

2018-2022  
Capital  
Improvement  
Plan



City of Northfield, Minnesota

Capital Improvement Plan

2018 thru 2022

PROJECTS BY FUNDING SOURCE

Source	Project #	2018	2019	2020	2021	2022	Total
<b>Assessments</b>							
2018 Washington Street Mill and Overlay	E-2018-002	172,428					172,428
2018 Division & Seventh Street Reconstruction	E-2018-003	235,709					235,709
2019 NW Area Reclamation	E-2019-001		606,195				606,195
2020 NE Area Mill and Overlay	E-2020-002			350,250			350,250
2020 College & Winona Street Reconstruction	E-2020-003			286,090			286,090
2021 Mayflower Hill Reclamation	E-2021-002				756,990		756,990
2021 Water Street South Reconstruction	E-2021-003				119,420		119,420
2022 Odd Fellow Area Reconstruction	E-2022-002					170,456	170,456
<b>Assessments Total</b>		<b>408,137</b>	<b>606,195</b>	<b>636,340</b>	<b>876,410</b>	<b>170,456</b>	<b>2,697,538</b>
<b>Bonded Dollars</b>							
2018 Division & Seventh Street Reconstruction	E-2018-003	654,515					654,515
2019 NW Area Reclamation	E-2019-001		233,366				233,366
2019 Wall Street Road Reconstruction	E-2019-004		147,375				147,375
2020 NE Area Mill and Overlay	E-2020-002			190,833			190,833
2020 College & Winona Street Reconstruction	E-2020-003			1,357,662			1,357,662
2021 Mayflower Hill Reclamation	E-2021-002				509,354		509,354
2021 Water Street South Reconstruction	E-2021-003				703,213		703,213
2022 Odd Fellow Area Reconstruction	E-2022-002					520,711	520,711
Fire Facility	F-2017-001	3,953,000					3,953,000
Downtown Parking Lots Rehabilitation	ST-2018-LOTS	338,485					338,485
<b>Bonded Dollars Total</b>		<b>4,946,000</b>	<b>380,741</b>	<b>1,548,495</b>	<b>1,212,567</b>	<b>520,711</b>	<b>8,608,514</b>
<b>City Facilities Fund</b>							
LED Street Department Lighting	F-2017-LED	18,000					18,000
Roof Replacement	ST-2019-ROOF		160,000				160,000
<b>City Facilities Fund Total</b>		<b>18,000</b>	<b>160,000</b>				<b>178,000</b>
<b>Grant</b>							
Riverside Park Playground Replacement	P-2022-001					60,000	60,000
<b>Grant Total</b>						<b>60,000</b>	<b>60,000</b>
<b>Liquor</b>							
Liquor Store Relocation	LIQ-2016-001	500,000					500,000
<b>Liquor Total</b>		<b>500,000</b>					<b>500,000</b>
<b>MSA</b>							

Source	Project #	2018	2019	2020	2021	2022	Total
2018 Washington Street Mill and Overlay	E-2018-002	611,124					611,124
2018 Division & Seventh Street Reconstruction	E-2018-003	1,380,099					1,380,099
2018 Seal Coat/Crack Fill Project	E-2018-004	137,006					137,006
2018 Spring Creek Road Reconstruction Project	E-2018-005	752,845					752,845
2019 NW Area Reclamation	E-2019-001		402,270				402,270
2019 Seal Coat/Crack Fill Project	E-2019-002		131,072				131,072
2019 TH 246 & Jefferson Parkway	E-2019-003		1,427,028				1,427,028
2020 NE Area Mill and Overlay	E-2020-002			95,278			95,278
2020 Seal Coat/Crack Fill Project	E-2020-004			128,769			128,769
2021 Seal Coat/Crack Fill Project	E-2021-004				79,590		79,590
2022 Spring Creek Road Bridge L2765 Replacement	E-2022-001					350,000	350,000
2022 Seal Coat/Crack Fill Project	E-2022-003					11,215	11,215
Spring Creek Road Reconstruction Phase II	E-2022-004					1,800,000	1,800,000
<b>MSA Total</b>		<b>2,881,074</b>	<b>1,960,370</b>	<b>224,047</b>	<b>79,590</b>	<b>2,161,215</b>	<b>7,306,296</b>
<b>Other</b>							
2018 Spring Creek Road Reconstruction Project	E-2018-005	104,723					104,723
2019 TH 246 & Jefferson Parkway	E-2019-003		1,304,790				1,304,790
2022 Spring Creek Road Bridge L2765 Replacement	E-2022-001					350,000	350,000
<b>Other Total</b>		<b>104,723</b>	<b>1,304,790</b>			<b>350,000</b>	<b>1,759,513</b>
<b>Park Fund</b>							
Riverside Park Playground Replacement	P-2022-001					60,000	60,000
<b>Park Fund Total</b>						<b>60,000</b>	<b>60,000</b>
<b>Revenue Bond</b>							
Liquor Store Relocation	LIQ-2016-001	2,000,000					2,000,000
<b>Revenue Bond Total</b>		<b>2,000,000</b>					<b>2,000,000</b>
<b>Rice County</b>							
2019 Wall Street Road Reconstruction	E-2019-004		180,125				180,125
<b>Rice County Total</b>			<b>180,125</b>				<b>180,125</b>
<b>Stormwater Fund</b>							
2018 Washington Street Mill and Overlay	E-2018-002	17,115					17,115
2018 Division & Seventh Street Reconstruction	E-2018-003	179,102					179,102
2019 NW Area Reclamation	E-2019-001		101,859				101,859
2019 TH 246 & Jefferson Parkway	E-2019-003		122,239				122,239
2020 NE Area Mill and Overlay	E-2020-002			36,715			36,715
2020 College & Winona Street Reconstruction	E-2020-003			225,400			225,400
2021 Mayflower Hill Reclamation	E-2021-002				115,175		115,175
2021 Water Street South Reconstruction	E-2021-003				37,800		37,800
2022 Odd Fellow Area Reconstruction	E-2022-002					39,000	39,000
Downtown Parking Lots Rehabilitation	ST-2018-LOTS	40,517					40,517
Hidden Valley Stormwater Pond Cleanout	SW-2016-002					60,000	60,000
<b>Stormwater Fund Total</b>		<b>236,734</b>	<b>224,098</b>	<b>262,115</b>	<b>152,975</b>	<b>99,000</b>	<b>974,922</b>

