	\$0	\$5,000

Project Total: \$20,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$20,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$20,000

Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

BB-18-CIP

Brown Bridge

975-18-CIP

Wildlife Habitat Improvements (Bottomlands Plant)

Project Information

Submitted By:	Larry LaCross	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Brown Bridge Maintenance Fur	Staff Priority:	Important (Could Do)
Fund Detail:	Brown Bridge Maintenance Fur	Council Priority:	

Project Description:

Native Species planting to provide forage, nesting and breeding sites for wildlife. Riparian Planting will provide bank stabilization as well as habitat benefits.

975-18-CIP-C Wildlife Habitat Improvements (Bottomland - Cost)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBM	Brown Bridge Maintenance Fund	\$10,000	\$0	\$10,000	\$0	\$0	\$0	\$20,000
							Project Total:	\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

<p>Bold - Indicates projects occurring in the first FY of the plan. + - Indicates projects with multiple funding sources.</p>										
Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds

Cemetery

47-18-CIP	Install Cremation Niches in Mausoleum	V	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$20,000	\$0
48-18-CIP	Paving of Main Loop in First Addition	V	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$20,000	\$0
Total Cemetery			\$0	\$0	\$40,000	\$0	\$0	\$0	\$40,000	\$40,000	\$0



Six Year Capital Improvement Program

CEMETERY-18-CIP

Cemetery

47-18-CIP Install Cremation Niches in Mausoleum

Project Information

Submitted By: Lauren Vaughn
Category: Visionary
Fund Group: General
Fund Detail: Cemetery

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

This project would allow additional burial options for families and utilize an area of the mausoleum that is currently not being used. It would also make the lobby area more attractive and provide more revenue potential.

47-18-CIP-C Install Cremation Niches in Mausoleum - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000
							Project Total:	\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:	\$300	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

CEMETERY-18-CIP

Cemetery

48-18-CIP Paving of Main Loop in First Addition

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Cemetery	Council Priority:	

Project Description:

The roads in this area are dusty gravel and often have rough areas. This project would provide paved connections to all main parts of the cemetery. This would tie together the main cemetery road through Plat 1 to First Addition and Fourth Addition.

48-18-CIP-C Paving of Main Loop in First Addition - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000
							Project Total:	\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Civic											
+ 870-18-CIP	Civic Square	V	\$0	\$0	\$0	\$0	\$0	\$6,000,000	\$6,000,000	\$6,000,000	\$0
+ 781-18-CIP	Farmers Market	V	\$0	\$3,300,000	\$0	\$0	\$0	\$3,300,000	\$3,300,000	\$3,300,000	\$0
82-18-CIP	Lower Boardman River Universal Access	V	\$0	\$0	\$0	\$0	\$700,000	\$700,000	\$700,000	\$700,000	\$0
646-18-CIP	Redevelopment of Lot O	V	\$0	\$0	\$0	\$0	\$316,000	\$316,000	\$316,000	\$316,000	\$0
877-18-CIP	Uptown/West Front Riverwalk from Union Street Dam	V	\$490,000	\$0	\$0	\$0	\$0	\$490,000	\$490,000	\$490,000	\$0
Total Civic			\$490,000	\$3,300,000	\$0	\$0	\$1,016,000	\$6,000,000	\$10,806,000	\$10,806,000	\$0



Six Year Capital Improvement Program

CIVIC-18-CIP

Civic

870-18-CIP

Civic Square

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Public gathering space for Traverse Cityans and visitors

870-18-CIP-C Civic Square (+Private) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$5,000,000	\$5,000,000
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$0	\$1,000,000	\$1,000,000
							Project Total:	\$6,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$1,000,000	
Engineering / Design:	\$0	
Construction:	\$5,000,000	Cost Total: \$6,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Additional landscaping and streetscape elements will result in additional services. Addition of restrooms will result in contracting services for maintenance if open year round. Renovation of the space will may result in rental i.e. issuing permits for use

Project Justification:

TIF 97

Location Description:

NE corner of State and Cass is where it is designate in the TIF plan



Six Year Capital Improvement Program

CIVIC-18-CIP

Civic

781-18-CIP

Farmers Market

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Reconstruction of the Farmers Market Lot B with permanent structure, wider sidewalks, river enhancements, lighting, and reconstruction of parking lot. \$400,000 from Parking Fund.

781-18-CIP-C Farmers Market - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$2,700,000	\$0	\$0	\$0	\$0	\$2,700,000
TIF97	TIF 97	\$0	\$600,000	\$0	\$0	\$0	\$0	\$600,000
Project Total:								\$3,300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$300,000	
Construction:	\$3,000,000	Cost Total: \$3,300,000
Annual Maint. Cost:	\$10,000	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Additional landscaping and placement of shed will require additional snowplowing services. Addition of restrooms will result in contracting services for maintenance if open year round. Renovation of the space and "birdhouse" will may result in rental i.e. issuing permits for use

Project Justification:

Boardman River Enhancement

Location Description:

See Lot B Rehab.

Six Year Capital Improvement Program

CIVIC-18-CIP

Civic

82-18-CIP Lower Boardman River Universal Access

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

To beautify and enhance the river environment for recreationalist and fisheries.

82-18-CIP-C Lower Boardman River Universal Access- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$700,000	\$0	\$700,000
							Project Total:	\$700,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$700,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$700,000
Project Difference: \$0

Service Impact:

The project may be in conjunction with other items, but would most likely result in maintenance to a boardwalk and landscaping and require additional services for snow removal

Project Justification:

Boardman River Enhancement

Location Description:

Lower Boardman River



Six Year Capital Improvement Program

CIVIC-18-CIP

Civic

646-18-CIP **Redevelopment of Lot O**

Project Information

Submitted By: Rob Baciagalupi
Category: Visionary
Fund Group: Tax Increment Financing
Fund Detail: TIF 97

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Private/public partnership for developing a mixed use development

646-18-CIP-C Redevelopment of Lot O - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$316,000	\$0	\$316,000

Project Total: \$316,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$316,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$316,000

Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

NW Corner of State and Cass

Six Year Capital Improvement Program

CIVIC-18-CIP

Civic

877-18-CIP Uptown/West Front Riverwalk from Union Street Dam

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	Imperitive (Must Do)
Fund Detail:	TIF 97	Council Priority:	

Project Description:

Phase 1 would include replacing the riverwalk between the Uptown project and the dam and is expected to occur in 17/18. Phase 2 would continue the riverwalk from Uptown to the West Front Bridge. The City will request participation from TCLP for lighting components (approx. \$200,000) 17/18 funding allocated to this project was \$710,000.

877-18-CIP-C Uptown/West Front Riverwalk from Union Str - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$490,000	\$0	\$0	\$0	\$0	\$0	\$490,000

Project Total: \$490,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,400,000	Cost Total: \$1,400,000
Annual Maint. Cost:		Project Difference: -\$910,000
Maint. Year Start:		

Service Impact:

Increase in maintenance and snow removal

Project Justification:

TIF 97

Location Description:

Boardman River: Union to Uptown

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Facilities											
871-18-CIP	Senior Center building renovation	V	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$1,200,000	\$1,200,000	\$0
+ 168-18-CIP	Union Street Dam Improvements	V	\$0	\$11,000,000	\$0	\$0	\$0	\$0	\$11,000,000	\$11,000,000	\$0
172-18-CIP	Union Street Dam: Outlet relining	M	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
Total Facilities			\$0	\$11,400,000	\$1,200,000	\$0	\$0	\$0	\$12,600,000	\$12,600,000	\$0

Six Year Capital Improvement Program

FACILITIES-18-CIP

Facilities

871-18-CIP Senior Center building renovation

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	Senior Center Fund	Staff Priority:	Important (Could Do)
Fund Detail:	Senior Center	Council Priority:	

Project Description:

Building Renovation- The Grand Traverse County Senior Center Network is presently housed at the city owned building at 801 E. Front Street in Traverse City. For some years it has been apparent that the facility is inadequate to meet the numerous uses and needs of our local seniors. This program is presently managed by the Grand Traverse County Commission on Aging.

The Senior Center Fund has over \$360,000 in savings originally collected by donations to the center toward a new building and which the City Commission has agreed to release the funds for a building remodel. Additionally, the general fund has \$1,142 available for this project. The City is budgeting for remodeling costs not to exceed \$1,200,000. The funds required above the Center's savings will be raised by donations from groups and individuals in the community.

871-18-CIP-C Senior Center building renovation (+Privat - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$1,200,000	\$0	\$0	\$0	\$1,200,000
							Project Total:	\$1,200,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$50,000		
Construction:	\$1,200,000		
Annual Maint. Cost:			
Maint. Year Start:			
		Cost Total:	\$1,250,000
		Project Difference:	-\$50,000

Service Impact:

None.

Project Justification:

Building upgrade.

Location Description:

801 E. Front Street



Six Year Capital Improvement Program

FACILITIES-18-CIP

Facilities

168-18-CIP Union Street Dam Improvements

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	
Fund Detail:	Facilities	Council Priority:	

Project Description:

The goal of FishPass is to provide bi-directional movement of native and desirable fishes while removing or blocking invasive fishes on the Boardman River, Michigan. As part of the ongoing Boardman River Restoration Project, the Union Street Dam will be removed and replaced with a new and improved barrier. Below the barrier, a facility with multiple sorting channels and nature-like channel will be constructed as a place to demonstrate an integrated suite of technologies and techniques for selective fish passage and invasive species control. The project consists of a 1,481 square foot building with an office, fabrication room and public bathrooms is planned in the vicinity where a small cement block building currently exists. There are plans for connecting walks to adjacent parks and properties along with other features shown in the attached report. Approved by the Planning Commission for consistency with Master Plan on 1/3/17.

168-18-CIP-C Union Street Dam Improvements- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$10,000,000	\$0	\$0	\$0	\$0	\$10,000,000
P	Private	\$0	\$1,000,000	\$0	\$0	\$0	\$0	\$1,000,000
							Project Total:	\$11,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$11,000,000	Cost Total: \$11,000,000
Annual Maint. Cost:	\$500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

The building and public restroom will require ongoing maintenance. The improvements to the grounds may also require additional maintenance.

Project Justification:

Boardman River Enhancement

Location Description:

235 S. Union Street. The project is located in and around the existing earthen Union Street Dam which is located on Boardman River between Cass and Union Streets south of State Street.



Six Year Capital Improvement Program

FACILITIES-18-CIP

Facilities

172-18-CIP **Union Street Dam: Outlet relining**

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Maintenance	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Facilities	Council Priority:	

Project Description:

The 10 corrugated metal pipes that create the principal spillway need to be relined. Sliplining will be the preferred method. When and if this project is completed depends on the efforts of the Boardman Dams Implementation Team. This project will be obsolete if fish passage project is successful. The DEQ to inspect this facility this year (2018).

172-18-CIP-C Union Street Dam: Outlet relining - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000
Project Total:								\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:	\$2,500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

235 S. Union Street

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Fire											
977-18-CIP	Fire detection and suppression system installatio	M	\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500	\$220,500	\$0
976-18-CIP	Storage building at Fire Station 02	M	\$0	\$157,000	\$0	\$0	\$0	\$0	\$157,000	\$157,000	\$0
Total Fire			\$131,250	\$246,250	\$0	\$0	\$0	\$0	\$377,500	\$377,500	\$0

Six Year Capital Improvement Program

TCFD-18-CIP

Fire

977-18-CIP Fire detection and suppression system installatio

Project Information

Submitted By:	Jim Tuller	Department:	Fire
Category:	Maintenance	Department Head:	Jim Tuller
Fund Group:	General	Staff Priority:	Imperative (Must Do)
Fund Detail:	Fire	Council Priority:	

Project Description:

Both City fire stations currently have no fire detection or fire suppression systems in place to warn occupants of a fire, or to suppress a fire that breaks out. Both Stations house City Fire personnel 24/7 and hundreds of thousands of dollars of emergency equipment.

977-18-CIP-C Fire detection and suppression system inst - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$131,250	\$89,250	\$0	\$0	\$0	\$0	\$220,500
							Project Total:	\$220,500

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$220,500	Cost Total: \$220,500
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Protection of personnel and equipment

Location Description:

Traverse City Fire Department Station 1, 500 West Front Street and Station 2, 1313 E. 8th Street

Six Year Capital Improvement Program

TCFD-18-CIP

Fire

976-18-CIP

Storage building at Fire Station 02

Project Information

Submitted By:	Jim Tuller	Department:	Fire
Category:	Maintenance	Department Head:	Jim Tuller
Fund Group:	General	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Fire	Council Priority:	

Project Description:

An estimated cost for a cold storage building to be constructed on property currently occupied by the abandoned cemetery equipment storage shed. 30'x40' building with 12' sidewalls.

976-18-CIP-C Storage building at Fire Station 02 - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$157,000	\$0	\$0	\$0	\$0	\$157,000

Project Total: \$157,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$151,200	Cost Total: \$151,200
Annual Maint. Cost:		Project Difference: \$5,800
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Proper storage and security of specialized response resources.

Location Description:

Traverse City Fire Department Station 2, 1313 E. 8th Street

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Garage											
126-18-CIP	Annual Vehicle and Equipment Replacement	V	\$1,951,000	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$10,594,376	\$10,594,376	\$0
796-18-CIP	Increase security/refurbish west and north sides	V	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
Total Garage			\$2,051,000	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$10,694,376	\$10,694,376	\$0



Six Year Capital Improvement Program

GARAGE-18-CIP

Garage

126-18-CIP Annual Vehicle and Equipment Replacement

Project Information

Submitted By:	Dave Courtad	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Garage	Staff Priority:	Imperative (Must Do)
Fund Detail:	Garage	Council Priority:	

Project Description:

The garage annually purchases new equipment, vehicles, and machinery to replace existing assets. These items to be replaced on an annual basis are based on cost effectiveness of ownership. This allocation will not replace all vehicles and equipment

126-18-CIP-C Annual Vehicle and Equipment Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GAR	Garage Fund	\$1,951,000	\$2,044,300	\$1,307,000	\$1,359,800	\$1,294,976	\$2,637,300	\$10,594,376
							Project Total:	\$10,594,376

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$10,594,376

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

GARAGE-18-CIP

Garage

796-18-CIP Increase security/refurbish west and north sides

Project Information

Submitted By:	Dave Courtad	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Garage	Staff Priority:	Important (Could Do)
Fund Detail:	Garage	Council Priority:	

Project Description:

Building has only been "refinished" once since purchased in 1982. Appearance to general public is getting poor. Also, addition of security measures including motor operated gates needed to secure facility better

796-18-CIP-C Increase security/refurbish west and north - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GAR	Garage Fund	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
							Project Total:	\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
General Government											
784-18-CIP	Annual City Computers	M	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$180,000	\$180,000	\$0
4-18-CIP	City Document Management System	V	\$0	\$0	\$25,000	\$25,000	\$25,000	\$0	\$75,000	\$75,000	\$0
1029-18-CIP	Master Plan Vision and Re-Write_PlanningCommission	V	\$20,000	\$0	\$80,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
Total General Government			\$50,000	\$30,000	\$135,000	\$55,000	\$55,000	\$30,000	\$355,000	\$355,000	\$0

Six Year Capital Improvement Program

GEN GOVT-18-CIP

General Government

784-18-CIP Annual City Computers

Project Information

Submitted By:	Penny Hill	Department:	Manager	Project Description:	Replacement of general computer hardware and software
Category:	Maintenance	Department Head:	Marty Colburn		
Fund Group:	General	Staff Priority:	Essential (Should Do)		
Fund Detail:	General Government	Council Priority:			

784-18-CIP-C Annual City Computers - Cost
Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$30,000	\$180,000
							Project Total:	\$180,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	Cost Total: \$0
Annual Maint. Cost:	\$35,000	Project Difference: \$180,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

GEN GOVT-18-CIP

General Government

4-18-CIP City Document Management System

Project Information

Submitted By:		Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	General Government	Council Priority:	

Project Description:

Document Imaging various City records. Starting with the Treasurer's office: Image all invoices, journal entries, financial reports, and receipts that support financial transactions. These documents would then be searchable by anyone with inquiry ac

4-18-CIP-C City Document Management System - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$25,000	\$25,000	\$25,000	\$0	\$75,000
							Project Total:	\$75,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	Cost Total: \$0
Annual Maint. Cost:	\$9,400	Project Difference: \$75,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

GEN GOVT-18-CIP

General Government

1029-18-CIP Master Plan Vision and Re-Write_PlanningCommission

Project Information

Submitted By:	Missy Luick	Department:	Planning and Zoning
Category:	Visionary	Department Head:	Russ Soyring
Fund Group:	General	Staff Priority:	Imperitive (Must Do)
Fund Detail:	General Government	Council Priority:	

Project Description:

Master Plan Review Committee recommended that the Planning Commission add a project to the CIP for an eventual Master Plan re-write. The process they envisioned included a community engagement/vision process that could be followed by a Master Plan re-write should the vision process result in that outcome.

