

City of Petersburg Fiscal Year 2018 – 2022 Capital Improvement Plan

Stabilizing the Future





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City of Petersburg, VA
FY 2018 Proposed Budget

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Proposed Capital Program

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Proposed Capital Program

FY 2018 Capital Program

GENERAL FUND	FY 2018
Facilities	-
Schools	-
Fire/EMS	-
Police	-
Sheriff	-
Community Development	-
Information Technology	-
Parks and Leisure	-
Cultural Affairs	-
Other Projects	-
Total	-

STORMWATER MANAGEMENT	FY 2018
Neighborhood Drainage Improvements	-
Utilities Subtotal	-

UTILITIES	FY 2018
Water	2,690,000
Wastewater	3,360,000
Utilities Subtotal	6,050,000

TRANSIT	FY 2018
Equipment (5307)	208,000
Bus Replacement (5339)	400,000
Transit Subtotal	608,000

GRAND TOTAL	6,658,000
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Proposed Capital Program

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

FY 2018 - FY 2022 General Fund

Project	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Facilities						
McKenney Library Interior and Exterior Repairs	60,000					60,000
Wilcox Lake Irrigation System	70,000				70,000	
Siege Museum Major Repairs	100,000		100,000			
McKenney Library - Roof Repairs	50,000			50,000		
Animal Shelter Roof, Fence and Interior Repairs	50,000		50,000			
FACILITIES SUBTOTAL	330,000	-	150,000	50,000	70,000	60,000
Schools						
A.P. Hill Elementary School Upgrade Bathrooms	46,500		46,500			
A.P. Hill Elementary School Window Replacement	356,000			356,000		
J.E.B. Stuart ES Upgrade Restroom	71,500				71,500	
J.E.B. Stuart Window Replacement	211,000		211,000			
Petersburg High School Replace Gym Floor	130,000			130,000		
Petersburg High School Boiler Replacement	180,000				180,000	
Petersburg High School Roof Replacement	682,000				682,000	
Petersburg High School Field House	-					
Petersburg High School Exterior Door Replacement	70,000		70,000			
New Elementary School Design - Walnut Hill, Westview, J.E.B. Stuart	-					
New Elementary School Walnut Hill Elementary School	-					
New Elementary School Westview & J.E.B. Stuart Elementary Schools	-					
Robert E. Lee ES Window Replacement	266,400				266,400	
Vernon Johns Middle School Design Classroom Addition/Multi-purpose Room	-					
Vernon Johns Middle School Construct Classroom Addition/Multi-purpose Room	-					
Westview Early Childhood E.C. Parent Drop-off Loop	262,000		262,000			
Westview Early Childhood E.C. Window Replacement	340,000		340,000			
15 New School Buses	1,303,900		303,000	211,900	556,000	233,000
SCHOOLS SUBTOTAL	3,919,300	-	1,232,500	697,900	1,755,900	233,000



Proposed Capital Program

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Project	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Fire / EMS						
Handheld Public Safety Radios	1,920,000	-	480,000	480,000	480,000	480,000
Computer Aided Dispatching(CAD) Replacement/Upgrades	1,200,000	-	600,000	600,000	-	-
New Fire Station Design (South End)	450,000	-	-	-	-	450,000
New Fire Station Design (East End)	450,000	-	-	-	-	450,000
800 MHz Radio System Upgrades	1,186,000	-	-	-	-	1,000,000
Market Street Station Driveway/Apron Replacement	50,000	-	-	186,000	-	-
Walnut Hill Station Parking Lot	15,000	-	-	50,000	-	-
Ambulance Purchase	286,000	-	15,000	-	-	-
Fire and Life Safety Education Trailer	74,000	-	-	286,000	-	-
Fort Bross Fire Training Facility - Water and Sewer Study	50,000	-	-	-	-	-
Public Safety Training Center	-	-	-	-	74,000	50,000
FIRE / EMS SUBTOTAL	5,681,000	-	1,095,000	1,602,000	554,000	2,430,000
Police						
POLICE SUBTOTAL	-	-	-	-	-	-
Sheriff						
SHERRIF SUBTOTAL	-	-	-	-	-	-
Community Development						
COMMUNITY DEVELOPMENT SUBTOTAL	-	-	-	-	-	-
Information Technology						
FinancialManagement Svstem (Needs Analysis)	120,000	-	-	120,000	-	-
INFORMATION TECHNOLOGY SUBTOTAL	120,000	-	-	120,000	-	-
Parks and Leisure						
Dogwood Trace Maintenance Facility	250,000	-	-	-	250,000	-
PARKS AND LEISURE SUBTOTAL	250,000	-	-	-	250,000	-
Cultural Affairs						
CULTURAL AFFAIRS SUBTOTAL	-	-	-	-	-	-
Other Projects						
OTHER PROJECTS SUBTOTAL	-	-	-	-	-	-
GENERAL FUND TOTAL	10,300,300	-	2,477,500	2,469,900	2,629,900	2,723,000



Proposed Capital Program

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

FY 2018 - FY 2022 Stormwater

Project	Total Project	Proposed Budget				
	Budget	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Stormwater Management						
Neighborhood Drainage Improvement Project - Construction	1,000,000	0	0	0	500,000	500,000
STORMWATER TOTAL	1,000,000	-	-	-	500,000	500,000



Proposed Capital Program

City of Petersburg, VA
 FY 2018 - 22 Proposed CIP

FY 2018 - FY 2022 Utilities

Project	Total Project		Proposed Budget			
	Budget	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Water Utility						
Water and Sewer Master Plan, Engineering and Modeling	100,000	-	100,000	-	-	-
Locks Booster Station Rehab and Upgrade	1,800,000	-	1,100,000	700,000	-	-
Water Meter Performance Contract (ongoing)	500,000	-	500,000	-	-	-
Lock's Water Line Replacement	2,160,000	2,160,000	-	-	-	-
Replace Distribution Mains	2,500,000	-	1,000,000	500,000	500,000	500,000
Mount Vernon Pump Station Rehab and Upgrade	1,100,000	400,000	-	-	700,000	-
Mount Vernon Tank Painting	580,000	-	580,000	-	-	-
Wagner Road Water Line	1,300,000	-	-	-	-	1,300,000
SCADA Implementation	130,000	130,000	-	-	-	-
Replace Water Transmission Mains	6,500,000	-	1,500,000	3,000,000	-	2,000,000
Water Meter Calibration/Replacement	500,000	-	200,000	100,000	100,000	100,000
New Public Works/Operations Facility (co-located)	1,700,000	-	-	850,000	850,000	-
Walnut Hill Tank Rehabilitation	400,000	-	-	-	400,000	-
Mercury Street Tank Rehabilitation	400,000	-	-	-	-	400,000
Jamestown Tank Rehabilitation	550,000	-	-	-	550,000	-
Halifax Tank Rehabilitation	550,000	-	-	-	550,000	-
Implement City Works	725,000	-	150,000	75,000	500,000	-
Equipment Replacement	750,000	-	500,000	250,000	-	-
WATER SUBTOTAL	22,245,000	2,690,000	5,630,000	5,475,000	4,150,000	4,300,000



Proposed Capital Program

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Proposed 5-Year Capital Program – FY 2018 - FY 2022 (Utilities) (cont.)

Project	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Wastewater Utility						
Poor Creek Force Main Replacement Design	250,000	250,000	-	-	-	-
Water and Sewer Master Plan Phase 3- Engineering and Modeling	100,000	-	100,000	-	-	-
Infiltration and Inflow Reduction	-	-	-	-	-	-
Main Station Upgrade Health and Safety	250,000	250,000	-	-	-	-
Main Pump Station pumps and motors	2,000,000	300,000	1,700,000	-	-	-
Poor Creek Force Main Phase I	1,750,000	1,750,000	-	-	-	-
Poor Creek Force Main Phase 2	1,225,000	-	1,225,000	-	-	-
Poor Creek Force Main Phase 3	795,000	-	795,000	-	-	-
Poor Creek Force Main Phase 4	435,000	-	435,000	-	-	-
Blackwater Creek Interceptor Upgrade	800,000	-	-	800,000	-	-
South Crater Interceptor Upgrade	1,300,000	-	500,000	-	800,000	-
\$CADImplementation	430,000	430,000	-	-	-	-
Infiltration and Inflow Study	350,000	-	350,000	-	-	-
Infiltration and Inflow Reduction Projects	13,150,000	280,000	5,370,000	2,500,000	2,500,000	2,500,000
Backup Generator at Main PS	400,000	-	400,000	-	-	-
Equipment replacement	1,750,000	-	500,000	250,000	-	1,000,000
New Public Works / Operations Facility (co-located)	850,000	-	-	-	850,000	-
Rehabilitate Rohoic Creek Pump Station	300,000	-	300,000	-	-	-
Pump Station Rehabilitation	4,000,000	-	1,000,000	1,000,000	1,000,000	1,000,000
Flow Monitoring	100,000	100,000	-	-	-	-
WASTEWATER SUBTOTAL	30,235,000	3,360,000	12,675,000	4,550,000	5,150,000	4,500,000
UTILITIES (WATER/WASTEWATER) TOTAL	52,480,000	6,050,000	18,305,000	10,025,000	9,300,000	8,800,000



