

# 2019 – 2023 Capital Improvement Program

October 16, 2018
Planning Commission Presentation



### Sec. 2-89. - General powers and duties of the planning commission.

(a) Recommendations and advisements on planning subjects.

It shall be the duty of the planning commission, after considering the advice of the planning director, to:

advise the city council on zoning and land subdivision matters as provided in the respective ordinances; on
the comprehensive development plan; on the official map of the city; on proposed ordinances concerning
land use and land development regulations; on urban renewal; on expenditures for capital improvements,
where such improvements refer to a matter covered by the comprehensive plan or the official map and on
such other planning subjects as are referred to it by the city council or the city manager.

All such recommendations and advisements by the planning commission shall be submitted to the council within a time specified by the council and prior to the public hearing by the council on the proposed ordinance, where applicable.



#### Goals of the CIP

Projects will seek to advance Newark's vision elements

- Healthy & Active Community
- Sustainable Community
- Inclusive Community

Maintain and enhance the City's physical framework

- Streets and Sidewalks
- Parks and Parking Facilities
- Municipal & Police Facilities
- Utility infrastructure

Support the provision of services to the City's residents

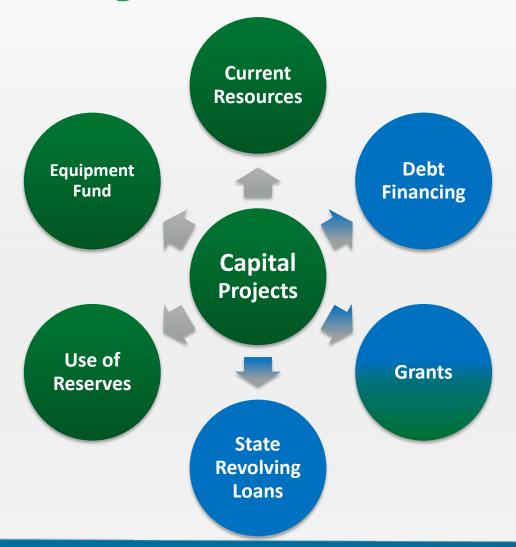
• Maintain the City's core services and functions

Ensure the financial strength of the City via prudent investments and decision making

- Conservative use of Capital Reserves
- Revenue requirements must be met
- Cost recovery must be fair and equitable



# **CIP Funding is now more Diversified**





# **Electric Key Accomplishments - 2018**

- ► Electric transformer, circuit breaker & conductor upgrade (Underway) The installation of a new 10MVA substation transformer at the South Chapel Substation. This new transformer will back-up transformer 13 at South Chapel Substation, unit 74 at Chestnut Hill Road Substation and unit 82 at Wyoming Road Substation.
- ► Spacer cable replacement (Completed) The 336 ACSR aerial conductors were installed from Apple Road to Forest Lane.
- ➤ SCADA and 12.47kv fault detection and automatic switching system (Underway) (Underway) The 12.47kV auto transfer system installation. This project will increase reliability and decrease the length of outages when they occur by isolating the faulted section of the circuit and transferring customers to an unfaulted circuit if certain system criteria are met.



# Parks & Recreation Key Accomplishments - 2018

- ► Hard Surface Facility Improvements Included in the streets contract. Work completed included Phillips Park parking lot expansion & overlay, Phillips Park basketball court, Leroy Hill Park parking lot and George Wilson Center parking lot overlay.
- ▶ **Preston's Playground -** Grant funding received from Outdoor Recreation, Parks and Trail (ORPT) fund. Used toward the construction of Preston's Playground.
- ▶ Bicycle/Pedestrian Bridge No funding was committed in 2018. Plans, specifications, engineering and design continue. Bids for construction of the project will be sent out in late 2019.
- ▶ Vehicle Replacement Program Two vehicles received.
- ▶ Pomeroy Trail Connector Included in the streets contract for 2018. Work is currently scheduled to begin in spring of 2019.



# **PWWR Key Accomplishments - 2018**

- ▶ **Referendum** Contributed to the successful passage of the referendum, providing a funding source for many important PWWR Projects.
- ➤ Successfully implemented the Stormwater Utility New Utility Fund to provide dedicated funding for Stormwater related projects.
- ▶ **Stormwater Utility** Began the planned Capital Improvements and continued to lead the state on our NPDES Permit Compliance. Contracts bid and awarded for CMP Pipe Lining and replacement of several hundred feet of pipe. Installed a water quality enhancing aeration system in an existing stormwater pond.
- ▶ GIS Development Continued GIS database development and maintenance of the water, sanitary sewer and storm sewer systems which will be used for advanced asset management, maintenance recordkeeping, and stormwater conveyance/treatment retrofit optimization. Created workflows for Catch Basin repair, fire hydrant maintenance, and other maintenance items using tablets in the field and uploaded to database in real time, putting this information at our fingertips.
- ▶ Intern Program Five University of Delaware Students spent the summer working with our Environmental Coordinator, Field Operations Superintendent, Water Operations Superintendent and our Engineering Technician on environmental compliance, sewer manhole inspections, street sign inventories, refuse cart inventories, and database updates.
- **▶** Updated the Water and Sewer Standards and Specifications



# **PWWR Key Accomplishments – 2018 Cont'd**

- ▶ 2018 Annual Street Contract (Underway) Full reconstruction of curbs and sidewalk on Center Street.
- ▶ 2018 ADA Curb Ramp Contract Prepared Specifications and Received Bids. Awaiting Council Approval.
- ▶ Salt Brine Equipment Implementation Crews utilized several new salt brine application equipment with success. We are currently evaluating the operation for increased usage.
- ▶ Vehicle and Equipment Replacement Rubber Tire Loader
- ▶ Curtis Water Treatment Plant Upgrades Completed the specifications, bids and contract award for major upgrades at our Curtis Water Treatment Plant. The conversion from Chlorine Gas to Sodium hypochlorite is complete and the roof and siding work is expected to be complete by the end of 2018. Expected completion in Feb. 2019.
- ▶ Water and Sewer SCADA Automated controls at Arbour Park Tank, the last remaining storage tank to be outfitted with SCADA, Curtis and South Well Water Treatment Plants. All Sanitary Sewer pump stations and siphons now have updated control and monitoring telemetry.
- ➤ Sewer Main Lining Installed a liner in approximately 2000 linear feet of sanitary sewer main to reduce inflow and infiltration, resulting in increased capacity and extending the life of the asset by approximately 50-75 years.



