

**Town of Blacksburg, Virginia**

**ADOPTED  
CAPITAL IMPROVEMENT  
PROGRAM**

Fiscal Years 2019/2020-2023/2024



# Town of Blacksburg

**FY 2019/2020-2023/2024**

## **Adopted Capital Improvement Program**

### **Town Council**

Leslie Hager-Smith, Mayor  
Susan Anderson, Vice Mayor  
John Bush  
Lauren Colliver  
Jerry R. Ford, Jr  
Susan Mattingly  
Michael Sutphin

### **Town Administrative Staff**

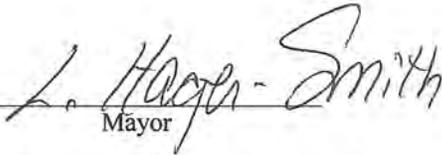
Town Manager - Marc A. Verniel  
Deputy Town Manager – Christopher S. Lawrence  
Deputy Town Manager – Steven F. Ross  
Assistant to the Town Manager / Housing Director- Matthew T. Hanratty  
Town Attorney – Lawrence S. Spencer, Jr.  
Town Clerk - Donna W. Boone-Caldwell  
Director of Financial Services - Susan H. Kaiser  
Fire Chief - Drew Smith  
Director of Parks and Recreation - Dean B. Crane  
Director of Planning and Building – Anne L. McClung  
Director of Engineering and GIS – S. Randy Formica  
Chief of Police – Anthony S. Wilson  
Community Relations Manager - Heather D. Browning  
Human Resources Manager – M. Elaine Gill  
Director of Public Works - S. Kelly Mattingly  
Rescue Chief – David English  
Director of Technology - Steven B. Jones  
Transit Director – Thomas D. Fox

RESOLUTION 1-G-19

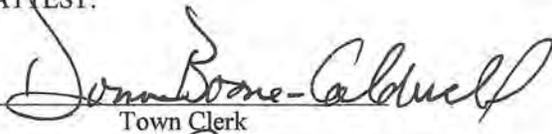
A RESOLUTION ADOPTING THE CAPITAL IMPROVEMENT  
PROGRAM FOR FY2019/2020 THROUGH FY2023/2024

BE IT RESOLVED by the Council of the Town of Blacksburg that this Council adopts the Capital Improvement Program for Fiscal Years 2019/2020 through 2023/2024, a copy of which is on file in the Office of the Town Clerk, with the following project added:

Project – Huckleberry Trail Bridge-Sheffield Drive for \$4,134,000 in FY23 and FY24.

  
\_\_\_\_\_  
Mayor

ATTEST:

  
\_\_\_\_\_  
Town Clerk

Date of Adoption: January 22, 2019

RESOLUTION 6-D-19

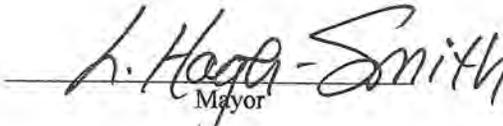
A RESOLUTION AMENDING THE ADOPTED CAPITAL IMPROVEMENT  
PROGRAM FOR FY2019/2020 THROUGH FY2023/2024

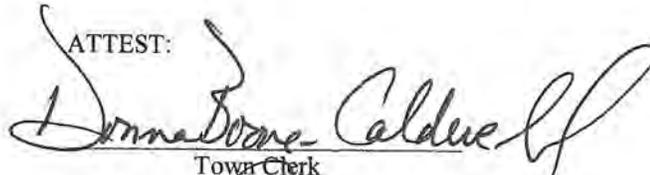
BE IT RESOLVED that the Council of the Town of Blacksburg adopted the Capital Improvement Program for Fiscal Years 2019/2020 through 2023/2024 on January 22, 2019;

BE IT FURTHER RESOLVED that the Council of the Town of Blacksburg wishes to amend the adopted Capital Improvement Program for Fiscal Years 2019/2020 through 2023/2024 with the following projects added:

- VDOT Revenue Sharing Project for the Old Blacksburg Middle School Cycle Track for \$700,000 in FY21.
- VDOT Revenue Sharing Project for the Old Blacksburg High School Public Roads for \$2,100,000 in FY21.

A copy of the Amended Adopted Capital Improvement Program for Fiscal Years 2019/2020 through 2023/2024 is on file in the Office of the Town Clerk.

  
Mayor

ATTEST:  
  
Town Clerk

Date of Adoption: June 25, 2019

November 27, 2018

The Honorable Mayor and Members of Town Council  
Members of the Planning Commission  
Town of Blacksburg  
300 South Main Street  
Blacksburg, VA 24060

Dear Mayor, Members of Town Council and Members of the Planning Commission:

It is our pleasure to present to you the *Recommended FY 2020-2024 Capital Improvement Program (CIP)* for your review and consideration. The CIP provides a snapshot of the Town's current financial condition, projects future revenues and expenditures, and plans for major capital expenditures over the next five years. The projects recommended in the CIP are guided by Town Council's Strategic Goals, the Comprehensive Plan, needs identified by operating departments and feedback from citizens. When developing this plan community growth, infrastructure maintenance, and funding availability were considered. Projects recommended in the CIP support a quality of life that encourages people to want to live, visit, and do business in Blacksburg.

In addition to planning for anticipated community growth and ensuring that current capital maintenance needs are addressed, the CIP continues to set aside funds in a capital reserve for future projects of significance. The CIP maintains a fund balance of at least 10% in the General Fund consistent with the Town's financial policies while also ensuring regulatory requirements are met, projects are fully funded with appropriate contingencies, and recurring operating costs are considered.

The CIP is developed with Town Council's strategic goals in mind. Town Council's strategic goal areas are listed below with major capital projects supporting those goals.

### **Town Council Strategic Goals**

#### **Proactively plan for community growth**

- Bicycle Facility Implementation Plan
- Old Blacksburg Middle School to Huckleberry Trail Bicycle and Pedestrian Connection
- Clay Street Sidewalk and Roadway Improvements
- Prices Fork Road and Route 460 By-Pass Interchange Study
- Toms Creek Road Traffic Study
- Blacksburg Transit Bus Expansion Program

#### **Update the Comprehensive Plan and Zoning Ordinance to reflect a changing community**

- Projects related to this goal are included in the Operating Budget

#### **Plan for downtown redevelopment and public parking**

- Draper Road Streetscape Improvements
- Progress Street Parking Garage

### **Expand recreational opportunities**

- New Hand In Hand Playground
- Huckleberry Trail Extension at South Point Park
- Blacksburg Community Center Major Renovation
- Industrial Park Trail and Sidewalk

### **Continuing Community Values**

#### **Environmental Sustainability**

- Storm Water Management Projects
- Town Facility Energy Efficiency Upgrades
- Water and Sewer Projects
- Blacksburg Transit Projects

#### **Neighborhood Quality**

- Street Paving Program
- Streetlight Installation
- Curb, Gutter, and Sidewalk Projects

#### **Affordable Housing**

- Projects related to this goal are included in the Operating Budget

#### **Regional Cooperation**

- Blacksburg Transit Christiansburg Program
- ROAM Bike Share

### **Old Blacksburg Middle School and Old Blacksburg High School Properties**

The Town continues to collaborate with the owners of the Old Blacksburg Middle School (OBMS) property on an agreement to partner on a redevelopment project for the site. The new police station is planned for the site, in addition to a privately funded mixed-use development consisting of hotel, office, retail, restaurant, and housing uses. A combination of public and private funds are being discussed to fund a public parking garage and public plaza spaces to support the mixed use project. Current financial projections used for the CIP only include debt service for the new police station. The debt service funding for the remaining public portions of the OBMS project is anticipated to be generated by new tax revenues derived from the redevelopment. These revenues are not currently included in the financial projections. Updated projections will be provided as final details of the project are negotiated.

The Town is still interested in acquiring a portion of the Old Blacksburg High School (OBHS) property for a new recreation center. A recreation center and aquatic center master plan was funded last year. No funding is included in this CIP to purchase the OBHS property or construct a new recreation center. If the opportunity presents itself to purchase the property and construct a recreation center, additional revenues will be necessary. User fees and increased

tax rates will need to be explored as potential revenue sources to finance a major project of the scale of a new recreation center.

**Financing the Capital Improvement Program**

The Town’s financial policies, “Principles of Sound Financial Management,” provide the broad framework for the overall fiscal planning and management of Town resources. These policies, reviewed every two years, guide the development of a fiscally responsible CIP and Budget. A copy of the “Principles of Sound Financial Management” can be found in the Financial Analysis and Tables section of this document.

Revenue from the General Fund, Enterprise Funds, Special Revenue Funds, and general obligation bonds provide funding for capital projects. Bond funds are used as a secondary funding source for long-term projects. Federal and State sources are also used to fully or partially fund capital projects.

**Revenue and Expenditure Assumptions**

The CIP evaluates the Town’s financial capacity to ensure adequate funding is available to maintain current service levels while also being able to support the recommended capital projects. The evaluation of the Town’s financial capacity to support the recommended projects involves projecting future revenues and expenditures based on what is known today and expected in the future. While fiscally conservative, the projections include growth at Virginia Tech and in the community.

**Enterprise Funds**

The Town operates four enterprise funds: Water and Sewer, Solid Waste and Recycling, Storm water, and Transit. The Enterprise Funds include over \$49.7 million in capital projects. These funds are self-sufficient with funding generated primarily by user fees and grant revenues. No Town generated tax revenue is used to support operations of enterprise funds.

**Summary**

In conclusion, we are pleased to present to you a *Recommended FY 2020-2024 Capital Improvement Program* that is fiscally responsible and responsive to the community. During the next several weeks, we look forward to reviewing and discussing these recommendations with you. Below is the schedule for the review and consideration of the Recommended CIP.

**2018**

- November 27th Present CIP to Town Council
- December 4th Town Council Work Session
- December 11th Town Council Schedules Public Hearing on CIP for January 8, 2019
- December 18th Town Council Work Session
- December 18th Planning Commission Review of the CIP

*Recommended FY 2019-2024 Capital Improvement Program  
Transmittal Letter*

2019

January 8th	Town Council Public Hearing on Recommended CIP
January 15th	Town Council Work Session, if necessary
January 22rd	Town Council Consideration of Resolution Approving CIP

I want to express my appreciation to each Department and their staff for working together to develop and prepare the *Recommended FY 2020-2024 Capital Improvement Program*. I also want to thank Town Council for your continued support as we pursue capital improvements that will enhance the quality of life for the citizens of Blacksburg.

Sincerely,



Marc A. Verniel  
Town Manager

# TABLE OF CONTENTS

<b>CAPITAL IMPROVEMENT PROGRAMMING</b> .....	1
Guidelines and Forms .....	4
<b>FINANCIAL ANALYSIS AND TABLES</b> .....	10
Principles of Sound Financial Management .....	11
Financial Indicators	
Indicator 1: Revenues Per Capita.....	14
Indicator 2: Sales Tax Revenues Per Capita .....	15
Indicator 3: Meals Tax Revenues Per Capita .....	16
Indicator 4: Intergovernmental Revenues .....	17
Indicator 5: Property Tax Revenues .....	18
Indicator 6: Operating Expenditures Per Capita .....	19
Indicator 7: Employees Per Capita .....	20
Indicator 8: Fund Balances .....	21
Indicator 9: Long-term Debt.....	22
Indicator 10: Capital Outlay .....	23
Indicator 11: Water and Sewer Rates .....	24
Indicator 12: Retained Earnings - Water and Sewer Fund.....	25
Indicator 13: Capital Outlay - Water and Sewer Fund .....	26
Indicator 14: Debt Service - Water and Sewer Fund.....	27
Indicator 15: Retained Earning – Storm Water Fund .....	28
Table 1: History of Property Tax Revenue for the Last Six Fiscal Years.....	29
Table 2: History of General Fund Revenue Other Than Property Tax for the Last Six Fiscal Years .....	30
Table 3: History of General Fund Operating Expenditures/Encumbrances for the Last Six Fiscal Years .....	31
Table 4: Six-Year Projection of Property Tax Revenue .....	32
Table 5: Six-Year Projection of Total General Fund Revenue .....	33
Table 6: Six-Year Projection of General Fund Operating Expenditures .....	34
Table 7: Six-Year Projection of General Fund Obligated Debt Service .....	35
Table 8: General Fund Six-Year Projection of New Capital Financing Potential .....	36
Table 9: History of Water and Sewer Fund Revenue for the Last Six Fiscal Years .....	37
Table 10: History of Water and Sewer Fund Operating Expenditures for the Last Six Fiscal Years.....	38
Table 11: Six-Year Projection of Water and Sewer Operating Revenues .....	39
Table 12: Six-Year Projection of Water and Sewer Operating Expenditures .....	40
Table 13: Six-Year Projection of Water and Sewer Fund Obligated Debt Service Expenditures.....	41
Table 14: Water and Sewer Fund Six-Year Projection of New Capital Financing Potential.....	42
Table 15: Storm Water Fund Operating Revenue Expenditures.....	43
Table 16: Six-Year Projection of Storm Water Operating Revenue and Expenditures .....	44
Table 17: Storm Water Fund Six-Year Projection of New Capital Financing Potential .....	45
<b>SUMMARY OF PROJECTS</b>	
Summary of Capital Improvement Program .....	46
<b>PROJECT DESCRIPTIONS</b>	
<b>Town Manager</b>	
Capital Reserve .....	47
Progress Street Parking Garage .....	48
Former Court Space Renovation.....	49
Energy Efficiency Upgrades .....	50
Downtown Kiosk Panel Replacement.....	51
<b>Financial Services</b>	
I-Series Peripheral Equipment Replacement .....	52
I-Series Hardware Replacement .....	53