Source	Project #	2018	2019	2020	2021	2022	Total
<b>Waste Water Fund</b>							
2018 Washington Street Mill and Overlay	E-2018-002	6,271					6,271
2018 Division & Seventh Street Reconstruction	E-2018-003	264,936					264,936
2018 Spring Creek Road Reconstruction Project	E-2018-005	49,600					49,600
2019 NW Area Reclamation	E-2019-001		95,975				95,975
2019 Wall Street Road Reconstruction	E-2019-004		115,200				115,200
2020 NE Area Mill and Overlay	E-2020-002			36,250			36,250
2020 College & Winona Street Reconstruction	E-2020-003			423,588			423,588
2021 Mayflower Hill Reclamation	E-2021-002				108,575		108,575
2021 Water Street South Reconstruction	E-2021-003				251,600		251,600
2022 Odd Fellow Area Reconstruction	E-2022-002					105,000	105,000
In-line Phosphorous Analyzer	WW-2018-007	70,000					70,000
MAU-9 Replacement	WW-2018-008	16,000					16,000
BAF Gate Replacement	WW-2019-002		824,310				824,310
MAU-3 Pretreatment Roof Replacement	WW-2019-003		18,480				18,480
MAU-2 Pretreatment Roof Replacement	WW-2020-003			30,500			30,500
Biosolids Liquid Storage	WW-2021-002				1,193,844		1,193,844
BioSolids Cake Storage	WW-2021-003				711,563		711,563
BioSolids Treatment Process	WW-2021-004				3,478,750		3,478,750
BioSolids Roof Replacement	WW-2021-005				115,000		115,000
MAU-5 Replacement	WW-2021-006				18,184		18,184
UV Disinfection Roof Replacement	WW-2021-007				34,500		34,500
Shop Radiant Heaters	WW-2021-008				20,000		20,000
Operations Building Roof Replacement	WW-2021-009				106,000		106,000
BAF Roof Replacement	WW-2022-001					324,500	324,500
MAU-6 Replacement	WW-2022-002					22,715	22,715
Pretreatment Roof Replacement	WW-2022-003					359,900	359,900
SCADA Upgrade	WW-2022-004					1,622,500	1,622,500
<b>Waste Water Fund Total</b>		<b>406,807</b>	<b>1,053,965</b>	<b>490,338</b>	<b>6,038,016</b>	<b>2,434,615</b>	<b>10,423,741</b>
<b>Water Fund</b>							
2018 Washington Street Mill and Overlay	E-2018-002	7,662					7,662
2018 Division & Seventh Street Reconstruction	E-2018-003	279,359					279,359
2018 Spring Creek Road Reconstruction Project	E-2018-005	274,000					274,000
2019 NW Area Reclamation	E-2019-001		48,074				48,074
2019 Wall Street Road Reconstruction	E-2019-004		155,700				155,700
2020 NE Area Mill and Overlay	E-2020-002			36,250			36,250
2020 College & Winona Street Reconstruction	E-2020-003			571,202			571,202
2021 Mayflower Hill Reclamation	E-2021-002				53,394		53,394
2021 Water Street South Reconstruction	E-2021-003				338,550		338,550
2022 Odd Fellow Area Reconstruction	E-2022-002					141,750	141,750
Well No. 5 Maintenance	W-2019-001		30,000				30,000
St. Olaf Ground Storage Tank Maintenance	W-2019-002		500,000				500,000
Hall Ave. Elevated Water Tank Maintenance	W-2019-003		250,000				250,000
Land Acquisition for Water Tank in NW Area	W-2020-002		250,000				250,000
Well No. 02 Maintenance	W-2020-003			30,000			30,000
Well No. 6 Generator	W-2020-004			120,000			120,000
Well No. 3 MCC Replacement	W-2022-002					200,000	200,000
<b>Water Fund Total</b>		<b>561,021</b>	<b>1,233,774</b>	<b>757,452</b>	<b>391,944</b>	<b>341,750</b>	<b>3,285,941</b>
<b>GRAND TOTAL</b>		<b>12,062,496</b>	<b>7,104,058</b>	<b>3,918,787</b>	<b>8,751,502</b>	<b>6,197,747</b>	<b>38,034,590</b>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** City Facilities  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>F-2017-LED</b>
<b>Project Name</b>	<b>LED Street Department Lighting</b>

<b>Description</b>	<b>Total Project Cost: \$18,000</b>
Retrofit and Replacement of all light fixtures including exterior and Parking lot lights to LED at the Street Department.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	18,000					18,000
<b>Total</b>	<b>18,000</b>					<b>18,000</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
City Facilities Fund	18,000					18,000
<b>Total</b>	<b>18,000</b>					<b>18,000</b>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2018-002</b>
<b>Project Name</b>	<b>2018 Washington Street Mill and Overlay</b>

<b>Description</b>	<b>Total Project Cost: \$814,600</b>
1-1/2" Pavement Mill and Overlay on Washington Street from Woodley Street to Third Street.	