# **Information Technology Key Accomplishments - 2018**

- ▶ Parking Lot Surveillance Camera Project (Near Completion) The City parking lot surveillance system had not been refreshed in more than 10 years. Over the last 3 years the City has worked to upgrade the system and provide adequate coverage in all Municipal parking lots. To be completed by year-end.
- ▶ Water Plant and Reservoir Cameras (Completed) Twelve cameras and fiber installed at the reservoir to increase security and minimize the likelihood or impact of a loss.
- ▶ **Property Management Software (Completed)** The City replaced CityView software with Tyler Munis for property tax, business licensing and permitting. This switch eliminated the use of one of our three major ERP systems providing better integration with our accounting software.
- ➤ SecureWorks Network Security Monitoring (Completed) The City implemented Dell SecureWorks Network Security Monitoring to protect against potential data breaches and threats.
- ▶ Police Department migration to City network Completed) The IT Division moved NPD computers and users from the State of DE network to the City of Newark Municipal network. This move offered many great benefits, including access to faster internet, expanded access to applications and improvements on the way we operate. In addition this migration allowed us to relocate NPD file data to the SharePoint.
- ▶ ARCGIS Federation with ADFS (Completed) The IT Division installed and configured ADFS providing users with a single sign on solution to ARCGIS.



# **GIS Key Accomplishments - 2018**

- ▶ Real-time Asset Location & Data Access via mobile tablets to all PWWR assets (Water, Stormwater, and Sanitary Sewer) for field personnel and management. The tablets allow staff to locate, identify, and update feature specific data.
- ▶ **Field Inspection Surveys** Digitally recording field inspection surveys (i.e. Sanitary Sewer Flushing Data, Fire Hydrant and Dry Weather Outfall Inspections) that are tied directly to the asset. These resultant data assist the department in identifying "Hot Spot" areas and those targeted for follow-up activities.
- ▶ Paperless Workflow Successfully implemented a paperless platform to systematically flush the City's water mains. In 2018, Staff utilized a GIS workflow mobile application where specific tasks, hydrant flushing and valve turning, were selectively assigned to teams to flush the system. The new workflow significantly simplified the process for PWWR field staff.
- ➤ City of Newark Public Parking Map The interactive map illustrates the parking options throughout the City, including providing the up-to-date number of available parking spaces in Lot 1, 3 and 4. Also mapped are the special residential parking districts informing the public where a permit is required.
- ► City of Newark Development Plan Proposals A Web GIS map application illustrating the current development plan proposals within and adjacent to the City of Newark.



### **CIP Formatting Has Been Modified**

2018-2022

#### Page Number 49 CITY OF NEWARK, DELAWARE CAPITAL BUDGET - PROJECT DETAI DEPARTMENT Public Works & Water Resources PROJECT LOCATION: Sanitary Sewer Study and Repairs PROJECT STATUS (SELECT FROM DROP DOWN): Project underway and must be completed COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT: Charter § 806.1(2) DESCRIPTION & JUSTIFICATION: This project affords the continuation of our cleaning and investigation of the condition of the sanitary sewer system and will result in recommendations or repair. To date we have inspected approximately 10 miles of the 95 miles of sanitary sewer main in our system. Using results from 10 miles of nspections we have identified and prioritized approximately \$2,600,000 worth of necessary repairs. To date our inspections have been prioritized base: on line size and backup history. As part of the ongoing sanitary sewer master plan project we have completed sanitary sewer flow monitoring in the Christina Basin (approximately 2/3rds of the system) and are applying for a grant to do the same in the White Clay Basin in 2016-2017. This flow onitoring will allow us to target inspections on those areas where we are experiencing the most rainfall derived inflow and infiltration (RDII) which is a good indicator of structural damage in pipes. (rainfall can get into the pipes through cracks and holes). This will allow for a more targeted, data driven approach to investigations. The flow monitoring will also be used for a capacity model that will allow us to target select lines for capacity increases whe performing rehabilitation efforts. In 2017 we completed repairs in the Kells Avenue basin and along Bogy Run north of Ray Street and we also performed inspections to the critical main between the Cooches Bridge and Silverbrook pump stations. During 2016 we also performed non-destructive pipe testing on the Silverbrook force main which is failure critical and heretofore uninspected since installation. In 2018 we plan to continue targeted inspections based on data derived from flow testing. We also plan to begin rehabilitation/replacement as determined by the prioritization and capacity model driven pipe diameter increases. Specific locations will be available prior to CIP adoption. Deauthorize \$75,000,00 to be transferred to CIP Project \$1602. First Year in Program 2009 CLASSIFICATION ACCOUNT NUMBERS AMOUNT Est. Completion Date PERPETUAL Est. Useful Life (in years) 50+ Materials Est. Total Cost 4,661,701 Other Contracts 5395306.9760 4,661,701 Est. Spend @ 12/31 (if underway) Balance to be funded 4.661.701 ongoing projects, we must estimate total spent since inception through current year to de the balance to be funded thereafter. % Complete (if underway) § 806.1(3) SOURCE OF FUNDS TOTAL PRIOR<sup>2</sup> 2018 2019 2020 2021 CLIPDENT DESCLIPCES 400 000 400,000 CAPITAL RESERVES 361,701 EQUIPMENT REPLACEMENT BOND ISSUES GRANTS (Specify) OTHER (Specify) OTHER (Specify) Frior' refers to that portion of project funding that was authorized in a prior year but which is not expected to be spent through 12/31 of the current year year and/or "out years." OPERATING IMPACT

INCREMENTAL COSTS (NET SAVINGS)

2019-2023

PROJECT NO:

PROJECT STATUS: Reoccurring (with no end date)

PROJECT TITLE: Sanitary Sewer Study and Repairs

FUNDING SUMMARY: \*Prior Authorized Rala

\*Prior Authorized Balance includes 2018 carryover funding only. Total 5 Year 855.00 800.00 New Fundin 1.000.000 4.455.00 500.00 \$ 1.000.000 \$ 4.955.000

PROJECT LOCATION: Various Project underway and must be completed OMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT Sustainable Community

§ 806.1(3) SUMMARY OF PROJECT	T DA	TA
First Year in Program:		2009
Est. Completion Date:		Perpetual
Est. Useful Life (in years):		50+
Est. Total Cost:	\$	5,670,811
Est. Spend @ 12/31/2018 (if underway):	\$	715,811
% Complete (if underway):		12.6%
Balance to be funded <sup>†</sup> :	\$	4,955,000

For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJECT COST BY CATEGORY												
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT									
Labor:		\$	-									
Materials:		\$										
Other Contracts:	5395306.9760	\$	4,955,000									
TOTAL PR	\$	4,955,000										
2 Canada in make a samina day	and the first beautiful and the state of the	- 6-	akin annaine									

but this portion of the project will indeed represent a cash outflow in the budget year and/or "out years."