**Financial Services (cont.)**

Online Business License Application..... 54

**Technology**

Technology Replacement..... 55  
 Network Switch Equipment..... 56  
 Network Firewall Replacement..... 57  
 Wireless Infrastructure Replacement..... 58  
 Network Core Switch Equipment..... 59  
 Microsoft Office Software Licensing..... 60  
 Licensing Update - Servers..... 61  
 Server Room UPS Replacement..... 62  
 SAN Upgrade/Replacement..... 63  
 Data Backup Replacement..... 64  
 Server Replacement..... 65  
 Long Term Data Storage..... 66

**Police**

Police Department - New Building..... 67  
 Traffic Committee..... 68  
 Police Video, Data Storage and Technology Upgrade..... 69  
 Modular Vehicle Barriers..... 70

**Fire**

Turnout Gear..... 71  
 Station Security for Fire Facilities..... 72  
 Multipurpose Fire Truck..... 73

**Rescue**

Cardiac Monitors/Defibrillators..... 74  
 Chest Compression System..... 75  
 Ambulance Replacement..... 76

**Public Works**

Parking Lot Repaving, Sealing and Striping..... 77  
 Rental Property Maintenance..... 78  
 Town Building Masonry Repair..... 79  
 Major Facilities Repair and Maintenance..... 80  
 Transfers to Building Systems Depreciation Fund..... 81  
 Transfers to Equipment Depreciation Fund..... 88  
 Infill Curb, Gutter and Sidewalk Construction Projects..... 97  
 Pavement Condition Index Update..... 98  
 Bicycle Infrastructure Improvements..... 99  
 Municipal Building Envelope Waterproofing Project..... 100  
 Traffic Signal Poles and Mast Arms Painting..... 101  
 Field Operations Vehicle..... 102  
 Bridge Inspection Repairs..... 103  
 Emergency Preparedness Equipment..... 104

**Parks and Recreation**

Picnic Shelter Replacement/Expansion..... 105  
 Park Restrooms..... 106  
 Transfer to Playground Depreciation Fund..... 107

**Parks and Recreation (cont.)**

Park Fencing Upgrades.....	108
Hand in Hand Playground.....	109
Huckleberry Trail Widening and Resurfacing.....	110
Municipal Park – Resurface Tennis Courts.....	111
Community Center Major Renovations.....	112
Aquatic Center Renovation.....	113
Aquatic Center HVAC Upgrade and Expansion.....	114

**Engineering and GIS**

Streetlight Installation.....	115
Aerial and Base Map/GIS Updates.....	116
North Main Street Box Culvert Repairs.....	117
Sidewalk Extension Design Projects.....	118
Draper Road Streetscape Improvements.....	119
Clay Street Sidewalk and Roadway Improvements.....	120
Huckleberry Trail Extension at South Point.....	121
Industrial Park Trail/Sidewalk System Master Plan and Construction.....	122
Prices Fork Road/460 By-pass Interchange Study.....	123
Toms Creek Road Traffic Study.....	124
Traffic Signal and Timing Counts.....	125
Huckleberry Trail Bridge-Sheffield Drive.....	126

**Planning and Building**

Old Blacksburg Middle School to Huckleberry Trail Bicycle and Pedestrian Connection.....	127
Bicycle and Facility Implementation Plan.....	128

**CDBG Fund**

No Project Detail Sheets.....	129
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**VDOT Revenue Sharing Fund**

Roadway Full Depth Reconstruction (FDR).....	130
Guardrail Replacement.....	131
Sidewalk Trip Hazard Removal.....	132
Right-of-Way Hazard Mitigation.....	133
Curb, Gutter and Sidewalk Rebuild.....	134
Major Roadway Repaving.....	135
Harding Avenue Storm Water and Pedestrian Project.....	136
Old Blacksburg High School Public Roads.....	137
Old Blacksburg Middle School Cycle Track.....	138

**Storm Water Fund**

Storm Water Small Improvements and Minor Repairs.....	139
Storm Water Quality Improvements.....	140
Countryside Estates Storm Water Improvement Project.....	141
Penn Street Drainage Improvement Project.....	142
Police Station Box Culvert Replacement.....	143
Progress Street and North Main Improvement Project.....	144
Webb Street Drainage Improvement Project.....	145

**Water and Sewer Fund**

Meter Maintenance and Replacement.....	146
Radio Read Vehicle Transceiver Unit (VXU) Replacement.....	147
Neil Street Water Pump Station.....	148
Sewer Relocation/Replacement.....	149

**Water and Sewer Fund (cont.)**

Water Tank Maintenance Projects .....	150
Downtown I & I Reduction .....	151
Prices Fork Waterline Replacement.....	152
Force Main Relocation for Givens Pump Station .....	153
North Main Street Gravity Replacement.....	154
Water Tank Inspections .....	155
Townwide Sanitary Sewer Model Upgrade.....	156
Fire Hydrant and Water Valve Replacement.....	155
Sanitary Sewer Lining and Pipe Bursting for I & I Abatement .....	158
Water Main Replacements .....	160
Remote Area Slope Mower .....	161

**Transit Fund**

Heavy Duty Bus Replacement and Expansion Program .....	162
BT Access Bus Replacement and Expansion Program .....	163
Christiansburg Bus Replacement and Expansion Program .....	164
Partner Bus Replacement and Expansion Program.....	165
Support Vehicle Replacement and Expansion Program.....	166
Transit Facility Maintenance Program .....	167
Technology Replacement and Expansion Program .....	168
ITS Systems Replacement and Expansion Program .....	169
Fleet Camera System.....	170
Fare Automation System .....	171
Radio Replacement and Expansion Program .....	172
Shelter and Amenities Replacement and Expansion Program .....	173
Christiansburg Shelter and Amenity Program .....	174
Transit Facility Improvement Project.....	175
Bike Share Program .....	176

**Equipment Replacement Fund**

Major Equipment Purchases .....	177
Major Building System Replacement.....	184

**Solid Waste/Recycling Fund**

Brush, Leaf and Debris Management Planning.....	187
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TO: Department Heads  
Larry Spencer, Town Attorney  
Donna Boone-Caldwell, Town Clerk  
Heather Browning, Community Relations Manager  
Elaine Gill, Human Resource Manager  
Matt Hanratty, Assistant to the Town Manager  
Bobby Carner, Fire Chief  
David English, Rescue Chief

FROM: Steve Ross, Deputy Town Manager  
Chris Lawrence, Deputy Town Manager  
Susan Kaiser, Director of Finance  
Matt Hornby, Assistant Director of Finance

SUBJECT: FY 2020-2024 Capital Improvement Program

DATE: August 15, 2018

Once again, it is time for the Capital Improvement Program (CIP) process. We have updated the new project detail form from last year. It is in PDF format with drop down menus and protected formulas to help the pages stay consistent. Please submit all projects, old and new, on this form. A template is provided on the "O drive" and plenty tips, reminders, and instructions on using the new form are provided below.

**Status of Current CIP Projects**

A status of current CIP projects will be needed with a brief one or two sentence description. The status should be completed on the spreadsheet located on the "O" drive at O:/CIP 2019/Current CIP Project Status. A column is provided for the status such as closed, open, on hold or in progress with a line for the brief one or two sentence descriptions. The status of current CIP projects is due September 4, 2018.

**Calendar**

September 4 <sup>th</sup>	Status of current CIP projects due.
September 10 <sup>th</sup>	Deadline for submission of CIP project proposals.
September 17 <sup>th</sup> – October 3 <sup>rd</sup>	Meeting with individual departments to discuss CIP projects.
October 15 <sup>th</sup>	Town Manager Finalizes <i>Recommended CIP</i> .
November 16 <sup>th</sup>	Town Manager's Proposed CIP presented to Town Council

**Reminders in the CIP Process**

- Remember this is the Town Manager's Recommended CIP. The Town Manager must consider the Town as a whole and the many competing needs and wants of the Town in making recommendations.
- This is a five year Capital Improvement Program.

- Project Detail Forms - The Project Detail Form should be descriptive in the narratives and remember to reference Council's Strategic Goals when appropriate. A drop down box is provided on the PDF form for the goals. The narrative is what represents the project to the Council, the Planning Commission and the public. Please proof read all narratives before submission. All projects must be submitted on the new PDF form. A template is provided on the "O drive."
- Previous CIP Projects – If submitting a project included in last year's CIP, please copy and paste the information from last year's detail project form to the new detail project form. Last year's project detail form is located on the "O drive" at O:\CIP FY2020\FY19 Adopted Projects. Make appropriate changes to years, dollar amounts, and narratives on the new form. **Do not use information from a project detail form you may have saved on another drive or folder.** That information may have been changed when included in the Adopted CIP. No projects are automatically carried over.
- Project Status – Each project should have a status. They are *New, Continuing, In Progress or Previously Requested*. There is a drop down menu on the PDF form for this section. See the prior year project in the CIP for the correct status. *Continuing* should only be used on projects that are continuing beyond the five years such as replacement funds or ongoing maintenance funds.
- Council Strategic Goals – A copy of the 2018-2019 Strategic Goals is attached to this memo as well as saved at O:\CIP FY2020. Please utilize the goals in the drop down menu for these. Reference them in the descriptive narrative of the projects if appropriate.
- The list of potential future projects is saved at O:\CIP FY2020.
- Do not submit all projects in the first year.
- **Be realistic of funding and workload constraints.**
- Future years should include inflationary impacts.
- Only true capital projects will be considered for funding. All other items will be handled under the Operating Budget.
- Remember to include requests for all capital projects even if they will be funded by grants or if they are continuing projects such as Building Maintenance funds.
- For large projects break the project into components such as land purchase, design/engineering services, and construction into appropriate years. Do not front load the entire project in the first year.
- Remember to include the operating impact of capital projects so they can be considered during the operating budget process. Please use the form on the "O drive" even if no operating impact and note such on the form. Most projects should have an operating impact.

### **Forms to be Submitted:**

The FY2020-2024 forms for use in preparing CIP projects are available on the “O drive” at O:\CIP FY2020\Forms. All three forms below need to be submitted.

- **Project Detail Form:** Must be submitted for every project. Includes a total project estimate, description of the project (narrative) and source of funding. ***Please use the new format on the O Drive,*** as this form will be published in the document submitted to Town Council. If submitting a project included in last year’s CIP please use the new project detail form with the information located on the “O drive” at O:\CIP FY2020\FY19Adopted Projects with appropriate changes.
- **Cost Estimate Detail Form:** The form includes an inflation factor, source of estimate and possible funding options or funding alternatives. If this form is not submitted, please submit supporting information to justify the project cost estimate.
- **Estimated New Annual Operating Costs:** This form includes the impact of a new project relative to additional positions, related personnel costs, and operating costs including capital equipment. This form needs to be completed even if there are no new operating costs associated with the project or the project will reduce operating costs. Most capital projects will impact operating costs. It will be given to departments as part of the operating budget.

### **Submitting Projects for Review**

- Please proof read all narratives before submitting.
- A copy of each project recommended should be put out on the “O drive” at O:\CIP FY2020\Submitted Projects\<<department name>\.
- Please provide six (6) unstapled and hole-punched copies to Terri Self, as well as the copy on the O drive.
- The deadline for submitting proposed projects is **Monday, September 10, 2018.**

### **Conclusion**

The intent this year, as always, is to make the CIP process as painless as possible. Hopefully the above instructions will provide you with the guidance you need to submit the necessary information. If you have any questions regarding the process, please contact Susan Kaiser, Director of Finance or Steve Ross, Deputy Town Manager.

# Capital Improvement Program Guidelines

## Definition of a Capital Improvement

Capital Improvements are major construction or acquisition efforts that are nonrecurring in nature. Generally, capital improvement projects are defined as follows:

1. Studies pertaining to capital improvements that require the employment of outside professional consultants at a cost in excess of \$15,000.
2. Construction of buildings or facilities, including design, engineering and other pre-construction costs with an estimated cost in excess of \$15,000.
3. Purchase of major equipment and vehicles valued in excess of \$15,000 with a life expectancy of five years or more.
4. Major equipment or furnishings required for the utilization of new or renovated buildings.
5. Major acquisition of land or other property.

## Capital Improvement Program Submission Process

The Capital Improvement Program is designed as a budget document for the first year of the five-year plan and as a planning document for the remaining four years of the plan.

Each Department Head is responsible for reviewing the most recent Capital Improvement Program to determine the funding necessary for projects that are currently programmed in the Five-Year Capital Improvement Program. Based on this review and a review of new requirements for capital improvements for the next five-year period, the Department Head will complete a **Project Detail Sheet**.

## Project Detail Sheet

The **Project Detail Sheet** is used to summarize the project that is requested for consideration. If the CIP Committee ultimately recommends a project to the Town Council for consideration, this form is used for presenting information on the project to Council and the public.