1029-18-CIP-c Master Plan Vision and Re-Write_PlanningCommission

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$20,000	\$0	\$80,000	\$0	\$0	\$0	\$100,000

Project Total: \$100,000

COST DETAIL:

Study:	\$100,000		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$0		
Annual Maint. Cost:			
Maint. Year Start:			
		Cost Total:	\$100,000
		Project Difference:	\$0

Service Impact:

None.

Project Justification:

To make sure the Master Plan reflects the communities values

Location Description:

City-wide

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
Light and Power										
1039-18-CIP	1125 HASTINGS STREET BUILDING REHABILITATION (NEW)	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
1041-18-CIP	ALLEY BETWEEN STATE AND FRONT STREET (NEW)	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$1,500,000	\$0
825-18-CIP	AUTOMATED METERING INFRASTRUCTURE (AMI)	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000	\$2,000,000	\$0
1004-18-CIP	CRITICAL AND LARGE CUSTOMERS	\$600,000	\$925,000	\$925,000	\$0	\$0	\$0	\$2,450,000	\$2,450,000	\$0
809-18-CIP	DISTRIBUTION CIRCUIT REBUILD	\$535,000	\$0	\$1,030,000	\$1,431,000	\$770,000	\$520,000	\$4,286,000	\$4,286,000	\$0
1009-18-CIP	DIVISION STREET STREETSCAPES LIGHTING	\$0	\$0	\$0	\$0	\$1	\$0	\$1	\$1	\$0
1043-18-CIP	EAST FRONT STREET STREETSCAPE LIGHTING (NEW)	\$0	\$0	\$0	\$56,000	\$0	\$0	\$56,000	\$56,000	\$0
1008-18-CIP	EIGHTH STREET STREETSCAPES LIGHTING	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1030-18-CIP	FIBER TO THE PREMISE	\$3,666,667	\$3,666,667	\$3,666,666	\$0	\$0	\$0	\$11,000,000	\$11,000,000	\$0
1006-18-CIP	FINANCIAL SOFTWARE	\$75,000	\$0	\$0	\$0	\$0	\$0	\$75,000	\$75,000	\$0
1038-18-CIP	GRAND TRAVERSE SUBSTATION UPGRADES (NEW)	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000	\$1,000,000	\$0
1005-18-CIP	HARTMAN ROAD OVERHEAD TIE	\$475,000	\$0	\$0	\$0	\$0	\$0	\$475,000	\$475,000	\$0
824-18-CIP	HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS	\$150,000	\$0	\$100,000	\$0	\$0	\$0	\$250,000	\$250,000	\$0
1010-18-CIP	LAKE AVENUE STREETSCAPES LIGHTING	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
818-18-CIP	LIGHTING (LED) SYSTEM REPLACEMENTS	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$625,000	\$625,000	\$0
808-18-CIP	LINE IMPROVEMENTS, EXTENSIONS AND NEW SERVICES	\$1,050,000	\$1,100,000	\$1,150,000	\$1,200,000	\$1,250,000	\$1,300,000	\$7,050,000	\$7,050,000	\$0
811-18-CIP	OVERHEAD TO UNDERGROUND CONVERSION PROJECTS	\$310,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,310,000	\$2,310,000	\$0
1042-18-CIP	PARK PLACE OH TO UG CONVERSION (NEW)	\$0	\$0	\$0	\$0	\$0	\$650,000	\$650,000	\$650,000	\$0
1040-18-CIP	SCADA SYSTEM UPGRADE (NEW)	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
1003-18-CIP	SUBSTATION CIRCUIT EXITS	\$560,000	\$0	\$0	\$0	\$0	\$0	\$560,000	\$560,000	\$0
815-18-CIP	SUBSTATION SWITCHING STATIONS	\$1,560,000	\$1,610,000	\$0	\$0	\$0	\$0	\$3,170,000	\$3,170,000	\$0
819-18-CIP	SUBSTATION TRANSFORMER UPGRADES (NEW - PARSONS)	\$0	\$0	\$0	\$750,000	\$775,000	\$0	\$1,525,000	\$1,525,000	\$0
820-18-CIP	TRANSMISSION LINE RECONSTRUCTION	\$0	\$475,000	\$475,000	\$430,000	\$615,000	\$0	\$1,995,000	\$1,995,000	\$0
829-18-CIP	UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES	\$0	\$0	\$0	\$1,340,000	\$0	\$0	\$1,340,000	\$1,340,000	\$0
Total Light and Power		\$11,261,667	\$9,101,667	\$8,421,666	\$5,732,000	\$3,935,001	\$4,495,000	\$42,947,001	\$42,947,001	\$0

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1039-18-CIP 1125 HASTINGS STREET BUILDING REHABILITATION (NEW)

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail:

Department: Light and Power
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Eliminate driveway, demolish the front office portion of the building, brick the new front of the building to match the existing service center building, install garage door at the rear of the building and construct access to existing service center building.

1039-18-CIP 1125 HASTINGS STREET BUILDING REHABILITATION (NEW)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$250,000	\$0	\$0	\$0	\$0	\$250,000
							Project Total:	\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improve the inventory cycle process

Project Justification:

Internal analysis

Location Description:

1125 Hastings Street

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1041-18-CIP ALLEY BETWEEN STATE AND FRONT STREET (NEW)

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Remove all overhead lines and transformers and install new underground lines and transformers. The utility may need to purchase easements/real estate to set equipment or purchase vaults to set in alley right of way.

1041-18-CIP ALLEY BETWEEN STATE AND FRONT STREET

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000

Project Total: \$1,500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,500,000	Cost Total: \$1,500,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase reliability and aesthetics of the system

Project Justification:

Joint Project

Location Description:

Alley between State and Front Street

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

825-18-CIP AUTOMATED METERING INFRASTRUCTURE (AMI)

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:	Joint Projects	Council Priority:	

Project Description:

Install electric meters and software to accommodate smart metering capabilities that will provide information on energy use, reliability, utility billing reads and future system engineering planning. This project is coordinated with #987 in Wastewater and #986 in Water.

825-18-CIP AUTOMATED METERING INFRASTRUCTURE

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$2,000,000	\$0	\$0	\$0	\$0	\$0	\$2,000,000

Project Total: \$2,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,500,000	Cost Total: \$3,500,000
Annual Maint. Cost:		Project Difference: \$-1,500,000
Maint. Year Start:		

Service Impact:

Provide information on reliability, utility billing reads and for future system planning.

Project Justification:

Joint Project

Location Description:

Entire service area

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1004-18-CIP

CRITICAL AND LARGE CUSTOMERS

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Construction/replacement of overhead and underground distribution facilities involving the use of wire, poles, meters, cabinets and transformers for upgrades to existing services for improvements needed for our top ten and most critical customers.

1004-18-CIP CRITICAL AND LARGE CUSTOMERS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$600,000	\$925,000	\$925,000	\$0	\$0	\$0	\$2,450,000
							Project Total:	\$2,450,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,450,000	Cost Total: \$2,450,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Reduce the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

In the Industrial Park located off Parsons Road

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

809-18-CIP

DISTRIBUTION CIRCUIT REBUILD

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Replace deteriorated overhead/underground facilities with new wire, conduit, poles, etc to include conversion of overhead facilities to underground as appropriate.

809-18-CIP DISTRIBUTION CIRCUIT REBUILD

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$535,000	\$0	\$1,030,000	\$1,431,000	\$770,000	\$520,000	\$4,286,000
							Project Total:	\$4,286,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$4,286,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$4,286,000
Project Difference: \$0

Service Impact:

Rebuilding circuits to minimize the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

Entire service area

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1009-18-CIP

DIVISION STREET STREETSCAPES LIGHTING

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Joint Projects

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

New street lighting installations in conjunction with planned streetscape with funding in accordance with TCL&P Street Lighting Operations and Maintenance Policy and Decorative Lighting Policy.

1009-18-CIP DIVISION STREET STREETSCAPES LIGHTING

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$1	\$0	\$1
							Project Total:	\$1

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$1
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$1
Project Difference: \$0

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

Fourteenth Street to Grandview Parkway

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1043-18-CIP EAST FRONT STREET STREETScape LIGHTING (NEW)

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail:

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

New street lighting installations in conjunction with planned streetscapes on East Front Street from Boardman Avenue to Holiday Inn with funding in accordance with TCL&P Street Lighting Operations and Maintenance Planning and Decorative Lighting Policy.

1043-18-CIP EAST FRONT STREET STREETScape (NEW)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$56,000	\$0	\$0	\$56,000
							Project Total:	\$56,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$56,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$56,000
Project Difference: \$0

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

East Front Street between Boardman Avenue and Holiday Inn.

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1008-18-CIP

EIGHTH STREET STREETSCAPES LIGHTING

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:	Joint Projects	Council Priority:	

Project Description:

New street lighting installation in conjunction with planned corridor improvements with funding in accordance with the Street Lighting Operations and Maintenance Policy and the Decorative Lighting Policy.

1008-18-CIP EIGHTH STREET STREETSCAPES LIGHTING

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$100,000

Project Total: \$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

Eighth Street between Boardman to Woodmere Avenue

Six Year Capital Improvement Program

TCLP-18-CIP **Light and Power**

1030-18-CIP **FIBER TO THE PREMISE**

Project Information

Submitted By: Karla Myers-Beman

Category:

Fund Group: Light and Power

Fund Detail:

Department: Light and Power Service

Department Head: Tim Arends

Staff Priority:

Council Priority:

Project Description:

Deployment of a fiber optic network community to allow for outside ISP(s) to offer services.

1030-18-CIP FIBER TO THE PREMISE

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FBR	FIBER	\$3,666,667	\$3,666,667	\$3,666,666	\$0	\$0	\$0	\$11,000,000

Project Total: \$11,000,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$11,000,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$11,000,000

Project Difference: \$0

Service Impact:

A new business within the utility

Project Justification:

Economic development

Location Description:

Entire service area.

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1006-18-CIP

FINANCIAL SOFTWARE

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Joint Projects

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

TCLP estimated share of upgrading the current accounting financial software package including cash receipts, general ledger, purchase orders, miscellaneous receivables, payroll, accounts payable, fixed assets and human resources modules.

1006-18-CIP FINANCIAL SOFTWARE

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$75,000	\$0	\$0	\$0	\$0	\$0	\$75,000
							Project Total:	\$75,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$75,000

Service Impact:

Joint Project

Project Justification:

Joint Project

Location Description:

Hastings Street Service Center and Governmental Center

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1038-18-CIP GRAND TRAVERSE SUBSTATION UPGRADES (NEW)

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Installation of new control system, breakers, and switches along with land improvements of removing an unused foundation and expanding the fence perimeter.

1038-18-CIP GRAND TRAVERSE SUBSTATION UPGRADES (NEW)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$500,000	\$500,000	\$0	\$0	\$0	\$1,000,000
							Project Total:	\$1,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,000,000	Cost Total: \$1,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Improve reliability

Project Justification:

Internal analysis and analysis completed by Wolverine Power Cooperative

Location Description:

Grand Traverse Substation - Keystone Road

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1005-18-CIP

HARTMAN ROAD OVERHEAD TIE

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Allow a second feed into a circuit to enhance reliability in the southwest service area.

1005-18-CIP HARTMAN ROAD OVERHEAD TIE

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$475,000	\$0	\$0	\$0	\$0	\$0	\$475,000

Project Total: \$475,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$475,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$475,000
Project Difference: \$0

Service Impact:

Reduce the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

Southeast part of the distribution system.

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

824-18-CIP HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:	Facilities	Council Priority:	

Project Description:

Needed upgrades to the datacenter infrastructure for reliability purposes, which will allow for the current datacenter equipment to be used at an offsite recovery site. Parking lot improvements the following year.

824-18-CIP HASTINGS SERVICE CENTER FACILITY IMPROVEMENTS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$150,000	\$0	\$100,000	\$0	\$0	\$0	\$250,000

Project Total: \$250,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$250,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$250,000

Project Difference: \$0

Service Impact:

Allow for back up operations of the utility and reduce the potential of future maintenance costs.

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1010-18-CIP

LAKE AVENUE STREETSCAPES LIGHTING

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power Service
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:	Joint Projects	Council Priority:	

Project Description:

New street lighting installations in conjunction with planned streetscape from Cass to Eighth Street with funding in accordance with TCL&P Street Lighting Operations and Maintenance Policy and Decorative Lighting Policy.

1010-18-CIP LAKE AVENUE STREETSCAPES LIGHTING

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
							Project Total:	\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Joint Project

Project Justification:

Lake Avenue from Cass to Eighth Street

Location Description:

Lake Avenue between Cass Road and Eighth Street

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

818-18-CIP LIGHTING (LED) SYSTEM REPLACEMENTS

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Removal of old high pressure sodium yard lights and replace with LED lights.

818-18-CIP LIGHTING (LED) SYSTEM REPLACEMENTS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$125,000	\$125,000	\$125,000	\$125,000	\$125,000	\$625,000

Project Total: \$625,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$625,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$625,000
Project Difference: \$0

Service Impact:

Minimize the potential of future maintenance costs and reduce the energy consumption of the lights.

Project Justification:

Internal analysis

Location Description:

Entire service area

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

808-18-CIP LINE IMPROVEMENTS, EXTENSIONS AND NEW SERVICES

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Construction replacements of overhead and underground distribution facilities involving the use of wire, poles, meters, cabinets and transformers.

808-18-CIP LINE IMPROVEMENTS, EXTENSIONS AND NEW SERVICES

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$1,050,000	\$1,100,000	\$1,150,000	\$1,200,000	\$1,250,000	\$1,300,000	\$7,050,000

Project Total: \$7,050,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$7,050,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$7,050,000
Project Difference: \$0

Service Impact:

Upgrading lines and extension and installing new services improving reliability and minimizing maintenance costs.

Project Justification:

New extensions and some upgrades are request of new customers and other improvements are to increase reliability of the system.

Location Description:

Entire service area

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

811-18-CIP OVERHEAD TO UNDERGROUND CONVERSION PROJECTS

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Distribution

Department: Light and Power
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Conversion of overhead distribution facilities to underground.

811-18-CIP OVERHEAD TO UNDERGROUND CONVERSION PROJECTS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$310,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,310,000
							Project Total:	\$2,310,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,310,000	Cost Total: \$2,310,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Reduce the potential of future maintenance costs.

Project Justification:

Reliability of the system.

Location Description:

Entire Service Area

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1042-18-CIP PARK PLACE OH TO UG CONVERSION (NEW)

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service
Category: **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:**
Fund Detail: **Council Priority:**

Project Description:

Conversion of overhead distribution facilities to underground.

1042-18-CIP PARK PLACE OH TO UG CONVERSION (NEW)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$0	\$0	\$650,000	\$650,000

Project Total: \$650,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$650,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$650,000
Project Difference: \$0

Service Impact:

Increase reliability and aesthetics of the system.

Project Justification:

Joint Project

Location Description:

Alley between Boardman Avenue and Park Place and continuing through Park Place parking lot to the riser pole located east of Cass Street.