Proposed Capital Program

City of Petersburg, VA
 FY 2018 - 22 Proposed CIP

FY 2018 - FY 2022 Transit

Project	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
Petersburg Area Transit						
Rolling Stock Expansion	68,000	68,000	-	-	-	-
Radios	20,000	20,000	-	-	-	-
Passenger Amenities	10,000	10,000	-	-	-	-
Shop Equipment	90,000	90,000	-	-	-	-
Other Capital	20,000	20,000	-	-	-	-
5307 SUBTOTAL	208,000	208,000	-	-	-	-
Bus Replacement	400,000	400,000	-	-	-	-
5339 SUBTOTAL	400,000	400,000	-	-	-	-
TRANSIT TOTAL	608,000	608,000	-	-	-	-



Proposed Capital Program

City of Petersburg, VA
 FY 2018 - 22 Proposed CIP

FY 2018 - FY 2022 Total

	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
GENERAL FUND TOTAL	10,300,300	-	2,477,500	2,469,900	2,629,900	2,723,000
STORMWATER TOTAL	1,000,000	-	-	-	500,000	500,000
UTILITIES TOTAL	52,480,000	6,050,000	18,305,000	10,025,000	9,300,000	8,800,000
TRANSIT TOTAL	608,000	608,000	-	-	-	-
GRAND TOTAL	64,388,300	6,658,000	20,782,500	12,494,900	12,429,900	12,023,000



Financing Plan

City of Petersburg, VA
 FY 2018 - 22 Proposed CIP

Proposed Financing Plan (Sources & Uses)

	Total Project Budget	Proposed Budget				
		FY 2018	FY 2019	FY 2020	FY 2021	FY 2022
USES						
GENERAL FUND TOTAL	10,300,300	-	2,477,500	2,469,900	2,629,900	2,723,000
STORMWATER TOTAL	1,000,000	-	-	-	500,000	500,000
UTILITIES TOTAL	52,480,000	6,050,000	18,305,000	10,025,000	9,300,000	8,800,000
TRANSIT TOTAL	608,000	608,000	-	-	-	-
TOTAL USES	64,388,300	6,658,000	20,782,500	12,494,900	12,429,900	12,023,000
SOURCES						
GENERAL OBLIGATION BONDS (for General Government and Schools)	8,318,400	-	1,315,000	1,902,000	2,378,400	2,723,000
QUALIFIED ZONE ACADEMY BONDS (QZAB) for Schools	1,981,900	-	1,162,500	567,900	251,500	-
STORMWATER UTILITY FEES	1,000,000	-	-	-	500,000	500,000
VRA BONDS (Approval Required for Utilities)	5,300,000	5,300,000	-	-	-	-
FEDERAL TRANSIT ADMINISTRATION (FTA)	278,000	278,000	-	-	-	-
STATE TRANSIT GRANT	289,000	289,000	-	-	-	-
LOCAL TRANSIT SHARE-TRANSFER FROM PAT	41,000	41,000	-	-	-	-
DEQ LOAN (for Utilities)	8,750,000	750,000	2,000,000	2,000,000	2,000,000	2,000,000
UTILITY REVENUE BONDS	38,430,000	-	16,305,000	8,025,000	7,300,000	6,800,000
TOTAL SOURCES	64,388,300	6,658,000	20,782,500	12,494,900	12,429,900	12,023,000



Capital Projects

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Capital Project Descriptions

The following section provides descriptions and an annual budget for each project included in the FY 2018 – FY 2022 Capital Improvement Program.





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: SCHOOLS

PROJECT: 15 New Schools Buses

PROJECT COST: \$1,303,900

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$0</u>
FUTURE YEAR: 2019	<u>\$303,000</u>
2020	<u>\$211,900</u>
2021	<u>\$556,000</u>
2022	<u>\$233,000</u>
TOTAL	<u>\$1,303,900</u>

FUNDING SOURCE: QZAB

PROJECT DESCRIPTION: This multi-year program provides for the replacement of aging vehicles with the acquisition of 15 new schools buses over four years beginning in 2019.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: FIRE / EMS

PROJECT: 800 MHz. Radio System Upgrades

PROJECT COST: \$1,186,000

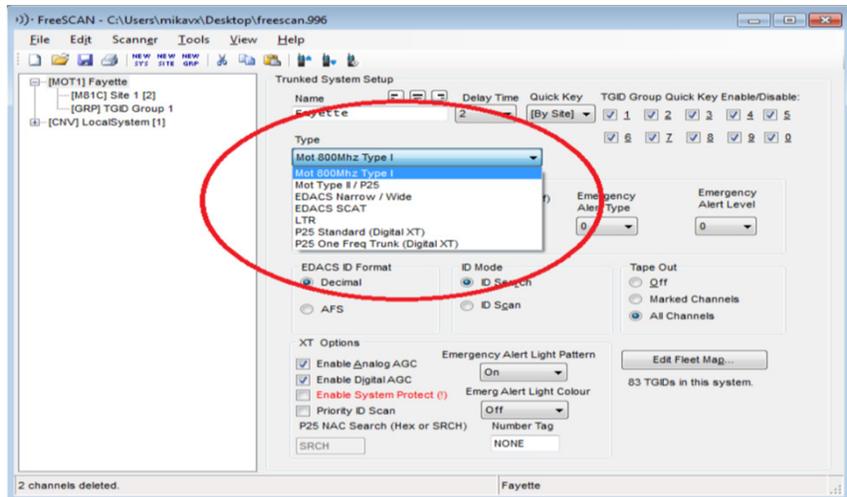
PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u> </u>
FUTURE YEAR: 2019	<u> </u> \$0
2020	<u> </u> \$186,000
2021	<u> </u> \$0
2022	<u> </u> \$1,000,000
TOTAL	<u> </u> \$1,186,000

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: In 2005, the City invested in a multi-million dollar citywide, state-of-the-art Digital Trunked Voice Over – IP (VOIP), P25 compliant 800 MHZ Radio System. Currently this system is behind in the manufactures recommended system release. The system should be update to the most current version every two years for highest efficiencies and to keep cost at a minimum. A remote dispatching enhancement provides an effective transition from its current location (Police Hdqts) to anywhere in the City. This enhancement allows for dispatching capabilities within the City’s Emergency Operations Center (EOC) if necessary (terrorism, significant weather).

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Backup Generator at Main Pump Station

PROJECT COST: \$400,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$400,000

2020 \$0

2021 \$0

2022 \$0

TOTAL \$400,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the installation of a new diesel generator at the main pump station to provide back up power for the facility during power outages. This project will improve reliability of the system and reduce or eliminate the potential for sanitary sewer overflows.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Blackwater Creek Interceptor Upgrade

PROJECT COST: \$800,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$800,000

2021 \$0

2022 \$0

TOTAL \$800,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the installation of a new gravity sewer pipe in the southern portion of Petersburg to increase capacity of the existing sewer system to support additional growth and development along the Route 301 corridor. This project was recommended in the 2009 master plan which was developed for the City of Petersburg.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Bus Replacement

PROJECT COST: \$400,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$400,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$400,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include the purchase of a single 30 ft. transit bus to rotate into the existing fleet.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: FIRE / EMS

PROJECT: Computer Aided Dispatch (CAD) Replacement / Upgrades

PROJECT COST: \$1,200,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018

FUTURE YEAR: 2019 \$600,000

2020 \$600,000

2021 \$0

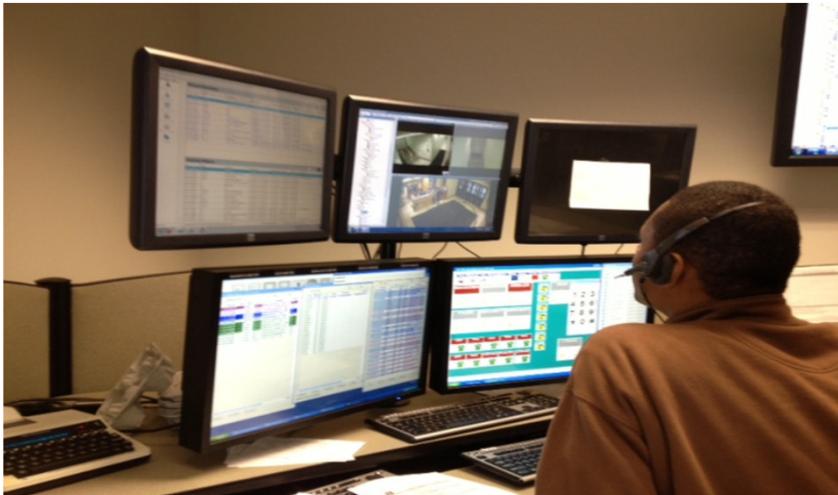
2022 \$0

TOTAL \$1,200,000

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: The current CAD System no longer meets our growing technological needs in public safety. Data tracking and storage is critical to meet the mission of all public safety entities in the City. This CAD "enhancement/upgrade" would include geographical information systems (GIS), and NextGen 911 (data/video transmission) technology.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PARKS AND LEISURE