Project Title: Brief title of the proposed project.

Project Status: Each project should have a status. They are *New*, *Continuing*, *In Progress* or *Previously Requested*. The project is defined as "New" if it is the first year that the project is in the CIP. The project is "In Progress" if it is currently programmed in the CIP. The project is "Previously Requested" if it has been requested and approved in previous years but is not in progress or has not yet begun. This status is not a project that was previously submitted and denied. *Continuing* should only be used on projects that are continuing beyond the five years such as replacement funds or ongoing maintenance funds.

Description and Justification: This information should include a brief description of the project including such things as the size of the facility (square feet) or infrastructure improvement (linear feet), the kind of vehicle to be purchased, the number of facilities to be improved, the names of the facilities to be improved, and the constituency to be served by the project. A brief justification of the project should also be included.

Planned Financing of Project: The planned financing of the project should mirror the cost estimate identified on the **Cost Estimate Detail Form** or the cost estimate information provided. The Source of Funds should be identified. The sum of Prior Allocation, 2019/2020-2023/2024, and Future Years must add to the Total Project Estimate.

Prior Allocation: Can be found on most recent project printouts.

## Town Council Strategic Goals 2018 - 2019

### **Proactively plan for community growth**

Plan for redevelopment of existing student housing

Complete Downtown Strategic Plan

Participate in Regional Housing Study and explore partnerships and incentives to provide affordable and workforce housing

Plan for the impacts of growth to maintain neighborhood quality of life

Explore expansion of Blacksburg Transit to increase capacity on existing routes and to serve neighborhoods

Invest in bicycle and pedestrian infrastructure consistent with the Bicycle Master Plan and Prices Fork Safety and Mobility Study

### **Update the Comprehensive Plan and Zoning Ordinance to reflect a changing community**

Complete the Comprehensive Plan 5-year update

Study and implement changes to zoning requirements in commercial districts to accomplish appropriate development forms

Make targeted changes to residential zoning districts to allow infill development while protecting existing neighborhoods

### **Plan for downtown redevelopment and public parking**

Collaborate on the Old Blacksburg Middle School property to implement a plan that reflects the stated design principles adopted by Town Council and provides public spaces

Develop a Master Plan for the general area around the Progress Street Parking Lot to include structured parking

Proactively work with the Blacksburg Baptist Church on the redevelopment of its property

Put the Cook's Clean Center property into productive use and ultimately leverage the property to facilitate future redevelopment

Support the development of professional housing in downtown

## Town Council Strategic Goals

2018 - 2019

### Expand recreational opportunities

Explore partnerships on the Old Blacksburg High School Property for future recreational use

Begin construction on the Mountain Bike Skills Park

Complete the trail connection between the Huckleberry Trail and Heritage Park

Complete construction at South Point Park

### Continuing Community Values

**Environmental Sustainability** - Continue the Town's environmental sustainability efforts to implement the Town's Climate Action Plan.

**Neighborhood Quality** - Continue the ongoing focus on code enforcement activities in key neighborhoods to address negative impacts of rental properties. Continue to look for and use all tools available to the town for effective neighborhood code enforcement.

**Affordable Housing** – Continue to support the development of affordable housing in Blacksburg and the surrounding region.

**Regional Cooperation** – Continue positive relationships with Virginia Tech and neighboring communities in the New River Valley. Work to build closer working relationships with the Roanoke Valley and communities in Southwest Virginia.

Approved – February 13, 2018

**Capital Improvement Program**

**Department**

TITLE:

STATUS:

PROJECT DESCRIPTION:

OPERATING IMPACT:

GOAL ADDRESSED:

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Equipment Replacement Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
						0

# BLACKSBURG CAPITAL IMPROVEMENT PROGRAM

## COST ESTIMATE DETAIL SHEET REQUIRED

**Department:**

**Project Title:**

**Total Costs Current Dollars**

A. Planning, Engineering and Design	
B. Land Acquisition	
C. Construction (Sum of 1,2 below)	
1. Construction Cost	
2. Construction Contingency 5% New Construction x Construction Cost 10% Renovation x Construction Cost	
D. Equipment (Furnishings, Vehicles, etc.)	
E. Consultant Study	
<b>F. Inflation (1 + 2 x .025) (per year)</b>	
<b>Total Project Estimate</b>	

**Source of Estimate:**

**Funding Options/Alternatives:**

**Project Submitted:** \_\_\_\_\_

**Estimated New Annual Operating Expenses (if any):**

Additional Positions (F/T)	
Additional Positions (P/T)	
Capital Equipment	
Operating Costs Excluding Capital Equipment	
Total Costs	
Anticipated Revenue	
Net Costs	

**Departments Impacted:**

**Explanation:**

# Financial Analysis

As an aid to comprehensive financial planning, this section examines both historical and projected revenues and expenditures of the Town. This section also includes the "Principles of Sound Financial Management." A series of financial trend indicators are included to provide a gauge for evaluating the Town's financial condition.

Projected revenues and expenditures are based on assumptions given current economic trends, historical growth and anticipated State funding levels. Also included are tables reflecting the Town's debt service obligation and those obligations relative to total General Fund expenditures.

# Town of Blacksburg

## Principles of Sound Financial Management

### Introduction

These principles set forth the broad framework for overall fiscal planning and management of the Town's resources. In addition, these principles address both current activities and long-term planning. Every two years, following a Council election, these principles will be reviewed to assure the highest standards of fiscal management.

### Overall Goals

The financial goals of the Town of Blacksburg are designed to ensure the Town's sound financial condition at all times.

1. **Sound Financial Condition** may be defined as:
  - ✓ Cash Solvency - The ability to pay bills.
  - ✓ Budgetary Solvency - The ability to annually balance the budget.
  - ✓ Long Term Solvency - The ability to pay future costs.
  - ✓ Service Level Solvency - The ability to provide needed and desired services.
2. **Flexibility** is a goal that ensures that the Town is in a position to react and respond to changes in the economy and new service challenges without measurable financial stress.
3. **Adherence to Best Accounting and Management Practices** in conformance with generally accepted accounting procedures as applied to governmental units, and the standards of the Governmental Accounting Standards Board and the Government Finance Officers Association (GFOA).

### Financial Principles

1. **A balanced budget** should be prepared annually by the Town Manager and forwarded to the Town Council for consideration.
2. **Ongoing operating costs** should be funded by ongoing revenue sources. This protects the Town from fluctuating service levels and avoids concern when one-time revenues are reduced or removed. In addition:
  - a. **Cash balances** should be used only for one-time expenditures, such as land acquisition, capital improvements and capital equipment or special one-time expenditures.
  - b. **Federal grants** should not financially support essential Town services. Federal grant monies should be tied to programs and services with the understanding that those services delivered with grant funding may be revised and altered based on grant funding availability.
  - c. **New operating costs associated with capital projects** should be funded through the operating budget but identified and outlined in the capital improvement program.
3. The Town Manager should forward to the Town Council a quarterly financial report identifying meaningful trends in both revenues and expenditures for all major funds.

4. Department Heads are responsible for managing departmental budgets within the total appropriated budget.
5. Replacement of Town vehicles, including Fire, Rescue and Police vehicles, should be funded through the Equipment Replacement Fund.
6. Financial Trend Indicators should be prepared and reviewed annually to determine the Town's financial condition. Town Council will review these indicators prior to the development of the Capital Improvement Program and annual operating budget. The Financial Trend Monitoring System (FTMS) offers the following:
  - a. A method for quantifying a significant amount of information in relatively simple terms to gain better understanding of the Town's financial condition;
  - b. Places the events of a single year into a longer perspective and permits the Town to evaluate trends; and,
  - c. A straightforward picture of financial strengths and weaknesses.
7. General Fund *Unassigned Fund Balance* is targeted at no less than 10% of operating expenditures exclusive of capital improvements. However, the Town will strive to increase the level to a target of 15% of operating expenditures exclusive of capital improvements. Unassigned Fund Balances should only be used for one-time uses. *Bond Proceeds should be deposited and budgeted into the Capital Project Funds.*
8. The Town Council may, from time-to-time, appropriate fund balances that will reduce available fund balances below the 10% policy for the purposes of a declared fiscal emergency or other such global purpose as to protect the long-term fiscal security of the Town. In such circumstances, the Council will adopt a plan to restore the available fund balances to the policy level within 36 months from the date of the appropriation. If restoration cannot be accomplished within such time period without severe hardship to the Town, then the Council will establish a different but appropriate time period.
9. Tax-supported debt service should strive to be less than 10% and not exceed 15% of operating expenditures exclusive of capital improvements.
10. The Town intends to maintain its ten year tax-supported debt and lease payout ratio at or above 60% at the end of each adopted five year Capital Improvement Plan. The payout ratio shall be no less than 55% in any one year during that period.
11. Net Debt as a percentage of total assessed value of taxable property should not exceed 2.0%. Net Debt is defined as any and all debt that is tax-supported.
12. A five-year financial forecast should be developed annually to determine net capital financing potential, to react to changes in the economy, and to accommodate regulatory and legislative mandates.
13. Investment practices should be in accordance with the Town's Investment and Portfolio Policy. The Investment and Portfolio Policy should be reviewed by Town Council every two years.
14. The Town shall annually prepare a Comprehensive Annual Financial Report and should seek recognition from the GFOA by applying for and receiving the organization's Certificate of Excellence in Financial Reporting. In addition, the Town should seek recognition by applying for and receiving the GFOA Distinguished Budget Presentation Award.
15. The Town operates four enterprise funds: Water and Sewer, Solid Waste and Recycling, Stormwater and Transit. Enterprise Funds should be self-sufficient. Solid Waste and Recycling

and Stormwater Funds should include a reserve of at least three months expenditures for operations and maintenance. Transit should include a reserve of at least nine months expenditures for operations and maintenance. Enterprise Funds should be charged for indirect administrative costs performed by other Town departments. Revenue should be sufficient to fund operations, capital improvements, equipment replacement and department service.

16. To maintain the integrity of the Water and Sewer Fund the following goals should be achieved:
  - a. Maintain a cash balance in the Water and Sewer Fund at a target of six months expenditures for operations and maintenance of the systems plus 3% of fixed assets for a renewal and replacement reserve.
  - b. Maintain a ratio of Net Revenues (Revenues less Operations not including Depreciation) of at least 1.15x debt service requirements without taking new availability revenues into account.
17. User fees for all operations should be reviewed annually to ensure rates are market competitive and defray operating costs. In the case of Enterprise Funds and Internal Service Funds, fees should be reviewed annually to ensure that revenues generate sufficient funds to cover the total cost of services.
18. A five-year capital improvement program should be prepared each year at least three months prior to the submission of the budget.

Principles of Sound Financial Management

Adopted by Town Council: **April 23, 1996**

Revised by Town Council: **July 14, 1998**

Revised by Town Council: **August 24, 2004**

Revised by Town Council: **November 23, 2010**

Revised by Town Council: **February 23, 2016**

# INDICATOR 1

## Revenues Per Capita

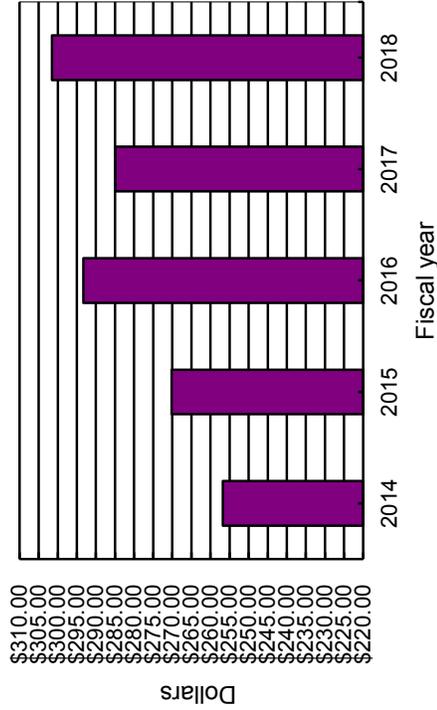
### Trend to Watch For:

Decreasing net operating revenues per capita (constant dollars)

### Formula:

$$\frac{\text{Net operating revenues \& transfers (constant dollars)}}{\text{Population}}$$

## Revenues Per Capita



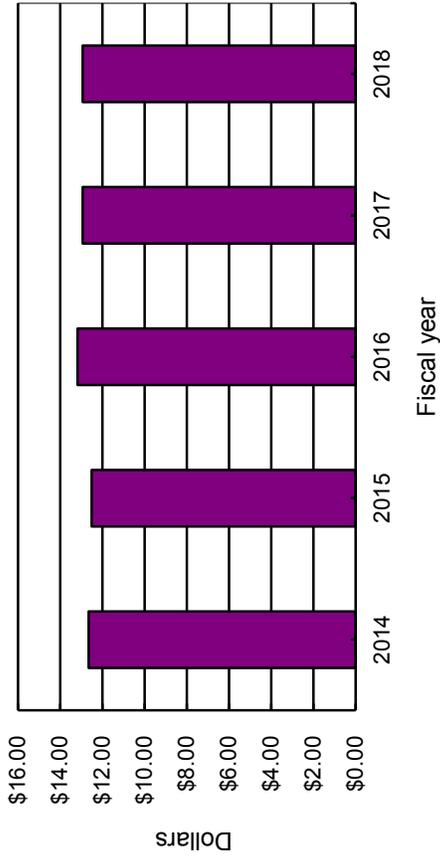
Fiscal year:	2014	2015	2016	2017	2018
Net operating revenues and transfers	\$26,808,431	\$28,176,359	\$30,685,153	\$30,563,204	\$32,753,712
Consumer price index	239.4	237.1	236.6	238.2	243.8
Net operating revenues & transfers (constant dollars)	\$11,198,175	\$11,883,745	\$12,969,430	\$12,833,217	\$13,434,664
Current population	43,609	43,985	44,215	45,038	44,563
<b>Net operating revenues &amp; transfers per capita (constant dollars)</b>	<b>\$256.79</b>	<b>\$270.18</b>	<b>\$293.33</b>	<b>\$284.94</b>	<b>\$301.48</b>

### Analysis:

Examining per capita revenues shows changes in revenues relative to changes in population size and rate of inflation (Consumer Price Index for Urban Wage Earners/Clerical with base years 1982-1984 equal to 100). FY 2014 thru FY 2016 shows the slow recovery in the local economy especially in the economic sensitive areas such as meals taxes and sales taxes and the reduction of state funding. In FY 2015, the per capita amount increase is mainly due to a half year impact of the 2015 reassessment and the increase in the real estate tax rate from \$0.22 to \$0.25. In FY 2016, the per capita amount increase is due to the full year impact of those two factors and the growth in meals tax due to new restaurants and \$395,795 of one-time historic tax credit revenue. In FY2018, the per capita amount increase is due to the increase in the real estate tax rate from \$0.25 to \$0.26 for half the year and a full year impact of two new hotels.