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

1040-18-CIP SCADA SYSTEM UPGRADE (NEW)

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail:

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Upgrade the system to allow it to interconnect with other related systems such as AMI, billing, GIS, OMS and other technologies.

1040-18-CIP SCADA SYSTEM UPGRADE (NEW)

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000
							Project Total:	\$250,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$250,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$250,000
Project Difference: \$0

Service Impact:

Improve reliability of the system

Project Justification:

Internal analysis

Location Description:

1131 Hastings Street and Substations

Six Year Capital Improvement Program

TCLP-18-CIP **Light and Power**
1003-18-CIP **SUBSTATION CIRCUIT EXITS**

Project Information

Submitted By: Karla Myers-Beman **Department:** Light and Power Service
Category: **Department Head:** Tim Arends
Fund Group: Light and Power **Staff Priority:**
Fund Detail: Substation **Council Priority:**

Project Description:

Installation of new undergrounding from the substation to the circuits.

1003-18-CIP SUBSTATION CIRCUIT EXITS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$560,000	\$0	\$0	\$0	\$0	\$0	\$560,000
							Project Total:	\$560,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$560,000	Cost Total: \$560,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Minimize the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

1) Cass Road Substation 2) Barlow Street Substation 3) Parsons Road Substation

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

815-18-CIP

SUBSTATION SWITCHING STATIONS

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Substation

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Addition of switching equipment to allow for switching load on the looped transmission system for increased reliability.

815-18-CIP SUBSTATIONS SWITCHING STATION

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$1,560,000	\$1,610,000	\$0	\$0	\$0	\$0	\$3,170,000

Project Total: \$3,170,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$3,170,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$3,170,000
Project Difference: \$0

Service Impact:

Minimize future maintenance costs

Project Justification:

System study

Location Description:

Parsons Road and Barlow Street Substations

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

819-18-CIP SUBSTATION TRANSFORMER UPGRADES (NEW - PARSONS)

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Substation

Department: Light and Power Service
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Installation of higher rated transformers as recommended by Engineers for system reliability due to load growth.

819-18-CIP SUBSTATION TRANSFORMER UPGRADES

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$750,000	\$775,000	\$0	\$1,525,000

Project Total: \$1,525,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,525,000	Cost Total: \$1,525,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Minimize the potential of future maintenance costs.

Project Justification:

System study

Location Description:

Cass and Parsons Road Substations

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

820-18-CIP TRANSMISSION LINE RECONSTRUCTION

Project Information

Submitted By: Karla Myers-Beman
Category:
Fund Group: Light and Power
Fund Detail: Transmission

Department: Light and Power
Department Head: Tim Arends
Staff Priority:
Council Priority:

Project Description:

Reconductor/rebuilding of existing 69kv transmission lines with new lines and higher poles to bring circuits to current day standards.

820-18-CIP TRANSMISSION LINE RECONSTRUCTION

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$475,000	\$475,000	\$430,000	\$615,000	\$0	\$1,995,000

Project Total: \$1,995,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,995,000	Cost Total: \$1,995,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Minimize the potential of future maintenance costs and increase reliability of the system.

Project Justification:

System study

Location Description:

1) Cass Road Substation to Cass Road Junction 2) Cass Road Junction to Hall Street Substation 3) Barlow Street Substation to Parsons Road Substation

Six Year Capital Improvement Program

TCLP-18-CIP

Light and Power

829-18-CIP UPGRADE FRONT ST LIGHTING CIRCUITS & RECEPTACLES

Project Information

Submitted By:	Karla Myers-Beman	Department:	Light and Power
Category:		Department Head:	Tim Arends
Fund Group:	Light and Power	Staff Priority:	
Fund Detail:	Joint Projects	Council Priority:	

Project Description:

Upgrade circuit to accommodate increased load and will consist of new conduit, wire and addition of event outlets.

829-18-CIP UPGRADE FRONT STREET LIGHTING & RECEPTACLES

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LAP	Light and Power	\$0	\$0	\$0	\$1,340,000	\$0	\$0	\$1,340,000
							Project Total:	\$1,340,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,340,000	Cost Total: \$1,340,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increase reliability and service to event holders for that circuit.

Project Justification:

Internal analysis

Location Description:

Downtown north and south along Front Street.

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Parking											
984-18-CIP	Camera System Expansion	M	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
1071-18-CIP	Hardy Boiler Replacement	M	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
545-18-CIP	Lot B Rehab	V	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
979-18-CIP	Lot C Resurfacing	M	\$0	\$0	\$80,000	\$0	\$0	\$0	\$80,000	\$80,000	\$0
980-18-CIP	Lot J Resurfacing	M	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000	\$50,000	\$0
981-18-CIP	Lot K Resurfacing	M	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$30,000	\$0
708-18-CIP	Lot O Remediation	M	\$0	\$0	\$0	\$430,000	\$0	\$0	\$430,000	\$430,000	\$0
982-18-CIP	Lot T Resurfacing	M	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
1072-18-CIP	Old Town Boiler Replacement	M	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$80,000	\$0
1059-18-CIP	Old Town Garage LED Light Conversion	M	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000	\$100,000	\$0
+ 645-18-CIP	West Front St Redevelopment (BOND)	V	\$685,000	\$685,000	\$810,000	\$935,000	\$935,000	\$885,000	\$4,935,000	\$4,935,000	\$0
Total Parking			\$785,000	\$1,445,000	\$940,000	\$1,365,000	\$935,000	\$995,000	\$6,465,000	\$6,465,000	\$0

Six Year Capital Improvement Program

PARKING-18-CIP

Parking

984-18-CIP Camera System Expansion

Project Information

Submitted By:	Rob Baciagalupi	Department:	Parking Services
Category:	Maintenance	Department Head:	Jean Derenzy
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)
Fund Detail:	Parking System	Council Priority:	

Project Description:

Replace and add cameras at the Hardy Garage and Old Town Garage to improve service and reduce the need for staffing. Note: \$100,000 was allocated to this project in FY 17/18.

984-18-CIP-C Camera System Expansion - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$100,000	\$0	\$0	\$0	\$0	\$0	\$100,000
							Project Total:	\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:	\$20,000	Project Difference: -\$100,000
Maint. Year Start:		

Service Impact:

Allow remote monitoring by TCPS and TCPD. Increase safety.

Project Justification:

Cameras were not a part of the original install at Hardy Garage. We have been planning on since July 2014.

Location Description:

Hardy Parking Garage. Levels 1-4

Six Year Capital Improvement Program

PARKING-18-CIP

Parking

1071-18-CIP Hardy Boiler Replacement

Project Information

Submitted By: Nicole VanNess
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail:

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

Boilers are original to 2003 install. Boiler life is 10 years. 3 boilers onsite. 1 boiler replaced in 2018. 2 boilers need to be scheduled for replacement.

1071-18-CIP-C Hardy Boiler Replacement-C

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
							Project Total:	\$60,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$60,000	Cost Total: \$60,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Ensure operational snow melt

Location Description:

Hardy Parking Garage 303 East State Street.



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

545-18-CIP **Lot B Rehab**

Project Information

Submitted By: Nicole VanNess
Category: Visionary
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Reconstruct Lot B per Farmers Market Plan. Could include the replacement of meters with pay stations.

545-18-CIP-C Lot B Rehab - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000
							Project Total:	\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:	\$2,500	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot is at max life. We need to replace top coat and reconstruct.

Location Description:

100 E. Grandview Pkwy; corner of Cass/Grandview Pkwy



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

979-18-CIP Lot C Resurfacing

Project Information

Submitted By: Rob Baciagalupi
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Resurface Lot C, which serves Clinch Park and downtown businesses

979-18-CIP-C Lot C Resurfacing - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$0	\$80,000	\$0	\$0	\$0	\$80,000
							Project Total:	\$80,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$80,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$80,000
Project Difference: \$0

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

200 E. Grandview Pkwy



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

980-18-CIP **Lot J Resurfacing**

Project Information

Submitted By: Rob Baciagalupi
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Resurface Lot J, which serves the Union Street Dam area.

980-18-CIP-C Lot J Resurfacing - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
							Project Total:	\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

300 S. Union/Union Street Dam



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

981-18-CIP **Lot K Resurfacing**

Project Information

Submitted By: Nicole VanNess
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Add approximately 8 parking spaces east of existing Lot K if City is able to acquire/lease the Consumers Energy Property just north of the Union Street Dam

981-18-CIP-C Lot K resurfacing- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,000
							Project Total:	\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

North of Union Street Dam



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

708-18-CIP

Lot O Remediation

Project Information

Submitted By: Rob Baciagalupi
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail: Parking System

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Mitigation of contamination that likely is affecting adjacent properties and the water table in close proximity to the Boardman River.

 Five underground storage tanks exist at Lot O and likely are contributing to soil contamination.

708-18-CIP-C Lot O Remediation - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$0	\$0	\$430,000	\$0	\$0	\$430,000
							Project Total:	\$430,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$430,000	Cost Total: \$430,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Stop patches and replace lot.

Project Justification:

Lot will near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

100 E. State Street. Corner of State/Cass.



Six Year Capital Improvement Program

PARKING-18-CIP

Parking

982-18-CIP **Lot T Resurfacing**

Project Information

Submitted By:	Rob Baciagalupi	Department:	Parking Services	Project Description:	Resurface Lot T
Category:	Maintenance	Department Head:	Jean Derenzy		
Fund Group:	Traverse City Parking System	Staff Priority:	Essential (Should Do)		
Fund Detail:	Parking System	Council Priority:			

982-18-CIP-C Lot T Resurfacing - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000
							Project Total:	\$200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$200,000	Cost Total: \$200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Stop patches and replace lot

Project Justification:

Lot near end of life. Should be included in Pavement Preservation for replacement.

Location Description:

100 E. Grandview Pkwy, Corner of Grandview Parkway/Union.

Six Year Capital Improvement Program

PARKING-18-CIP

Parking

1072-18-CIP **Old Town Boiler Replacement**

Project Information

Submitted By: Nicole VanNess
Category: Maintenance
Fund Group: Traverse City Parking System
Fund Detail:

Department: Parking Services
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

Boilers are original to 2009 install. Boiler life is 10 years. 3 boilers onsite.

1072-18-CIP-C Old Town Boiler Replacement-C

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$0	\$0	\$0	\$0	\$80,000	\$80,000
							Project Total:	\$80,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Ensure operational snow melt

Location Description:

Old Town Parking Garage, 125 E. Eighth St.

Six Year Capital Improvement Program

PARKING-18-CIP

Parking

1059-18-CIP **Old Town Garage LED Light Conversion**

Project Information

Submitted By:	Nicole VanNess	Department:	Parking Services
Category:	Maintenance	Department Head:	Jean Derenzy
Fund Group:	Traverse City Parking System	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Concert lighting to LED in order to reduce lighting costs and repairs.

1059-18-CIP-C Old Town Garage LED Light Conversion-Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
APS	Parking System	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
							Project Total:	\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Lighting swap out may reduce lighting on some levels as conversion is taking place over replacement period.

Project Justification:

Replace all existing lighting and convert to a more energy efficient lighting system.

Location Description:

125 E. Eighth Street. Old Town Garage

Six Year Capital Improvement Program

PARKING-18-CIP

Parking

645-18-CIP West Front St Redevelopment (BOND)

Project Information

Submitted By:	Rob Baciagalupi	Department:	Parking Services
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)
Fund Detail:	TIF 97	Council Priority:	

Project Description:

Build an approximately 410 space parking deck to serve the west side of downtown. This project is a bond.

645-18-CIP-C West Front St Redevelopment (BOND) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BR	Brownfield	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	\$250,000
APS	Parking System	\$0	\$0	\$125,000	\$250,000	\$250,000	\$250,000	\$875,000
TIF97	TIF 97	\$635,000	\$635,000	\$635,000	\$635,000	\$635,000	\$635,000	\$3,810,000
							Project Total:	\$4,935,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$1,050,000	
Construction:	\$10,300,000	Cost Total: \$11,350,000
Annual Maint. Cost:	\$220,000	Project Difference: \$-6,415,000
Maint. Year Start:		

Service Impact:

Estimated annual maintenance of \$220,000

Project Justification:

Provide parking on west end. Free up existing surface lots for development.

Location Description:

145 W. Front Street. Corner W. Front/Pine.

Six Year Capital Improvement Plan
Budget Year 2018-2019 by Program Name

All Projects Submitted for 2018-2019

Bold - Indicates projects occurring in the first FY of the plan.
+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Parks											
+ 928-18-CIP	American Legion Park Improvements	V	\$0	\$0	\$0	\$150,000	\$0	\$0	\$150,000	\$150,000	\$0
+ 306-18-CIP	Ashton Park Playground	V	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000	\$15,000	\$0
+ 539-18-CIP	Boon Street Park Playground Improvements	V	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000	\$25,000	\$0
+ 26-18-CIP	Bryant Park Retaining Wall	V	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
+ 3-18-CIP	Hannah Park improvements	V	\$72,500	\$0	\$0	\$0	\$0	\$0	\$72,500	\$72,500	\$0
+ 28-18-CIP	Hickory Hills Lodge Replacement	V	\$928,750	\$0	\$0	\$0	\$0	\$0	\$928,750	\$928,750	\$0
328-18-CIP	Hickory Hills Maintenance Facility	V	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$0
+ 929-18-CIP	Hickory Hills Master Plan Improvements	V	\$2,082,500	\$0	\$0	\$0	\$0	\$0	\$2,082,500	\$2,082,500	\$0
+ 309-18-CIP	Indian Woods Playground	V	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+ 972-18-CIP	Mini Park Upgrade and East Downtown Entrance	V	\$0	\$200,000	\$0	\$0	\$0	\$0	\$200,000	\$200,000	\$0
785-18-CIP	Natural Features Inventory (Planning Commission)	V	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
+ 1021-18-CIP	Park Roof Projects	M	\$87,000	\$0	\$0	\$0	\$0	\$0	\$87,000	\$87,000	\$0
684-18-CIP	Park Sign Replacement	V	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
+ 543-18-CIP	Rose and Boyd Triangle Park (Jupiter Gardens)	V	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000	\$60,000	\$0
+ 602-18-CIP	Senior Center -Bayfront Plan	V	\$0	\$0	\$0	\$0	\$161,888	\$0	\$161,888	\$161,888	\$0
+ 926-18-CIP	Senior Citizen Park Improvements	V	\$0	\$0	\$0	\$75,000	\$0	\$0	\$75,000	\$75,000	\$0
+ 927-18-CIP	Sunset Park Improvements	V	\$0	\$0	\$200,000	\$0	\$0	\$0	\$200,000	\$200,000	\$0
+ 1020-18-CIP	West End Beach Bathhouse Project	C	\$0	\$0	\$0	\$265,000	\$0	\$0	\$265,000	\$265,000	\$0
Total Parks			\$3,420,750	\$360,000	\$240,000	\$590,000	\$161,888	\$0	\$4,772,638	\$4,772,638	\$0

Six Year Capital Improvement Program

PARK-18-CIP

Parks

928-18-CIP American Legion Park Improvements

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

The improvements to American Legion Park could include terracing to create different levels of the park to make it more usable for sitting areas, small events and river access opportunities. Landscaping around the Veteran's monument would also be im

928-18-CIP-C American Legion Park Improvements (+Grant - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
P	Private	\$0	\$0	\$0	\$115,000	\$0	\$0	\$115,000
Project Total:								\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$140,000	Cost Total: \$150,000
Annual Maint. Cost:	\$1,000	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

306-18-CIP Ashton Park Playground

Project Information

Submitted By: Derek Melville
Category: Visionary
Fund Group: General
Fund Detail: Parks & Rec

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

Replace existing play equipment with small structure designed for younger children. Larger play structure for older children is available at Willow Hill Elementary School. The new equipment would meet current safety and ADA accessibility standards.