This project affords the continuation of our cleaning and investigation of the condition of the sanitary sewer system and will result n recommendations for repair. To date we have inspected approximately 10 miles of the 95 miles of sanitary sewer main in our system. Using results from 10 miles of inspections we have identified and prioritized approximately \$2,600,000 worth of necessary repairs. To date our inspections have been prioritized based on line size and backup history. As part of the ongoing sanitary sewer master plan project we have completed sanitary sewer flow monitoring in the Christina Basin and the White Clay Basin largely paid

for by grant funds throught the State Revolving Loan Fund. This flow monitoring will allow us to target inspections on those areas where we are experiencing the most rainfall derived inflow and infiltration (RDII) which is a good indicator of structural damage in pipes. (rainfall can get into the pipes through cracks and holes). This will allow for a more targeted, data driven approach to investigations. The flow monitoring will also be used for a capacity model that will allow us to target select lines for capacity increases when performing rehabilitation efforts.

In 2018 we completed repairs and installed lining in segments of pipe identified in the above referenced investigations. We also

nspected critical areas ahead of planned DelDOT and City paving jobs, most notably Main Street and Delaware Avenue. In 2019 we plan to continue targeted inspections based on data derived from flow testing. We also plan to ramp up rehabilitation/replacement as determined by the prioritization and capacity model driven pipe diameter increases. Area maps for planned work in 2019 are

\$55,000 was added in 2019 in order to recognize the capitalized interest payments for debt service for the State Revolving Loan

			PROJECT FIN	ANCING BY P	LAN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized <sup>2</sup>	Actual Funds Utilized as of 06/30/18	Estimated Expenditures 07/01/18 - 12/31/18	Estimated Authorized Balance <sup>2</sup> 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	400,000	20,481	379,519	\$ -	55,000				1,000,000	\$ 1,055,000
CAPITAL RESERVES	315,811	315,811		\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	500,000			\$ 500,000	1,300,000	1,000,000	800,000	800,000		\$ 3,900,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,215,811	\$ 336,292	\$ 379,519	\$ 500,000	\$ 1,355,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,955,000
§ 806.1(4) ESTIMATED ANNUAL COST (	§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT	AL COSTS (NET	SAVINGS)						\$ -



# CIP Formatting Has Been Modified (Top of CIP Sheet)



PROJECT NO: S0904

PROJECT TITLE: Sanitary Sewer Study and Repairs

PROJECT STATUS: Reoccurring (with no end date)

	*Prior Authorized	balance includes 2	018 carryover fund	ing only.		
FUNDING SUMMARY:	2019	2020	2021	2022	2023	Total 5 Year
New Funding:	\$ 855,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,455,000
*Prior Authorized Balance:	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
2019-2023 Funding:	\$ 1.355,000	\$ 1.000,000	\$ 800,000	\$ 800,000	\$ 1.000,000	\$ 4,955,000

- **Project Status**: Indicates if the project is new, reoccurring with an end date, or reoccurring without an end date.
- ► **Funding Summary:** Highlights the funding brought forward from the 2018 approved budget to be utilized between 2019-2023. Provides a better picture of how much funding requested in 2019-2023 is new.



# CIP Formatting Has Been Modified (Bottom of CIP Sheet)

			PROJECT FINA	ANCING BY PL	AN YEAR					
§ 806.1(3) SOURCE OF FUNDS:	Prior Authorized <sup>2</sup>	Actual Funds Utilized as of 06/30/18	Expenditures	Estimated Authorized Balance <sup>2</sup> 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	400,000	20,481	379,519	\$ -	55,000				1,000,000	\$ 1,055,000
CAPITAL RESERVES	315,811	315,811		\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	500,000			\$ 500,000	1,300,000	1,000,000	800,000	800,000		\$ 3,900,000
OTHER (SPECIFY)				\$ -						\$ -
TOTAL:	\$ 1,215,811	\$ 336,292	\$ 379,519	\$ 500,000	\$ 1,355,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,955,000
§ 806.1(4) ESTIMATED ANNUAL COST (	§ 806.1(4) ESTIMATED ANNUAL COST OF OPERATING IMPACT:				2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT	AL COSTS (NET	SAVINGS)						\$ -

- ▶ **Prior Authorized:** Represents the project funding authorized in prior years.
- ► Actual Funds Utilized as of 6/30/18: Expended/encumbered funds through June 30th.
- ► Estimated Expenditures 7/01/18-12/31/18: Estimated expenditures/encumbrances for this period.
- ▶ Estimated Authorized Balance 12/31/18: Estimated balance at year-end to be carried over into 2019+.
- ▶ **2019:** \$500,000 of the \$1,355,000 requested for 2019 includes the \$500,000 balance to be carried over from 2018.



### **CIP Formatting Has Been Modified – Linking Sheet Together**

CAPI	CAPITAL BUDGET - PROJECT DETAIL										
DEPARTMENT: Public Works & Water Resources											
DIVISION:	Sewer										
FUND:	Sewer										
PROJECT LOCATION: Various											
PROJECT PRIORIT											
Project	underway and must be completed										
COMPREHENSIVE	COMPREHENSIVE DEVELOPMENT PLANNING VISION ELEMENT:										
	Sustainable Community										

§ 806.1(3) SUMMARY OF PROJECT	DATA
First Year in Program:	2009
Est. Completion Date:	Perpetual
Est. Useful Life (in years):	50+
Est. Total Cost:	\$ 5,670,811
Est. Spend @ 12/31/2018 (if underway):	\$ 715,811
% Complete (if underway):	12.6%
Balance to be funded <sup>+</sup> :	\$ 4,955,000

<sup>&</sup>lt;sup>1</sup> For ongoing projects, we must estimate total spent since inception through current year to derive the balance to be funded thereafter.