## INDICATOR 2

### Sales Tax Revenues Per Capita



## Sales Tax Revenues Per Capita

### Trend to Watch For:

Decreasing net sales tax revenues per capita (constant dollars)

### Formula:

$$\frac{\text{Net Sales Tax Revenues (constant dollars)}}{\text{Population}}$$

	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Net Sales Tax Revenues	\$1,320,895	\$1,304,682	\$1,379,313	\$1,388,282	\$1,405,973
Consumer price index	239.4	237.1	236.6	238.2	243.8
Net Sales Tax Revenues (constant dollars)	\$551,752	\$550,267	\$582,982	\$582,927	\$576,691
Current population	43,609	43,985	44,215	45,038	44,563
<b>Net Sales Tax Revenues per Capita (constant dollars)</b>	<b>\$12.65</b>	<b>\$12.51</b>	<b>\$13.19</b>	<b>\$12.94</b>	<b>\$12.94</b>

### Analysis:

Sales Tax is a major revenue category for the Town and is an indicator of the strength of the regional economy. The FY 2015 decrease is due to the new state definition of school age population. The FY 2016 increase is due to the growth in the sales tax base and a slight increase in the school age population. The decreases in FY 2017 and FY 2018 are due to slight decreases in the school age population.

### Basis for Distribution:

One percent of the State sales tax collected in Montgomery County is returned by the Commonwealth to Montgomery County. From this 1%, the County receives an automatic 50% and the remaining 50% is allocated, using school age population in the incorporated towns and in the surrounding County as the basis for distribution. There are three localities sharing in the one-half of one percent: Blacksburg, Christiansburg and Montgomery County. Blacksburg's share of the school age population was 27.69% in FY 2012, 27.01% in FY 2013, 23.62% in FY 2014, 22.36% in FY 2015, 22.73% in FY 2016, 22.58% in FY 2017 and 22.42% in FY 2018. In FY 2014 the state changed the definition of school age population. In FY2019, the school age population is 22.99%.

### INDICATOR 3

## Meals Tax Revenues Per Capita

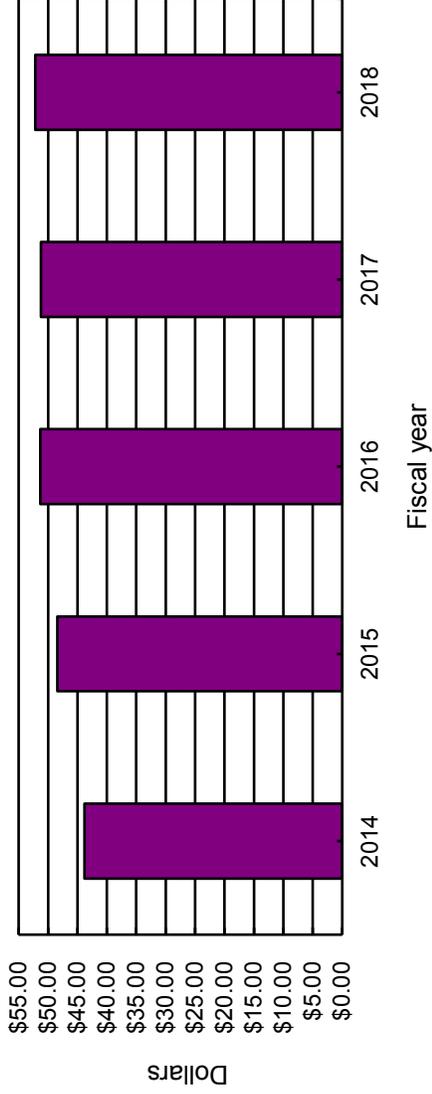
### Trend to Watch For:

Decreasing meals tax revenues per capita (constant dollars)

### Formula:

$$\frac{\text{Meals Tax Revenues (constant dollars)}}{\text{Population}}$$

## Meals Tax Revenues Per Capita



	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Meals Tax Revenues	\$4,572,653	\$5,048,802	\$5,370,640	\$5,491,833	\$5,667,284
Consumer price index	239.4	237.1	236.6	238.2	243.8
Meals Tax Revenues (constant dollars)	\$1,910,047	\$2,129,398	\$2,269,962	\$2,305,972	\$2,324,563
Current population	43,609	43,985	44,215	45,038	44,563
<b>Meals Tax Revenues (constant dollars)</b>	<b>\$43.80</b>	<b>\$48.41</b>	<b>\$51.34</b>	<b>\$51.20</b>	<b>\$52.16</b>

### Analysis:

The increases in FY 2015 through FY 2018 are mainly due to new restaurants that have opened during the last few years and the stabilization of the restaurant industry.

## INDICATOR 4

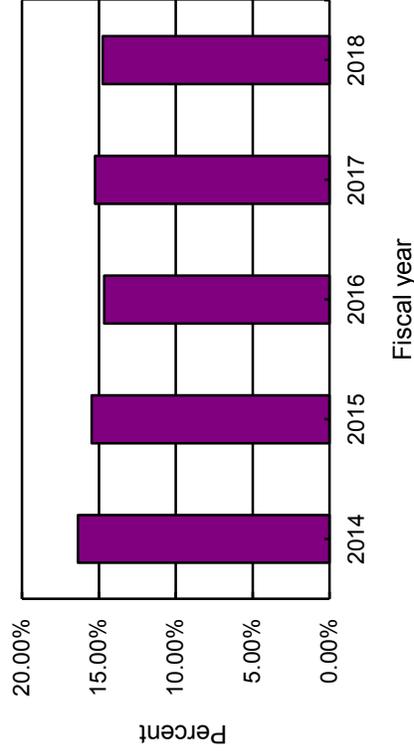
### Intergovernmental Revenues

#### Intergovernmental Revenues

##### Trend to Watch For:

Decreasing amount of intergovernmental revenues as a percentage of gross operating revenues

##### Formula:

$$\frac{\text{Intergovernmental operating revenues}}{\text{Gross operating revenues}}$$


	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Net Intergovernmental Revenues	\$4,383,871	\$4,355,564	\$4,493,518	\$4,661,068	\$4,833,556
Gross Operating Revenues	\$26,808,431	\$28,176,359	\$30,685,153	\$30,563,204	\$32,753,712
<b>Intergovernmental Revenues as a Percent of Gross Operating Revenues</b>	<b>16.35%</b>	<b>15.46%</b>	<b>14.64%</b>	<b>15.25%</b>	<b>14.76%</b>

##### Analysis:

Intergovernmental revenues over the five-year period have been stable which corresponds with the State budget environment. This area of revenue bears close scrutiny given the current economy and the state's budget condition. FY 2018 includes a VDOT Paving grant.

# INDICATOR 5

## Property Tax Revenues

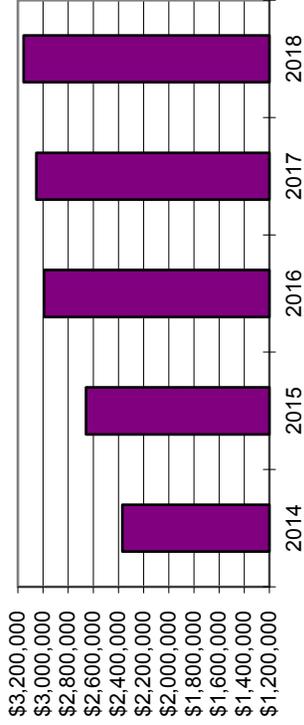
### Trend to Watch For:

Decline in property tax revenues (constant dollars)

### Formula:

Property Tax Revenues  
(constant dollars)

## Property Tax Revenues



Fiscal year:	2014	2015	2016	2017	2018
Property Tax Revenues	\$5,669,336	\$6,301,948	\$7,079,548	\$7,272,645	\$7,690,970
Consumer Price Index	239.4	237.1	236.6	238.2	243.8
CPI Converted to Decimal	2.394	2.371	2.366	2.382	2.438
<b>Net Property Tax Revenues (constant dollars)</b>	<b>\$2,368,144</b>	<b>\$2,657,928</b>	<b>\$2,992,252</b>	<b>\$3,053,719</b>	<b>\$3,154,623</b>

### Analysis:

Trends indicate that real estate tax revenues were generally stronger than inflation. The reassessment is done every four years. The increases in 2015 and 2016 in gross property tax revenue are due to the impact of the 2015 reassessment and the increase in the tax rate from \$0.22 to \$0.25. The increase in 2017 is due to addition of a large multi-family development. The increase in 2018 is due to the a half year impact of an increase in the tax rate from \$0.25 to \$0.26.

# INDICATOR 6

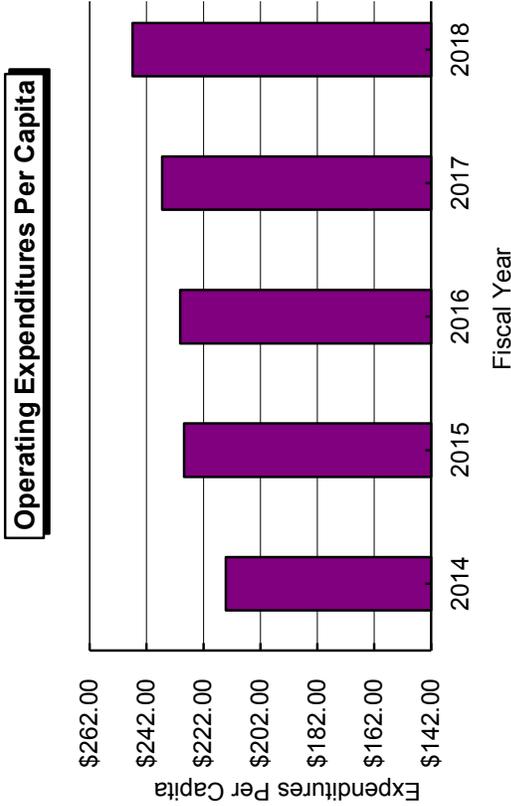
## Operating Expenditures Per Capita

### Trend to Watch For:

Increasing net operating expenditures per capita (constant dollars)

### Formula:

$$\frac{\text{Net operating expenditures (constant dollars)}}{\text{Population}}$$



Fiscal year:	2014	2015	2016	2017	2018
Net operating expenditures	\$22,362,315	\$23,865,160	\$24,080,177	\$25,374,171	\$26,824,480
Consumer price index	239.4	237.1	236.6	238.2	243.8
Net operating expenditures (constant dollars)	\$9,340,984	\$10,065,441	\$10,177,762	\$10,654,388	\$11,002,658
Estimated population	43,609	43,985	44,215	45,038	44,563
<b>Net operating expenditures per capita (constant dollars)</b>	<b>\$214.20</b>	<b>\$228.84</b>	<b>\$230.19</b>	<b>\$236.56</b>	<b>\$246.90</b>

### Analysis:

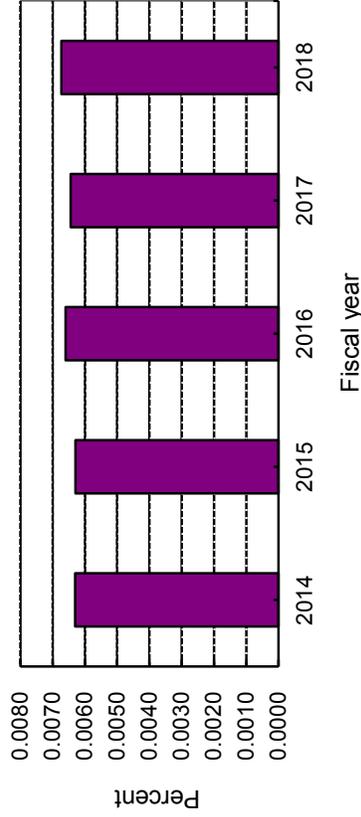
Per Capita Expenditures per 2017 Comparative Cost Report:  
(No Education or Welfare)