306-18-CIP-C Ashton Park Playground - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$12,000	\$0	\$0	\$0	\$12,000
P	Private	\$0	\$0	\$3,000	\$0	\$0	\$0	\$3,000
							Project Total:	\$15,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$15,000
Annual Maint. Cost: \$200
Maint. Year Start:

Cost Total: \$15,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

539-18-CIP Boon Street Park Playground Improvements

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

This neighborhood park has a mixture of thirty year old and older pieces of play equipment. The slide might be worth keeping but the swings and climber need to be replaced. Some individual pieces or a small structure would fit in this park. The baske

539-18-CIP-C Boon Street Park Playground Improvements - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$23,000	\$0	\$0	\$0	\$23,000
P	Private	\$0	\$0	\$2,000	\$0	\$0	\$0	\$2,000
Project Total:								\$25,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$25,000
Annual Maint. Cost: \$200
Maint. Year Start:

Cost Total: \$25,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

26-18-CIP

Bryant Park Retaining Wall

Project Information

Submitted By: Lauren Vaughn
Category: Visionary
Fund Group: General
Fund Detail: Parks & Rec

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

The retaining wall will greatly reduce the amount of sand that blows up into the turf area during the late fall to early spring period. It will also help to stop the encroachment of the sand and shrinking of the turf areas. This would be a combinatio

26-18-CIP-C Bryant Park Retaining Wall - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000
GEN	General Fund	\$0	\$0	\$0	\$50,000	\$0	\$0	\$50,000

Project Total: \$100,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$5,000
Construction: \$95,000
Annual Maint. Cost: \$1,000
Maint. Year Start:

Cost Total: \$100,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

3-18-CIP Hannah Park improvements

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Brown Bridge Trust Parks Impr	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

Pave or use limestone fines to build 6' path where an informal dirt trail from Union to Wadsworth Streets. Decorative lights will replace existing yard lights. Also includes irrigation system improvements.

3-18-CIP-C Hannah Park improvements (+Private +BBTF) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$32,500	\$0	\$0	\$0	\$0	\$0	\$32,500
P	Private	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
Project Total:								\$72,500

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$145,000
Annual Maint. Cost: \$1,000
Maint. Year Start:

Cost Total: \$145,000
Project Difference: **-\$72,500**

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

28-18-CIP Hickory Hills Lodge Replacement

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	Brown Bridge Trust Parks Imprc	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

The current lodge does not meet current standard for accessibility along with outdated facilities of every type. Remodeling of the current lodge is not a viable option. A preferred location has been selected from the Hickory Hills Master plan. Prior year funding allocation of \$553,750 in private funds and \$375,000 in Brown Bridge Trust Parks funds make this project whole. This project is in coordination with #929 Hickory Hills Master Plan Improvements.

28-18-CIP-C Hickory Hills Lodge Replacement (Grant +Pr - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$375,000	\$0	\$0	\$0	\$0	\$0	\$375,000
P	Private	\$553,750	\$0	\$0	\$0	\$0	\$0	\$553,750

Project Total: \$928,750

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$100,000	
Construction:	\$1,757,500	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$1,857,500
		Project Difference: -\$928,750

Service Impact:

Project Justification:

Hickory Hills Master Plan

Location Description:

2000 Randolph street

Six Year Capital Improvement Program

PARK-18-CIP

Parks

328-18-CIP Hickory Hills Maintenance Facility

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

A shelter and location for maintenance for the snow groomers, snow guns and other equipment. This would then allow the GT Ski Club to take over use of the old pole barn for a coaches' equipment room, storing of timing and computer equipment for race

328-18-CIP-C Hickory Hills Maintenance Facility - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$250,000	\$0	\$0	\$0	\$0	\$0	\$250,000
							Project Total:	\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

929-18-CIP Hickory Hills Master Plan Improvements

Project Information

Submitted By: Lauren Vaughn
Category: Visionary
Fund Group: Brown Bridge Trust Parks Impr
Fund Detail: Parks & Rec

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Imperitive (Must Do)
Council Priority:

Project Description:

This project includes items necessary for construction of a new lodge and other related improvements. They include, utilities, roads, parking, 2 new ski lifts, ski terrain expansion and lighting, and snowmaking system additions. This project is coordinated with #28 Hickory Hills Lodge Replacement. The funding sources for both projects are: Brown Bridge Trust Parks (\$1.5 million), Preserve Hickory (\$1.5 million), MNRTF Grant (\$50K), City sponsored grants (\$225K), Preserve Hickory additional contributions (\$400,500). Grand total of both projects is \$3,675,500.00

929-18-CIP-C Hickory Hills Master Plan Improvements (BB - Cost
Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$725,000	\$0	\$0	\$0	\$0	\$0	\$725,000
FSG	Federal / State Grant	\$275,000	\$0	\$0	\$0	\$0	\$0	\$275,000
P	Private	\$1,082,500	\$0	\$0	\$0	\$0	\$0	\$1,082,500
Project Total:								\$2,082,500

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$100,000
Construction: \$1,982,500
Annual Maint. Cost: \$5,000
Maint. Year Start:

Cost Total: \$2,082,500
Project Difference: \$0

Service Impact:

Project Justification:

Hickory Hills Master Plan

Location Description:

2000 Randolph Street

Six Year Capital Improvement Program

PARK-18-CIP

Parks

309-18-CIP **Indian Woods Playground**

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

This would replace most of the existing play equipment with a small new structure that would meet current safety and ADA accessibility standards. Some of the existing play pieces could remain as they were replaced and/or added in the past 15 years or

309-18-CIP-C Indian Woods Playground - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$25,000	\$0	\$0	\$0	\$0	\$25,000
P	Private	\$0	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Project Total:								\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:	\$300	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

972-18-CIP Mini Park Upgrade and East Downtown Entrance

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

Improvements to the Mini Park at the corner of East Front Street and Grandview Parkway will become a focal point for the entrance to downtown with a possible public art piece honoring the Coast Guard, seating, lighting, and landscaping. Funding from

972-18-CIP-C Mini Park Upgrade and East Downtown Entran - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
LFG	Local / Foundation Grant	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
P	Private	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000

Project Total: \$200,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$10,000
Construction: \$190,000
Annual Maint. Cost: \$1,000
Maint. Year Start:

Cost Total: \$200,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

785-18-CIP Natural Features Inventory (Planning Commission)

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning
Category:	Visionary	Department Head:	Russ Soyring
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

Conduct an extensive Natural Features Inventory (NFI), including flora, fauna, soil types, air quality and water quality to establish baseline criteria on city properties. After the completion of the NFI, specific priorities, goals and standards can be developed. Currently, some natural features data is being collected as part of the SAW grant.

785-18-CIP-C Natural Features Inventory (Planning) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$20,000	\$0	\$0	\$0	\$0	\$20,000

Project Total: \$20,000

COST DETAIL:

Study: \$20,000
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$20,000
Project Difference: \$0

Service Impact:

None.

Project Justification:

Natural Resources Element in the Master Plan calls for this plan to provide a baseline for policy making.

Location Description:

City-wide.

Six Year Capital Improvement Program

PARK-18-CIP

Parks

1021-18-CIP

Park Roof Projects

Project Information

Submitted By: Derek Melville
Category: Maintenance
Fund Group: General
Fund Detail: Parks & Rec

Department: Department of Municipal Utilitie
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

This project will replace the roofing that has started to reach the end of its useful life on the bathroom buildings in East Bay, Bryant and Hull Park. Marina storage building roof project is included.

1021-18-CIP-C Park Roof Projects -C

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$45,000	\$0	\$0	\$0	\$0	\$0	\$45,000
MAR	Marina Fund	\$42,000	\$0	\$0	\$0	\$0	\$0	\$42,000

Project Total: \$87,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$87,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$87,000
Project Difference: \$0

Service Impact:

Maintenance

Project Justification:

Maintenance

Location Description:

4 locations



Six Year Capital Improvement Program

PARK-18-CIP

Parks

684-18-CIP Park Sign Replacement

Project Information

Submitted By: Lauren Vaughn
Category: Visionary
Fund Group: General
Fund Detail: Parks & Rec

Department: Department of Public Services
Department Head: Frank Dituri
Staff Priority: Essential (Should Do)
Council Priority:

Project Description:

This project would replace all main park entrance signs with a different style and color to bring the parks up to date. This would also include a new branding design (logo) on the signs and some additional signs for marking trails and for wayfinding.

684-18-CIP-C Park Sign Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$50,000	\$0	\$0	\$0	\$0	\$50,000
							Project Total:	\$50,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$2,000
Construction: \$48,000
Annual Maint. Cost: \$100
Maint. Year Start:

Cost Total: \$50,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

543-18-CIP **Rose and Boyd Triangle Park (Jupiter Gardens)**

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

The North Traverse Heights neighborhood group and other individuals have expressed an interest in seeing improvements to this park to include: a small trailside shelter, sidewalks, native/edible gardens, water and bike repair stations, natural playsc

543-18-CIP-C Rose and Boyd Triangle Park (Jupiter Garde - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
FSG	Federal / State Grant	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000
LFG	Local / Foundation Grant	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000
P	Private	\$0	\$10,000	\$0	\$0	\$0	\$0	\$10,000

Project Total: \$60,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$1,000

Construction: \$59,000

Annual Maint. Cost: \$500

Maint. Year Start:

Cost Total: \$60,000

Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

602-18-CIP Senior Center -Bayfront Plan

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning
Category:	Visionary	Department Head:	Russ Soyring
Fund Group:	Bayfront Plan NON-TIF Implem	Staff Priority:	Important (Could Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

Sidewalks, new parking lot improvement and Stormwater Treatment Structure are key elements of the project.

602-18-CIP-C Senior Center Bayfront Phase (+Grant) - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$0	\$50,000	\$0	\$50,000
P	Private	\$0	\$0	\$0	\$0	\$111,888	\$0	\$111,888

Project Total: \$161,888

COST DETAIL:

Study: \$4,000

Land Acquisition / ROW: \$0

Engineering / Design: \$11,410

Construction: \$146,478

Annual Maint. Cost: \$8,000

Maint. Year Start:

Cost Total: \$161,888

Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

926-18-CIP Senior Citizen Park Improvements

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

These improvements would include an adult "playground" with components designed to help the Senior population with strength, balance, and mobility and a path connecting these features.

A sidewalk would lead to the beach from the parking area on th

926-18-CIP-C Senior Citizen Park Improvements (Grant +P - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$35,000	\$0	\$0	\$35,000
P	Private	\$0	\$0	\$0	\$5,000	\$0	\$0	\$5,000

Project Total: \$75,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$2,000
Construction: \$73,000
Annual Maint. Cost: \$500
Maint. Year Start:

Cost Total: \$75,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

927-18-CIP Sunset Park Improvements

Project Information

Submitted By:	Lauren Vaughn	Department:	Department of Public Services
Category:	Visionary	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

The improvements to Sunset Parks would include: a small picnic pavilion with restrooms, a new playground, fitness stations, a walking path, landscaping and retaining wall at the sand/grass interface and a drinking fountain/water bottle filling statio

927-18-CIP-C Sunset Park Improvements (+Grant +Private - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BBTP	Brown Bridge Trust Parks	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
FSG	Federal / State Grant	\$0	\$0	\$45,000	\$0	\$0	\$0	\$45,000
LFG	Local / Foundation Grant	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
P	Private	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000

Project Total: \$200,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$10,000

Construction: \$190,000

Annual Maint. Cost: \$1,000

Maint. Year Start:

Cost Total: \$200,000

Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

PARK-18-CIP

Parks

1020-18-CIP West End Beach Bathhouse Project

Project Information

Submitted By:	Derek Melville	Department:	Department of Public Services
Category:	Capital	Department Head:	Frank Dituri
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Parks & Rec	Council Priority:	

Project Description:

The existing bathroom facility is old, non-ADA compliant and in disrepair. This project proposes to build a new bathhouse/changing room that will be a modern, energy efficient ADA compliant facility.

1020-18-CIP-C West End Beach Bathhouse Project

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$0	\$0	\$132,500	\$0	\$0	\$132,500
LFG	Local / Foundation Grant	\$0	\$0	\$0	\$132,500	\$0	\$0	\$132,500

Project Total: \$265,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$40,000
Construction: \$225,000
Annual Maint. Cost: \$2,000
Maint. Year Start:

Cost Total: \$265,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
Streets											
+ 14-18-CIP	Annual Street Reconstruction Program	M	\$1,140,000	\$1,534,000	\$1,661,000	\$759,000	\$572,000	\$750,000	\$6,416,000	\$6,416,000	\$0
320-18-CIP	Division Street	V	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$300,000	\$300,000	\$0
+ 717-18-CIP	East Front St Reconstruction (Park to Grndvw Pkwy)	V	\$0	\$0	\$0	\$915,000	\$0	\$0	\$915,000	\$915,000	\$0
1068-18-CIP	Eighth Street Alley (Boardman to Railroad)	C	\$390,000	\$0	\$0	\$0	\$0	\$0	\$390,000	\$390,000	\$0
+ 882-18-CIP	Eighth Street- Lake Ave. to Woodmere	V	\$185,000	\$3,875,000	\$2,375,000	\$4,065,000	\$0	\$0	\$10,500,000	\$10,500,000	\$0
616-18-CIP	Grand Traverse Commons Infrastructure	V	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$1,223,095	\$1,223,095	\$0
713-18-CIP	Grandview Parkway Pedestrian Crossing Enhancement	V	\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000	\$500,000	\$0
+ 61-18-CIP	Lake Avenue Streetscape Improvements	V	\$945,700	\$0	\$0	\$0	\$0	\$0	\$945,700	\$945,700	\$0
889-18-CIP	Traffic Calming	V	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000	\$500,000	\$0
1070-18-CIP	Traffic Signal Mast Arm	C	\$0	\$140,000	\$0	\$0	\$0	\$0	\$140,000	\$140,000	\$0
15-18-CIP	Traffic Signal Power Backup	V	\$0	\$22,500	\$22,500	\$22,500	\$22,500	\$0	\$90,000	\$90,000	\$0
16-18-CIP	Traffic Signal Upgrades	V	\$0	\$120,000	\$60,000	\$60,000	\$60,000	\$60,000	\$360,000	\$360,000	\$0
+ 1026-18-CIP	Union Street and Streetscape	C	\$0	\$0	\$669,060	\$0	\$0	\$0	\$669,060	\$669,060	\$0
Total Streets			\$2,660,700	\$6,114,595	\$5,677,560	\$6,331,500	\$1,254,500	\$910,000	\$22,948,855	\$22,948,855	\$0

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

14-18-CIP Annual Street Reconstruction Program

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Maintenance	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Streets	Council Priority:	

Project Description:

This is an annual program that provides funds to resurface major and minor streets within the city limits. Funding eligible for bridge and street repair, resurfacing, reconstruction including sidewalks, storm water system. Millage fund cannot be used for sidewalks or underground utilities. In the coming fiscal years the following streets: 8th, W. 7th, E. 11th, E. 10th, Jefferson, Monroe, Madison, Randolph, Fitzhugh and existing gravel streets (Griffin, Fulton, Sheffer) are on the list for street reconstruction and are coordinated with utility fund projects. For the next 3 years, pavement preservation projects are planned utilizing the millage funds. In 18/19, the street program is utilizing \$115,000 of Road commission millage fund and \$330,000 of available capital projects funds.

14-18-CIP-C Annual Street Reconstruction Program (+GTC - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
ACPF	Available Capital Projects Fund	\$330,000	\$0	\$0	\$0	\$0	\$0	\$330,000
GEN	General Fund	\$0	\$724,000	\$851,000	\$759,000	\$572,000	\$750,000	\$3,656,000
RCMF	Road Commission Millage Fund	\$810,000	\$810,000	\$810,000	\$0	\$0	\$0	\$2,430,000
							Project Total:	\$6,416,000

COST DETAIL:

Study:	\$0
Land Acquisition / ROW:	\$0
Engineering / Design:	\$0
Construction:	\$0
Annual Maint. Cost:	
Maint. Year Start:	

Cost Total:	\$0
Project Difference:	\$6,416,000

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

City-wide



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

320-18-CIP **Division Street**

Project Information

Submitted By: Tim Lodge
Category: Visionary
Fund Group: General
Fund Detail: Streets

Department: Engineering
Department Head: Tim Lodge
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Funding for improvements to Division Street in conjunction with 2022 MDOT Safety project. In 2015/16, MDOT completed a PEL Study for the corridor. The City's participation in the project will likely include items such as sidewalks, lighting, and project enhancements.