PROJECT: Dogwood Trace Maintenance Facility

PROJECT COST: \$250,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$250,000

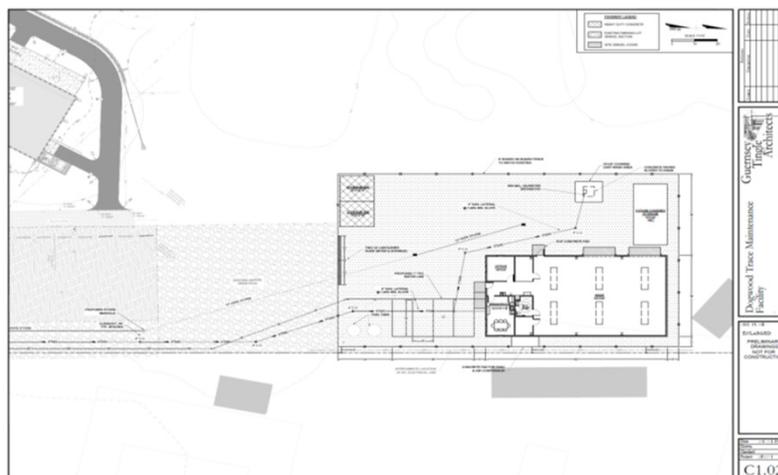
2022 \$0

TOTAL \$250,000

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: This project provides a steel 40' x 80' building to store and maintain golf course equipment and possible golf cart storage. This project is shovel ready.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Equipment Replacement

PROJECT COST: \$1,750,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$500,000

2020 \$250,000

2021 \$0

2022 \$1,000,000

TOTAL \$1,750,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves replacement of equipment for the Utility line division to repair, maintain and install sewer pipes at locations throughout the City. There is a need to replace dump trucks, excavators, backhoes and vector trucks which are used on a regular basis to complete routine and emergency repairs on the sewer pipes, manholes and pump stations which serve the residents and businesses of Petersburg.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: INFORMATION TECHNOLOGY

PROJECT: Financial Management System (Needs Analysis)

PROJECT COST: \$120,000

PREVIOUS APPROPRIATION:	<u>\$0</u>
BUDGET YEAR: 2018	<u>\$0</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$120,000</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$120,000</u>

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: Investigation of Financial/ERP system to replace BAI Municipal Software. BAI currently manages all City of Petersburg financial data and reporting. It is the financial system of record for the City. New system needs to include data storage and reporting for General Ledger, AP, Procurement, Payroll, Treasury, and Utilities.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Flow Monitoring

PROJECT COST: \$100,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$100,000

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

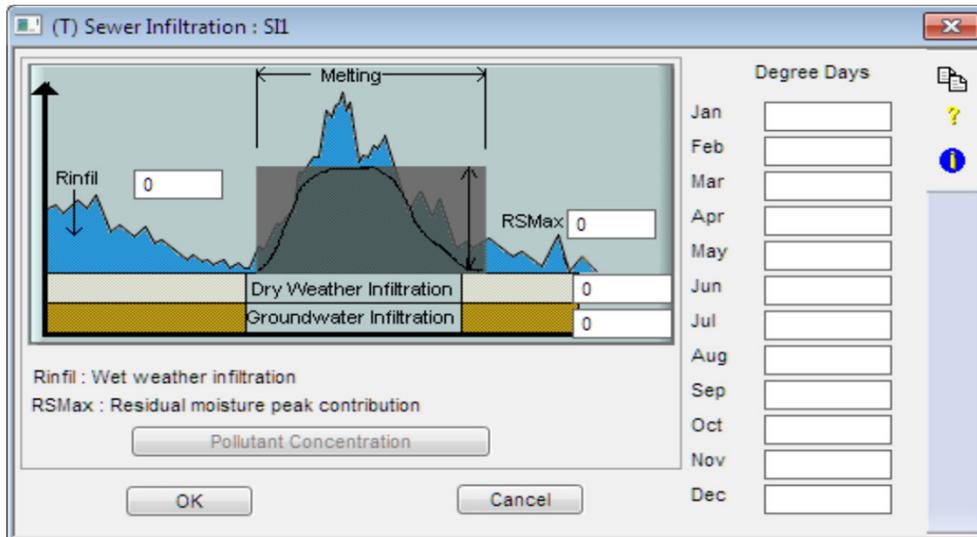
2022 \$0

TOTAL \$100,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves the program for sewer pipe flow monitoring to measure the extent of infiltration and inflow into the sanitary sewer system. This will be instrumental in determining the scope of future infiltration and inflow programming.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Halifax Street Tank Rehabilitation

PROJECT COST: \$550,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$550,000

2022 \$0

TOTAL \$550,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repainting the Halifax Street standing storage tank. These steel water storage tanks require a protective coating system to prevent rust, deterioration and loss of steel thickness due to excessive rust. A normal cycle for painting tanks is 10-15 years depending on service conditions. Failure to properly inspect, maintain and repair protective coatings to these tanks will result in leaks and ultimately failure of the steel structure. Previous coating inspections have confirmed no lead paint is present on any of the water storage tanks in the Petersburg Water System.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: FIRE / EMS

PROJECT: Handheld Public Safety Radios

PROJECT COST: \$1,920,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018

FUTURE YEAR: 2019 \$480,000

2020 \$480,000

2021 \$480,000

2022 \$480,000

TOTAL \$1,920,000

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: Current handheld portable radios no longer meet our growing technological public safety needs. The emergence of new "quad band" radios provides an opportunity to reduce the quantity of radios while increasing interoperability.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Implement CityWorks

PROJECT COST: \$725,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$150,000

2020 \$75,000

2021 \$500,000

2022 \$0

TOTAL \$725,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the City-wide launch of the CityWorks software platform for service request, work order and asset management capabilities. CityWorks is currently being developed for use by the Department of Public Works. Two divisions have been launched and two are being readied for training.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Infiltration and Inflow Reduction Projects

PROJECT COST: \$13,150,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$280,000</u>
FUTURE YEAR: 2019	<u>\$5,370,000</u>
2020	<u>\$2,500,000</u>
2021	<u>\$2,500,000</u>
2022	<u>\$2,500,000</u>
TOTAL	<u>\$13,150,000</u>

FUNDING SOURCE: VRA / DEQ / REVENUE BONDS

PROJECT DESCRIPTION: The project involves the continued program for sewer pipe replacement to decrease infiltration and inflow into the system as well as replacing pipes which have reached the end of their useful life. Projects to be completed under this program will be identified when a comprehensive infiltration and inflow study has been completed by the City.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Infiltration and Inflow Reduction

PROJECT COST: \$500,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$500,000

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

2022 \$0

TOTAL \$500,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves the study and implementation of an I & I program to address the overwhelming amount of stormwater entering the sanitary sewer system during rain events.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Infiltration and Inflow Study

PROJECT COST: \$350,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$350,000

2020 \$0

2021 \$0

2022 \$0

TOTAL \$350,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves a comprehensive evaluation of the City sewer system to identify the location and magnitude of infiltration and inflow entering the sewer system. Infiltration and Inflow is rainwater and groundwater which enters the sewer system through manholes, connection of roof drains to the sewer system and areas where storm drains are connected to the sewer system. Infiltration is groundwater which enters the sewer system through leaking pipes. This study will be a roadmap for future sewer replacement projects and will decrease the amount of rainwater which is conveyed to SCWWTP.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Jamestown Tank Rehabilitation

PROJECT COST: \$550,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$550,000

2022 \$0

TOTAL \$550,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repainting the Jamestown standing storage tank. These steel water storage tanks require a protective coating system to prevent rust, deterioration and loss of steel thickness due to excessive rust. A normal cycle for painting tanks is 10-15 years depending on service conditions. Failure to properly inspect, maintain and repair protective coatings to these tanks will result in leaks and ultimately failure of the steel structure. Previous coating inspections have confirmed no lead paint is present on any of the water storage tanks in the Petersburg Water System.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Locks Water Line Replacement