Montgomery County	\$415
Roanoke County	\$1,013
Roanoke City	\$1,427
Radford City	\$1,103
Blacksburg	\$655
Christiansburg	\$1,233
Wytheville	\$2,168
Leesburg	\$1,082
Herndon	\$1,503
Vinton	\$1,051
Pulaski	\$982

# INDICATOR 7

## Employees Per Capita

### Number of Full-Time Municipal Employees Per Capita



**Trend to Watch For:**  
Increasing number of municipal employees per capita.

**Formula:**  

$$\frac{\text{Number of municipal employees}}{\text{Population}}$$

	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Number of full-time municipal employees	275	277	292	290	300
Current population	43,609	43,985	44,215	45,038	44,563
<b>Number of full-time municipal employees per capita</b>	<b>0.0063</b>	<b>0.0063</b>	<b>0.0066</b>	<b>0.0064</b>	<b>0.0067</b>

### Analysis:

This indicator compares the number of full-time employees to the population. The number of employees has increased slightly each year over the first three years. This reflects the new positions added to more efficiently cover service areas. Municipal employees include all full-time personnel contained in the General Fund, Equipment Operations, Solid Waste & Recycling, Blacksburg Transit (not including wage bus operators), Stormwater and Water and Sewer Funds. The increase in 2016 is due to the addition of nine positions in Transit (including six full-time bus operators), one in Stormwater and four in the General Fund to more effectively cover service areas. The decrease in 2017 is due to the transfer of four positions to the E911 Authority but also the addition of two positions in Transit. The increase in 2018 is due to the addition of six positions in Transit (including three full-time bus operators), one in the Water and Sewer Fund and three in the General Fund to more effectively cover service areas such as community development.

# INDICATOR 8

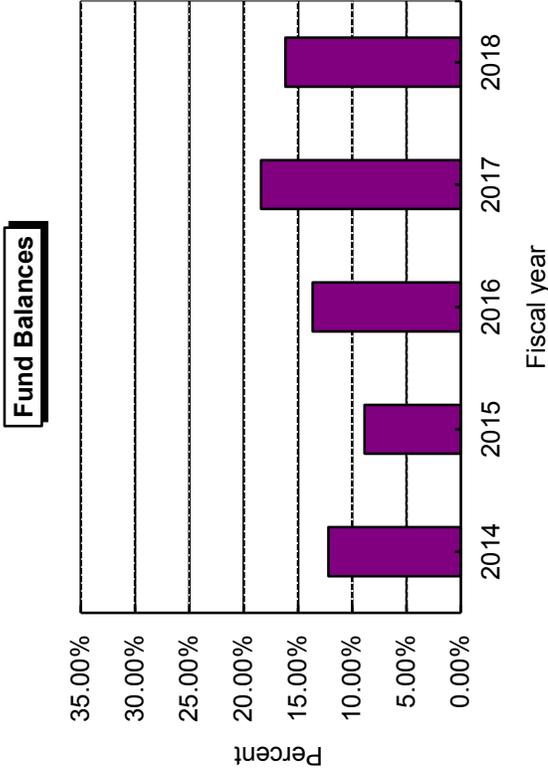
## Fund Balances

### Trend to Watch For:

Declining unreserved fund balances as a percentage of net operating expenditures.

### Formula:

$$\frac{\text{Unreserved fund balances}}{\text{Net operating expenditures}}$$



	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Unreserved General Fund Balance	\$2,980,761	\$2,314,742	\$3,634,618	\$5,123,082	\$4,758,906
Net Operating Expenditures with debt svc	\$24,437,175	\$26,094,470	\$26,624,383	\$27,830,928	\$29,470,884
<b>Unreserved General Fund Balance as a Percentage of Net Operating Expenditures</b>	<b>12.20%</b>	<b>8.87%</b>	<b>13.65%</b>	<b>18.41%</b>	<b>16.15%</b>

### Analysis:

This indicator reflects the Town's capacity to deal with the unexpected or emergency situations. Town Council's policy is to target a minimum undesignated fund balance equal between 10% and 15% of net operating expenditures exclusive of capital improvements. The declines in fund balance, while still maintaining the Town Council policy, are due to the use of fund balance for one-time capital purchases.

## INDICATOR 9

### Long-term Debt

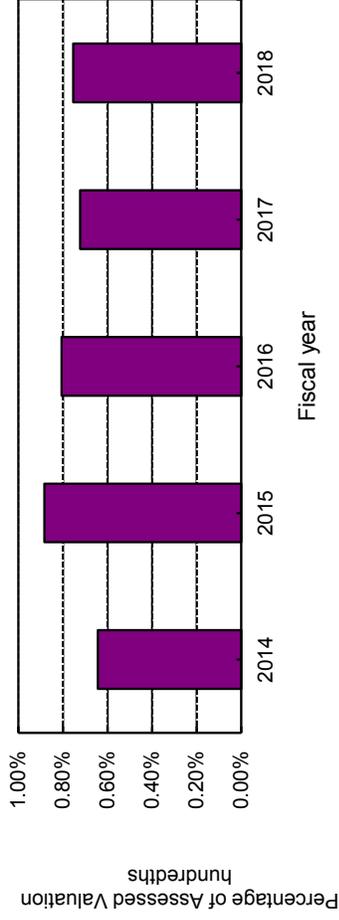
#### Trend to Watch For:

Increasing net direct bonded long-term debt as a percentage of assessed valuation.

#### Formula:

$$\frac{\text{Net direct bonded long-term debt}}{\text{Assessed Valuation}}$$

### Long-term Debt as a Percentage of Assessed Valuation



	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Assessed Valuation	\$2,558,500,545	\$2,779,569,200	\$2,862,199,700	\$2,945,059,500	\$3,016,013,200
Net Direct Long-term General Fund Debt	\$16,471,609	\$24,557,786	\$23,061,002	\$21,301,049	\$22,728,650
<b>Net Direct Long-term Debt as a Percentage of Assessed Valuation</b>	<b>0.64%</b>	<b>0.88%</b>	<b>0.81%</b>	<b>0.72%</b>	<b>0.75%</b>

#### Analysis:

The State mandated legal maximum debt the Town may incur is 10% of assessed valuation. Low debt percentages are an indication of a locality's ability to finance future bond issues coupled with the indicator that measures net debt against net operating revenues. The Town is well within the legal debt maximum of 10% of assessed real estate valuation.

# INDICATOR 10

## Capital Outlay

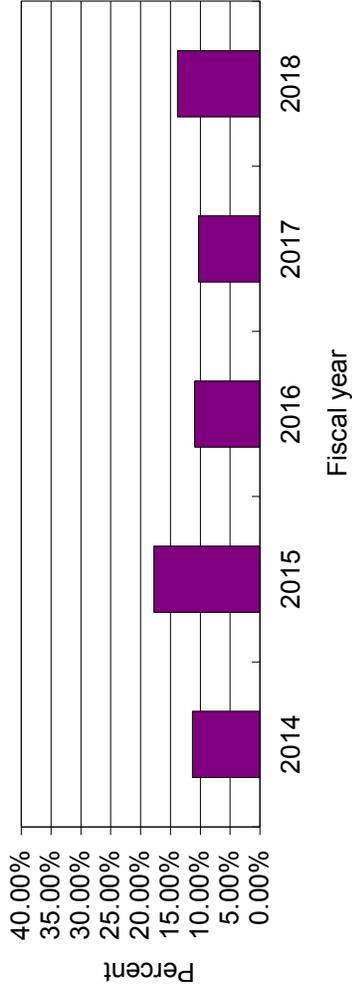
### Trend to Watch For:

A three or more year decline in capital outlay as a percentage of net operating expenditures

### Formula:

$$\frac{\text{Capital outlay}}{\text{Net operating expenditures}}$$

**Capital Outlay**



Fiscal year:	2014	2015	2016	2017	2018
Total capital outlay	\$2,528,204	\$4,236,060	\$2,628,079	\$2,605,751	\$3,708,734
Operating expenditures and transfers	\$22,362,315	\$23,865,160	\$24,080,177	\$25,374,171	\$26,824,480
<b>Capital outlay as a percentage of expenditures</b>	<b>11.31%</b>	<b>17.75%</b>	<b>10.91%</b>	<b>10.27%</b>	<b>13.83%</b>

### Analysis:

Yearly fluctuations in this indicator are the result of the timing and magnitude of different capital projects. The increase in FY 2015 is due to the purchase of property impacted by a transportation project for \$910,000 and land for a future bridge for a recreational trail for \$142,000.

# INDICATOR 11

## Water and Sewer Rates

Fiscal Year	Water Rate	Water Fixed	Sewer Rate	Sewer Fixed
2015	\$4.88	\$3.05	\$5.17	\$3.08
2016	\$5.21	\$3.09	\$5.43	\$3.12
2017	\$5.49	\$2.94	\$5.69	\$2.96
2018	\$6.47	\$2.94	\$5.72	\$2.96
2019	\$6.90	\$2.94	\$5.80	\$2.96

### Analysis:

In FY 1994 the billing structure changed based on a consultant's study from a declining volume rate with a minimum bill system to a fixed billing charge and one volume rate. The rate increases are consistent with the consultant's recommendation. The increases in FY 2018 and FY 2019 water rates are due to a large increase from the Water Authority due to significant capital improvements.

# INDICATOR 12

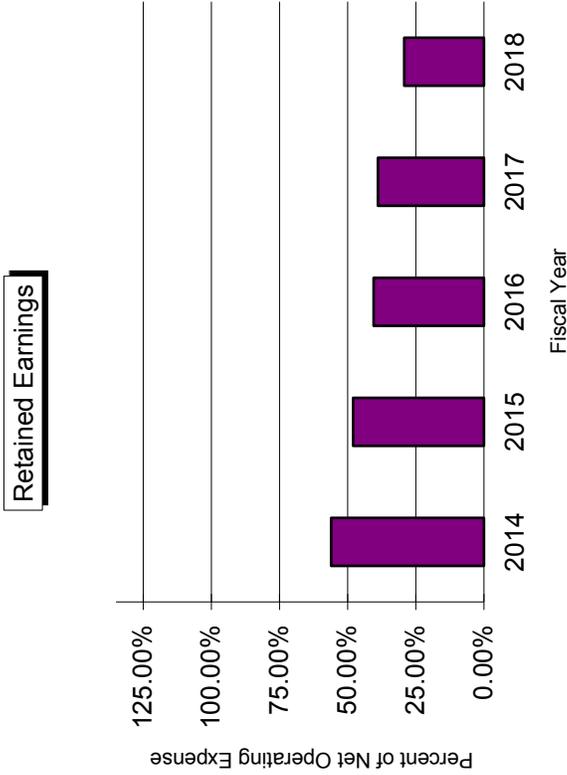
## Retained Earnings - Water and Sewer Fund

### Trend to Watch For:

Declining unreserved retained earnings as a percentage of net operating expenses

### Formula:

$$\frac{\text{Unreserved retained earnings}}{\text{Net operating expenses}}$$



Fiscal year:	2014	2015	2016	2017	2018
Unreserved Water & Sewer Fund Retained Earnings	\$4,322,668	\$3,790,119	\$3,488,913	\$3,370,807	\$2,851,584
Net Operating Expenses	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121
<b>Unreserved Water &amp; Sewer Retained Earnings as a Percentage of Net Operating Expenses</b>	<b>56.06%</b>	<b>48.01%</b>	<b>40.48%</b>	<b>38.91%</b>	<b>29.25%</b>

### Analysis:

The declines in retained earnings are consistent with the comprehensive consultant study on water/sewer rates. The declines in retained earnings are due to capital projects and in line with the study to use retained earnings to fund capital projects.

# INDICATOR 13

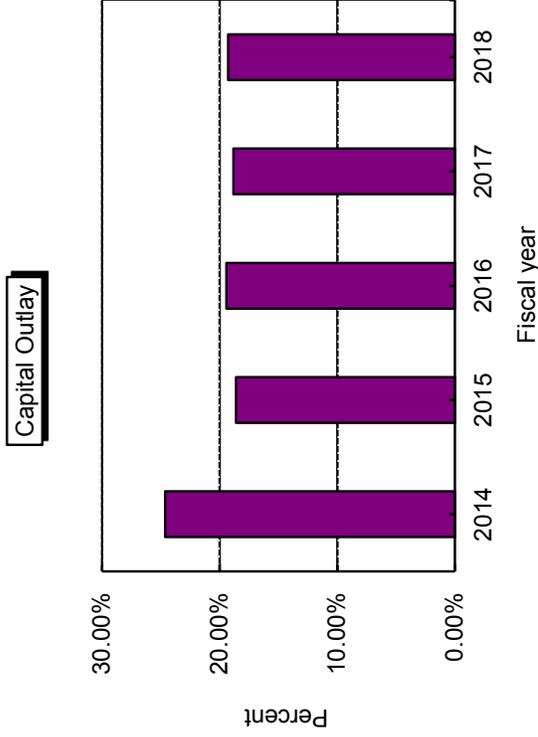
## Capital Outlay - Water and Sewer Fund

### Trend to Watch For:

A three or more year decline in capital outlay as a percentage of net operating expenses and transfers.