<b>Justification</b>
This section of road has been identified by Public Works personnel as a likely candidate for a 1-1/2" mill and overlay based on the current pavement condition and the current condition of the existing utilities.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	814,600					814,600
<b>Total</b>	<b>814,600</b>					<b>814,600</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments	172,428					172,428
MSA	611,124					611,124
Stormwater Fund	17,115					17,115
Waste Water Fund	6,271					6,271
Water Fund	7,662					7,662
<b>Total</b>	<b>814,600</b>					<b>814,600</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 40 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2018-003</b>
<b>Project Name</b>	<b>2018 Division &amp; Seventh Street Reconstruction</b>

<b>Description</b>	<b>Total Project Cost: \$2,993,720</b>
Complete infrastructure replacement with enhanced streetscape elements to match the existing projects that have been completed in the downtown area. The project area includes Division Street from Sixth Street to Eighth Street, and Seventh Street from Water Street to Washington Street.	

<b>Justification</b>
This project area has been identified Public Works personnel as a likely candidate based on the current pavement condition, and the current condition of the existing utilities.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	2,993,720					2,993,720
<b>Total</b>	<b>2,993,720</b>					<b>2,993,720</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments	235,709					235,709
Bonded Dollars	654,515					654,515
MSA	1,380,099					1,380,099
Stormwater Fund	179,102					179,102
Waste Water Fund	264,936					264,936
Water Fund	279,359					279,359
<b>Total</b>	<b>2,993,720</b>					<b>2,993,720</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2018-004</b>
<b>Project Name</b>	<b>2018 Seal Coat/Crack Fill Project</b>

<b>Description</b>	<b>Total Project Cost: \$137,006</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	137,006					137,006
<b>Total</b>	<b>137,006</b>					<b>137,006</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA	137,006					137,006
<b>Total</b>	<b>137,006</b>					<b>137,006</b>





**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Road  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2018-005</b>
<b>Project Name</b>	<b>2018 Spring Creek Road Reconstruction Project</b>

<b>Description</b>	<b>Total Project Cost: \$1,181,168</b>
Conversion of the existing 24' Rural road section to a 40' Urban road section with possible sidewalk and trail installations.	

<b>Justification</b>
Bring Spring Creek Road up to a paved 40' wide rural section along the recently developed Hills of Spring Creek area.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	1,181,168					1,181,168
<b>Total</b>	<b>1,181,168</b>					<b>1,181,168</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA	752,845					752,845
Other	104,723					104,723
Waste Water Fund	49,600					49,600
Water Fund	274,000					274,000
<b>Total</b>	<b>1,181,168</b>					<b>1,181,168</b>



2018 Reconstruction Project  
 Spring Creek Road  
 Northfield Engineering Solutions

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2019-001</b>
<b>Project Name</b>	<b>2019 NW Area Reclamation</b>

<b>Description</b>	<b>Total Project Cost: \$1,487,739</b>
Full Depth Pavement Reclamation on Third Street from TH 3 to Forest Avenue, Fourth Street from Poplar Street to Odd Fellows Lane, Orchard Street from Fifth Street to Third Street, Plum Street from Third Street to Fourth Street, Poplar Street from Third Street to Fourth Street, Ivanhoe Drive from Highland Avenue to Lincoln Parkway, Zanmiller Drive from Eklund Court to Gill Lane, Wilson Court, Simone Court, Nelson Court, Grundhoefer Court, Eklund Court, and Covey Court.	

<b>Justification</b>
These road segments have been identified by Public Works personnel to be likely candidates for a full depth pavement reclamation based on the current pavement condition, coupled with the current condition of the existing utilities.

Expenditures	2018	2019	2020	2021	2022	Total
Construction/Maintenance		1,487,739				1,487,739
<b>Total</b>		<b>1,487,739</b>				<b>1,487,739</b>

Funding Sources	2018	2019	2020	2021	2022	Total
Assessments		606,195				606,195
Bonded Dollars		233,366				233,366
MSA		402,270				402,270
Stormwater Fund		101,859				101,859
Waste Water Fund		95,975				95,975
Water Fund		48,074				48,074
<b>Total</b>		<b>1,487,739</b>				<b>1,487,739</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

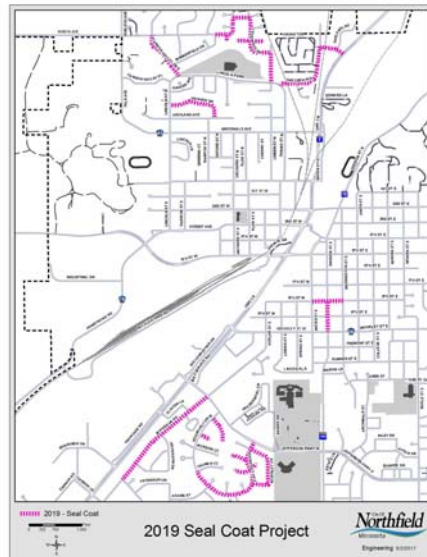
<b>Project #</b>	<b>E-2019-002</b>
<b>Project Name</b>	<b>2019 Seal Coat/Crack Fill Project</b>

<b>Description</b>	<b>Total Project Cost: \$131,072</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		131,072				131,072
<b>Total</b>		131,072				131,072

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA		131,072				131,072
<b>Total</b>		131,072				131,072



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 75 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2019-003</b>
<b>Project Name</b>	<b>2019 TH 246 &amp; Jefferson Parkway</b>

<b>Description</b>	<b>Total Project Cost: \$2,854,057</b>
TH 246 and Jefferson Parkway Intersection Improvements	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		2,854,057				2,854,057
<b>Total</b>		<b>2,854,057</b>				<b>2,854,057</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA		1,427,028				1,427,028
Other		1,304,790				1,304,790
Stormwater Fund		122,239				122,239
<b>Total</b>		<b>2,854,057</b>				<b>2,854,057</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 75 years  
**Category** Capital Improvement Plan (CI)