PROJE	CT COST BY CATEGOR	Y	
CLASSIFICATION	ACCOUNT NUMBER		AMOUNT
Labor:		\$	-
Materials:		\$	-
Other Contracts:	5395306.9760	\$	4,955,000
TOTAL PRO	DJECT COST	\$	4,955,000

Now includes "Fund" on all CIP sheets

**Estimated Total Project costs are now broken down on each CIP:** 

#### Sum of the following:

- ► Actual Funds Utilized as of 6/30/18
- Estimated Expenditures 7/01/18-12/31/18
- ► Total 5 Year CIP

	*Prior Authorized	Balance includes 2	018 carryover fund	ling only.		
FUNDING SUMMARY:	2019	2020	2021	2022	2023	Total 5 Year
New Funding:	\$ 855,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,455,000
*Prior Authorized Balance:	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000
2019-2023 Funding:	\$ 1,355,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,955,000

- 0000 (.1(3) SOURCE OF FUNDS:	Prior Authorized <sup>2</sup>	Actual Funds Utilized as of 06/30/18	Expenditures	Authorized Balance <sup>2</sup> 12/31/18	2019	2020	2021	2022	2023	TOTAL 5 Year CIP
CURRENT RESOURCES	400,000	20,481	379,519	\$ -	55,000				1,000,000	\$ 1,055,000
CAPITAL RESERVES	315,811	315,811		\$ -						\$ -
EQUIPMENT REPLACEMENT				\$ -						\$ -
GRANTS (SPECIFY)				\$ -						\$ -
BOND ISSUES				\$ -						\$ -
STATE REVOLVING LOAN	500,000			\$ 500,000	1,300,000	1,000,000	800,000	800,000		\$ 3,900,000
OTHER (SPECIFY)				\$ -						, 3
TOTAL:	\$ 1,215,811	336,292	\$ 379,519	\$ 500,000	\$ 1,355,000	\$ 1,000,000	\$ 800,000	\$ 800,000	\$ 1,000,000	\$ 4,955,000
§ 806.1(4) ESTIMATED ANNUAL COST (	OF .	OPE	RATING IMPAC	T:	2019	2020	2021	2022	2023	TOTAL
OPERATING / MAINTAINING PROJECT OR A	ASSET	INCREMENT.	AL COSTS (NET	SAVINGS)						\$ -



FUNDING SUMMARY

2023

8,097,703

8,097,703

Total 5 Year 54,612,444

4,399,292

59,011,736

New Funding: \*Prior Authorized Balance: 2019-2023 Funding:

2019	2020 2021					202
\$ 15,195,674	\$ 12,565,813		\$	9,181,931		\$ 9,57
\$ 4,378,184	\$ 21,108		\$	-		\$
\$ 19,573,858	\$ 12,586,921		\$	9,181,931		\$ 9,57

<sup>\*</sup>Prior Authorized Balance includes 2018 carryover funding only.

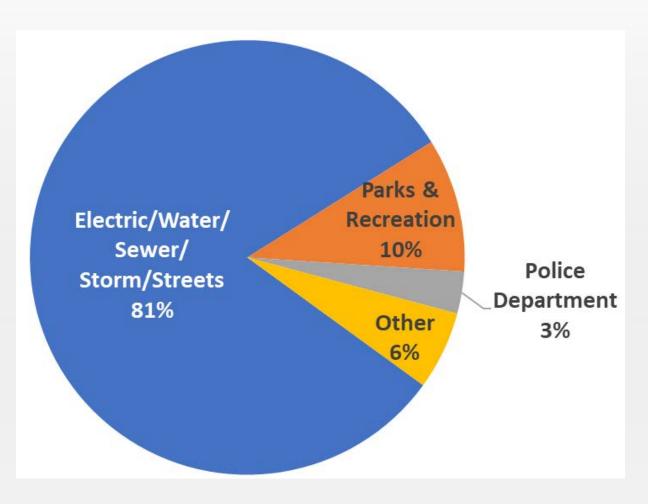
	2018	1	20	)19													TOTAL
	BUDGET	RE	SERVES &		CURRENT				PROP	o s	ED BUI	D G	ETS			ı	PROPOSED
	AMENDED	OTHE	ER FUNDING		FUNDING	. –	2019		2020		2021		2022		2023		AMOUNTS
ELECTRIC FUND	\$ 1,706,500	\$	310,044	s	1,118,400	\$	1,428,444	\$	1,202,000	\$	705,000	s	1,410,000	\$	1,068,000	s	5,813,444
WATER FUND	3,953,500		4,710,376		413,624		5,124,000		2,328,000		2,724,000		3,649,000		1,479,000		15,304,000
SEWER FUND	1,336,701		1,300,000		55,000		1,355,000		1,000,000		800,000		800,000		1,300,000		5,255,000
STORMWATER FUND	2,103,000		5,026,375		758,125		5,784,500		2,894,050		576,203		550,513		610,000		10,415,26
PUBLIC WORKS - GENERAL FUND	1,800,671		1,300,821		878,329		2,179,150		2,222,395		2,567,736		1,918,178		2,582,441		11,469,90
POLICE DEPARTMENT	445,492		440,442		172,882		613,324		501,868		281,492		211,682		734,262		2,342,62
PARKS & RECREATION DEPARTMENT	941,634		1,618,000		329,500		1,947,500		625,108		1,200,000		999,450		324,000		5,096,05
PARKING FUND	323,490		354,740		54,000		408,740		149,000		105,000		-		-		662,74
NFORMATION TECHNOLOGY DIVISION	-		32,500		75,700		108,200		495,500		32,500		32,500		-		668,70
MAINTENANCE FUND	452,549		420,000		50,000		470,000		1,124,000		35,000		-		-		1,629,00
OTHER DEPARTMENTS/DIVISIONS	86,320		155,000	_		_	155,000	_	45,000	_	155,000	_	-	_	35,000		390,00
	\$ 13,149,857	\$	15,668,298	\$	3,905,560	\$	19,573,858	\$	12,586,921	\$	9,181,931	\$	9,571,323	\$	8,132,703	\$	59,046,73
PLANNED FINANCING SOURCES:																	
GROSS CAPITAL IMPROVEMENTS	\$ 13,149,857	\$	15,668,298	\$	3,905,560	\$	19,573,858	\$	12,586,921	\$	9,181,931	\$	9,571,323	\$	8,132,703	\$	59,046,73
LESS: USE OF RESERVES	(1,678,364)		(733,799)		-		(733,799)		(289,448)		(384,667)		(63,383)		(510,587)		(1,981,88
VEHICLE & EQUIPMENT REPLACEMENT	(1,002,492)		(1,001,105)		-		(1,001,105)		(1,400,864)		(691,344)		(449,414)		(1,214,588)		(4,757,31
GRANTS	(1,354,241)		(1,825,744)		-		(1,825,744)		(562,271)		(704,744)		(516,671)		(612,029)		(4,221,45
BOND ISSUES	(790,549)		(795,650)		-		(795,650)		(1,085,895)		(547,236)		(548,930)		-		(2,977,71
STATE REVOLVING LOAN	(5,015,000)		(10,625,000)		-		(10,625,000)		(5,065,000)		(2,500,000)		(4,225,000)		-		(22,415,00
OTHER FINANCING SOURCES	(1,079,000)		(687,000)	_			(687,000)	_	(270,000)	_	(270,000)	_	(270,000)	_	(120,000)		(1,617,00