### Formula:

$$\frac{\text{Capital outlay}}{\text{Net operating expenditures}}$$



	2014	2015	2016	2017	2018
<b>Fiscal year:</b>					
Total capital outlay	\$1,900,284	\$1,468,504	\$1,674,638	\$1,632,033	\$1,880,088
Operating expenses and transfers	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121
<b>Capital outlay as a percentage of expenses and transfers</b>	<b>24.65%</b>	<b>18.60%</b>	<b>19.43%</b>	<b>18.84%</b>	<b>19.28%</b>

### Analysis:

Yearly fluctuations in this indicator are the result of the timing and magnitude of different capital projects.

# INDICATOR 14

## Debt Service - Water and Sewer Fund

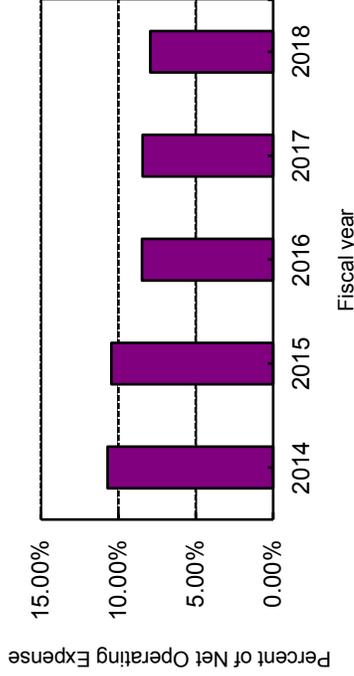
**Debt Service as a Percent of Net Operating Expense**

**Trend to Watch For:**

Increasing debt service as a percentage of net operating expenses.

**Formula:**

$$\frac{\text{Debt Service}}{\text{Net operating Expenses}}$$



Fiscal year:	2014	2015	2016	2017	2018
Debt Service	\$824,454	\$824,949	\$731,091	\$730,662	\$775,031
Net Operating Expenses	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121
<b>Debt Service as a Percentage of Net Operating Expenses</b>	<b>10.69%</b>	<b>10.45%</b>	<b>8.48%</b>	<b>8.43%</b>	<b>7.95%</b>

**Analysis:**

This analysis shows a favorable trend of debt service expenses as a percentage of net operating expenses over the five year period. This trend is caused by stable debt service payments.

# INDICATOR 15

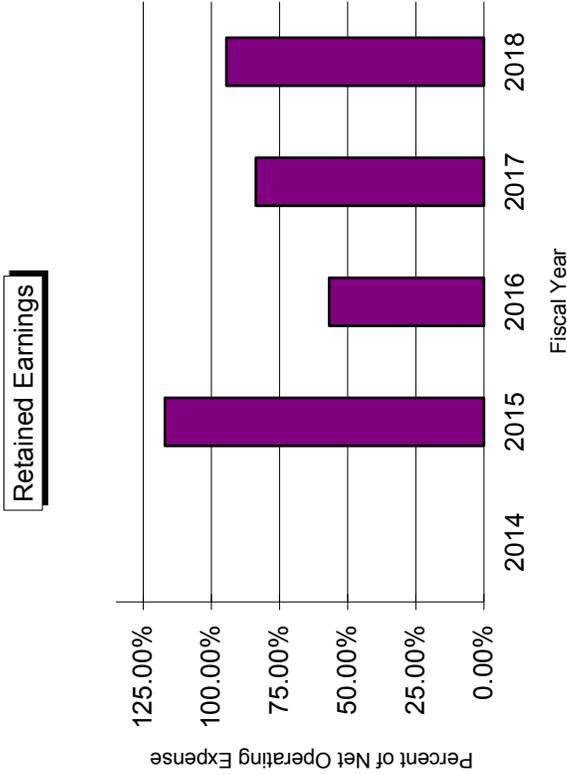
## Retained Earnings - Storm Water Fund

### Trend to Watch For:

Declining unreserved retained earnings as a percentage of net operating expenses

### Formula:

$$\frac{\text{Unreserved retained earnings}}{\text{Net operating expenses}}$$



Fiscal year:	2014	2015	2016	2017	2018
Unreserved Storm Water Fund Retained Earnings	\$0	\$235,469	\$352,879	\$531,255	\$657,785
Net Operating Expenses	\$0	\$201,153	\$621,284	\$634,863	\$696,123
<b>Unreserved Water &amp; Sewer Retained Earnings as a Percentage of Net Operating Expenses</b>	<b>N/A</b>	<b>117.06%</b>	<b>56.80%</b>	<b>83.68%</b>	<b>94.49%</b>

### Analysis:

This fund began January 1, 2015 so 2015 was a half year of operation. The fund is building retained earnings to fund future capital projects.

History of  
**Property Tax Revenue**  
 for the Last Six Fiscal Years

(TABLE 1)

Fiscal Year	Assessed Value			Current Levy			Total Revenue from Property Taxation <sup>1</sup>		
	Amount	Percent Change	Tax Rate	Amount	Percent Change	Current Collections	Total Collections as a % of Levy <sup>1</sup>	Amount	Percent Change
2018	\$3,016,013,200	2.41%	\$0.25/0.26 <sup>4</sup>	\$7,601,144	4.89%	\$7,645,762	100.59%	\$7,690,970	5.75%
2017	\$2,945,059,500	2.89%	\$0.25	\$7,246,451	2.17%	\$7,240,295	99.92%	\$7,272,645	2.73%
2016	\$2,862,199,700	2.97%	\$0.25	\$7,092,709	13.05%	\$7,065,299	99.61%	\$7,079,548	12.34%
2015	\$2,779,569,200 <sup>2</sup>	8.64%	\$0.22/0.25 <sup>3</sup>	\$6,273,944	12.33%	\$6,264,457	99.85%	\$6,301,940	11.16%
2014	\$2,558,500,545	1.02%	\$0.22	\$5,585,423	0.77%	\$5,658,231	101.30%	\$5,669,336	2.15%
2013	\$2,532,699,273	0.03%	\$0.22	\$5,542,953	0.06%	\$5,482,597	98.91%	\$5,550,007	(0.08)%

History of  
**General Fund Revenue  
 Other Than Property Tax**  
 for the Last Six Fiscal Years

(TABLE 2)

Fiscal Year	Intergovernmental Revenues		Other Local Taxes and Licenses		Charges for Rental of Properties and Current Services		All Other Revenue Including Interfund Transfers		Total Revenue	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$4,691,071	3.72%	\$14,899,486	7.63%	\$1,657,455	8.77%	\$4,131,877 <sup>3</sup>	22.64%	\$25,379,889	9.12%
2017	\$4,522,761	3.77%	\$13,843,214	(1.35)%	\$1,523,755	0.97%	\$3,369,035	(13.46)%	\$23,258,765	(2.25)%
2016	\$4,358,439	3.27%	\$14,032,947	5.75%	\$1,509,109	19.31%	\$3,893,011 <sup>2</sup>	43.39%	\$23,793,506	(7.17)%
2015	\$4,220,537	2.09%	\$13,270,478	2.94%	\$1,264,904	(4.45)%	\$6,876,659 <sup>1</sup>	172.74%	\$25,632,578	22.82%
2014	\$4,134,315	(2.83)%	\$12,891,028	2.55%	\$1,323,850	2.38%	\$2,521,335	(6.01)%	\$20,870,528	0.42%
2013	\$4,251,458	3.63%	\$12,570,552	2.27%	\$1,293,123	(11.13)%	\$2,672,989	(66.33)%	\$20,788,122	(19.39)%

History of  
**General Fund Operating  
 Expenditures/Encumbrances**  
 for the Last Six Fiscal Years

(TABLE 3)

Fiscal Year	Public Works Expenditures		Public Safety Expenditures		Parks/Recreation Expenditures		All Other Operating Expenditures <sup>1</sup>		Total Operating Expenditures <sup>2</sup>	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$5,428,857	7.43%	\$9,283,737	3.06%	\$2,397,424	7.07%	\$8,346,834	1.73%	\$25,456,852	3.88%
2017	\$5,053,375	1.03%	\$9,007,935	4.59%	\$2,238,996	2.78%	\$8,204,877	11.97%	\$24,505,183	5.99%
2016	\$5,001,823	0.11%	\$8,612,281	0.12%	\$2,178,379	3.47%	\$7,327,795	1.69%	\$23,120,278	0.92%
2015	\$4,996,082	5.85%	\$8,602,348	4.78%	\$2,105,376	1.91%	\$7,205,861	3.64%	\$22,909,667	4.38%
2014	\$4,720,093	0.74%	\$8,210,248	(4.15)%	\$2,065,887	0.70%	\$6,952,806	6.34%	\$21,949,034	0.56%
2013	\$4,685,609	8.55%	\$8,550,794	6.29%	\$2,051,610	3.93%	\$6,538,242	8.88%	\$21,826,255	7.31%

<sup>1</sup>Includes Legislative, Executive, Finance, Technology, Legal, Planning and Building Safety and Engineering/GIS.

<sup>2</sup>Does not include expenditures for debt service or capital outlay.

# Six-Year Projection of Property Tax Revenue

(TABLE 4)

Fiscal Year	Projected Assessed Value <sup>1</sup>	Projected Tax Rate Per \$100 of Assessed Value	Projected Tax Levy	Current Collection As Percentage of Levy	Projected Current Tax Revenue	Total Projected Current and Delinquent Tax Revenue
2019	\$3,115,775,100	\$0.26	\$8,101,000	98.5%	\$7,979,500	\$8,129,500
2020	\$3,512,378,000	\$0.26	\$9,132,200	98.5%	\$9,145,200	\$9,145,200
2021	\$3,537,914,900	\$0.26	\$9,198,600	98.5%	\$9,060,600	\$9,210,600
2022	\$3,555,603,300	\$0.26	\$9,244,569	98.5%	\$9,105,900	\$9,255,900
2023	\$3,654,978,500	\$0.26	\$9,502,900	98.5%	\$9,360,400	\$9,510,400
2024	\$3,736,313,940	\$0.26	\$9,714,400	98.5%	\$9,568,700	\$9,718,700

<sup>1</sup>Reassessment occurs every four years. Assumes an annual growth of 0.5% for new construction for half- year of FY 2019, an estimated reassessment of 5% for a half-year in 2019 and full- year impact of 13% in 2020 and annual growth of 0.5% for new construction in FY 2021-2024.

# Six Year Projection of Total General Fund Revenue

(TABLE 5)

Fiscal Year	Property Tax <sup>1</sup>	Intergovernmental Revenues <sup>2</sup>	Other Local Taxes and Licenses <sup>3</sup>	Charges for Rental/Current Services <sup>4</sup>	All Other Revenue <sup>5</sup>	Total Revenue
2019	\$8,129,500	\$4,508,700	\$14,774,700	\$4,304,300	\$1,213,000	\$32,930,200
2020	\$9,145,200	\$4,553,787	\$15,365,688	\$4,433,429	\$2,129,560	\$35,627,664
2021	\$9,210,600	\$4,599,325	\$15,980,316	\$4,566,432	\$1,455,571	\$35,812,244
2022	\$9,255,900	\$4,645,318	\$16,619,528	\$4,703,425	\$1,485,043	\$36,709,214
2023	\$9,510,400	\$4,691,771	\$17,284,310	\$4,844,528	\$1,512,983	\$37,843,992
2024	\$9,718,700	\$4,738,689	\$17,975,682	\$4,989,863	\$1,544,403	\$38,967,337

<sup>1</sup> Reflects an average annual growth rate of 4.3%.

<sup>2</sup> Reflects an average annual growth rate of 1.0%.

<sup>3</sup> Reflects an average annual growth rate of 4.1%.

<sup>4</sup> Reflects an average annual growth rate of 3.2%.

<sup>5</sup> Reflects an average annual growth rate of 2.1%.

# Six- Year Projection of General Fund Operating Expenditures

(TABLE 6)

Fiscal Year	Public Works Expenditures		Public Safety Expenditures		Parks/Recreation Expenditures		All Other Operating Expenditures <sup>1</sup>		Total Amount <sup>3</sup>
	Amount	Percent Change <sup>2</sup>	Amount	Percent Change <sup>2</sup>	Amount	Percent Change	Amount	Percent Change <sup>2</sup>	
2019	\$5,568,081	--	\$9,741,770	--	\$2,515,728	--	\$8,911,225	--	\$26,736,804
2020	\$5,757,564	3.40%	\$10,291,050	5.64%	\$2,576,824	2.43%	\$9,284,005	4.18%	\$27,909,443
2021	\$5,840,414	1.44%	\$10,468,859	1.73%	\$2,608,664	1.24%	\$9,280,151	(0.04)%	\$28,198,088
2022	\$5,941,199	1.73%	\$10,651,763	1.75%	\$2,641,436	1.26%	\$9,580,352	3.23%	\$28,814,750
2023	\$6,054,898	1.91%	\$10,857,725	1.93%	\$2,678,543	1.40%	\$9,641,827	0.64%	\$29,232,993
2024	\$6,162,052	1.77%	\$11,051,679	1.79%	\$2,713,315	1.30%	\$9,950,881	3.21%	\$29,877,927

<sup>1</sup> Includes Legislative, Executive, Finance, Legal, Technology, Planning & Building Safety and Engineering/GIS.