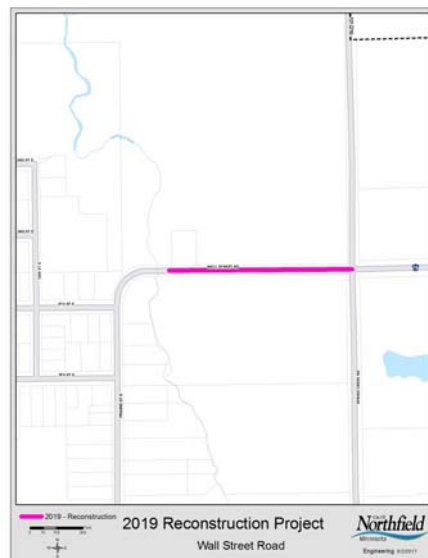
<b>Project #</b>	<b>E-2019-004</b>
<b>Project Name</b>	<b>2019 Wall Street Road Reconstruction</b>

<b>Description</b>	<b>Total Project Cost: \$598,400</b>
Reconstruction of Wall Street Road from Prairie Street to Spring Creek Road, including pedestrian upgrades in cooperation with Rice County.	

<b>Justification</b>
Wall Street Road (CR7 79) is on Rice County's 2019 CIP for Reconstruction

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		598,400				598,400
<b>Total</b>		598,400				598,400

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Bonded Dollars		147,375				147,375
Rice County		180,125				180,125
Waste Water Fund		115,200				115,200
Water Fund		155,700				155,700
<b>Total</b>		598,400				598,400



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2020-002</b>
<b>Project Name</b>	<b>2020 NE Area Mill and Overlay</b>

<b>Description</b>	<b>Total Project Cost: \$745,576</b>
1-1/2" Pavement Mill and Overlay on First Street from Union Street to Maple Street, Second Street from College Street to Oak Street, Third Street from Washington Street to Oak Street, Fourth Street from Nevada Street to Prairie Street, College Street from First Street to Third Street, Winona Street from First Street to Fourth Street, Nevada Street from First Street to Fourth Street, Maple Street from Second Street to Fourth Street, Elm Street from Second Street to Fifth Street, and Oak Street from Second Street to Fourth Street.	

<b>Justification</b>
These road segments have been identified by Public Works personnel as a likely candidate for a 1-1/2" mill and overlay based on the current pavement condition and the current condition of the existing utilities.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			745,576			745,576
<b>Total</b>			<b>745,576</b>			<b>745,576</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments			350,250			350,250
Bonded Dollars			190,833			190,833
MSA			95,278			95,278
Stormwater Fund			36,715			36,715
Waste Water Fund			36,250			36,250
Water Fund			36,250			36,250
<b>Total</b>			<b>745,576</b>			<b>745,576</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 40 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2020-003</b>
<b>Project Name</b>	<b>2020 College &amp; Winona Street Reconstruction</b>

<b>Description</b>	<b>Total Project Cost: \$2,863,942</b>
Complete infrastructure replacement on College Street from Seventh Street to Woodley Street, Winona Street from Seventh Street to Woodley Street, Eighth Street from College Street to Winona Street, and Ninth Street from College Street to Woodley Street.	

<b>Justification</b>
This project area has been identified Public Works personnel as a likely candidate for a complete reconstruction based on the current pavement condition, and the current condition of the existing utilities.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			2,863,942			2,863,942
<b>Total</b>			<b>2,863,942</b>			<b>2,863,942</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments			286,090			286,090
Bonded Dollars			1,357,662			1,357,662
Stormwater Fund			225,400			225,400
Waste Water Fund			423,588			423,588
Water Fund			571,202			571,202
<b>Total</b>			<b>2,863,942</b>			<b>2,863,942</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

**Project #** E-2020-004  
**Project Name** 2020 Seal Coat/Crack Fill Project

**Description** **Total Project Cost: \$128,769**

**Justification**

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			128,769			128,769
<b>Total</b>			<b>128,769</b>			<b>128,769</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA			128,769			128,769
<b>Total</b>			<b>128,769</b>			<b>128,769</b>





**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Road  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

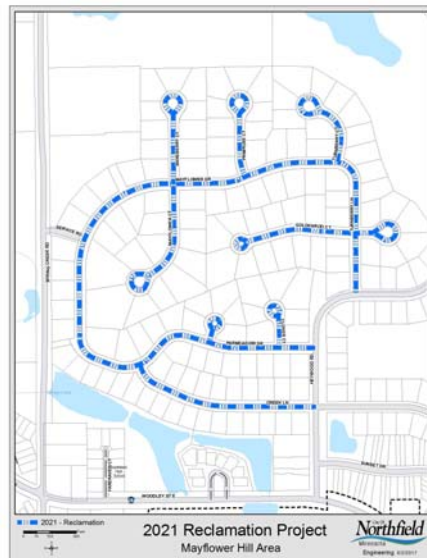
<b>Project #</b>	<b>E-2021-002</b>
<b>Project Name</b>	<b>2021 Mayflower Hill Reclamation</b>

<b>Description</b>	<b>Total Project Cost: \$1,543,488</b>
Mayflower Hill Area Reclamation pavement rehabilitation	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				1,543,488		1,543,488
<b>Total</b>				<b>1,543,488</b>		<b>1,543,488</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments				756,990		756,990
Bonded Dollars				509,354		509,354
Stormwater Fund				115,175		115,175
Waste Water Fund				108,575		108,575
Water Fund				53,394		53,394
<b>Total</b>				<b>1,543,488</b>		<b>1,543,488</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Road  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