PROJECT COST: \$2,160,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$2,160,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$2,160,000</u>

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves replacement of 700 linear feet of 20" water transmission main which supplies water to the high zone and low zone of the Petersburg Water System. This main is the first transmission main directly downstream of the connection to the ARWA system. In the recent past there have been 4 water main breaks which have resulted in the need to turn off all water supply to the Petersburg water system. During periods of these service interruptions, the City must rely on water in the City Storage tanks to provide service to residents and business'. These repairs are very costly to complete.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Lockes Booster Station Rehabilitation and Upgrade

PROJECT COST: \$1,800,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$1,100,000

2020 \$700,000

2021 \$0

2022 \$0

TOTAL \$1,800,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repairing pumps piping and motor controls which have reached the end of their useful life. There is room for installation of a third pump at this facility. This pump station supplies water to the high zone of the water system and is used to fill Halifax tank and Industrial Park tank. The long term reliability of this facility is critical to providing uninterrupted service to customers and businesses, in the City. The water quality in the distribution system is also maintained with the use of this system by supplying the High Zone with water directly from ARWA.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Main Pump Station Pumps and Motors

PROJECT COST: \$2,000,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$300,000

FUTURE YEAR: 2019 \$1,700,000

2020 \$0

2021 \$0

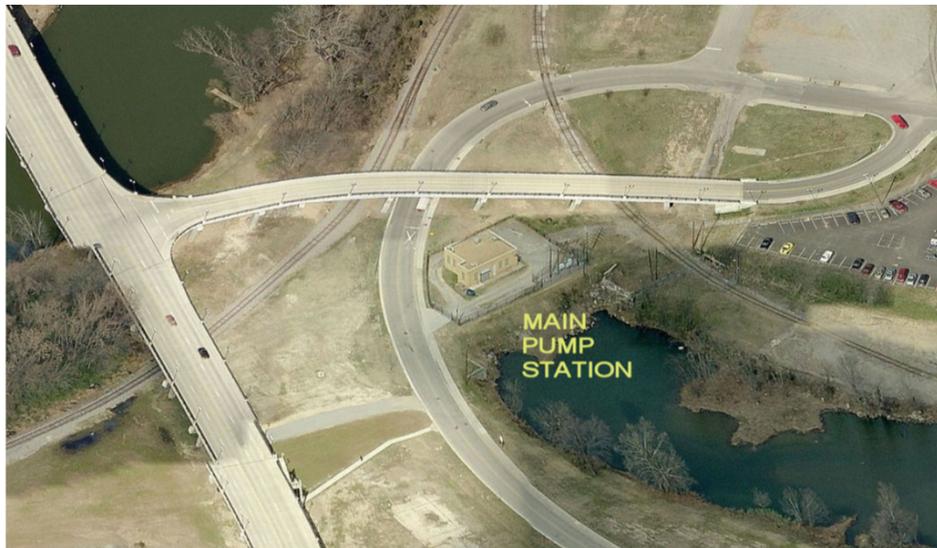
2022 \$0

TOTAL \$2,000,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves replacement of major equipment and piping in the main pump station. There is also a need to complete structural repairs to the building to prevent deterioration of this 70 year old structure. In addition the wetwell needs to be cleaned out and have a new protective coating applied to the concrete surfaces to prevent deterioration of the facility. While this work is being completed the flow from the facility needs to be diverted so work can be performed.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Main Pump Station Upgrade Health and Safety

PROJECT COST: \$250,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$250,000

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

2022 \$0

TOTAL \$250,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves improvements to the main pump station to improve the working conditions in this facility. There is a need to replace explosion proof wiring devices and fixtures, install safety features to improve working conditions for employees, repair the ventilation system so noxious gasses can be properly ventilated. Electrical upgrades, panels and controls are needed at several locations around the building to address code violations.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Mercury Street Tank Rehabilitation

PROJECT COST: \$400,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

2022 \$400,000

TOTAL \$400,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repainting the Mercury Street standing storage tank. These steel water storage tanks require a protective coating system to prevent rust, deterioration and loss of steel thickness due to excessive rust. A normal cycle for painting tanks is 10-15 years depending on service conditions. Failure to properly inspect, maintain and repair protective coatings to these tanks will result in leaks and ultimately failure of the steel structure. Previous coating inspections have confirmed no lead paint is present on any of the water storage tanks in the Petersburg Water System.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Mount Vernon Pump Station Rehabilitation and Upgrade

PROJECT COST: \$1,100,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$400,000

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$700,000

2022 \$0

TOTAL \$1,100,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project involves replacement of pumps, motors, piping and controls for the Mount Vernon water pumping station. This facility has a 5,900,000 gallon water storage tank which is filled by Appomattox River Water Authority on a continuous basis. Water from this storage tank supplies water to the downtown area of Petersburg and is the supply for this pump station to convey water to the Jamestown and Walnut Hill elevated water storage tanks. This facility is the secondary supply for the southern part of the city.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Mount Vernon Tank Painting

PROJECT COST: \$580,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$580,000

2020 \$0

2021 \$0

2022 \$0

TOTAL \$580,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repainting the Mount Vernon above-ground storage tank. These steel water storage tanks require a protective coating system to prevent rust, deterioration and loss of steel thickness due to excessive rust. A normal cycle for painting tanks is 10-15 years depending on service conditions. Failure to properly inspect, maintain and repair protective coating to these tanks will result in leaks and ultimately failure of the steel structure. Previous coating inspections have confirmed no lead paint is present on any of the water storage tanks in the Petersburg Water System.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: STORM WATER

PROJECT: Neighborhood Drainage Improvement Project - Construction

PROJECT COST: \$1,000,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$500,000

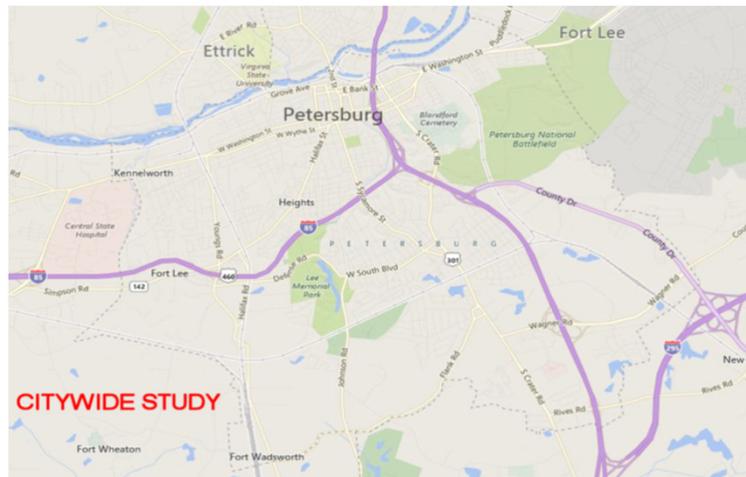
2022 \$500,000

TOTAL \$1,000,000

FUNDING SOURCE: STORMWATER MANAGEMENT FEES

PROJECT DESCRIPTION: Project will include construction activities based on the findings of the previously submitted engineering report that analyzes the best alternative(s) from the feasibility study and provides detailed recommendations for the design of specific drainage improvements for a targeted neighborhood known to have flooding issues and drainage problems.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: New Public Works / Operations Facility (co-located)

PROJECT COST: \$1,700,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$850,000

2021 \$850,000

2022 \$0

TOTAL \$1,700,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the construction of a new combined public works and utilities operations building. Current facilities are old and the utility line division staff is working out of the old water treatment plant property on Saint Andrews Street. The new facility will be constructed at the existing Public Works yard property. This project was originally identified in a previous Capital Program budget but has been deferred due to financial constraints.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: New Public Works / Operations Facility (co-located)

PROJECT COST: \$850,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$850,000

2022 \$0

TOTAL \$850,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the construction of a new combined public works and utilities operations building. Current facilities are old and the utility line division staff is working out of the old water treatment plant property on Saint Andrews Street. The new facility will be constructed at the existing Public Works yard property. This project was originally identified in a previous Capital Program budget but has been deferred due to financial constraints.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Other Capital

PROJECT COST: \$20,000

PREVIOUS APPROPRIATION:	<u>\$0</u>
BUDGET YEAR: 2018	<u>\$20,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$20,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include surveillance cameras that meet or exceed FTA standards.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Passenger Amenities

PROJECT COST: \$10,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$10,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$10,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include the purchase and installation of bus stop shelters and benches to be installed at various locations within the City.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: SCHOOLS

PROJECT: Petersburg High School Boiler Replacement

PROJECT COST: \$180,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u> </u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$180,000</u>
2022	<u>\$0</u>
TOTAL	<u>\$180,000</u>

FUNDING SOURCE: QZAB

PROJECT DESCRIPTION: This project replaces an existing primary boiler unit with a high efficiency model.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Poor Creek Force Main- Phase 1