<sup>2</sup> Growth factors used for FY 2020 through FY 2024 average approximately 2.3%.

<sup>3</sup> Does not include projections for debt service or capital outlay.

# Six-Year Projection of General Fund Obligated Debt Service

(TABLE 7)

Fiscal Year	Bond Issuance Costs	Leases	2009 Bond Sale	2009 Refunding Bond	2011C Refunding Bond	2012 Bond Sale	2015 Bond Sale & Refunding Bond <sup>1</sup>	FY 2017 Bond Sale (3,250m) <sup>1</sup>	FY 2019 Bond Sale (19,957m) <sup>1</sup>	FY 2022 Bond Sale (8,925m) <sup>1</sup>	Total Debt Service
2019	\$150,000	\$68,696	\$218,922	\$166,352	\$523,015	\$235,581	\$1,025,295	\$216,731	--	--	\$2,604,592
2020	--	\$68,696	\$219,563	--	\$521,102	\$238,331	\$1,041,792	\$217,131	\$1,555,465	--	\$3,862,080
2021	--	\$17,174	\$219,883	--	\$523,986	\$235,556	\$1,028,493	\$217,331	\$1,540,572	--	\$3,782,995
2022	\$150,000	--	\$219,895	--	\$526,618	\$236,856	\$866,756	\$217,331	\$1,510,787	--	\$3,728,243
2023	--	--	\$219,593	--	\$523,725	\$238,056	\$854,181	\$217,131	\$1,481,001	\$503,975	\$4,037,662
2024	\$150,000	--	\$218,908	--	\$134,416	\$234,156	\$861,900	\$216,731	\$1,451,216	\$498,007	\$3,765,334

# General Fund Six-Year Projection of New Capital Financing Potential

(TABLE 8)

Fiscal Year	2019	2020	2021	2022	2023	2024
<b>General Fund Item</b>						
Projected Operating Revenue	\$32,930,200	\$35,627,664	\$35,812,244	\$36,709,214	\$37,843,991	\$38,967,337
New Bond Issue	\$3,257,000	\$16,600,000	\$2,150,000	\$2,100,000	\$9,675,000	\$5,772,500
Use/(Return) of Fund Balance	\$1,084,000	\$1,538,878	\$593,258	\$(670,802)	\$(561,817)	\$(1,980,907)
Less Projected Operating Expenditures	\$26,736,804	\$27,909,443	\$28,198,088	\$28,814,750	\$29,232,993	\$29,877,927
Less Projected Reoccurring Capital Expenditures	\$2,562,410	\$2,550,019	\$2,550,019	\$2,550,019	\$2,550,019	\$2,550,019
Less Debt Service	\$2,604,592	\$3,862,080	\$3,782,995	\$3,728,243	\$4,037,662	\$3,765,334
Net Capital Financing Potential	\$5,367,394	\$19,445,000	\$4,024,400	\$3,045,400	\$11,136,500	\$6,565,650
Debt Service as % of Operating Expenditure	8.88%	12.16%	11.83%	11.46%	12.14%	11.19%
Total Debt as a Percentage of Assessed Value	1.36%	1.25%	1.14%	1.23%	1.15%	1.55%

Note: Ten-year principal payout ratio for 2029 is 43.0% on existing debt and 56.7% with the two projected bond issues.

# History of Water and Sewer Fund Revenue for the Last Six Fiscal Years

(TABLE 9)

Fiscal Year Ending	Water Service Charges		Sewer Service Charges		Availability Fees, Connections, Line Extensions, & Meter Installations		Interest & Other Miscellaneous Revenues		Total Revenue	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$5,915,354 <sup>2</sup>	16.32%	\$4,733,416	0.16%	\$760,208	(8.98)%	\$208,137	6.50%	\$11,617,115	7.22%
2017	\$5,085,612	4.90%	\$4,725,673	7.05%	\$828,461	(21.52)%	\$195,427	(17.77)%	\$10,835,173	2.65%
2016	\$4,847,894	5.44%	\$4,414,652	1.67%	\$1,055,568 <sup>1</sup>	90.83%	\$237,667	46.58%	\$10,555,781	9.32%
2015	\$4,597,874	6.42%	\$4,342,224	4.90%	\$553,139	(27.95)%	\$162,141	(15.98)%	\$9,655,378	2.49%
2014	\$4,320,630	4.25%	\$4,139,446	1.45%	\$767,720	61.48%	\$192,972	(8.45)%	\$9,420,768	5.84%
2013	\$4,144,489	5.73%	\$4,080,082	1.10%	\$475,423	14.42%	\$209,273	7.17%	\$8,909,267	3.98%

# History of Water and Sewer Fund Operating Expenditures for the Last Six Fiscal Years

(TABLE 10)

Fiscal Year Ending	Water Division Other Operating		Payment to Water Authority		Sewer Division Other Operating		Payment to Sewer Authority		All Other Operating <sup>1</sup>		Total Operating Expenditures <sup>2</sup>	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$640,011	5.03%	\$2,867,703	33.17%	\$581,257	16.53%	\$3,263,400	6.22%	\$2,396,751	2.88%	\$9,749,122	12.53%
2017	\$609,349	(12.07)%	\$2,153,468	6.69%	\$498,820	(9.98)%	\$3,072,194	0.34%	\$2,329,702	1.66%	\$8,663,533	0.52%
2016	\$693,021	18.99%	\$2,018,406	7.85%	\$554,097	(12.78)%	\$3,061,791	22.97%	\$2,291,648	(1.02)%	\$8,618,963	9.18%
2015	\$582,415	1.46%	\$1,871,577	5.12%	\$635,293	6.37%	\$2,489,847	3.60%	\$2,315,342	(1.69)%	\$7,894,474	2.39%
2014	\$574,028	4.01%	\$1,780,479	(6.94)%	\$597,262	4.63%	\$2,403,247	2.31%	\$2,355,229	6.84%	\$7,710,245	1.71%
2013	\$551,873	17.69%	\$1,904,023	6.54%	\$570,831	3.89%	\$2,348,860	12.43%	\$2,204,478	10.14%	\$7,580,065	9.92%

<sup>1</sup>Includes Administration, Utility Billing and Pump Station Maintenance.

<sup>2</sup>Does not include expenditures for debt service or capital outlay.

# Six-Year Projection of Water and Sewer Operating Revenues

(TABLE 11)

Fiscal Year Ending	Water Segment				Sewer Segment				Fund Total	
	Service Charges	Fixed Charges	Other <sup>1</sup>	Total Water	Service Charges	Fixed Charges	Other <sup>2</sup>	Total Sewer		
2019	\$6,100,000	\$372,200	\$277,000	\$6,749,200	\$4,640,000	\$342,600	\$15,800	\$4,998,400	\$120,436	\$11,868,036
2020	\$6,173,200	\$391,182	\$290,019	\$6,854,401	\$4,695,680	\$360,073	\$16,543	\$5,072,296	\$121,529	\$12,048,226
2021	\$6,247,278	\$402,136	\$297,559	\$6,946,973	\$4,752,028	\$370,155	\$16,973	\$5,139,156	\$122,650	\$12,208,779
2022	\$6,322,246	\$413,395	\$305,296	\$7,040,937	\$4,809,052	\$380,519	\$17,414	\$5,206,985	\$105,799	\$12,353,721
2023	\$6,398,113	\$424,970	\$313,234	\$7,136,317	\$4,866,761	\$391,173	\$17,867	\$5,275,801	\$93,676	\$12,505,794
2024	\$6,474,890	\$436,869	\$321,378	\$7,233,137	\$4,925,162	\$402,126	\$18,332	\$5,345,620	\$94,883	\$12,673,640

<sup>1</sup>Other Revenue includes Connection Charges, Meter Installations, Service Transfer Fees, Line Extensions and the Sale of Outside Watering Meters.

<sup>2</sup>Other Revenue includes Connection Charges and Line Extensions.

<sup>3</sup>Other Miscellaneous Revenue includes Sale of Materials and Labor, Reconnection Fees, Interest, Collection and Penalties related to Delinquent Bills and Miscellaneous Revenue.

# Six-Year Projection of Water and Sewer Operating Expenditures

(TABLE 12)

Fiscal Year	Payments to Water & Sanitation Authorities <sup>1</sup>	Operating Expenditures	Equipment Replacement	Total Operating Expenditures <sup>2</sup>	Percent Change
2019	\$6,706,349	\$3,671,414	\$289,512	\$10,667,275	--
2020	\$6,786,825	\$3,761,169	\$307,720	\$10,855,714	1.77%
2021	\$6,868,267	\$3,820,943	\$307,720	\$10,996,930	1.30%
2022	\$6,950,686	\$3,883,456	\$307,720	\$11,141,862	1.32%
2023	\$7,034,095	\$3,947,289	\$307,720	\$11,289,104	1.32%
2024	\$7,118,504	\$4,012,478	\$307,720	\$11,438,702	1.33%

<sup>1</sup>Based on wholesale water rates of \$3.61 per 1,000 gallons purchased for FY 2019-2024 and an annual growth of 1.2%.  
<sup>2</sup>Does not include appropriations for debt service or capital outlay.

**Six-Year Projection of  
Water and Sewer Fund  
Obligated Debt Service Expenditures**

(TABLE 13)

<b>Fiscal Year</b>	<b>2009 Refunding Bond</b>	<b>2011C Refunding Bond</b>	<b>2015 Refunding Bond</b>	<b>2017 Bond Sale</b>	<b>2022 Bond Sale</b>	<b>Total Debt Service</b>	<b>Net Revenue Coverage Of Debt Service</b>
2019	\$36,023	\$372,741	\$266,586	\$101,731	--	\$777,081	2.22
2020	--	\$368,553	\$272,489	\$99,531	--	\$740,573	2.22
2021	--	\$369,270	\$267,388	\$102,331	--	\$738,989	2.16
2022	--	\$369,839	\$130,725	\$99,931		\$600,495	2.61
2023	--	\$370,041	\$130,500	\$97,531	\$147,440	\$745,512	2.18
2024		\$369,646	\$130,781	\$100,131	\$145,694	\$746,252	2.04

**Water & Sewer Fund  
Six-Year Projection of  
New Capital Financing Potential**

(TABLE 14)

Water & Sewer Fund Item	2019	2020	2021	2022	2023	2024
Projected Operating Revenue	\$11,868,036	\$12,048,226	\$12,208,779	\$12,353,721	\$12,505,794	\$12,673,640
Availability Fees	\$520,799	\$453,100	\$387,800	\$354,700	\$409,100	\$290,800
New Bond Issue	--	--	\$700,000	\$852,000	\$355,750	--
Use/(Return) of Cash Reserves	--	\$897,170	\$953,035	\$45,219	\$95,797	\$(152,986)
Less Projected Operating Expenditures	\$10,667,275	\$10,855,714	\$10,996,930	\$11,141,862	\$11,289,104	\$11,438,702
Less Debt Service	\$777,080	\$740,573	\$738,989	\$600,495	\$745,512	\$746,252
Net Capital Financing Potential	\$944,480	\$1,802,209	\$2,513,695	\$1,863,283	\$1,331,825	\$626,500

# History of Storm Water Fund Operating Revenue Expenditures for the Last Six Fiscal Years

(TABLE 15)

Fiscal Year Ending	Storm Water Service Charges		Interest & Other Miscellaneous Revenues		Total Revenue		Personnel and Benefits		All Other Operating <sup>1</sup>		Total Operating Expenditures <sup>1</sup>	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$1,061,037	1.80%	\$36,906	40.15%	\$1,097,943	2.75%	\$165,464	2.79%	\$533,659	12.61%	\$699,123	10.12%
2017	\$1,042,232	2.78%	\$26,334	(11.17)%	\$1,068,566	2.38%	\$160,976	8.33%	\$473,887	0.25%	\$634,863	2.19%
2016	\$1,014,048	93.77%	\$29,646	294.91%	\$1,043,694	96.62%	\$148,599	210.39%	\$472,685	208.39%	\$621,284	208.86%
2015	\$523,315	---	\$7,507	---	\$530,822	---	\$47,875	---	\$153,277	---	\$201,152	---
2014	---	---	---	---	---	---	---	---	---	---	---	---
2013	---	---	---	---	---	---	---	---	---	---	---	---

Fund began January 1, 2015

<sup>1</sup>Does not include expenditures for debt service or capital outlay.