# 2018-2022 Approved vs. 2019-2023 Recommended

Fund	2019 CIP (2018- 2022 CIP)	2019 CIP	Difference	Comments
Stormwater	\$6,867,375	\$5,784,500		Q1802 - Purchase of Rodney Parcel moved to 2020. \$1.4M.
Water	\$1,948,000	\$5,124,000	\$3,176,000	W1402 - \$1.7M for the Air Stripper Replacement, South Well Field was not spent in 2018. Now project is listed as \$3,090,000 in 2019.
General	\$4,547,448	\$4,873,174	\$325,726	C1902, C1904 - Police. Added for body worn cameras and mobile video recording projects: \$305,882.
Electric	\$1,383,500	\$1,428,444	\$44,944	
Sewer	\$800,000	\$1,355,000		S0904 - \$500,000 approved and not expended for sanitary sewer repairs, is being carried forward to 2019 due to pending State Revolving Loan program approval. Additional \$55,000 added for interest payments on SRL.
Maintenance Fund	\$414,000	\$470,000	\$56,000	N1901 - City Hall HVAC Upgrade project was added. \$50,000 is the estimated cost of contractual work to determine a path forward for the replacement of City Hall's HVAC system.
Parking	\$21,000	\$408,740	\$387,740	V1801 - Lot #1 parking lot expansion added to CIP by Council on 9/24/2018 for \$290,000. V1702 adds \$15,000 for additional parking meter sensors. V1703 added \$23,000 for the Lot Countdown signs project. V1904 adds \$27,000 for replacement radios for the Parking Ambassadors.
Unicity	\$120,000	\$130,000	\$10,000	UEQSF - Reflects the rising replacement cost of one Unicity bus.
TOTAL:	\$16,101,323	\$19,573,858	\$3,472,535	



# **2019 Gross Capital Expenditures by Department**



Department/Division	2019	% of Total
Water	\$5,124,000	26.2%
Sewer	\$1,355,000	6.9%
Stormwater	\$5,784,500	29.6%
Street Program	\$2,179,150	11.1%
Electric	\$1,428,444	7.3%
Parks & Recreation	\$1,947,500	9.9%
Police Department	\$613,324	3.1%
Maintenance Fund	\$470,000	2.4%
Information Technology	\$108,200	0.6%
Parking	\$408,740	2.1%
Other Departments	\$155,000	0.8%
Grand Total:	\$19,573,858	100.0%

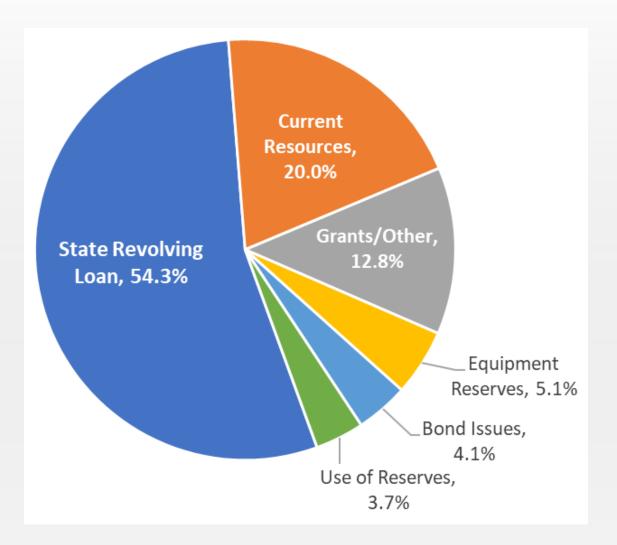
Department/Division	2019	% of Total
Water/Sewer/Stormwater/Electric/Streets	\$15,871,094	81%
Parks & Recreation	\$1,947,500	10%
Police Department	\$613,324	3%
Other	\$1,141,940	6%
Grand Total:	\$19,573,858	100%



# **2019 CIP Funding Sources**

Fund	2019 CIP	State Revolving Loan	Bond	Equipment	Grants/Other	Capital Reserves	Current Resources
Stormwater	\$5,784,500	(\$4,775,000)	\$0	(\$161,375)	(\$50,000)	(\$40,000)	(\$758,125)
Water	\$5,124,000	(\$4,550,000)	\$0	(\$85,376)	(\$70,000)	(\$5,000)	(\$413,624)
General	\$4,873,174	\$0	(\$520,650)	(\$586,949)	(\$2,041,671)	(\$267,493)	(\$1,456,411)
Electric	\$1,428,444	\$0	\$0	(\$149,600)	(\$120,000)	(\$40,444)	(\$1,118,400)
Sewer	\$1,355,000	(\$1,300,000)	\$0	\$0	\$0	\$0	(\$55,000)
Maintenance Fund	\$470,000	\$0	(\$275,000)	(\$17,805)	(\$105,000)	(\$22,195)	(\$50,000)
Parking	\$408,740	\$0	\$0	\$0	(\$12,000)	(\$342,740)	(\$54,000)
Unicity	\$130,000	\$0	\$0	\$0	(\$114,073)	(\$15,927)	\$0
TOTAL:	\$19,573,858	(\$10,625,000)	(\$795,650)	(\$1,001,105)	(\$2,512,744)	(\$733,799)	(\$3,905,560)