PROJECT COST: \$1,750,000

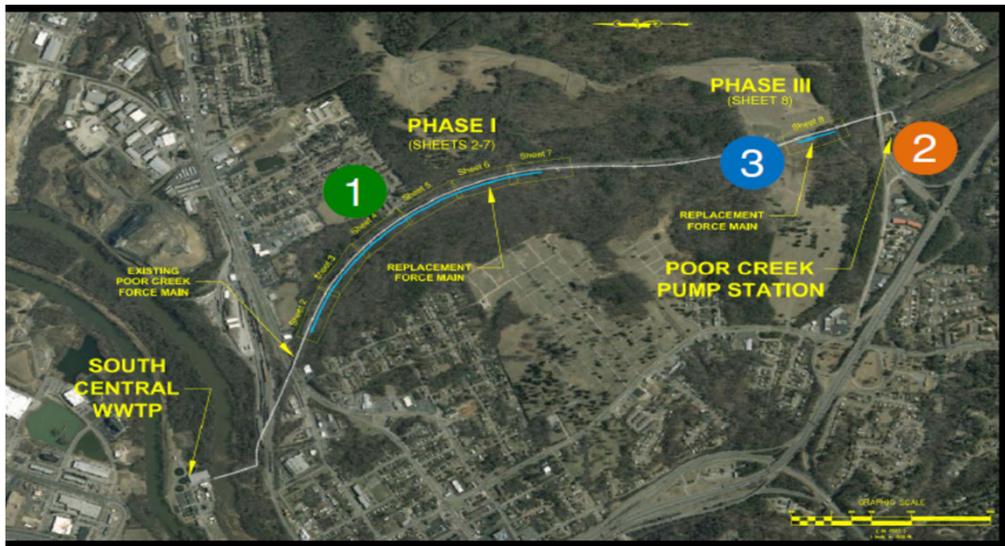
PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	\$1,750,000
FUTURE YEAR: 2019	\$0
2020	\$0
2021	\$0
2022	\$0
TOTAL	\$1,750,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project is a multi year project to relocate the existing 24" sewer force main out of the Petersburg National Battlefield into an alignment along Route 301 and existing city rights of way and property. An evaluation of this project has been completed for the City and has identified the need for replacement of this pipe. Work in the battlefield property would entail costly environmental impact studies and archaeological investigations before construction could begin so the alignment has been moved outside Battlefield property.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Poor Creek Force Main- Phase 2

PROJECT COST: \$1,225,000

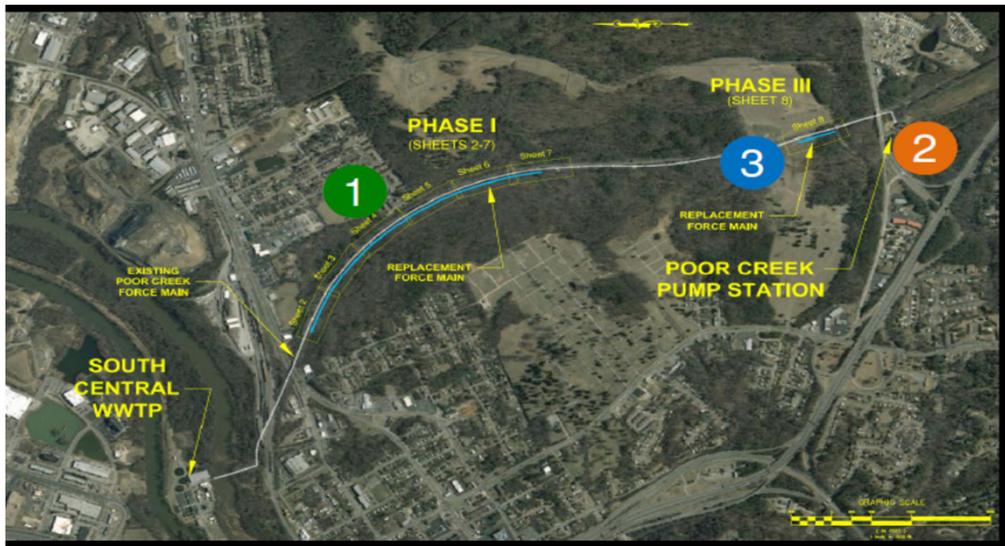
PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	\$0
FUTURE YEAR: 2019	\$1,225,000
2020	\$0
2021	\$0
2022	\$0
TOTAL	\$1,225,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project is a multi year project to relocate the existing 24" sewer force main out of the Petersburg National Battlefield into an alignment along Route 301 and existing city rights of way and property. An evaluation of this project has been completed for the City and has identified the need for replacement of this pipe. Work in the battlefield property would entail costly environmental impact studies and archaeological investigations before construction could begin so the alignment has been moved outside Battlefield property.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Poor Creek Force Main- Phase 3

PROJECT COST: \$795,000

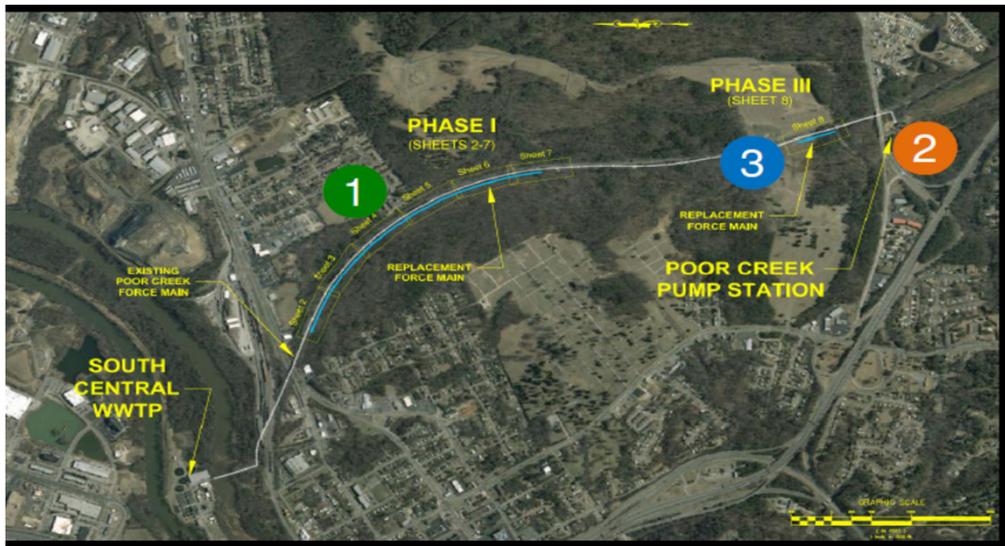
PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	\$0
FUTURE YEAR: 2019	\$795,000
2020	\$0
2021	\$0
2022	\$0
TOTAL	\$795,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project is a multi year project to relocate the existing 24" sewer force main out of the Petersburg National Battlefield into an alignment along Route 301 and existing city rights of way and property. An evaluation of this project has been completed for the City and has identified the need for replacement of this pipe. Work in the battlefield property would entail costly environmental impact studies and archaeological investigations before construction could begin so the alignment has been moved outside Battlefield property.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Poor Creek Force Main- Phase 4

PROJECT COST: \$435,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$435,000

2020 \$0

2021 \$0

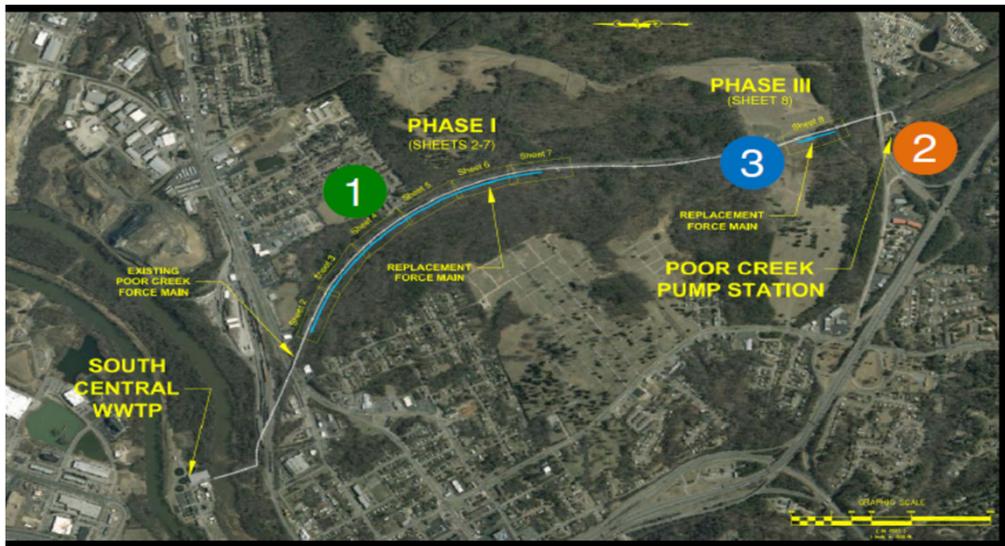
2022 \$0

TOTAL \$435,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project is a multi year project to relocate the existing 24" sewer force main out of the Petersburg National Battlefield into an alignment along Route 301 and existing city rights of way and property. An evaluation of this project has been completed for the City and has identified the need for replacement of this pipe. Work in the battlefield property would entail costly environmental impact studies and archaeological investigations before construction could begin so the alignment has been moved outside Battlefield property.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Poor Creek Force Main - Replacement Design