320-18-CIP-C Division Street - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$100,000	\$100,000	\$100,000	\$0	\$0	\$300,000
							Project Total:	\$300,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$300,000

Service Impact:

Project Justification:

Division Street improvements

Location Description:

Division Street from 13th to 7th Street

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

717-18-CIP East Front St Reconstruction (Park to Grndvw Pkwy)

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)
Fund Detail:	TIF 97	Council Priority:	

Project Description:

Street reconstruction with utility rehabilitation and replacement. New curbs, street trees, benches, bike racks, and sidewalk along East Front between Park Street and Grandview Parkway. Project pending SID. The City will request participation from TCLP for lighting associated with the streetscape. Utility funds will be utilized and coordinated with the street project. The utility projects associated with this project are in the CIP: 1051-18-CIP, 1052-18-CIP and 1053-18-CIP.

717-18-CIP-C East Front Reconstructio (Park to Grand - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
SAF	Special Assessment Fund	\$0	\$0	\$0	\$257,500	\$0	\$0	\$257,500
TIF97	TIF 97	\$0	\$0	\$0	\$257,500	\$0	\$0	\$257,500

Project Total: \$915,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$915,000	Cost Total: \$915,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increased service likely due to addition of street trees and site amenities.

Project Justification:

TIF 97

Location Description:

East Front Street between Park Street and Grandview Parkway.

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

1068-18-CIP Eighth Street Alley (Boardman to Railroad)

Project Information

Submitted By:	Missy Luick	Department:	Engineering
Category:	Capital	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Alley improvements prior to 8th Street Reconstruction including stormwater. Total project cost is \$390,000 and will be funded through \$100,000 in stormwater fund, \$30,000 in traffic calming funds and \$260,000 in available capital projects funds.

1068-18-CIP-C Eighth Street Alley (Boardman to Railroad)- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
ACPF	Available Capital Projects Fund	\$390,000	\$0	\$0	\$0	\$0	\$0	\$390,000
							Project Total:	\$390,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$390,000	Cost Total: \$390,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Implementation of Envision 8th Plan

Location Description:

Alley north of 8th Street between Boardman and Railroad

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

882-18-CIP **Eighth Street- Lake Ave. to Woodmere**

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Streets	Council Priority:	

Project Description:

Design based on outcome of 8th Street Charrette. This project will reconstruct 8th Street from Lake Avenue to Woodmere Avenue including sidewalks, curb and gutter, storm sewers, sanitary sewers, watermain and street reconstruction. Project could be implemented in phases and it is likely that this project will be financed via bond. TIF Old Town funds will likely not be available in a lump sum and likely would be a payback over time.*This project needs to be coordinated with the East-West Transmission Line #935 project included in the Water Fund. \$50,000 was allocated in FY 17/18 to make this project whole.

882-18-CIP-C Eighth Street- Lake Ave. to Woodmere - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
ACPF	Available Capital Projects Fund	\$185,000	\$0	\$0	\$0	\$0	\$0	\$185,000
GEN	General Fund	\$0	\$3,400,000	\$1,900,000	\$3,590,000	\$0	\$0	\$8,890,000
TIFOT	TIF Old Town	\$0	\$475,000	\$475,000	\$475,000	\$0	\$0	\$1,425,000
Project Total:								\$10,500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$10,550,000	Cost Total: \$10,550,000
Annual Maint. Cost:		Project Difference: \$-50,000
Maint. Year Start:		

Service Impact:

Maintenance may increase due to streetscape, amenities and cycle-track.

Project Justification:

Envision 8th Charrette public process

Location Description:

8th Street from Lake Ave to Woodmere Ave.



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

616-18-CIP Grand Traverse Commons Infrastructure

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Streets	Council Priority:	

Project Description:

For Streets, Sidewalks, Water, Sewer, and Storm Sewer infrastructure supporting Grand Traverse Commons Development. Reimbursement anticipated from Brownfield TIF.

616-18-CIP-C Grand Traverse Commons Infrastructure - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BR	Brownfield	\$0	\$223,095	\$690,000	\$310,000	\$0	\$0	\$1,223,095
							Project Total:	\$1,223,095

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,223,095	Cost Total: \$1,223,095
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

713-18-CIP Grandview Parkway Pedestrian Crossing Enhancement

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	
Fund Detail:	TIF 97	Council Priority:	

Project Description:

Pedestrian enhancements to cross Grandview Parkway between Hall Street to Cass Street. Possible gateway treatment at Union Street. Project to be coordinated with MDOT enhancements in 2022.

713-18-CIP-C Grandview Parkway Pedestrian Crossing Enha - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$0	\$0	\$0	\$0	\$500,000	\$0	\$500,000

Project Total: \$500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$500,000	Cost Total: \$500,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None foreseen

Project Justification:

Crossing enhancement/Connectivity

Location Description:

Grandview Parkway

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

61-18-CIP Lake Avenue Streetscape Improvements

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	Essential (Should Do)
Fund Detail:	TIF 2	Council Priority:	

Project Description:

Approximately 813 feet of streetscape improvements on Lake Avenue between Cass and 8th Street. Improvements include trees, curb & gutter, benches, trash cans and other improvements. Project pending Special Improvement District participation. Light and Power to participate in street lighting. Project to also be coordinated with #935 East- West Transmission project.

61-18-CIP-C Lake Avenue Streetscape Improvements - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$135,000	\$0	\$0	\$0	\$0	\$0	\$135,000
SAF	Special Assessment Fund	\$135,000	\$0	\$0	\$0	\$0	\$0	\$135,000
TIFOT	TIF Old Town	\$675,700	\$0	\$0	\$0	\$0	\$0	\$675,700

Project Total: \$945,700

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$845,700	Cost Total: \$845,700
Annual Maint. Cost:	\$15,000	Project Difference: \$100,000
Maint. Year Start:		

Service Impact:

Streetscape and site amenities may increase maintenance.

Project Justification:

Old Town TIF

Location Description:

Lake Avenue between Cass and 8th Street



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

889-18-CIP **Traffic Calming**

Project Information

Submitted By: Tim Lodge
Category: Visionary
Fund Group: General
Fund Detail: Streets

Department: Engineering
Department Head: Tim Lodge
Staff Priority: Important (Could Do)
Council Priority:

Project Description:

Funding for Traffic Calming infrastructure improvements per City Commission.

889-18-CIP-C Traffic Calming - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Project Total: \$500,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$500,000

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

1070-18-CIP **Traffic Signal Mast Arm**

Project Information

Submitted By: Rob Baciagalupi
Category: Capital
Fund Group: Tax Increment Financing
Fund Detail:

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

For installing mast arm signal posts in conjunction with MDOT Traffic Signal Upgrade project at the Grandview Parkway/E. Front intersection and Grandview Parkway/Union Street intersection.

1070-18-CIP-C Traffic Signal Mast Arm

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$0	\$140,000	\$0	\$0	\$0	\$0	\$140,000

Project Total: \$140,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$140,000	Cost Total: \$140,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Signal Upgrade

Location Description:

Grandview pkwy/E. Front and Grandview pkwy/Union St



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

15-18-CIP Traffic Signal Power Backup

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Streets	Council Priority:	

Project Description:

Provide funding to install battery backup power systems in all signal equipment by 2022.

15-18-CIP-C Traffic Signal Power Backup - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$22,500	\$22,500	\$22,500	\$22,500	\$0	\$90,000
							Project Total:	\$90,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$0	
Annual Maint. Cost:		Cost Total: \$0
Maint. Year Start:		Project Difference: \$90,000

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

STREETS-18-CIP

Streets

16-18-CIP Traffic Signal Upgrades

Project Information

Submitted By: Tim Lodge
Category: Visionary
Fund Group: General
Fund Detail: Streets

Department: Engineering
Department Head: Tim Lodge
Staff Priority:
Council Priority:

Project Description:

This is an annual program that will fund traffic signal consulting and design for upgrade to the Garfield/Hannah, Parsons traffic signal and the Parsons/Hastings intersection signal.

16-18-CIP-C Traffic Signal Upgrades - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$120,000	\$60,000	\$60,000	\$60,000	\$60,000	\$360,000
							Project Total:	\$360,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$360,000

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

STREETS-18-CIP

Streets

1026-18-CIP Union Street and Streetscape

Project Information

Submitted By: Rob Baciagalupi
Category: Capital
Fund Group: Tax Increment Financing
Fund Detail: Streets

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

Streetscape improvements on Union Street from Ninth Street to South Cass Street Bridge

1026-18-CIP-C Union Street and Streetscape - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
SAF	Special Assessment Fund	\$0	\$0	\$334,530	\$0	\$0	\$0	\$334,530
TIFOT	TIF Old Town	\$0	\$0	\$334,530	\$0	\$0	\$0	\$334,530
							Project Total:	\$669,060

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$669,059
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$669,059
Project Difference: \$1

Service Impact:

No new services foreseen

Project Justification:

Replacement of old streetscapes

Location Description:

Old Town

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
Walkways										
+ 570-18-CIP	Boardman Lake Trail-West (14th to S. Airport)	V	\$5,263,000	\$0	\$0	\$0	\$0	\$5,263,000	\$5,263,000	\$0
316-18-CIP	Boardman River Walk south of 8th Street Bridge	V	\$0	\$0	\$0	\$690,700	\$0	\$690,700	\$690,700	\$0
946-18-CIP	Expand Sidewalk System/Infill Gaps	V	\$366,500	\$366,500	\$366,500	\$366,500	\$366,500	\$2,199,000	\$2,199,000	\$0
+ 1023-18-CIP	Expand Sidewalk System/Infill Gaps (SR2S)	C	\$100,000	\$1,100,000	\$1,100,000	\$0	\$0	\$2,300,000	\$2,300,000	\$0
1025-18-CIP	Rivers Edge Riverwalk Decking Replacement	M	\$0	\$106,869	\$0	\$0	\$0	\$106,869	\$106,869	\$0
+ 942-18-CIP	TART Trail Reconstruct from Woodmere to Avenue B	M	\$0	\$80,000	\$0	\$0	\$0	\$345,000	\$425,000	\$0
1069-18-CIP	Wellington Plaza Erosion Stabilization Project	M	\$50,000	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0
Total Walkways			\$5,779,500	\$1,653,369	\$1,466,500	\$1,057,200	\$366,500	\$711,500	\$11,034,569	\$0

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

570-18-CIP Boardman Lake Trail-West (14th to S. Airport)

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning
Category:	Visionary	Department Head:	Russ Soyring
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	

Project Description:

The City of Traverse City is working TART Trails, Garfield Township and Grand Traverse County to complete the final segment of the Boardman Lake Trail. The proposed two and a half mile segment along the west side of the lake is needed to complete the five mile trail encircling Boardman Lake which was first conceptualized more than 25 years ago with a trail master plan funded by the Coastal Zone Management Program.

570-18-CIP-C Boardman Lake Trail-West (14th to S. Airpo - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
BR	Brownfield	\$3,600,000	\$0	\$0	\$0	\$0	\$0	\$3,600,000
FSG	Federal / State Grant	\$1,263,000	\$0	\$0	\$0	\$0	\$0	\$1,263,000
P	Private	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000

Project Total: \$5,263,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$526,300	
Construction:	\$4,736,700	Cost Total: \$5,263,000
Annual Maint. Cost:	\$11,700	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Operations and Maintenance Agreement is necessary among project partners

Project Justification:

Parks and Recreation Element of Master Plan

Location Description:

West side of Boardman Lake

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

316-18-CIP Boardman River Walk south of 8th Street Bridge

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Visionary	Department Head:	Russ Soyring
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	

Project Description:

River Boardwalk from the 8th Street bridge to the Boardman Lake Trail. The project includes a 840 linear feet of elevated boardwalk, low-level lighting, fishing and resting platforms and landscaping.

316-18-CIP-C Boardman River Walk south of 8th Street Br - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIFOT	TIF Old Town	\$0	\$0	\$0	\$690,700	\$0	\$0	\$690,700

Project Total: \$690,700

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$81,800	
Construction:	\$608,900	Cost Total: \$690,700
Annual Maint. Cost:	\$2,000	Project Difference: \$0
Maint. Year Start:		

Service Impact:

Increased service and maintenance.

Project Justification:

Boardman River Enhancement

Location Description:

Boardman River bank between 8th Street bridge and Boardman Lake Trail

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

946-18-CIP Expand Sidewalk System/Infill Gaps

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Visionary	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	Imperitive (Must Do)

Project Description:

Enhance public service and access through improved walkability throughout the City. Ongoing expansion of City's sidewalk infrastructures. Infill existing gaps in sidewalk system according to map on file in Engineering. Maintenance of existing sidewalks. Targeted areas are major street corridors and locations in proximity to public facilities. Current estimates call for \$3.4 million for infill/gaps and \$600,000 in sidewalk repair. \$500,000 is allotted for design/engineering and bond costs.

It is likely that this project will be financed via bond. Expecting 15-year bond payment at \$366,500 a year.

946-18-CIP-C Expand Sidewalk System/Infill Gaps (+SID + - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$366,500	\$366,500	\$366,500	\$366,500	\$366,500	\$366,500	\$2,199,000
							Project Total:	\$2,199,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$500,000	
Construction:	\$4,000,000	Cost Total: \$4,500,000
Annual Maint. Cost:		Project Difference: \$-2,301,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

1023-18-CIP Expand Sidewalk System/Infill Gaps (SR2S)

Project Information

Submitted By:	Missy Luick	Department:	Engineering
Category:	Capital	Department Head:	Tim Lodge
Fund Group:	General	Staff Priority:	Essential (Should Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	Imperitive (Must Do)

Project Description:

Enhance public service and access through improved infrastructure near schools (sidewalks, trails, traffic calming) through Michigan Safe Routes to School program. Average grant awards are \$200,000 per school. The City has 10 K-8 schools in the city-limits and we are anticipating a \$2,000,000 grant award for infrastructure to improve access to schools.

1023-18-CIP-C Expand Sidewalk System/Infill Gaps (SR2S) - C

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
FSG	Federal / State Grant	\$0	\$1,000,000	\$1,000,000	\$0	\$0	\$0	\$2,000,000
IN	Inkind	\$100,000	\$100,000	\$100,000	\$0	\$0	\$0	\$300,000

Project Total: \$2,300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$400,000	
Construction:	\$2,000,000	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$2,400,000
		Project Difference: -\$100,000

Service Impact:

Additional infrastructure will increase operations and maintenance.

Project Justification:

Transportation Element and Parks and Recreation Element call for non-motorized connections.

Location Description:

City-wide

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

1025-18-CIP Rivers Edge Riverwalk Decking Replacement

Project Information

Submitted By:	Rob Baciagalupi	Department:	Downtown Development
Category:	Maintenance	Department Head:	Jean Derenzy
Fund Group:	Tax Increment Financing	Staff Priority:	
Fund Detail:	Walkways/Bike Paths	Council Priority:	

Project Description:

Replacement of decking on River's Edge Riverwalk

1025-18-CIP-C Rivers Edge Riverwalk Decking Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIFOT	TIF Old Town	\$0	\$106,869	\$0	\$0	\$0	\$0	\$106,869

Project Total: \$106,869

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$106,869

Service Impact:

None foreseen

Project Justification:

Replacement of old decking

Location Description:

River's Edge

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

942-18-CIP TART Trail Reconstruct from Woodmere to Avenue B

Project Information

Submitted By:	Russ Soyring	Department:	Planning and Zoning
Category:	Maintenance	Department Head:	Russ Soyring
Fund Group:	General	Staff Priority:	Important (Could Do)
Fund Detail:	Walkways/Bike Paths	Council Priority:	

Project Description:

This section of TART trail was constructed in 1986 and is in need of reconstruction and widening from Woodmere to Avenue B. Root damage is cracking and heaving surface which will accelerate in future years without root control. Phase 1 includes the portion between Hastings and Avenue B with a connector to Avenue B and has a cost of \$80,000. Phase 2 timeline is yet to be determined from Woodmere to Hastings.