# **2019 Funding Sources for CIP**



Funding Source	Amount	%
State Revolving Loan	\$10,625,000	54.3%
Current Resources	\$3,905,560	20.0%
Grants/Other	\$2,512,744	12.8%
<b>Equipment Replacement Reserves</b>	\$1,001,105	5.1%
Bond Issues	\$795,650	4.1%
Use of Reserves	\$733,799	3.7%
Total:	\$19,573,858	100.0%

<b>Funding Source</b>	2018	2019
State Revolving Loan	38.1%	54.3%
Current Resources	17.0%	20.0%
Grants/Other	18.5%	12.8%
Equipment Replacement Reserves	7.6%	5.1%
Bond Issues	6.0%	4.1%
Use of Reserves	12.8%	3.7%
Total:	100.0%	100.0%

### **Capital Projects – SRL Financing**

2019	\$ 1,000,000
2019-2023	\$ 22,415,000
TOTAL FUNDING:	\$ 23,415,000

Project Project				2018		FIVE YEAR CAPITAL IMPROVEMENTS PROGRAM R E C O M M E N D E D F U N D I N G					
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL	
Q1802	Stormwater Division	Stormwater Fund	Rodney Regional Stormwater Park	1,000,000	4,775,000	2,365,000	0	0	0	7,140,000	
S0904	Sewer Division	Sewer Fund	Sanitary Sewer Study and Repairs	0	1,300,000	1,000,000	800,000	800,000	0	3,900,000	
W9308	Water Division	Water Fund	Water Main Replacement Program	0	1,000,000	1,000,000	1,000,000	1,000,000	0	4,000,000	
W1402	Water Division	Water Fund	Air Stripper Replacement - South Well Field	0	3,000,000	0	0	0	0	3,000,000	
W1703	Water Division	Water Fund	Laird Tract Well Field Restoration	0	0	0	0	1,925,000	0	1,925,000	
W9302	Water Division	Water Fund	Water SCADA System	0	200,000	350,000	0	0	0	550,000	
W8605	Water Division	Water Fund	Water Tank Maintenance	0	350,000	350,000	700,000	500,000	0	1,900,000	
				\$1,000,000	\$10,625,000	\$5,065,000	\$2,500,000	\$4,225,000	\$0	\$22,415,000	

- ▶ State Revolving Loan financing totals \$23.4 million through 2022. Projects listed above may have other sources of funding, as this table reflects the anticipated SRL funds needed between 2018 and 2022.
- ▶ It is estimated that \$1 million will be used in 2018 towards the Rodney Regional Stormwater Park project.



### **Capital Projects – Bond Financing**

2019	\$ 294,549
2019-2023	\$ 2,397,711
TOTAL FUNDING:	\$ 2,692,260

Project			Project	2018		FIVE YEAR CAPITAL IMPROVEMENTS PROGRAM  RECOMMENDED FUNDING						
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL		
H1901	Street Division	General Fund	Annual Street Program	0	100,000	50,000	100,000	140,252	0	390,252		
H1902	Street Division	General Fund	ADA Accessibility Transition Plan	0	243,150	131,395	134,736	138,178	0	647,459		
K1301	Parks & Recreation Department	General Fund	Hard Surface Facilities Improvements	50,000	145,000	422,000	280,000	238,000	0	1,085,000		
N1801	Facilities Maintenance Division	Maintenance Fund	Rear Concrete Deck and Stairs	50,000	50,000	0	0	0	0	50,000		
N1806	Facilities Maintenance Division	Maintenance Fund	FOC - Master Plan	70,000	225,000	0	0	0	0	225,000		
V1901	Parking Division	Parking Fund	Parking Lot Surface Maintenance	0	0	0	0	0	0	0		
M1401	Fleet Maintenance Division	Maintenance Fund	Truck Lift Systems Improvements	124,549	0	0	0	0	0	0		
				\$294,549	\$763,150	\$603,395	\$514,736	\$516,430	\$0	\$2,397,711		

- ▶ Bond/debt financing totals \$2.7 million through 2022. Projects listed above may have other sources of funding, as this table reflects the anticipated debt financing needed between 2018 and 2022.
- ▶ Parking Lot Surface Maintenance (V1901) is no longer anticipated to use debt financing.