PROJECT COST: \$250,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$250,000

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

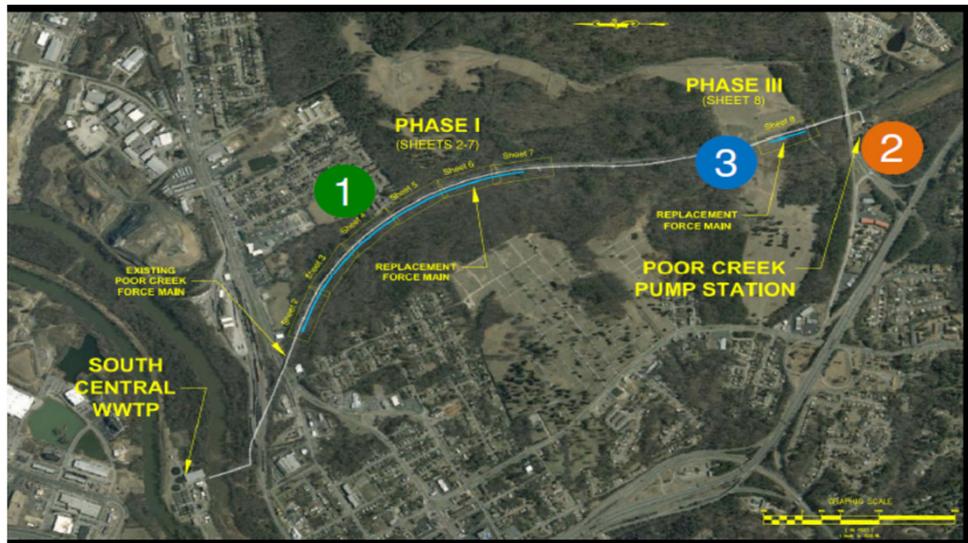
2022 \$0

TOTAL \$250,000

FUNDING SOURCE: VRA / DEQ

PROJECT DESCRIPTION: The project is a multi year project to relocate the existing 24" sewer force main out of the Petersburg National Battlefield into an alignment along Route 301 and existing city rights of way and property. An evaluation of this project has been completed for the City and has identified the need for replacement of this pipe. Work in the battlefield property would entail costly environmental impact studies and archaeological investigations before construction could begin so the alignment has been moved outside Battlefield property.

PHOTO / MAP:





**CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM**

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Pump Station Rehabilitation

PROJECT COST: \$4,000,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$1,000,000

2020 \$1,000,000

2021 \$1,000,000

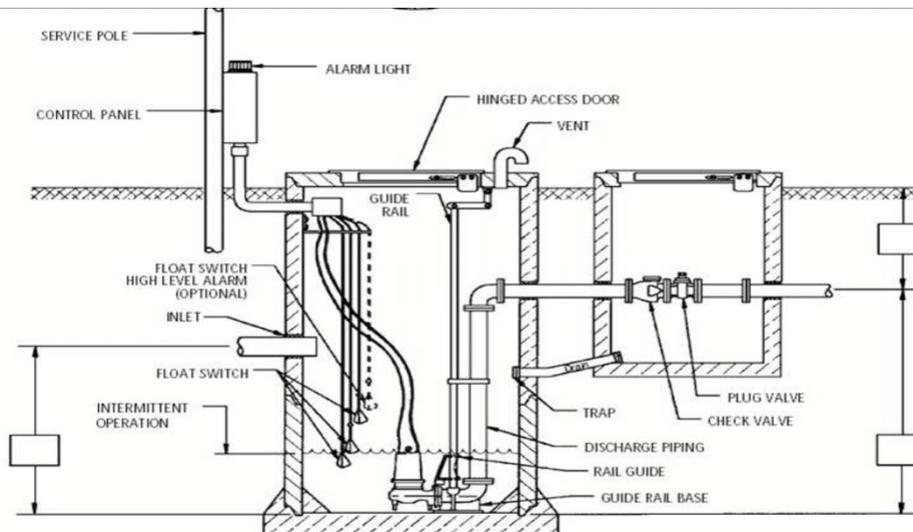
2022 \$1,000,000

TOTAL \$4,000,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project includes replacement or rehabilitation of existing sewer pump stations around the City of Petersburg. Many of the existing facilities are old and are reaching the end of their useful life. Improvements include replacement of pumps, motors, controls, piping, and structures. This will be an ongoing program until the existing facilities have been upgraded to provide reliable operation.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Radios

PROJECT COST: \$20,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$20,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$20,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include the purchase and installation of vehicle mounted and hand-held Motorola radios.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Rehabilitate Rohoic Creek Pump Station

PROJECT COST: \$300,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$300,000

2020 \$0

2021 \$0

2022 \$0

TOTAL \$300,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project includes replacement or rehabilitation of Rohoic Creek pump station. The existing facility is old and reaching the end of its useful life. Improvements include replacement of pumps, motors, controls, piping, and structures. .

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Replace Water Transmission Mains

PROJECT COST: \$6,500,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$1,500,000

2020 \$3,000,000

2021 \$0

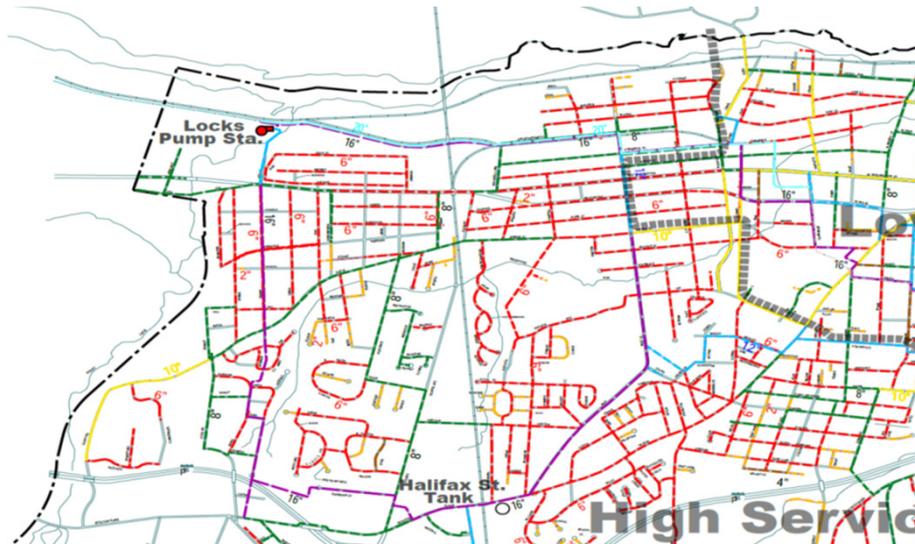
2022 \$2,000,000

TOTAL \$6,500,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the systematic analysis, design and replacement of large capacity water transmission lines traversing the City. These lines are vital to the safe and effective delivery of potable water to the citizens of the City of Petersburg.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Rolling Stock Expansion

PROJECT COST: \$68,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$68,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$68,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include the acquisition of a nineteen (19) passenger bus with wheelchair lift.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PETERSBURG AREA TRANSIT

PROJECT: Shop Equipment

PROJECT COST: \$90,000

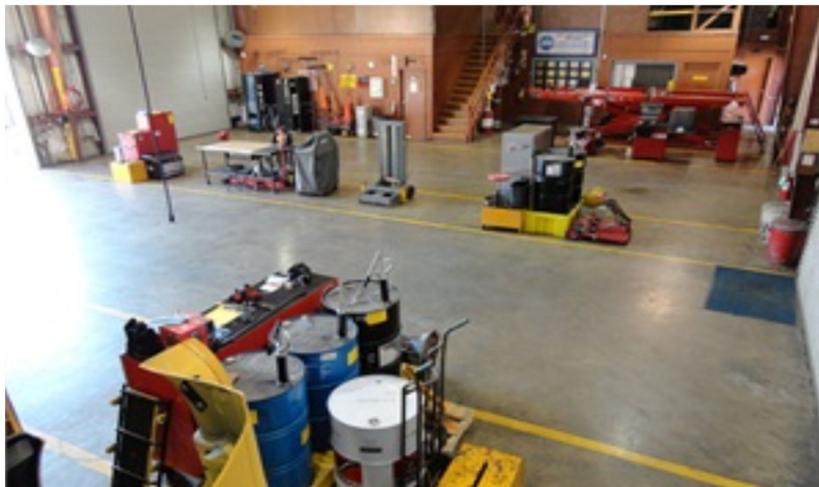
PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$90,000</u>
FUTURE YEAR: 2019	<u>\$0</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$90,000</u>