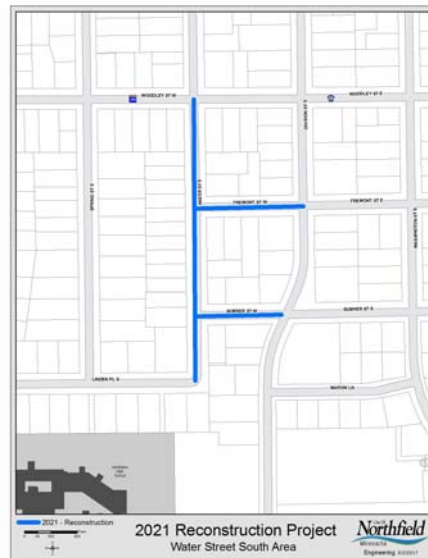
<b>Project #</b>	<b>E-2021-003</b>
<b>Project Name</b>	<b>2021 Water Street South Reconstruction</b>

<b>Description</b>	<b>Total Project Cost: \$1,450,583</b>
Water Street South Reconstruction - complete street reconstruction due to aging infrastructure.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				1,450,583		1,450,583
<b>Total</b>				<b>1,450,583</b>		<b>1,450,583</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments				119,420		119,420
Bonded Dollars				703,213		703,213
Stormwater Fund				37,800		37,800
Waste Water Fund				251,600		251,600
Water Fund				338,550		338,550
<b>Total</b>				<b>1,450,583</b>		<b>1,450,583</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

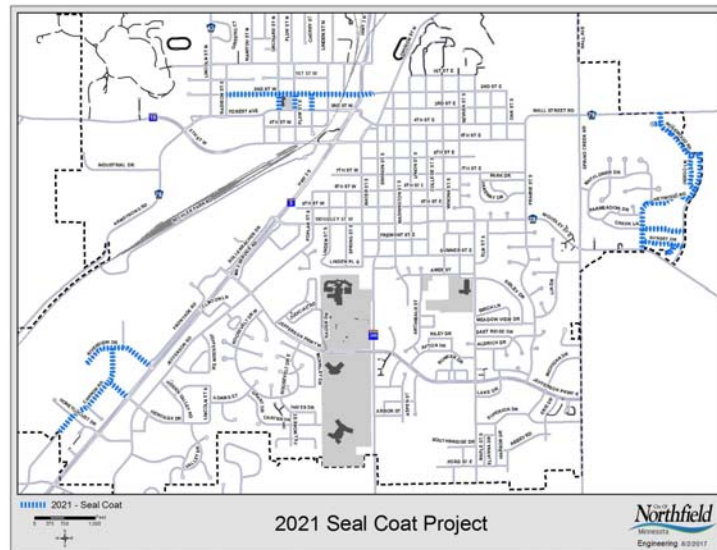
<b>Project #</b>	<b>E-2021-004</b>
<b>Project Name</b>	<b>2021 Seal Coat/Crack Fill Project</b>

<b>Description</b>	<b>Total Project Cost: \$79,590</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				79,590		79,590
<b>Total</b>				<b>79,590</b>		<b>79,590</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA				79,590		79,590
<b>Total</b>				<b>79,590</b>		<b>79,590</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** New Infrastructure  
**Useful Life** 75 years  
**Category** Capital Improvement Plan (CI)

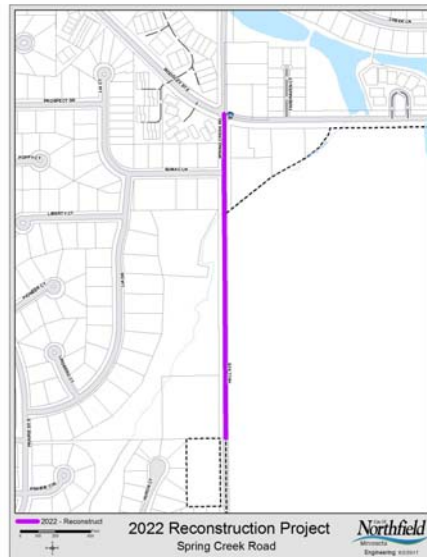
**Project #** E-2022-001  
**Project Name** 2022 Spring Creek Road Bridge L2765 Replacement

**Description** **Total Project Cost: \$700,000**  
 Replacement of the Bridge L2765 on Spring Creek Road south of Sumac Lane

**Justification**

Expenditures	2018	2019	2020	2021	2022	Total
Construction/Maintenance					700,000	700,000
<b>Total</b>					700,000	700,000

Funding Sources	2018	2019	2020	2021	2022	Total
MSA					350,000	350,000
Other					350,000	350,000
<b>Total</b>					700,000	700,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Unassigned  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

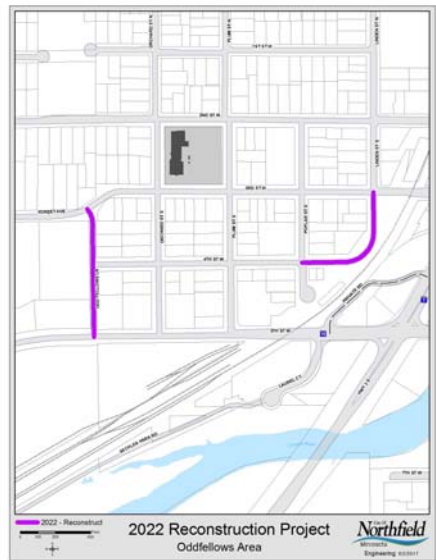
<b>Project #</b>	<b>E-2022-002</b>
<b>Project Name</b>	<b>2022 Odd Fellow Area Reconstruction</b>