# **Capital Projects – Priority 1 Projects**

Project			Project	2018		FIV	E YEAR CAPITAL IMPR R E C O M M E N D	OVEMENTS PROGRAM	vI	
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
E1901	Electric Department	Electric Fund	New Lines and Services	0	125,000	130,000	135,000	140,000	145,000	675,000
E1502	Electric Department	Electric Fund	Underground Distribution - UD Star Campus	120,000	120,000	120,000	120,000	120,000	120,000	600,000
E1203	Electric Department	Electric Fund	CAD Software	40,500	40,444	0	0	0	0	40,444
E0503	Electric Department	Electric Fund	SCADA and Automatic Switching	300,000	655,000	250,000	0	450,000	0	1,355,000
W1601	Water Division	Water Fund	Backup Generation at Water Facilities	82,500	70,000	0	0	0	0	70,000
W0503	Water Division	Water Fund	Well Restoration Program	28,000	28,000	58,000	29,000	29,000	29,000	173,000
W0002	Water Division	Water Fund	Curtis WTP Alt. Disinfection and Facilities Upgrades	673,000	25,000	0	0	0	0	25,000
W9308	Water Division	Water Fund	Water Main Replacement Program	0	1,000,000	1,000,000	1,000,000	1,000,000	0	4,000,000
Q1802	Stormwater Division	Stormwater Fund	Rodney Regional Stormwater Park	1,000,000	4,775,000	2,365,000	0	0	0	7,140,000
Q1301	Stormwater Division	Stormwater Fund	Storm Drainage Improvements	420,000	491,000	463,050	536,203	510,513	525,000	2,525,766
Q0101	Stormwater Division	Stormwater Fund	NPDES (Phase II) Stormwater Quality Program	40,000	40,000	40,000	40,000	40,000	40,000	200,000
S0904	Sewer Division	Sewer Fund	Sanitary Sewer Study and Repairs	0	1,300,000	1,000,000	800,000	800,000	0	3,900,000
H1901	Street Division	General Fund	Annual Street Program	0	1,600,000	1,625,000	1,650,000	1,675,000	1,750,000	8,300,000
H1902	Street Division	General Fund	ADA Accessibility Transition Plan	115,000	153,150	156,395	159,736	163,178	166,441	798,900
C1902	Police Department	General Fund	Mobile Video Recording Refresh	0	190,224	50,116	50,116	50,116	50,116	390,688
C1904	Police Department	General Fund	Body Worn Camera Project	0	115,658	68,268	68,268	68,268	68,268	388,730
C1601	Police Department	General Fund	Taser X26P Replacement	20,389	21,408	22,478	23,602	24,782	26,021	118,291
C1401	Police Department	General Fund	Ballistic Vests	3,000	14,034	10,006	35,506	16,516	4,857	80,919
K1601	Parks & Recreation Department	General Fund	Charles Emerson Bicycle/Pedestrian Bridge	500,000	1,250,000	0	0	0	0	1,250,000
V1702	Parking Division	Parking Fund	Additional Parking Sensors	68,250	15,000	0	0	0	0	15,000
V1703	Parking Division	Parking Fund	Lot Countdown Signs	52,500	24,000	0	0	0	0	24,000
Includes	Debt Funding			\$3,463,139	\$12,052,918	\$7,358,313	\$4,647,431	\$5,087,373	\$2,924,703	\$32,070,738



# **Capital Projects – Equipment**

						FIVE YE	AR CAPITAL IMPR	OVEMENTS PRO	GRAM	
Project			Project	2018		RI	E C O M M E N D E	D FUNDING	G	
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
EEQSF	Electric Department	Electric Fund	Equipment Replacement Program	340,000	218,000	487,000	0	250,000	368,000	1,323,000
WEQSF	Water Division	Water Fund	Equipment Replacement Program	0	124,000	310,000	100,000	50,000	50,000	634,000
QEQSF	Stormwater Division	Stormwater Fund	Equipment Replacement Program	18,000	315,000	26,000	0	0	45,000	386,000
SEQSF	Sewer Division	Sewer Fund	Equipment Replacement Program	0	0	0	0	0	300,000	300,000
REQSF	Refuse Division	General Fund	Equipment Replacement Program	0	0	225,000	430,000	0	0	655,000
HEQSF	Street Division	General Fund	Equipment Replacement Program	200,000	331,000	196,000	233,000	60,000	611,000	1,431,000
TEQSF	Engineering Division	General Fund	Equipment Replacement Program	0	75,000	0	0	0	35,000	110,000
MEQSF	Fleet Maintenance Division	Maintenance Fund	Equipment Replacement Program	0	40,000	0	0	0	0	40,000
CEQSF	Police Department	General Fund	Equipment Replacement Program	184,000	240,000	351,000	104,000	52,000	585,000	1,332,000
KEQSF	Parks & Recreation Department	General Fund	Equipment Replacement Program	62,000	233,000	65,000	0	145,000	155,000	598,000
BEQSF	Code Enforcement Division	General Fund	Equipment Replacement Program	27,000	25,000	45,000	25,000	0	0	95,000
UEQSF	Unicity Transportation Division	Transportation Fund	Equipment Replacement Program	0	130,000	0	130,000	0	0	260,000
VEQSF	Parking Division	Parking Fund	Equipment Replacement Program	0	0	49,000	0	0	0	49,000
FEQSF	Finance Department	General Fund	Equipment Replacement Program	0	0	0	0	0	35,000	35,000
NEQSF	Facilities Maintenance Division	Maintenance Fund	Equipment Replacement Program	30,000	0	0	35,000	0	0	35,000
Includes	Grant Funding			\$861,000	\$1,731,000	\$1,754,000	\$1,057,000	\$557,000	\$2,184,000	\$7,283,000

# **Capital Projects – Priority 2 Projects**

Duning			Desired	2018	FIVE YEAR CAPITAL IMPROVEMENTS PROGRAM  RECOMMENDED FUNDING					
Project Number			Project Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
W1701	Water Division	Water Fund	Valve Inspection, Exercising and Rehabilitation	0	165,000	125,000	125,000	125,000	125,000	665,000
W1702	Water Division	Water Fund	Source Water Protection	20,000	20,000	20,000	20,000	20,000	25,000	105,000
W1703	Water Division	Water Fund	Laird Tract Well Field Restoration	0	0	0	0	1,925,000	0	1,925,000
W1402	Water Division	Water Fund	Air Stripper Replacement - South Well Field	0	3,000,000	0	0	0	0	3,000,000
W9302	Water Division	Water Fund	Water SCADA System	0	200,000	350,000	0	0	0	550,000
W8605	Water Division	Water Fund	Water Tank Maintenance	0	350,000	350,000	700,000	500,000	0	1,900,000
H1503	Street Division	General Fund	Newark Transportation Plan Implementation	704,000	20,000	20,000	20,000	20,000	20,000	100,000
K1301	Parks & Recreation Department	General Fund	Hard Surface Facilities Improvements	50,000	145,000	422,000	280,000	238,000	109,000	1,194,000
K0908	Parks & Recreation Department	General Fund	Children's Play Equipment	3,550	60,000	40,000	40,000	16,450	60,000	216,450
V1901	Parking Division	Parking Fund	Parking Lot Surface Maintenance	0	127,740	0	105,000	0	0	232,740
V1904	Parking Division	Parking Fund	Parking Ambassador Radios	0	27,000	0	0	0	0	27,000
V1802	Parking Division	Parking Fund	Lot #1 Expansion	75,000	215,000	0	0	0	0	215,000
V1701	Parking Division	Parking Fund	LPR's for Parking Ambassador Vehicles	0	0	100,000	0	0	0	100,000
11901	Information Technology Division	General Fund	Sonicwall Firewall Replacement	0	58,000	0	0	0	0	58,000
N1901	Facilities Maintenance Division	Maintenance Fund	City Hall - HVAC System Upgrades	0	50,000	950,000	0	0	0	1,000,000
N1801	Facilities Maintenance Division	Maintenance Fund	Rear Concrete Deck and Stairs	50,000	50,000	0	0	0	0	50,000
N1806	Facilities Maintenance Division	Maintenance Fund	FOC - Master Plan	123,000	225,000	0	0	0	0	225,000
					·					
Includes [	Debt Funding			\$1,025,550	\$4,712,740	\$2,377,000	\$1,290,000	\$2,844,450	\$339,000	\$11,563,190