942-18-CIP-C TART Trail Reconstruct from Woodmere to Av B- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
GEN	General Fund	\$0	\$25,000	\$0	\$0	\$0	\$345,000	\$370,000
P	Private	\$0	\$55,000	\$0	\$0	\$0	\$0	\$55,000
							Project Total:	\$425,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$500,000	Cost Total: \$500,000
Annual Maint. Cost:		Project Difference: -\$75,000
Maint. Year Start:		

Service Impact:

None.

Project Justification:

Trail surface is deteriorating and width does not meet current standards.

Location Description:

TART Trail from Woodmere to Avenue B.

Six Year Capital Improvement Program

WALK-18-CIP

Walkways

1069-18-CIP Wellington Plaza Erosion Stabilization Project

Project Information

Submitted By: Rob Baciagalupi
Category: Maintenance
Fund Group: Tax Increment Financing
Fund Detail:

Department: Downtown Development
Department Head: Jean Derenzy
Staff Priority:
Council Priority:

Project Description:

Corrective measures to stabilize erosion damage beneath the walkway platform at Wellington Plaza on the Boardman River.

1069-18-CIP-C Wellington Plaza Erosion Stabilization Project- C

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
TIF97	TIF 97	\$50,000	\$0	\$0	\$0	\$0	\$0	\$50,000

Project Total: \$50,000

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$50,000

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$50,000

Project Difference: \$0

Service Impact:

None.

Project Justification:

Maintenance

Location Description:

501 E. Front Street

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds	
1052-18-CIP	16" San. Forcemain East Front L.S. To Wellington	M	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
+ 1044-18-CIP	2nd Membrane Replacement	M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
366-18-CIP	Annual Sewer Rehab/Replace	V	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000	\$2,700,000	\$0
13-18-CIP	Annual Storm Water Mngt Program	M	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	\$300,000	\$0
+ 948-18-CIP	Digester 3 and 4 Reconditioning	M	\$608,188	\$0	\$608,188	\$0	\$0	\$0	\$1,216,376	\$1,216,376	\$0
+ 1036-18-CIP	Digester 5 Cleaning and Reconditioning Equipment	M	\$0	\$0	\$0	\$0	\$277,240	\$0	\$277,240	\$277,240	\$0
+ 1037-18-CIP	Digester Gas Metering	C	\$0	\$0	\$0	\$0	\$70,000	\$0	\$70,000	\$70,000	\$0
1051-18-CIP	East Front Street San. Sewer Lining	M	\$400,000	\$0	\$0	\$0	\$0	\$0	\$400,000	\$400,000	\$0
+ 971-18-CIP	Enclose Membrane Trains	C	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
1000-18-CIP	Engineering Eval/Cond Assess Birchwood-Bay St LS	V	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000	\$30,000	\$0
1031-18-CIP	Engineering Eval/Cond Assess Woodmere LS	V	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000	\$15,000	\$0
967-18-CIP	Engineering Evaluation of Clinch -Coast Guard LS	V	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000	\$30,000	\$0
+ 1019-18-CIP	Engineering study pertaining to the Facility Plan	M	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000	\$350,000	\$0
1002-18-CIP	Front St LS- Engineering Evaluation/Capacity Study	V	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1001-18-CIP	Front ST. LS-VFD Pipe&Pump Wet Well Upgrade	M	\$0	\$0	\$0	\$598,000	\$0	\$0	\$598,000	\$598,000	\$0
910-18-CIP	Front Street Lift Station Pump Around Hookup	V	\$0	\$0	\$0	\$80,000	\$0	\$0	\$80,000	\$80,000	\$0
913-18-CIP	Lift Station Telemetry System	V	\$0	\$0	\$0	\$0	\$131,312	\$0	\$131,312	\$131,312	\$0
+ 900-18-CIP	Membrane Distribution & RAS Channel Aeration Line	M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
+ 786-18-CIP	Membrane Gate Replacement	M	\$59,982	\$0	\$0	\$0	\$0	\$0	\$59,982	\$59,982	\$0
1032-18-CIP	New Portable Generator for Lift Stations	C	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000	\$150,000	\$0
+ 890-18-CIP	Plant-Membrane Replacement	M	\$860,000	\$860,000	\$0	\$0	\$0	\$0	\$1,720,000	\$1,720,000	\$0
+ 905-18-CIP	Primary Clarifier Chain/Flight Replacement	M	\$0	\$0	\$0	\$1,000,000	\$0	\$0	\$1,000,000	\$1,000,000	\$0
+ 904-18-CIP	Primary Clarifier Supports and Structure	M	\$0	\$0	\$0	\$502,451	\$0	\$0	\$502,451	\$502,451	\$0
+ 902-18-CIP	Primary Header Replacement	M	\$0	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$0
+ 912-18-CIP	Reconditioning Digesters 1 and 2	M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
898-18-CIP	Riverine Lift Station Engineering Eval Etc.	M	\$0	\$0	\$0	\$0	\$112,865	\$0	\$112,865	\$112,865	\$0
+ 795-18-CIP	SCADA Upgrade	V	\$0	\$120,000	\$0	\$0	\$0	\$0	\$120,000	\$120,000	\$0
+ 1073-18-CIP	Scour Air Blower Overhaul-5 blowers at TCRWWTP	M	\$45,000	\$47,250	\$47,250	\$48,250	\$48,250	\$0	\$236,000	\$236,000	\$0

Six Year Capital Improvement Plan
Budget Year 2018-2019 by Program Name

All Projects Submitted for 2018-2019

Bold - Indicates projects occurring in the first FY of the plan.
+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
Wastewater										
+ 1034-18-CIP	Screw Pump 1 Drive Assembly Replacement	M	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
+ 893-18-CIP	Screw Pump 2 and 3 Replacement	M	\$0	\$1,160,000	\$0	\$0	\$0	\$0	\$1,160,000	\$1,160,000
+ 970-18-CIP	TCRWWTP- PLC Upgrade	M	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000	\$300,000
968-18-CIP	Upgrade Controls at 6 Lift Stations	M	\$0	\$0	\$0	\$0	\$184,440	\$0	\$184,440	\$184,440
+ 1033-18-CIP	UV System and Related Structures Upgrade	C	\$0	\$0	\$0	\$0	\$0	\$3,000,000	\$3,000,000	\$3,000,000
+ 1018-18-CIP	UV System and Structure Modification Project	C	\$150,000	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
+ 764-18-CIP	Window Replacement 503 Hannah Ave.	V	\$60,000	\$0	\$0	\$0	\$0	\$0	\$60,000	\$60,000
1058-18-CIP	WW Gravity Main Rehab\Repair and PACP Inspections	M	\$385,000	\$385,000	\$385,000	\$385,000	\$385,000	\$385,000	\$2,310,000	\$2,310,000
1057-18-CIP	WW Manholes Rehab\Repair and MACP Inspections	M	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000	\$300,000
Total Wastewater			\$3,468,170	\$4,652,250	\$1,985,438	\$3,263,701	\$1,759,107	\$4,085,000	\$19,213,666	\$19,213,666

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

1052-18-CIP 16" San. Forcemain East Front L.S. To Wellington

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Replace approx. 300 lineal feet of 16" forcemain from the Front Street Lift Station along E. Front Street to Wellington Street.

1052-18-CIP-C 16" San. Forcemain East Front L.S. To Wellington

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$100,000	\$0	\$0	\$100,000
							Project Total:	\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1044-18-CIP **2nd Membrane Replacement**

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance
Fund Group: Waste Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Replace 1 train of membranes each year until all 8 trains of membranes are replaced. This project was moved out to start 2024/2025 and inactive for now.

1044-18-CIP-C 2nd Membrane Replacement

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:								\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$0
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

606 Hannah Avenue

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

366-18-CIP **Annual Sewer Rehab/Replace**

Project Information

Submitted By:	Justin Roy	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Provide \$450,000 annually in both the water and wastewater funds to continue systematic improvements (repair and replacement) of our underground infrastructure.

366-18-CIP-C Annual Sewer Rehab/Replace - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000
							Project Total:	\$2,700,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,700,000	Cost Total: \$2,700,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

13-18-CIP **Annual Storm Water Mngt Program**

Project Information

Submitted By:	Tim Lodge	Department:	Engineering
Category:	Maintenance	Department Head:	Tim Lodge
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

This line item will guarantee funds to construct and repair city storm sewer lines. Funds may be used to disconnect sanitary sewers as well as water quality related infrastructure.

13-18-CIP-C Annual Storm Water Management Program - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000

Project Total: \$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

948-18-CIP Digester 3 and 4 Reconditioning

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Perform actions outlined by third party condition assessment of digesters. Cost is TBD by condition assessment.

948-18-CIP-C Digester 3 and 4 Reconditioning per 2017/2 - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$304,094	\$0	\$304,094	\$0	\$0	\$0	\$608,188
S	Sewer Fund	\$304,094	\$0	\$304,094	\$0	\$0	\$0	\$608,188
Project Total:								\$1,216,376

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,216,376	Cost Total: \$1,216,376
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1036-18-CIP **Digester 5 Cleaning and Reconditioning Equipment**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Clean digester 5, re-coat concrete if needed, refurbishing of existing centrifugal pumps used for mixing, and purchase of 1 new pump to add redundancy.

1036-18-CIP-C Digester 5 Cleaning and Reconditioning Equipment

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$138,620	\$0	\$138,620
S	Sewer Fund	\$0	\$0	\$0	\$0	\$138,620	\$0	\$138,620
Project Total:								\$277,240

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$277,240	Cost Total: \$277,240
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1037-18-CIP **Digester Gas Metering**

Project Information

Submitted By: Elizabeth Hart
Category: Capital
Fund Group: Waste Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Add metering and monitoring capabilities to the digester gas system.

1037-18-CIP-C Digester Gas Metering

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000
							Project Total:	\$70,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$70,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$70,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**
971-18-CIP **Enclose Membrane Trains**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Construct a building around membrane trains to keep them out of the elements preventing possible freezing, etc., and making it possible to do recovery cleaning in the winter months. Project was moved out to 2024/2025 and is inactive for now.

971-18-CIP-C Enclose Membrane Trains - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:								\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$500,000	Cost Total: \$500,000
Annual Maint. Cost:		Project Difference: -\$500,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

1000-18-CIP **Engineering Eval/Cond Assess Birchwood-Bay St LS**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

An engineering evaluation at Birchwood and Bay St Lift Stations (LS) to assess the lift stations' capacity, its structural condition, and to identify needed equipment upgrades.

1000-18-CIP-C Engineering Eval/Cond Assess Birchwood & Bay St LS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$30,000	\$0	\$0	\$0	\$0	\$30,000
Project Total:								\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$30,000
		Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1031-18-CIP **Engineering Eval/Cond Assess Woodmere LS**

Project Information

Submitted By: Elizabeth Hart
Category: Visionary
Fund Group: Waste Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Evaluate current capacity and condition of the lift stations devise engineering plan for addressing any needs.

1031-18-CIP-C Engineering Eval/Cond Assessment Woodmere LS

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$15,000	\$0	\$0	\$0	\$15,000
Project Total:								\$15,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$15,000
Construction: \$0
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$15,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

967-18-CIP Engineering Evaluation of Clinch -Coast Guard LS

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Evaluate current capacity and condition of the lift stations devise engineering plan for addressing any needs.

967-18-CIP-C Engineering Evaluation-Clinch -Coast Guard- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$30,000	\$0	\$0	\$0	\$30,000
Project Total:								\$30,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$30,000	
Construction:	\$0	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1019-18-CIP **Engineering study pertaining to the Facility Plan**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

There are portions of the facility that range from 44-58 years of age. They are showing signs of degradation, and in some cases failure. CH2M developed a facility plan that outlines these areas, and their needs. An engineering study needs to be performed to detail possible solutions.

1019-18-CIP-C Engineering study pertaining to the Facility Plan

Funding Sources:

			2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private		\$175,000	\$0	\$0	\$0	\$0	\$0	\$175,000
S	Sewer Fund		\$175,000	\$0	\$0	\$0	\$0	\$0	\$175,000
Project Total:									\$350,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$350,000		
Construction:	\$0	Cost Total:	\$350,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1002-18-CIP **Front St LS- Engineering Evaluation/Capacity Study**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Engineering study to evaluate the capacity of the lift station, structural condition of the lift station (including the wet well), and options for equipment upgrades.

1002-18-CIP-C Front St LS- Engineering Evaluation

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
Project Total:								\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$50,000	
Construction:	\$0	
Annual Maint. Cost:		
Maint. Year Start:		
		Cost Total: \$50,000
		Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1001-18-CIP **Front ST. LS-VFD Pipe&Pump Wet Well Upgrade**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

The Front Street Lift Station has VFDs in place that have an estimate in service life of 6 years these VFDs will be in service 9 years by 2021-2022. The lift stations wet well, bypass capability, piping, metering, and pumps should be upgraded to add dependability and functionality. This cost is an estimate and will be subject to change once the 2020-2021 engineering study has been performed.

1001-18-CIP-C Front ST. LS-VFD Pipe&Pump Wet Well Upgrade

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$598,000	\$0	\$0	\$598,000
							Project Total:	\$598,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$598,000	Cost Total: \$598,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

910-18-CIP Front Street Lift Station Pump Around Hookup

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Install pump around capabilities at the Front St Lift Station per engineer design.

910-18-CIP-C Front Street Lift Station Pump Around Hook - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$80,000	\$0	\$0	\$80,000
							Project Total:	\$80,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

913-18-CIP Lift Station Telemetry System

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Add and or upgrade telemetry at the following lift stations-Birchwood, Bay St., Woodmere, Coast Guard, Clinch Park, and Riverine

913-18-CIP-C Lift Station Telemetry System for 6 Lift Station

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$131,312	\$0	\$131,312
							Project Total:	\$131,312

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$131,312	Cost Total: \$131,312
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

900-18-CIP **Membrane Distribution & RAS Channel Aeration Line**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Remove and replace aging aeration line in the membrane distribution and RAS channel with SCH 80 PVC. This project was moved out to 2024/2025 and is inactive for now.

900-18-CIP-C Membrane Distribution and RAS Channel Aera - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:								\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$95,400	Cost Total: \$95,400
Annual Maint. Cost:		Project Difference: \$-95,400
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

786-18-CIP Membrane Gate Replacement

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Replace the gate valves at the beginning and end of each membrane train. In previous years \$101,742.00 was spent on project.

786-18-CIP-C Membrane Gate Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$29,991	\$0	\$0	\$0	\$0	\$0	\$29,991
S	Sewer Fund	\$29,991	\$0	\$0	\$0	\$0	\$0	\$29,991
Project Total:								\$59,982

COST DETAIL:

Study: \$0

Land Acquisition / ROW: \$0

Engineering / Design: \$0

Construction: \$161,724

Annual Maint. Cost:

Maint. Year Start:

Cost Total: \$161,724

Project Difference: **-\$101,742**

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1032-18-CIP **New Portable Generator for Lift Stations**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Current generator is obsolete as of 2017. Parts are difficult to obtain and repairs are difficult to complete. This generator would be used to prevent sewer overflows at lift stations in the event of power outages.

1032-18-CIP-C New Portable Generator for Lift Stations

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$150,000	\$150,000
							Project Total:	\$150,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$150,000	Cost Total: \$150,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

890-18-CIP **Plant-Membrane Replacement**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Replace 1 Train of Membranes each year until remaining 4 trains of 500C membrane cassettes are replaced.

890-18-CIP-C Plant-Membrane Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$860,000
S	Sewer Fund	\$430,000	\$430,000	\$0	\$0	\$0	\$0	\$860,000
Project Total:								\$1,720,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,720,000	Cost Total: \$1,720,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

905-18-CIP **Primary Clarifier Chain/Flight Replacement**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:
Replace the chains and flights in all 8 Primary Clarifiers.