<b>Description</b>	<b>Total Project Cost: \$976,917</b>
Reconstruction of Linden Street - Thirrd Street to Poplar Street, and Odd Fellows Lane - Third St to Fifth St	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					976,917	976,917
<b>Total</b>					<u>976,917</u>	<u>976,917</u>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Assessments					170,456	170,456
Bonded Dollars					520,711	520,711
Stormwater Fund					39,000	39,000
Waste Water Fund					105,000	105,000
Water Fund					141,750	141,750
<b>Total</b>					<u>976,917</u>	<u>976,917</u>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>E-2022-003</b>
<b>Project Name</b>	<b>2022 Seal Coat/Crack Fill Project</b>

<b>Description</b>	<b>Total Project Cost: \$11,215</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					11,215	11,215
<b>Total</b>					11,215	11,215

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA					11,215	11,215
<b>Total</b>					11,215	11,215



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Engineering Division  
**Contact** Public Works Director  
**Type** Unassigned  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

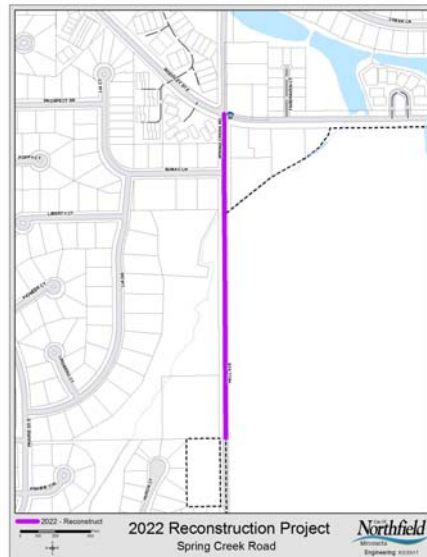
<b>Project #</b>	<b>E-2022-004</b>
<b>Project Name</b>	<b>Spring Creek Road Reconstruction Phase II</b>

<b>Description</b>	<b>Total Project Cost: \$1,800,000</b>
Conversion of the existing 24' Rural road section to a 40' Urban road section with possible sidewalk and trail installations from Huron Court to Woodley Street.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					1,800,000	1,800,000
<b>Total</b>					1,800,000	1,800,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
MSA					1,800,000	1,800,000
<b>Total</b>					1,800,000	1,800,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Liquor Store  
**Contact**  
**Type** Facility  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>LIQ-2016-001</b>
<b>Project Name</b>	<b>Liquor Store Relocation</b>

<b>Description</b>	<b>Total Project Cost: \$2,500,000</b>
<p>Identified through previous council goal setting and project identification is the construction of a new liquor store. The current facility is dated, in need of substantial maintenance and amenity upgrades to meet industry standards and community expectations as well as to remain financially competitive.</p>	

<b>Justification</b>
<p>The 2015 budget includes funding for financial projections and feasibility analysis (\$14,000). These matters will be brought forward in late summer of 2015 which would justify the construction and location for a new facility. A new facility would be funded through liquor revenue notes with a market study that would support this debt service without negative impacts to the general fund nor levy.</p>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	2,500,000					2,500,000
<b>Total</b>	<b>2,500,000</b>					<b>2,500,000</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Liquor	500,000					500,000
Revenue Bond	2,000,000					2,000,000
<b>Total</b>	<b>2,500,000</b>					<b>2,500,000</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Northfield Area Fire & Rescu  
**Contact** City Administrator  
**Type** Facility  
**Useful Life** 40 years  
**Category** Capital Improvement Plan (CI

<b>Project #</b>	<b>F-2017-001</b>
<b>Project Name</b>	<b>Fire Facility</b>

<b>Description</b>	<b>Total Project Cost: \$3,953,000</b>
<p>Fire Facility Expansion and Renovation</p> <p>Northfield pays approximately 71% of cost for the fire service from the Northfield Area Fire and Rescue Service JPA. The City will bond for the entire project and will collected the capital costs of the improvement through the lease payment from the other parties to the JPA. The JPA allocation for the each party maybe adjusted in the future based on the formula agreed to by the parties.</p>	

<b>Justification</b>
<p>The current facility the fire department is operating out of is out of date, with structural and environmental problems. The site of the fire station is also in a flood area, and the building is typically flooded each year.</p>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	3,953,000					3,953,000
<b>Total</b>	<b>3,953,000</b>					<b>3,953,000</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Bonded Dollars	3,953,000					3,953,000
<b>Total</b>	<b>3,953,000</b>					<b>3,953,000</b>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Park Division

**Contact**

**Type** Equipment

**Useful Life**

**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>P-2022-001</b>
<b>Project Name</b>	<b>Riverside Park Playground Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$120,000</b>
Riverside park has the oldest playgournd equipment in the City. The equipment was installed in 1996.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					120,000	120,000
<b>Total</b>					120,000	120,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Grant					60,000	60,000
Park Fund					60,000	60,000
<b>Total</b>					120,000	120,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Stormwater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>SW-2016-002</b>
<b>Project Name</b>	<b>Hidden Valley Stormwater Pond Cleanout</b>

<b>Description</b>	<b>Total Project Cost: \$610,000</b>
This project will address maintenance needs at the stormwater pond in Hidden Valley.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Planning/Design					60,000	60,000
<b>Total</b>					60,000	60,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Stormwater Fund					60,000	60,000
<b>Total</b>					60,000	60,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Street Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>ST-2018-LOTS</b>
<b>Project Name</b>	<b>Downtown Parking Lots Rehabilitation</b>

<b>Description</b>	<b>Total Project Cost: \$379,002</b>
Downtown Parking Lots Rehabilitation -Grand Parking Lot Reclamation -Washington Street and Fifth Street lot mill and overlay -Third Street lot mill and overlay	

<b>Justification</b>
Pavement needs reclaimed, if not done continued deterioration of the pavement section, which will cause more costly repairs in the near future.