# **Capital Projects – Priority 3 Projects**

					FIVE YEAR CAPITAL IMPROVEMENTS PROGRAM					
Project			Project	2018	RECOMMENDED FUNDING					
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
E1912	Electric Department	Electric Fund	35kV Disconnect Switches Replacement - Ke	0	0	0	150,000	150,000	150,000	450,000
E1602	Electric Department	Electric Fund	Circuit Breaker Replacement	0	0	65,000	0	0	0	65,000
W1602	Water Division	Water Fund	Roseville Park Pressure District	0	0	25,000	250,000	0	0	275,000
W1503	Water Division	Water Fund	Academy Street Interconnection Pump Static	0	0	50,000	500,000	0	0	550,000
W1302	Water Division	Water Fund	Abandon Old Wells	0	5,000	40,000	0	0	0	45,000
H1903	Street Division	General Fund	Skid Steer Purchase	0	0	0	75,000	0	0	75,000
11703	Parks & Recreation Department	General Fund	Recreation Management Software	0	88,500	0	0	0	0	88,500
11601	Information Technology Division	General Fund	Virtual Environment Host Replacement	0	0	75,000	0	0	0	75,000
11603	Information Technology Division	General Fund	Surveillance Camera Refresh	0	32,500	32,500	32,500	32,500	0	130,000
11606	Information Technology Division	General Fund	Disaster Recovery and Planning	0	0	75,000	0	0	0	75,000
N1803	Facilities Maintenance Division	Maintenance Fund	Exterior Paint and Powerwash	0	0	33,000	0	0	0	33,000
la alcala a	Dalut Francisco			40	Ć12C 000	Ć205 500	Ć4 007 F00	Ć102 F00	Ć150.000	Ć1 0C1 500
includes	Debt Funding			<b>Ş0</b>	\$126,000	\$395,500	\$1,007,500	\$182,500	\$150,000	\$1,861,500

# **Capital Projects – Priority 4 Projects**

Project			Project	2018						
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
E1911	Electric Department	Electric Fund	34kV Line 3402 Capacity Upgrade	0	0	0	250,000	250,000	0	500,000
E1805	Electric Department	Electric Fund	Line Extension - UD Farm	0	170,000	0	0	0	0	170,000
E1806	Electric Department	Electric Fund	Christianstead Cable Addition	0	0	50,000	0	0	0	50,000
C1903	Police Department	General Fund	NPD Ethernet Rewiring Project	0	32,000	0	0	0	0	32,000
K1704	Parks & Recreation Department	General Fund	Lumbrook Park Pavilion	0	0	45,000	0	0	0	45,000
K1705	Parks & Recreation Department	General Fund	Preston's Playground Utility Lines	124,084	60,000	0	0	0	0	60,000
K1605	Parks & Recreation Department	General Fund	Redd Park Trail Improvements	32,000	0	32,000	30,000	0	0	62,000
K1501	Parks & Recreation Department	General Fund	Iron Glen Park Master Plan	0	0	0	50,000	0	0	50,000
K1502	Parks & Recreation Department	General Fund	Fitness Stations	20,000	0	21,108	0	0	0	21,108
K1305	Parks & Recreation Department	General Fund	Pomeroy Trail Connector	150,000	11,000	0	0	0	0	11,000
K1202	Parks & Recreation Department	General Fund	Kershaw Park Improvements	0	0	0	200,000	0	0	200,000
K1203	Parks & Recreation Department	General Fund	Old Paper Mill Park Improvements	0	100,000	0	600,000	600,000	0	1,300,000
11902	Information Technology Division	General Fund	Tyler Technologies Contracts, Bid Module and Cash Management Module	0	17,700	23,000	0	0	0	40,700
11801	Information Technology Division	General Fund	Citywide Fiber (Phase II)	0	0	140,000	0	0	0	140,000
N1805	Facilities Maintenance Division	Maintenance Fund	Lower Level Bathroom	0	0	30,000	0	0	0	30,000
N1808	Facilities Maintenance Division	Maintenance Fund	FOC - Buildings 1 and 2, Security Improvements	0	0	31,000	0	0	0	31,000
N1809	Facilities Maintenance Division	Maintenance Fund	TRN - New Windows	0	0	55,000	0	0	0	55,000
N1702	Facilities Maintenance Division	Maintenance Fund	Council Chamber Renovations	0	0	25,000	0	0	0	25,000
N1603	Facilities Maintenance Division	Maintenance Fund	GWC - HVAC System Upgrades	105,000	105,000	0	0	0	0	105,000
				\$431,084	\$495,700	\$452,108	\$1,130,000	\$850,000	\$0	\$2,927,808

# **Capital Projects – Priority 5 Projects**

Project			Project	2018						
Number			Description	BUDGET	2019	2020	2021	2022	2023	TOTAL
E1807	Electric Department	Electric Fund	Relay Replacements - Kershaw Substation	0	0	50,000	50,000	50,000	50,000	200,000
E1808	Electric Department	Electric Fund	Voltage Upgrade - North College Avenue	0	0	50,000	0	0	0	50,000
E1809	Electric Department	Electric Fund	12.47kV Line Extension	0	100,000	0	0	0	0	100,000
E1810	Electric Department	Electric Fund	Lightning Arrestor Replacement	0	0	0	0	0	235,000	235,000
11804	Information Technology Division	General Fund	Harris Automation Platform	0	0	150,000	0	0	0	150,000
				\$0	\$100,000	\$250,000	\$50,000	\$50,000	\$285,000	\$735,000

# **Conclusion / Questions**