905-18-CIP-C Replace the Chains and Flights in Primary - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000
S	Sewer Fund	\$0	\$0	\$0	\$500,000	\$0	\$0	\$500,000
Project Total:								\$1,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,000,000	Cost Total: \$1,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

904-18-CIP **Primary Clarifier Supports and Structure**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Replace support beams and brackets in all 8 Primary Clarifiers. Repair and recoat the concrete in all 8 Primary Clarifiers.

904-18-CIP-C Primary Clarifier Supports and Structure - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$251,226	\$0	\$0	\$251,226
S	Sewer Fund	\$0	\$0	\$0	\$251,226	\$0	\$0	\$251,226
Project Total:								\$502,451

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$502,451	Cost Total: \$502,451
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

902-18-CIP

Primary Header Replacement

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance
Fund Group: Waste Water
Fund Detail: Sewer Plant and Buildings

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority: Imperitive (Must Do)
Council Priority:

Project Description:

The top of the Header has some exposed areas. Header has never been full so doesn't leak, but should be repaired.

902-18-CIP-C Primary Header Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$750,000	\$0	\$0	\$0	\$0	\$750,000
S	Sewer Fund	\$0	\$750,000	\$0	\$0	\$0	\$0	\$750,000
Project Total:								\$1,500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,500,000	Cost Total: \$1,500,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

912-18-CIP **Reconditioning Digesters 1 and 2**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Important (Could Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Install flame arrestors, and PRVs. Identify and seal all leaks. Test vessels for proper functioning. Cost Subject to engineering study that will result from facility plan completion in 2018-2019. Project was moved out to 2024/2025 and is inactive for now.

912-18-CIP-C Reconditioning Digesters 1 and 2 - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:								\$0

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: -\$80,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

898-18-CIP **Riverine Lift Station Engineering Eval Etc.**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Engineering study to evaluate the capacity of the lift station, structural condition of the lift station, and options for equipment upgrades. Upgrades as defined by engineering study maybe-replace pumps, check valves, add a wet well mixer, reline pump housing, and replace cathodic protection

898-18-CIP-C Riverine Lift Station Engineering Eval etc.

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$112,865	\$0	\$112,865

Project Total: \$112,865

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$112,865	Cost Total: \$112,865
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

795-18-CIP **SCADA Upgrade**

Project Information

Submitted By: Elizabeth Hart
Category: Visionary
Fund Group: Waste Water
Fund Detail: Sewer Plant and Buildings

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority: Important (Could Do)
Council Priority:

Project Description:
 Upgrade SCADA system that controls the plant.

795-18-CIP-C SCADA Upgrade - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
S	Sewer Fund	\$0	\$60,000	\$0	\$0	\$0	\$0	\$60,000
Project Total:								\$120,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$120,000	Cost Total: \$120,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1073-18-CIP **Scour Air Blower Overhaul-5 blowers at TCRWWTP**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

The Scour Air Blowers at the TCRWWTP are used in the membrane process to periodically clear solids from the membrane surface in order to maintain permeability. The blowers have been in service since 2004 and based on the run times, and recent inspection by Aerzen, they are in need of an overhaul. Aerzen, the blower manufacturer, has an exchange program that will allow us to keep 5 scour air blowers in services while the inspect and overhaul the blower that was in service at the facility. The service Aerzen provides removal and install of the blowers which are very heavy. We will only be charge for the actual items needing overhauled once the blower has been inspected in the shop. We will need to front the cost of the exchange unit and also bay for install and removal. Once the system is assessed, we will be reimbursed for the actual cost of the overhaul. The exchange cost is the maximum cost of the Overhaul.

1073-18-CIP-C Scour Air Blower Overhaul

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$22,500	\$23,625	\$23,625	\$24,125	\$24,125	\$0	\$118,000
S	Sewer Fund	\$22,500	\$23,625	\$23,625	\$24,125	\$24,125	\$0	\$118,000
							Project Total:	\$236,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$236,000	Cost Total: \$236,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP Wastewater

1034-18-CIP **Screw Pump 1 Drive Assembly Replacement**

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance
Fund Group: Waste Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Replace the drive assembly for screw pump 1 and modified support structures as needed to bear the load.

1034-18-CIP-C Screw Pump 1 Drive Assembly Replacement

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$0	\$0
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project Total:								\$0

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$200,318
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$200,318
Project Difference: **-\$200,318**

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

893-18-CIP **Screw Pump 2 and 3 Replacement**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Replacement of screw body, upper and lower bearings,drive assembly replacement, wet well and trough reconditioning. Possible replacement of screw pumps 2 and 3 with submersible pumps if feasible and more cost effective. (To be determined by facility plan to be completed in 2018-2019)

893-18-CIP-C Screw Pump Replacement - Cost

Funding Sources:

			2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private		\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000
S	Sewer Fund		\$0	\$580,000	\$0	\$0	\$0	\$0	\$580,000
Project Total:									\$1,160,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$1,160,000	Cost Total:	\$1,160,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**
970-18-CIP **TCRWWTP- PLC Upgrade**

Project Information

Submitted By: Elizabeth Hart
Category: Maintenance
Fund Group: Waste Water
Fund Detail: Sewer Plant and Buildings

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority: Imperitive (Must Do)
Council Priority:

Project Description:

Upgrade PLC (Programmable Logic Controls) to maintain current plant functionality. Contains 12 PLCs and includes adding additional processors to allow membrane trains to operate on their own processor.

970-18-CIP-C Plant PLC Upgrade - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000
S	Sewer Fund	\$0	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Project Total:								\$300,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$300,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$300,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

968-18-CIP Upgrade Controls at 6 Lift Stations

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Sewer Collection System	Council Priority:	

Project Description:

Upgrade control panels to replace obsolete equipment and add remote connection capability at the Birchwood, Bay St., Woodmere, Coast Guard, Clinch Park, and Riverine Lift Stations

968-18-CIP-C Control Upgrade at 6 Lift Stations- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$0	\$0	\$184,440	\$0	\$184,440
							Project Total:	\$184,440

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$184,440	Cost Total: \$184,440
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1033-18-CIP **UV System and Related Structures Upgrade**

Project Information

Submitted By:	Elizabeth Hart	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Upgrade UV System and Related Structures as outlined in the approved final version of the Traverse City Regional Waste Water Treatment Plant Ultraviolet Disinfection Evaluation dated September 2017.

1033-18-CIP-C UV System and Related Structures Upgrade

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000
S	Sewer Fund	\$0	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000
							Project Total:	\$3,000,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$3,000,000	Cost Total: \$3,000,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1018-18-CIP **UV System and Structure Modification Project**

Project Information

Submitted By:	Elizabeth Hart	Department:	Sewer
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Sewer Plant and Buildings	Council Priority:	

Project Description:

Per MDEQ requirements modify UV System and Structures to eliminate potential of Electronic Controller Flooding.

1018-18-CIP-C UV System and Structure Modification Project

Funding Sources:

			2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
P	Private		\$75,000	\$0	\$0	\$0	\$0	\$0	\$75,000
S	Sewer Fund		\$75,000	\$0	\$0	\$0	\$0	\$0	\$75,000
Project Total:									\$150,000

COST DETAIL:

Study:	\$0		
Land Acquisition / ROW:	\$0		
Engineering / Design:	\$0		
Construction:	\$150,000	Cost Total:	\$150,000
Annual Maint. Cost:		Project Difference:	\$0
Maint. Year Start:			

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP

Wastewater

764-18-CIP Window Replacement 503 Hannah Ave.

Project Information

Submitted By: Justin Roy	Department: Department of Municipal Utilitie
Category: Visionary	Department Head: Art Krueger
Fund Group: Waste Water	Staff Priority: Essential (Should Do)
Fund Detail: Sewer Plant and Buildings	Council Priority:

Project Description:

Replace original single pane windows and doors with new energy efficient windows and doors.

764-18-CIP-C Window Replacement 503 Hannah Ave. - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
WAT	Water Fund	\$30,000	\$0	\$0	\$0	\$0	\$0	\$30,000
Project Total:								\$60,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$60,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$60,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1058-18-CIP **WW Gravity Main Rehab\Repair and PACP Inspections**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Rehabilitate and Repair Wastewater Gravity Mains that were recommended in the 2015 SAW Grant Asset Management Plan. Also, continue to clean and perform PACP inspections for the entire system within a seven year cycle.

1058-18-CIP-C PACP Sanitary Sewer Video Inspections

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$385,000	\$385,000	\$385,000	\$385,000	\$385,000	\$385,000	\$2,310,000
							Project Total:	\$2,310,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,310,000	Cost Total: \$2,310,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WW-18-CIP **Wastewater**

1057-18-CIP **WW Manholes Rehab\Repair and MACP Inspections**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Waste Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Rehabilitate and Repair Wastewater Manholes that were recommended in the 2015 SAW Grant Asset Management Plan. Also, continue to MACP inspect on all remaining Wastewater Manholes that were not inspected during the 2015 SAW Grant Project.

1057-18-CIP-C MACP Manhole Inspections

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$300,000
							Project Total:	\$300,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$300,000	Cost Total: \$300,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

Bold - Indicates projects occurring in the first FY of the plan.

+ - Indicates projects with multiple funding sources.

Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
1050-18-CIP	12" Watermain Replacement Division to Fitzhugh	C	\$750,000	\$0	\$0	\$0	\$0	\$750,000	\$750,000	\$0
1012-18-CIP	2 Million Gallon LaFrainer Road Water Reservoir	C	\$1,700,000	\$0	\$0	\$0	\$0	\$1,700,000	\$1,700,000	\$0
367-18-CIP	Annual Water Rehab/Replace	V	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000	\$2,700,000	\$0
+ 986-18-CIP	Automated Metering Infrastructure (+Wastewater)	V	\$1,500,000	\$0	\$0	\$0	\$0	\$1,500,000	\$1,500,000	\$0
113-18-CIP	Barlow Reservoir Rehabilitation / Reconstruction	V	\$1,200,000	\$0	\$0	\$0	\$0	\$1,200,000	\$1,200,000	\$0
933-18-CIP	Chemical System Upgrades (Alum, Chlorine & Fluori	V	\$0	\$0	\$0	\$175,000	\$0	\$175,000	\$175,000	\$0
935-18-CIP	East - West Transmission Main Upgrade	V	\$793,000	\$1,125,000	\$730,000	\$1,595,000	\$1,058,000	\$1,045,000	\$6,346,000	\$6,346,000
1053-18-CIP	East Front Street 16" Watermain	C	\$0	\$0	\$0	\$420,000	\$0	\$420,000	\$420,000	\$0
930-18-CIP	Electrical Gear Upgrades at WTP & Low Service	V	\$0	\$850,000	\$0	\$0	\$0	\$850,000	\$850,000	\$0
114-18-CIP	Filters 1, 2 & 3 Media Replacement & Surface Wash	V	\$350,000	\$0	\$0	\$0	\$0	\$350,000	\$350,000	\$0
934-18-CIP	Filters 1, 2 & 3 Valve Replacement	V	\$0	\$400,000	\$0	\$0	\$0	\$400,000	\$400,000	\$0
731-18-CIP	Generator Plug Receptacle for Low Service Pump St	V	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
932-18-CIP	Hannah Ave Water Main Upgrade	V	\$0	\$0	\$310,000	\$0	\$0	\$310,000	\$310,000	\$0
770-18-CIP	High & Low Service Pump Repairs	V	\$80,000	\$80,000	\$80,000	\$80,000	\$0	\$320,000	\$320,000	\$0
1014-18-CIP	Huron Hills Booster Pump Repairs	M	\$25,000	\$25,000	\$0	\$0	\$0	\$50,000	\$50,000	\$0
1028-18-CIP	Lagoon Maintenance	M	\$0	\$60,000	\$0	\$60,000	\$0	\$60,000	\$180,000	\$180,000
1015-18-CIP	Low Service Check Valve Replacement Project	M	\$0	\$0	\$40,000	\$0	\$0	\$40,000	\$40,000	\$0
+ 1027-18-CIP	Park Place Area Infrastructure Improvements	C	\$0	\$0	\$1,225,000	\$0	\$0	\$1,225,000	\$1,225,000	\$0
121-18-CIP	Plant - Freight Elevator Compliance	V	\$0	\$0	\$50,000	\$0	\$0	\$50,000	\$50,000	\$0
1054-18-CIP	Union St. 12" Watermain	C	\$0	\$160,000	\$0	\$0	\$0	\$160,000	\$160,000	\$0
1016-18-CIP	Veterans Drive Water Main Replacement Project.	C	\$0	\$0	\$0	\$400,000	\$0	\$400,000	\$400,000	\$0
1064-18-CIP	Water Facilities Elec. Arc Flash Study	C	\$25,000	\$0	\$0	\$0	\$0	\$25,000	\$25,000	\$0
1066-18-CIP	Water Facilities Fire Alarm System Upgrade	C	\$20,000	\$0	\$0	\$0	\$0	\$20,000	\$20,000	\$0
1048-18-CIP	Water Reliability Study	M	\$80,000	\$0	\$0	\$0	\$0	\$80,000	\$80,000	\$0
1049-18-CIP	Wayne Hill Fire Pump	C	\$0	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000	\$0
1017-18-CIP	WTP Standby Generator Replacement Project	M	\$0	\$0	\$0	\$0	\$250,000	\$250,000	\$250,000	\$0
1065-18-CIP	WTP Sump Pump Discharge Flow Meter	C	\$0	\$0	\$20,000	\$0	\$0	\$20,000	\$20,000	\$0
1047-18-CIP	WTP Turbidimeters Replacement	M	\$0	\$0	\$0	\$0	\$15,000	\$10,000	\$25,000	\$25,000

Six Year Capital Improvement Plan

All Projects Submitted for 2018-2019

Budget Year 2018-2019 by Program Name

<p>Bold - Indicates projects occurring in the first FY of the plan. + - Indicates projects with multiple funding sources.</p>										
Project ID	Cat	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds

Water

1045-18-CIP	WTP Water Quality In-Line Instrumentation	C	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000	\$25,000	\$0
Total Water			\$6,993,000	\$3,150,000	\$3,030,000	\$3,180,000	\$1,773,000	\$1,565,000	\$19,691,000	\$19,691,000	\$0

Six Year Capital Improvement Program

WATER-18-CIP

Water

1050-18-CIP 12" Watermain Replacement Division to Fitzhugh

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Replace approx. 2,400 lineal feet of 12" cast iron main along Division from 14th Street to Fitzhugh Dr. This segment has had multiple watermain breaks in the past due to corrosive soils. The proposed replacement pipe would be a long term solution to combat corrosion and restore reliability to this segment.

1050-18-CIP-C 12" Watermain Replacement Division to Fitzhugh

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000
							Project Total:	\$750,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$750,000	Cost Total: \$750,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1012-18-CIP 2 Million Gallon LaFrainer Road Water Reservoir

Project Information

Submitted By:	Dave Green	Department:	Water
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

Design/Build 2 million gallon reservoir next to the existing 4 million gallon Barlow Reservoir to increase redundancy and allow for preventative maintenance on both tanks. This project may be financed via Bond. 1 Million projected to be spent on project in 2017/2018.

1012-18-CIP-C 2 Million Gallon LaFrainer Road Water Reservoir

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$1,700,000	\$0	\$0	\$0	\$0	\$0	\$1,700,000
							Project Total:	\$1,700,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$290,000	
Construction:	\$2,410,000	
Annual Maint. Cost:		
Maint. Year Start:		
	Cost Total:	\$2,700,000
	Project Difference:	\$-1,000,000

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

367-18-CIP Annual Water Rehab/Replace

Project Information

Submitted By:	Justin Roy	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Provide \$450,000 annually in both the water and wastewater funds to continue systematic improvements (repair and replacement) of the underground infrastructure. The Public Improvement Plan will also contain more detailed descriptions of proposed near-term projects.