Expenditures	2018	2019	2020	2021	2022	Total
Construction/Maintenance	379,002					379,002
<b>Total</b>	<b>379,002</b>					<b>379,002</b>

Funding Sources	2018	2019	2020	2021	2022	Total
Bonded Dollars	338,485					338,485
Stormwater Fund	40,517					40,517
<b>Total</b>	<b>379,002</b>					<b>379,002</b>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Street Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>ST-2019-ROOF</b>
<b>Project Name</b>	<b>Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$160,000</b>
Roof Replacement at Maintenance Facility	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		160,000				160,000
<b>Total</b>		160,000				160,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
City Facilities Fund		160,000				160,000
<b>Total</b>		160,000				160,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2018-007</b>
<b>Project Name</b>	<b>In-line Phosphorous Analyzer</b>

<b>Description</b>	<b>Total Project Cost: \$70,000</b>
An in-line phosphorous analyzer allows wwtp staff to have continuous monitoring of phosphorous at the wwtp. Chemical pumps then can dose chemicals based upon phosphorous concentrations.	

<b>Justification</b>
The in-line phosphorous analyzer is needed to continually monitor the plants phosphorous concentration. The need for this is based upon proposed phosphorous loading allocations given by the Minnesota Pollution Control Agency to the wwtp permit.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	70,000					70,000
<b>Total</b>	<b>70,000</b>					<b>70,000</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund	70,000					70,000
<b>Total</b>	<b>70,000</b>					<b>70,000</b>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2018-008</b>
<b>Project Name</b>	<b>MAU-9 Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$16,000</b>
Replacement of MAU-9.	

<b>Justification</b>
The MAU-9 replacement upgrade was identified in the 2015 WWTP Facility Study. Staff is adjusting MAU-9 replacement to 2018 instead of 2025 as it is having failures. Staff then is adjusting MAU-2 to 2020 and MAU 4 to 2025.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance	16,000					16,000
<b>Total</b>	<b>16,000</b>					<b>16,000</b>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund	16,000					16,000
<b>Total</b>	<b>16,000</b>					<b>16,000</b>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2019-002</b>
<b>Project Name</b>	<b>BAF Gate Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$824,310</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		824,310				824,310
<b>Total</b>		824,310				824,310

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund		824,310				824,310
<b>Total</b>		824,310				824,310



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2019-003</b>
<b>Project Name</b>	<b>MAU-3 Pretreatment Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$18,480</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		18,480				18,480
<b>Total</b>		18,480				18,480

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund		18,480				18,480
<b>Total</b>		18,480				18,480

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 10 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2020-003</b>
<b>Project Name</b>	<b>MAU-2 Pretreatment Roof Replacment</b>

<b>Description</b>	<b>Total Project Cost: \$30,500</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			30,500			30,500
<b>Total</b>			30,500			30,500

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund			30,500			30,500
<b>Total</b>			30,500			30,500

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 25 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-002</b>
<b>Project Name</b>	<b>Biosolids Liquid Storage</b>

<b>Description</b>	<b>Total Project Cost: \$1,193,844</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				1,193,844		1,193,844
<b>Total</b>				<u>1,193,844</u>		<u>1,193,844</u>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				1,193,844		1,193,844
<b>Total</b>				<u>1,193,844</u>		<u>1,193,844</u>



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-003</b>
<b>Project Name</b>	<b>BioSolids Cake Storage</b>

<b>Description</b>	<b>Total Project Cost: \$711,563</b>
BioSolids cake storage. This is the final product created by the biosolids process. The current storage building is inadequate in storage capacity and the building is in poor condition.	

<b>Justification</b>
The biosolids cake storage upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				711,563		711,563
<b>Total</b>				711,563		711,563

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				711,563		711,563
<b>Total</b>				711,563		711,563

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Improvement  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-004</b>
<b>Project Name</b>	<b>BioSolids Treatment Process</b>

<b>Description</b>	<b>Total Project Cost: \$3,478,750</b>
A new BioSolids treatment process for creation of a class A, exceptional quality, BioSolids product.	

<b>Justification</b>
The biosolids treatment upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				3,478,750		3,478,750
<b>Total</b>				<u>3,478,750</u>		<u>3,478,750</u>

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				3,478,750		3,478,750
<b>Total</b>				<u>3,478,750</u>		<u>3,478,750</u>

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Facility  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-005</b>
<b>Project Name</b>	<b>BioSolids Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$115,000</b>
Replacement of the BioSolids treatment building roof.	

<b>Justification</b>
The biosolids roof replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				115,000		115,000
<b>Total</b>				115,000		115,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				115,000		115,000
<b>Total</b>				115,000		115,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Equipment  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-006</b>
<b>Project Name</b>	<b>MAU-5 Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$18,184</b>
Replacement of MAU-5.	

<b>Justification</b>
The MAU-5 replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				18,184		18,184
<b>Total</b>				18,184		18,184

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				18,184		18,184
<b>Total</b>				18,184		18,184

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Facility  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-007</b>
<b>Project Name</b>	<b>UV Disinfection Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$34,500</b>
Replacement of the UV disinfection roof.	

<b>Justification</b>
The UV disinfection roof replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				34,500		34,500
<b>Total</b>				34,500		34,500

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				34,500		34,500
<b>Total</b>				34,500		34,500



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 15 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-008</b>
<b>Project Name</b>	<b>Shop Radiant Heaters</b>

<b>Description</b>	<b>Total Project Cost: \$20,000</b>
Replace the existing shop radiant heaters.	

<b>Justification</b>
Replace the existing shop radiant heaters that are aging.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				20,000		20,000
<b>Total</b>				20,000		20,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				20,000		20,000
<b>Total</b>				20,000		20,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 25 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2021-009</b>
<b>Project Name</b>	<b>Operations Building Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$106,000</b>

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance				106,000		106,000
<b>Total</b>				106,000		106,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund				106,000		106,000
<b>Total</b>				106,000		106,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Facility  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2022-001</b>
<b>Project Name</b>	<b>BAF Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$324,500</b>
Replacement of the BAF Roof.	