FUNDING SOURCE: STATE / FEDERAL GRANTS

PROJECT DESCRIPTION: Project will include the acquisition of various industrial use vehicle maintenance shop machines, tools and equipment.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: South Crater Interceptor Upgrade

PROJECT COST: \$1,300,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$500,000

2020 \$0

2021 \$800,000

2022 \$0

TOTAL \$1,300,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the installation of a new gravity sewer pipe in the southern portion of Petersburg to increase capacity of the existing sewer system to support additional growth and development along the Route 301 corridor. This project was recommended in the 2009 master plan which was developed for the City of Petersburg.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Wagner Road Water Line

PROJECT COST: \$1,300,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$0

2022 \$1,300,000

TOTAL \$1,300,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the extension of the existing 12" water line to provide increased capacity and flow to the southwest quadrant of the City to facilitate increased commercial growth.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Walnut Hill Tank Rehabilitation

PROJECT COST: \$400,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$0

2020 \$0

2021 \$400,000

2022 \$0

TOTAL \$400,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves repainting the Walnut Hill standing storage tank. These steel water storage tanks require a protective coating system to prevent rust, deterioration and loss of steel thickness due to excessive rust. A normal cycle for painting tanks is 10-15 years depending on service conditions. Failure to properly inspect, maintain and repair protective coatings to these tanks will result in leaks and ultimately failure of the steel structure. Previous coating inspections have confirmed no lead paint is present on any of the water storage tanks in the Petersburg Water System.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - SEWER

PROJECT: Water and Sewer Master Plan Phase 3 - Engineering and Modeling

PROJECT COST: \$100,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$100,000

2020 \$0

2021 \$0

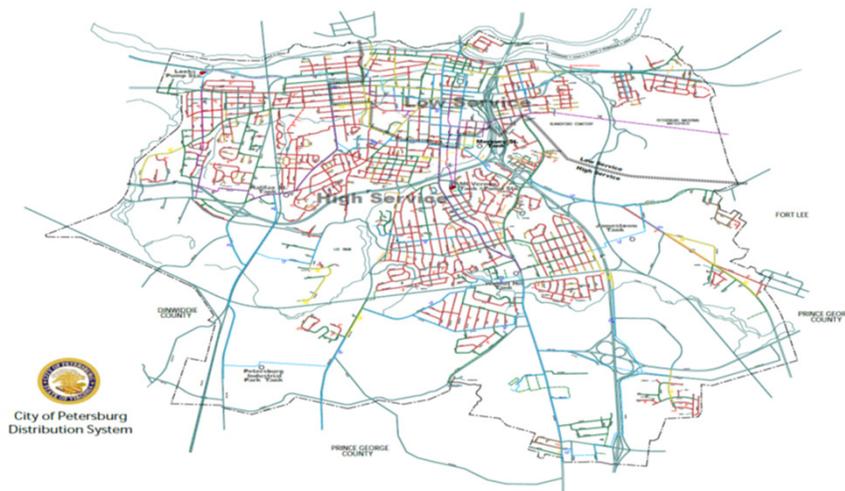
2022 \$0

TOTAL \$100,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The program will be coordinated with the City Master Water Plan and will take a comprehensive look at the existing system, capacity, improvement needs and identify projects for construction. This study will also look at potential development corridors and make recommendations on system capacity improvements necessary to support continued growth and economic development.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Water and Sewer Master Plan - Engineering and Modeling

PROJECT COST: \$100,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$100,000

2020 \$0

2021 \$0

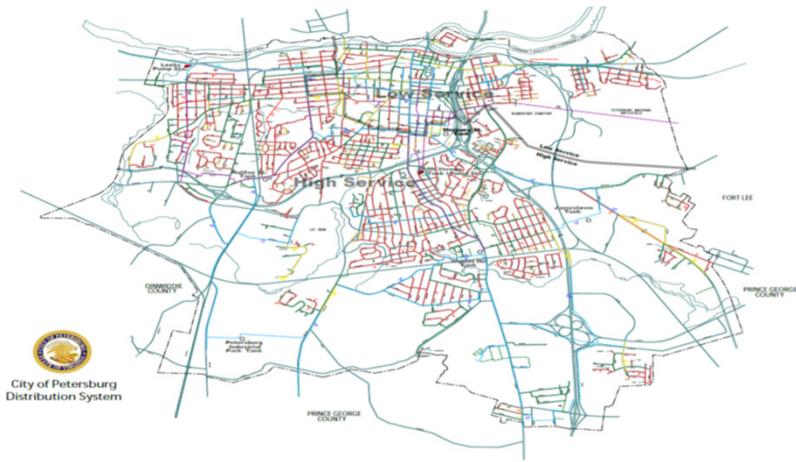
2022 \$0

TOTAL \$100,000

FUNDING SOURCE: UNIDENTIFIED

PROJECT DESCRIPTION: The project involves developing a comprehensive master plan for all water and wastewater projects needed to replace aging infrastructure which has reached the end of its useful life. Projects to be identified in conjunction with this master plan will include water pump station upgrade needs, water storage tank painting, repair and improvements to increase reliability of the storage facilities. Water transmission and distribution mains are also in need of replacement. Some of these mains experience frequent breaks which result in costly repairs and expose the city to potential interruption of service. Loss of water pressure to certain business' including SMRC could result in potential life threatening conditions for patients in need of critical health care. Waste water system improvements include necessary repairs to sewer pump stations which have reached the end of their useful life as well as gravity collection sewer pipes and force mains which could fail resulting in sanitary sewer overflows.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Replace Distribution Mains

PROJECT COST: \$2,500,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$1,000,000

2020 \$500,000

2021 \$500,000

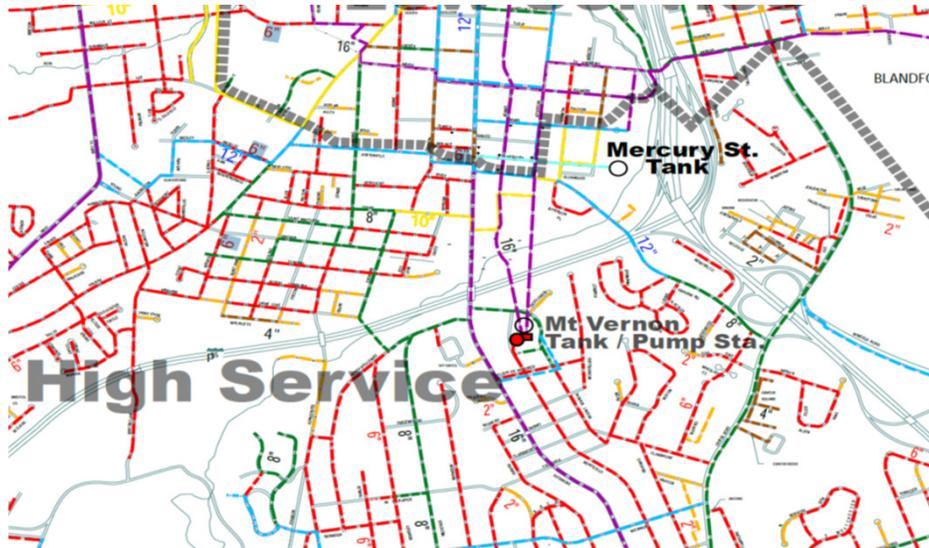
2022 \$500,000

TOTAL \$2,500,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves systematic replacement of water distribution mains which have reached the end of their useful life. In conjunction with recommendations of city staff, review of water main break history and as recommended in the Master plan, water distribution mains will be replaced around the city. The age of the water mains and ability to provide adequate pressure for fire protection will also be taken into consideration. A review of potential growth corridors and economic development opportunities also needs to be considered as these system replacements are scheduled.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES - WATER

PROJECT: Water Meter Calibration / Replacement

PROJECT COST: \$500,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$200,000

2020 \$100,000

2021 \$100,000

2022 \$100,000

TOTAL \$500,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves the ongoing testing and replacement of existing cubic feet water meters as well as the annual preventative maintenance required to enable accurate water consumption readings from recently installed automatic read meters.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: PUBLIC UTILITIES -WATER

PROJECT: Water Meter Performance Contract

PROJECT COST: \$500,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018 \$0

FUTURE YEAR: 2019 \$500,000

2020 \$0

2021 \$0

2022 \$0

TOTAL \$500,000

FUNDING SOURCE: REVENUE BONDS

PROJECT DESCRIPTION: The project involves annual water meter removal, calibration and installation for customers with large diameter meters. These meter installations account for the highest per capita water consumption and revenue generation potential for water and wastewater revenue. This program should focus on the largest meters with the highest per capita consumption and be performed on an annual basis.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: SCHOOLS

PROJECT: Westview Elementary School Window Replacement

PROJECT COST: \$340,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u>\$0</u>
FUTURE YEAR: 2019	<u>\$340,000</u>
2020	<u>\$0</u>
2021	<u>\$0</u>
2022	<u>\$0</u>
TOTAL	<u>\$340,000</u>

FUNDING SOURCE: QZAB

PROJECT DESCRIPTION: This project includes replacement of existing windows to provide energy efficient windows.