367-18-CIP-C Annual Water Rehab/Replace - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,700,000
							Project Total:	\$2,700,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,700,000	Cost Total: \$2,700,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

986-18-CIP Automated Metering Infrastructure (+Wastewater)

Project Information

Submitted By:	Dave Green	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Install water meters and software to accommodate smart metering capabilities that will provide for the migration to electronic advanced meters that will assist utility customers on energy use, reliability and provide reads to utility billing. Will also drive future system engineering and planning as well as provide metrics on completed items to show project results. 1.5 Million projected to be spent in 2017/2018. This project is coordinated with Light and Power project # 825.

986-18-CIP-C Automated Metering Infrastructure (+Wastew - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000
WAT	Water Fund	\$750,000	\$0	\$0	\$0	\$0	\$0	\$750,000
							Project Total:	\$1,500,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$2,950,000	Cost Total: \$2,950,000
Annual Maint. Cost:	\$39,600	Project Difference: \$-1,450,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

113-18-CIP Barlow Reservoir Rehabilitation / Reconstruction

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-4.
 Repair structural members in roofing system, remove interior and exterior coatings and apply new coatings.

113-18-CIP-C Barlow Reservoir Rehabilitation / Reconstr - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$1,200,000	\$0	\$0	\$0	\$0	\$0	\$1,200,000
							Project Total:	\$1,200,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$100,000	
Construction:	\$1,100,000	Cost Total: \$1,200,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

933-18-CIP Chemical System Upgrades (Alum, Chlorine & Fluori

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-7. Of these three (3) chemical systems, the Fluoride and Alum (now Ferric) chemical systems have already been completely upgraded as of 2017. The Chlorine system's chemical feed portion was also upgraded in 2012, so the two (2) Chlorine bulk storage tanks (installed 1994) are the only remaining items needing to be upgraded since they are reaching the end of their useful life.

933-18-CIP-C Chemical System Upgrades (Alum, Chlorine & - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$0	\$175,000	\$0	\$0	\$175,000
							Project Total:	\$175,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$10,000	
Construction:	\$165,000	
Annual Maint. Cost:		Cost Total: \$175,000
Maint. Year Start:		Project Difference: \$0

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

935-18-CIP East - West Transmission Main Upgrade

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

Projects recommended in the 2014 Water System Reliability Study Table 23, Projects P-3 and P-9 in multiple phases. Costs / phases updated in 2017 by Wade Trim. Replace aged smaller diameter mains with new 13,035 (12,135 + 900 Franklin from Wash to 8th) lineal feet of 24-inch main and 3,125 lineal feet of new 16-inch main. FY18-19: Phase 1: 24" main on 8th from Lake Ave to Boardman
 FY18-19: Phase 3A: 24" main on Lake Ave from 8th to Cass
 FY19-20: Phase 2: 24" main on 8th from Boardman Ave to Railroad Ave & Add 24" on Franklin, Wash to 8th
 FY20-21: Phase 3B: 24" main on Lake Ave from Cass to Union
 FY20-21: Phase 4: 24" main on 7th from Union to Wadsworth
 FY21-22: Phase 5: 24" on Webster from Railroad Ave to Garfield
 FY22-23: Phase 6: 24" main on 7th from Wadsworth to Spruce
 FY23-24: Phase 7: 16" main on Spruce from 7th to Wayne St.

935-18-CIP-C East - West Transmission Main Upgrade - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$793,000	\$1,125,000	\$730,000	\$1,595,000	\$1,058,000	\$1,045,000	\$6,346,000
							Project Total:	\$6,346,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$6,346,000	Cost Total: \$6,346,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1053-18-CIP **East Front Street 16" Watermain**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Replace approx. 1230 lineal feet of existing 16" pit cast main from the early 1900's in E. Front Street between Railroad and Boardman Avenues.

1053-18-CIP-C East Front Street 16" Watermain

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$0	\$420,000	\$0	\$0	\$420,000
							Project Total:	\$420,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$420,000	Cost Total: \$420,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

930-18-CIP Electrical Gear Upgrades at WTP & Low Service

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-5. Update original (1965 and 1972) electrical equipment for both High Service and Low Service pumps. Project will also increase electric efficiency and reliability.

930-18-CIP-C Electrical Gear Upgrades at WTP & Low Serv - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$850,000	\$0	\$0	\$0	\$0	\$850,000

Project Total: \$850,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$850,000	Cost Total: \$850,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

114-18-CIP Filters 1, 2 & 3 Media Replacement & Surface Wash

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-2.
Remove and replace all filter media in filters #1, #2 and #3. The media in filters #1 and #2 is 53 years old (original from 1965) and filter #3 media is 46 years old (original from 1972) and has been in use for all that time. The surface wash piping system needs to be replaced to work more effectively and the concrete filter wall coatings in all three filter bays need to be removed and recoated.

114-18-CIP-C Filters 1, 2 & 3 Media Replacement & Surfa - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$350,000	\$0	\$0	\$0	\$0	\$0	\$350,000
							Project Total:	\$350,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$350,000	Cost Total: \$350,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

934-18-CIP Filters 1, 2 & 3 Valve Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-8.
 Replace 8 of 9 valves per filter; 24 valves total in the three oldest filters that were originally built in 1965 (filters 1 & 2) and 1972 (filter 3). These valves will be at the end of their useful life. The main effluent control valve in these three filters was replaced with the SCADA Project ID#103 in 2015-2016.

934-18-CIP-C Filters 1, 2 & 3 Valve Replacement - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$400,000	\$0	\$0	\$0	\$0	\$400,000
							Project Total:	\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$25,000	
Construction:	\$375,000	
Annual Maint. Cost:		Cost Total: \$400,000
Maint. Year Start:		Project Difference: \$0

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

731-18-CIP Generator Plug Receptacle for Low Service Pump St

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Install complete auxiliary electrical system from pumps to exterior portable generator plug at each Low Service Pump Station.

731-18-CIP-C Generator Plug Receptacle for Low Service - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
							Project Total:	\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

932-18-CIP **Hannah Ave Water Main Upgrade**

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Project recommended in the 2014 Water System Reliability Study Table 23, Project P-6.
 Replace 1,900 lineal feet of aging 6-inch main on Hannah Ave. with 12-inch main from Bates Street to S. Garfield Ave. Project needs to be coordinated with the bonded sidewalk project.

932-18-CIP-C Hannah Ave Water Main Upgrade - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$310,000	\$0	\$0	\$0	\$310,000

Project Total: \$310,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$310,000	Cost Total: \$310,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

770-18-CIP High & Low Service Pump Repairs

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Imperitive (Must Do)
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

4 High Service and 3 Low Service pumps and motors need to be pulled and rebuilt by a pump service company. The motor windings need to be replaced so that a variable frequency drive (VFD) can be installed on the pumps. VFD's allow significant energy s

770-18-CIP-C High & Low Service Pump Repairs - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$80,000	\$80,000	\$80,000	\$80,000	\$0	\$0	\$320,000

Project Total: \$320,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$320,000	Cost Total: \$320,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1014-18-CIP Huron Hills Booster Pump Repairs

Project Information

Submitted By:	Art Krueger	Department:	Water
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Rebuild / repair two (2) of three (3) booster pumps in the Huron Hills Booster Station

1014-18-CIP-C Huron Hills Booster Pump Repairs

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$25,000	\$25,000	\$0	\$0	\$0	\$0	\$50,000
Project Total:								\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$50,000	Cost Total: \$50,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1028-18-CIP

Lagoon Maintenance

Project Information

Submitted By: Art Krueger
Category: Maintenance
Fund Group: Water
Fund Detail: Water Treatment

Department: Department of Public Services
Department Head: Art Krueger
Staff Priority: Imperitive (Must Do)
Council Priority:

Project Description:

There are 2 washwater lagoons behind the water treatment plant facility and the sludge from the filter backwashing process must be removed and hauled to the landfill.

1028-18-CIP-C Lagoon Maintenance- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$60,000	\$0	\$60,000	\$0	\$60,000	\$180,000
							Project Total:	\$180,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$180,000	Cost Total: \$180,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1015-18-CIP Low Service Check Valve Replacement Project

Project Information

Submitted By:	Art Krueger	Department:	Water Treatment
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Replace old, existing check valves in the Low Service Building piping system.

1015-18-CIP-C Low Service Check Valve Replacement Project

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$40,000	\$0	\$0	\$0	\$40,000
Project Total:								\$40,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$40,000	Cost Total: \$40,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1027-18-CIP Park Place Area Infrastructure Improvements

Project Information

Submitted By:	Missy Luick	Department:	Engineering
Category:	Capital	Department Head:	Tim Lodge
Fund Group:	Water	Staff Priority:	
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

The Park Place Brownfield Plan identifies water main and storm sewer water quality improvements. Watermain- An upgraded 12" watermain will be installed from Boardman to Cass and will go down a portion of State Street and Washington Streets. Storm Sewer Water Quality- This improvement will include a combination of infiltration and filtration to improve water quality for a significant portion of the downtown area. Both projects will be reimbursed using Brownfield funds.

1027-18-CIP-C Park Place Area Infrastructure Improvements- Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
S	Sewer Fund	\$0	\$0	\$250,000	\$0	\$0	\$0	\$250,000
WAT	Water Fund	\$0	\$0	\$975,000	\$0	\$0	\$0	\$975,000
							Project Total:	\$1,225,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$1,225,000	Cost Total: \$1,225,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

The improvement will upgrade the city's water distribution system to current standards for fire protection and will implement best practices for storm water management. there could be an increase in maintenance costs

Project Justification:

Park Place Brownfield Plan, Water Reliability Study, Improve Water Quality.

Location Description:

Park Place vicinity

Six Year Capital Improvement Program

WATER-18-CIP

Water

121-18-CIP Plant - Freight Elevator Compliance

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Visionary	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Treatment	Council Priority:	

Project Description:

Replacement of steel single wall casing with double wall casing.

121-18-CIP-C Plant - Freight Elevator Compliance - Cost

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$50,000	\$0	\$0	\$0	\$50,000
Project Total:								\$50,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$30,000	Cost Total: \$30,000
Annual Maint. Cost:		Project Difference: \$20,000
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1054-18-CIP **Union St. 12" Watermain**

Project Information

Submitted By: Art Krueger
Category: Capital
Fund Group: Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Install approx. 300 lineal feet of 12" main across Union Street bridge from 6th Street to alley north of river to replace existing 12" main across Union Street Dam. This project may be an alternate to 1027-18-CIP Park Place Area Infrastructure Improvements project.

1054-18-CIP-C Union St. 12" Watermain

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$160,000	\$0	\$0	\$0	\$0	\$160,000
							Project Total:	\$160,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$160,000	Cost Total: \$160,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1016-18-CIP **Veterans Drive Water Main Replacement Project.**

Project Information

Submitted By:	Justin Roy	Department:	Water
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water Distribution System	Council Priority:	

Project Description:

Replace 6" and 8" diameter water main with 12" between 14th Street and Georgetown Place.

1016-18-CIP-C Veterans Drive Water Main Replacement Project.

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$0	\$400,000	\$0	\$0	\$400,000
Project Total:								\$400,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$400,000	Cost Total: \$400,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1064-18-CIP Water Facilities Elec. Arc Flash Study

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Perform Electrical System Arc Flash Study at the WTP, Low Service Pump Station and Wayne Hill Booster Station

1064-18-CIP-C Water Facilities Elec. Arc Flash Study

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$25,000	\$0	\$0	\$0	\$0	\$0	\$25,000
Project Total:								\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1066-18-CIP Water Facilities Fire Alarm System Upgrade

Project Information

Submitted By: Art Krueger
Category: Capital
Fund Group: Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Upgrade fire alarm systems at the WTP, Low Service Pump Station and the Wayne Hill Booster Station

1066-18-CIP-C Water Facilities Fire Alarm System Upgrade

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$20,000	\$0	\$0	\$0	\$0	\$0	\$20,000
Project Total:								\$20,000

COST DETAIL:

Study: \$0
Land Acquisition / ROW: \$0
Engineering / Design: \$0
Construction: \$20,000
Annual Maint. Cost:
Maint. Year Start:

Cost Total: \$20,000
Project Difference: \$0

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1048-18-CIP **Water Reliability Study**

Project Information

Submitted By: Art Krueger
Category: Maintenance
Fund Group: Water
Fund Detail:

Department: Department of Municipal Utilities
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Need to update the 2014 Water System Reliability Study for 2019 as required by the MDEQ (every 5 years).

1048-18-CIP-C Water Reliability Study

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$80,000	\$0	\$0	\$0	\$0	\$0	\$80,000
							Project Total:	\$80,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$80,000	Cost Total: \$80,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1049-18-CIP **Wayne Hill Fire Pump**

Project Information

Submitted By: Art Krueger
Category: Capital
Fund Group: Water
Fund Detail:

Department: Department of Municipal Utilitie
Department Head: Art Krueger
Staff Priority:
Council Priority:

Project Description:

Need to improve fire protection in the Wayne Hill, Incochee and Morgan Farms area pressure districts which are fed from the Wayne Hill Booster Station.

1049-18-CIP-C Wayne Hill Fire Pump

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$100,000	\$0	\$0	\$0	\$100,000
							Project Total:	\$100,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$100,000	Cost Total: \$100,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1017-18-CIP WTP Standby Generator Replacement Project

Project Information

Submitted By:	Art Krueger	Department:	Water Treatment
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	Essential (Should Do)
Fund Detail:	Water System Reliability Projec	Council Priority:	

Project Description:

Existing generator is over 20 years old and is nearing the end of its useful life. This project will replace it with a new, more efficient model. This is project # P-11 in the 2014 Water System Reliability Study.

1017-18-CIP-C WTP Standby Generator Replacement Project

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$250,000	\$0	\$250,000
							Project Total:	\$250,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$250,000	Cost Total: \$250,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1065-18-CIP WTP Sump Pump Discharge Flow Meter

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Install flow meter to accurately measure lagoon discharge (from filter backwash) to East Bay as required per the NPDES permit.

1065-18-CIP-C WTP Sump Pump Discharge Flow Meter

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$20,000	\$0	\$0	\$0	\$20,000
Project Total:								\$20,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$20,000	Cost Total: \$20,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:

Six Year Capital Improvement Program

WATER-18-CIP

Water

1047-18-CIP WTP Turbidimeters Replacement

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Maintenance	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Turbidity meters at the WTP will need to be replaced as they reach the end of their useful life. Reliable equipment and accurate readings are required by the MDEQ for water quality monitoring / compliance.

1047-18-CIP-C WTP Turbidimeters Replacement

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$0	\$0	\$15,000	\$10,000	\$25,000
							Project Total:	\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

WATER-18-CIP

Water

1045-18-CIP WTP Water Quality In-Line Instrumentation

Project Information

Submitted By:	Art Krueger	Department:	Department of Municipal Utilitie
Category:	Capital	Department Head:	Art Krueger
Fund Group:	Water	Staff Priority:	
Fund Detail:		Council Priority:	

Project Description:

Replace the existing in-line Chlorine analyzer as it nears the end of its useful life and install a streaming current monitor instrument to optimize daily coagulant dosing.

1045-18-CIP-C WTP Water Quality In-Line Instrumentation

Funding Sources:

		2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024	Total
WAT	Water Fund	\$0	\$0	\$25,000	\$0	\$0	\$0	\$25,000
							Project Total:	\$25,000

COST DETAIL:

Study:	\$0	
Land Acquisition / ROW:	\$0	
Engineering / Design:	\$0	
Construction:	\$25,000	Cost Total: \$25,000
Annual Maint. Cost:		Project Difference: \$0
Maint. Year Start:		

Service Impact:

Project Justification:

Location Description:



Six Year Capital Improvement Program

	Fiscal Year 2018-2019	Fiscal Year 2019-2020	Fiscal Year 2020-2021	Fiscal Year 2021-2022	Fiscal Year 2022-2023	Fiscal Year 2023-2024	Project Cost	City Funds	Non-City Funds
GRAND TOTAL:	\$41,786,037	\$43,612,431	\$24,473,164	\$24,905,201	\$13,585,972	\$21,428,800	\$169,791,605	\$169,791,605	\$0

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