<b>Justification</b>
The BAF roof replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					324,500	324,500
<b>Total</b>					324,500	324,500

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund					324,500	324,500
<b>Total</b>					324,500	324,500

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Equipment  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2022-002</b>
<b>Project Name</b>	<b>MAU-6 Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$22,715</b>
Replacement of MAU-6.	

<b>Justification</b>
The MAU-6 replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					22,715	22,715
<b>Total</b>					22,715	22,715

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund					22,715	22,715
<b>Total</b>					22,715	22,715

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Facility  
**Useful Life** 20 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2022-003</b>
<b>Project Name</b>	<b>Pretreatment Roof Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$359,900</b>
Replacement of the Pretreatment Building Roof.	

<b>Justification</b>
The BAF roof replacement upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					359,900	359,900
<b>Total</b>					359,900	359,900

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund					359,900	359,900
<b>Total</b>					359,900	359,900

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Wastewater Division  
**Contact** Public Works Director  
**Type** Equipment  
**Useful Life** 15 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>WW-2022-004</b>
<b>Project Name</b>	<b>SCADA Upgrade</b>

<b>Description</b>	<b>Total Project Cost: \$1,622,500</b>
Replacement of major Supervisory and Control Data Acquisition (SCADA) components at the wastewater treatment plant.	

<b>Justification</b>
SCADA upgrade was identified in the 2015 WWTP Facility Study.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					1,622,500	1,622,500
<b>Total</b>					1,622,500	1,622,500

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Waste Water Fund					1,622,500	1,622,500
<b>Total</b>					1,622,500	1,622,500

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 8 Years  
**Category** Capital Improvement Plan (CI)

**Project #** W-2019-001  
**Project Name** Well No. 5 Maintenance

**Description** **Total Project Cost:** \$30,000  
 Pulling Well No. 05 and replacing the column pipe. This is a standard maintenance practice conducted on wells.

**Justification**  
 Standard well maintenance, completed every 8 years.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		30,000				30,000
<b>Total</b>		30,000				30,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund		30,000				30,000
<b>Total</b>		30,000				30,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>W-2019-002</b>
<b>Project Name</b>	<b>St. Olaf Ground Storage Tank Maintenance</b>

<b>Description</b>	<b>Total Project Cost: \$500,000</b>
Spot paint the St. Olaf ground storage tanks.	

<b>Justification</b>
Spot painting the tanks extend the useful life of the paint.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		500,000				500,000
<b>Total</b>		500,000				500,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund		500,000				500,000
<b>Total</b>		500,000				500,000





**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Unassigned  
**Useful Life**  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>W-2019-003</b>
<b>Project Name</b>	<b>Hall Ave. Elevated Water Tank Maintenance</b>

<b>Description</b>	<b>Total Project Cost: \$250,000</b>
Spot paint the Hall Ave. Elevated Water Tank.	

<b>Justification</b>

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance		250,000				250,000
<b>Total</b>		250,000				250,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund		250,000				250,000
<b>Total</b>		250,000				250,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Land  
**Useful Life** 40 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>W-2020-002</b>
<b>Project Name</b>	<b>Land Acquisition for Water Tank in NW Area</b>

<b>Description</b>	<b>Total Project Cost: \$250,000</b>
Acquire land in northwest annexation area for future water tank. The tower site would need to be roughly 5 acres in size.	

<b>Justification</b>
Service enterprise park in the in NW annexation area.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Land Acquisition		250,000				250,000
<b>Total</b>		250,000				250,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund		250,000				250,000
<b>Total</b>		250,000				250,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 8 Years  
**Category** Capital Improvement Plan (CI)

**Project #** W-2020-003  
**Project Name** Well No. 02 Maintenance

**Description** **Total Project Cost:** \$30,000  
 Pulling Well No. 02 and replacing the column pipe. This is a standard maintenance practice conducted on wells.

**Justification**  
 Standard well maintenance, completed every 8 years.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			30,000			30,000
<b>Total</b>			30,000			30,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund			30,000			30,000
<b>Total</b>			30,000			30,000



**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Maintenance  
**Useful Life** 25 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>W-2020-004</b>
<b>Project Name</b>	<b>Well No. 6 Generator</b>

<b>Description</b>	<b>Total Project Cost: \$120,000</b>
Well No. 6 Generator.	

<b>Justification</b>
As part of the 2015 Well No. 6 project a generator pad along with a transfer switch were installed for a future generator. This is the generator to be installed from that project.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance			120,000			120,000
<b>Total</b>			120,000			120,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund			120,000			120,000
<b>Total</b>			120,000			120,000

**Capital Improvement Plan**  
**City of Northfield, Minnesota**

2018 *thru* 2022

**Department** Water Division  
**Contact** Public Works Director  
**Type** Equipment  
**Useful Life** 25 years  
**Category** Capital Improvement Plan (CI)

<b>Project #</b>	<b>W-2022-002</b>
<b>Project Name</b>	<b>Well No. 3 MCC Replacement</b>

<b>Description</b>	<b>Total Project Cost: \$200,000</b>
Replacement of well no. 3 motor control center (MCC) and SCADA components.	

<b>Justification</b>
The Well No. 3 MCC is an original piece of equipment from 1970. The equipment replaced will be all of the SCADA equipment, the electrical system and the control will be updated.

<b>Expenditures</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Construction/Maintenance					200,000	200,000
<b>Total</b>					200,000	200,000

<b>Funding Sources</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
Water Fund					200,000	200,000
<b>Total</b>					200,000	200,000