PHOTO / MAP:





CAPITAL IMPROVEMENT PROGRAM
SUBMITTAL FORM

CATEGORY: FACILITIES

PROJECT: Wilcox Lake Irrigation System

PROJECT COST: \$70,000

PREVIOUS APPROPRIATION: \$0

BUDGET YEAR: 2018	<u> </u>
FUTURE YEAR: 2019	<u> \$0</u>
2020	<u> \$0</u>
2021	<u> \$70,000</u>
2022	<u> \$0</u>
TOTAL	<u> \$70,000</u>

FUNDING SOURCE: GENERAL OBLIGATION BONDS

PROJECT DESCRIPTION: This project includes installation of an irrigation system to provide for the restoration of the historic gardens and meadow site.

PHOTO / MAP:





Definitions

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Capital Budget Definitions

Capital Projects include the acquisition, design, construction, replacement, renovation or extension of the useful life of a capital asset.

Capital Assets include:

- Land
- Buildings
- Water and Wastewater Utility Infrastructure
- Technology Systems
- Streets
- Parks
- Schools
- Buses
- Fire Apparatus
- Stormwater Infrastructure

Capital Expenditures eligible for inclusion in Capital Budget include:

- Architectural design, engineering, planning, programming and contract management services
- Major maintenance projects costing more than \$25,000 with a useful life of at least 10 years
- Major vehicles such as buses and fire apparatus with a useful life of at least 10 years
- New construction, renovation, expansion or replacement projects costing in excess of \$50,000
- Land acquisition for public purposes
- Major equipment, such as radio systems and information technology systems



CIP Process

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Capital Improvement Program Process

The following is a summary of the process and calendar the City follows to develop, review and adopt the Capital Improvement Program:

November – City Manager determines availability of CIP funding based on financial policies established by City Council.

December – City Departments submit capital project requests, with priority given to projects that have already been included in the 5-Year Capital Improvement Program.

January – City Manager’s team compiles requests, reviews and prioritizes projects, and develops a draft plan.

February – City Manager completes Proposed Budget and CIP and submits it to the City Planning Commission for its review and recommendations.

March – The Proposed Budget and CIP is presented to Council.

March – City Council holds work sessions on the Capital Budget with the City Administration.

March – City Council Holds a public hearing on the Proposed Budget.

April – City Council adopts the Capital Budget Ordinance and CIP as part of the annual financial plan.

July – The Capital Budget becomes effective on the first day of the new fiscal year.



Funding Sources

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Capital Funding Sources

The FY 2018 – FY 2022 Capital Improvement Program is funded by the following sources:

General Obligation Bonds – Payments from the proceeds of the sale of General Obligation Bonds, which pledge the full faith and credit of the City for their repayment.

Utility Revenue Bonds – Payments from the proceeds of the sale of revenue bonds which pledge the revenue generating potential of the Utility System.

Stormwater Utility Fee – Dedicated source of funding for stormwater projects that is collected on the utility bills.

Virginia Resource Authority Bonds (VRA) – Funding that is provided through debt issuances of this state agency on behalf of counties, cities and towns.

Qualified Zone Academy Bonds (QZAB) – U.S. Government debt instruments created under the Tax Relief Act of 1997 that allows qualified schools to borrow at below market interest rates (as low as zero percent) for equipment, renovation and rehabilitation projects.

Pay-Go- Revenues available from the General Fund annually dedicated to fund capital projects with cash rather than debt, often referred to as “pay-as-you-go” funding.

Federal Transit Administration (FTA) – Grant funds provided by the Federal Government for eligible transit projects.

State Transit Grant – Grant funds provided by the Commonwealth of Virginia for transit projects.

DEQ Loan – Loan funds provided to localities for eligible purposes by the Virginia Department of Environmental Quality at below market interest rates.



Financial Policies

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Financial Policies

The City of Petersburg's financial policies described in this section were adopted by City Council in September 2014 with additional changes adopted by motion in January 2017. During the budget process, City leadership will bring forward ordinances for Council to adopt related to these policies.

Financial policies are the tools to ensure that the City is financially able to meet its immediate and long-term service objectives. The policies are guidelines for both the financial planning and internal financial management of the City. The City is accountable to its citizens for the use of public dollars. These funds must be carefully used and managed to ensure adequate funding for the programs, services, and infrastructure needed to meet the community's current and future needs.

The policies below are those related to the capital budget only. To see the City's financial policies in their entirety, see the Financial Policies section of the FY 2018 Proposed Operating Budget.

Capital Improvement Budget Policies

The City will develop a five-year Capital Improvement Plan which will serve as the basis for planning and prioritizing the City's capital improvement needs based on affordability and compliance with Debt and Reserve Policies. The Capital Improvement Plan will only include projects with identified and known realistic funding sources. The City will identify the estimated costs and potential funding sources for each capital project proposal before it is submitted for approval.

1. The City will consider all capital improvements in accordance with an adopted Capital Improvement Plan.
2. The City, in consultation with the City of Petersburg Public School System, will develop a five-year Capital Improvement Plan that includes funding sources and uses and review and update the plan annually.
3. The City will enact an Annual Capital Budget based on the five-year Capital Improvement Plan. The first year of the Capital Improvement Plan will be used as the basis for the Annual Capital Budget.
4. The City will coordinate development of the Annual capital Budget with development of the operating budget. Future operating costs associated with new capital improvements will be projected and included in operating budget forecasts.
5. The City will maintain all its assets at a level adequate to protect the City's capital investment and to minimize future maintenance and replacement costs.
6. The City will project its equipment replacement and maintenance needs in conjunction with the five-year Capital Improvement Plan and will develop a maintenance and replacement schedule to be followed.



Financial Policies

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

7. The City will attempt to determine the least costly and most flexible financing method for all new projects.
8. The City will target a minimum amount of equity (e.g. cash pay-as-you-go) funding of 5% of the General Fund-supported Capital Improvement Plan on a five-year rolling average after reaching the Unassigned Fund Balance Policy Goal.

Debt Policies

The City will take on, manage and repay debt according to the following debt policies:

1. The City will confine long-term borrowing to capital improvement or projects that cannot be financed from current revenues except where approved justification is provided.
2. When the City finances capital improvements or other projects by issuing bonds or entering into capital leases, it will repay the debt within a period not to exceed the expected useful life of the project. Target debt ratios will be annually calculated and included in the review of financial trends.
3. Direct Net Debt as a percentage of estimated market value of all taxable property shall not exceed a range of 4.0% to 4.5%. Direct Net Debt is defined as any and all debt that is tax-supported. This ratio will be measured annually.
4. The ratio of Direct Net Debt Service expenditures as a percent of Total Governmental Fund Expenditures should not exceed 10%. Direct Net Debt Service is defined as any and all debt service that is tax-supported. Utility Fund debt service that is self-supporting shall be excluded. Total Governmental Fund Expenditures includes the General Fund and School Component Unit Expenditures less the local government transfer. This ratio will be measured annually.
5. Payout of aggregate outstanding tax-supported Direct Net Debt principal shall be no less than 50% repaid in 10 years.
6. The City recognizes the importance of underlying and overlapping debt in analyzing financial condition. The City will regularly analyze total indebtedness including underlying and overlapping debt.
7. Where feasible, the City will explore the usage of special assessment, revenue, or other self-supporting bonds instead of general obligation bonds.
8. The City will retire tax anticipation debt, if any, annually.



Debt Ratios

City of Petersburg, VA
FY 2018 - 22 Proposed CIP

Debt Ratios

Debt Policy	Policy	Actual
Debt Service as a Percentage of General Government Expenditures (General Fund and School Fund) less Transfers will not exceed 10%	< or = 10.00%	5.49%
Debt as a Percentage of the Assessed Value of Real Estate in the City will not exceed 4.5%	< or = 4.50%	2.19%