# Six Years Projection of Storm Water Fund Operating Revenue and Expenditures

(TABLE 16)

Fiscal Year Ending	Storm Water Service Charges		Interest & Other Miscellaneous Revenues		Total Revenue		Personnel and Benefits		All Other Operating <sup>1</sup>		Total Operating Expenditures <sup>1</sup>	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2019	\$1,075,000	--	\$27,000	--	\$1,102,000	--	\$169,881	--	\$635,234	--	\$805,115	--
2020	\$1,087,900	1.20%	\$37,000	37.04%	\$1,124,900	2.08%	\$177,843	4.69%	\$641,586	0.92%	\$819,429	1.71%
2021	\$1,100,955	1.20%	\$37,345	0.93%	\$1,138,300	1.19%	\$182,207	2.45%	\$648,002	1.00%	\$830,209	1.31%
2022	\$1,114,166	1.20%	\$37,634	0.77%	\$1,151,800	1.18%	\$186,872	2.56%	\$654,482	1.00%	\$841,354	1.34%
2023	\$1,127,536	1.20%	\$37,964	0.88%	\$1,165,500	1.19%	\$191,666	2.57%	\$661,027	1.00%	\$852,693	1.34%
2024	\$1,141,067	1.20%	\$38,333	0.97%	\$1,179,400	1.19%	\$196,593	2.57%	\$667,637	1.00%	\$864,230	1.35%

<sup>1</sup>Does not include expenditures for debt service or capital outlay.

**Storm Water Fund  
Six-Year Projection of  
New Capital Financing Potential**

(TABLE 17)

Storm Water Fund Item	2019	2020	2021	2022	2023	2024
Projected Operating Revenue	\$1,102,000	\$1,124,900	\$1,138,300	\$1,151,800	\$1,165,500	\$1,179,400
New Bond Issue	--	--	\$595,000	--	--	--
Use/(Return) of Cash Reserves	\$39,115	\$(112,971)	\$(40,591)	\$666,554	\$(163,782)	\$(4,314)
Less Projected Operating Expenditures	\$805,115	\$819,429	\$830,209	\$841,354	\$852,693	\$864,230
Less Reoccurring Capital Expenditures	\$3,000	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Less Debt Service	--	--	--	--	\$56,525	\$55,856
Net Capital Financing Potential	\$333,000	\$190,000	\$860,000	\$974,500	\$90,000	\$252,500

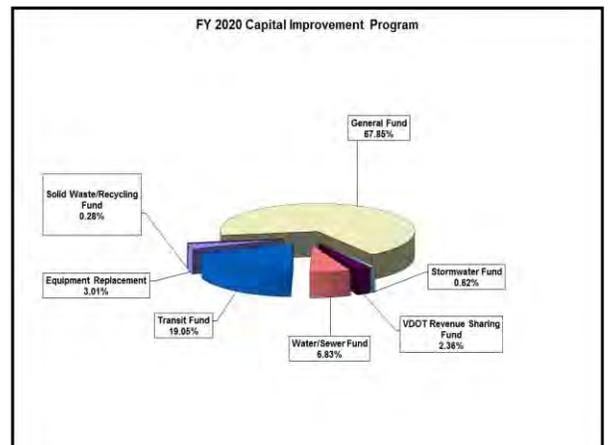
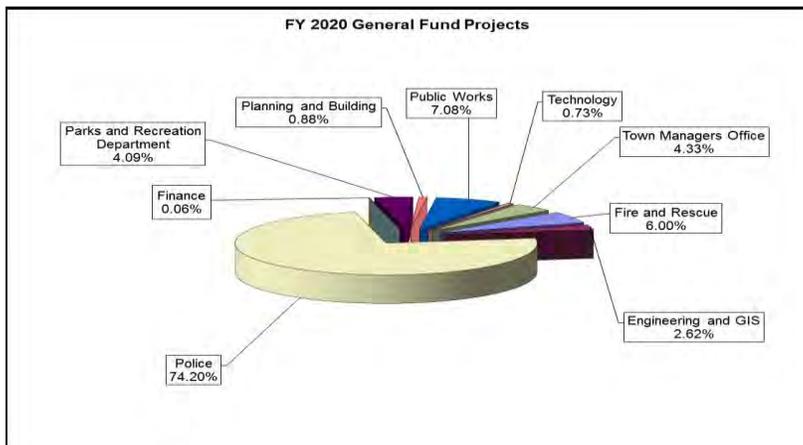
# Capital Improvement Program Summary

## Sources by Fund

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22 - FY 24	Total for 5 Yr CIP	Future Funds Required
<b>Capital Project Funds</b>							
General Obligation Bonds	\$ 42,662,250	\$ 3,107,000	\$ 16,600,000	\$ 4,500,000	\$ 18,455,250	\$ 39,555,250	\$ -
General Funds	17,735,930	1,867,385	3,886,019	3,492,919	8,489,607	15,868,545	-
State Fire Funds	700,000	-	700,000	-	-	700,000	-
State - VDOT	3,862,500	-	492,500	1,892,500	1,477,500	3,862,500	-
Developer Funds	-	-	-	1,400,000	-	1,400,000	-
Grant Funds	-	-	-	-	4,000,000	4,000,000	-
Water/Sewer Funds	8,124,262	355,900	2,109,929	2,121,415	3,537,018	7,768,362	-
Stormwater Funds	2,174,500	390,000	192,500	267,500	1,324,500	1,784,500	-
Solid Waste/Recycling Funds	501,705	25,000	85,341	135,341	256,023	476,705	-
Replacement Funds	7,545,830	-	928,050	1,393,800	5,223,980	7,545,830	-
Transit Local Funds	3,746,223	23,724	588,120	1,277,811	1,856,568	3,722,499	-
State - DRPT	3,817,394	94,895	588,120	1,277,811	1,856,568	3,722,499	-
Federal - FTA	30,847,561	1,067,572	4,704,959	10,222,490	14,852,540	29,779,989	-
<b>Total Capital Projects Funds</b>	<b>\$ 121,718,154</b>	<b>\$ 6,931,476</b>	<b>\$ 30,875,538</b>	<b>\$ 27,981,587</b>	<b>\$ 61,329,553</b>	<b>\$ 120,186,678</b>	<b>\$ -</b>

## Uses by Capital Improvement Program Category

Category/Uses	Total Project Cost	Funded through 6/30/2019	FY20	FY21	FY22 - FY 24	Total for 5 Yr CIP	Future Funds Required
General Government	\$ 10,624,500	\$ 244,100	\$ 907,600	\$ 467,800	\$ 9,005,000	\$ 10,380,400	\$ -
Finance	129,000	-	13,500	-	115,500	129,000	-
Fire and Rescue	3,835,040	38,000	1,257,208	737,208	1,802,624	3,797,040	-
Parks and Recreation	5,448,000	1,266,000	857,000	1,225,000	2,100,000	4,182,000	-
Planning and Buidling	185,000	-	185,000	-	-	185,000	-
Engineering and GIS	16,426,769	201,819	619,600	4,398,500	11,206,850	16,224,950	-
Police	18,909,265	1,763,000	15,543,453	494,453	1,108,359	17,146,265	-
Public Works	10,193,890	217,100	2,142,358	2,437,358	5,397,074	9,976,790	-
Technology	999,466	137,366	152,800	230,100	479,200	862,100	-
Water/Sewer	11,139,012	1,462,900	2,109,929	2,821,415	4,744,768	9,676,112	-
Stormwater	2,769,500	390,000	192,500	862,500	1,324,500	2,379,500	-
Transit	38,411,177	1,186,191	5,881,199	12,778,112	18,565,675	37,224,986	-
Solid Waste/Recycling	501,705	25,000	85,341	135,341	256,023	476,705	-
Equipment Replacement	7,545,830	-	928,050	1,393,800	5,223,980	7,545,830	-
<b>Total Uses</b>	<b>\$ 127,118,154</b>	<b>\$ 6,931,476</b>	<b>\$ 30,875,538</b>	<b>\$ 27,981,587</b>	<b>\$ 61,329,553</b>	<b>\$ 120,186,678</b>	<b>\$ -</b>



**Capital Improvement Program**

**Town Manager**

**TITLE:** Capital Reserve  
**STATUS:** Continuing  
**PROJECT DESCRIPTION:**

The Capital Reserve Project was established in FY2018 with \$200,000 previously received from the sale of an easement to a developer. Each year thereafter it includes \$120,000 which will come from the General Fund. The Capital Reserve project was established for the purpose of accumulating funds to finance all or part of future significant capital projects involving construction, reconstruction or acquisition of property. The criteria and process for use of the funds will be incorporated into the Town's Financial Policies.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 600,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 120,000</b>	<b>\$ 600,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	Continuing	Continuing	120,000	120,000	120,000	120,000	120,000	600,000	Continuing
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 120,000</b>	<b>\$ 600,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
						0

**Capital Improvement Program**

**Town Manager**

**TITLE:** Progress Street Parking Garage

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

Properties were purchased in 2012 and 2014 by the Town to preserve the Town's ability to plan and construct structured parking in the downtown core at a future date. The scope of the project includes an initial feasibility study, architectural design and construction documents and ultimately construction. The scope of the study will include a master plan for the property to include a parking garage as well as the possibility of other mixed uses (commercial, office, retail and residential). The project funding for design and construction is limited to only a publicly funded parking garage. The possibility of other mixed uses and associated design and construction costs would be sought through a public/private partnership. The form and architectural aspects will also be studied with a focus on the appropriate interaction with the surrounding neighborhood and Progress Street streetscape.

**OPERATING IMPACT:** Long-term impact to be determined

**GOAL ADDRESSED:** Plan for additional downtown parking and future redevelopment.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 150,000	\$ 150,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	750,000		750,000		750,000	7,875,000		9,375,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 900,000</b>	<b>\$ 150,000</b>	<b>\$ 750,000</b>	<b>\$ 0</b>	<b>\$ 750,000</b>	<b>\$ 7,875,000</b>	<b>\$ 0</b>	<b>\$ 9,375,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,650,000	\$ 150,000	\$ 750,000	\$	\$ 750,000	\$	\$	\$ 1,500,000	\$
Construction	7,875,000					7,875,000		7,875,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 9,525,000</b>	<b>\$ 150,000</b>	<b>\$ 750,000</b>	<b>\$ 0</b>	<b>\$ 750,000</b>	<b>\$ 7,875,000</b>	<b>\$ 0</b>	<b>\$ 9,375,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
						0

**Capital Improvement Program**

**Town Manager**

**TITLE:** Former Court Space Renovation

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

In 2012 the Blacksburg Division of the Montgomery County Circuit Court moved from the Municipal Building to the new Courthouse in Christiansburg. The vacated space on the second floor was originally designed to serve as a library for the community. When the court moved into the space, it was remodeled to provide administrative space including offices, meeting rooms, and a customer service area. The second level of the space has been used for storage of various records and includes a storage system.

The intent of this project is to renovate the former court area into a space that meets the needs of the municipal organization. The project is broken down into three phases: programming, design and construction. The most critical phase of the project is the programming phase because it will identify the Town's space needs and an estimated construction cost based on the identified needs. The project includes \$25,000 for programming and design and \$300,000 for construction. The estimate for construction is a very preliminary estimate based on general square footage costs without knowing what the uses will be. A more precise estimate will be available after the programming phase is completed.

**OPERATING IMPACT:** Costs already in operating budget

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2018	Summer 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$ 25,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	300,000			300,000				300,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 325,000</b>	<b>\$ 25,000</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 25,000	\$ 25,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	300,000			300,000				300,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 325,000</b>	<b>\$ 25,000</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						\$ 0

**Capital Improvement Program**

**Housing and Neighborhood Services**

**TITLE:** Energy Efficiency Upgrades

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

Energy audits have been conducted on several town facilities by two local energy efficiency contractors. The funds pay for the following improvements to the facilities, as recommended by the audits. Projects are prioritized by estimated return on investment.

- 1) Price House - \$11,600 - Insulation and air sealing in basement and attic.
- 2) Bennet House - \$26,000 - Insulation and air sealing in basement and attic.
- 3) Old Town Hall - \$26,200 - Insulation and air sealing in basement, attic, crawlspace, and exterior walls; duct air sealing.
- 4) Thomas Conner House - \$21,600 - Insulation and air sealing in basement and attic; duct replacement.

The Sustainability Office will continue to coordinate with Public Works, as has been done in previous years, on all the improvements that are made.

**OPERATING IMPACT:** Improvements will reduce energy use in the buildings upgraded. No long term impacts, only staff time to manage projects.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 137,500	\$ 52,100	\$ 37,600	\$ 47,800	\$	\$	\$	\$ 85,400	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 137,500</b>	<b>\$ 52,100</b>	<b>\$ 37,600</b>	<b>\$ 47,800</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 85,400</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	137,500	52,100	37,600	47,800				85,400	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 137,500</b>	<b>\$ 52,100</b>	<b>\$ 37,600</b>	<b>\$ 47,800</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 85,400</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Minimal						0

**Capital Improvement Program**

**Town Manager**

**TITLE:** Downtown Kiosk Panel Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will fund the design and fabrication of nine updated panels for the three downtown kiosks (two on College Avenue and one on the Corner of Turner and Main). The content and graphics contained on the panels are still current. There is also the possibility of expense sharing on one panel with Virginia Tech. The panels should be replaced every five years to ensure quality information.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2023	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 37,000	\$ 17,000	\$	\$	\$	\$ 20,000	\$	\$ 20,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 37,000</b>	<b>\$ 17,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 20,000</b>	<b>\$ 0</b>	<b>\$ 20,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 37,000	\$ 17,000	\$	\$	\$	\$ 20,000	\$	\$ 20,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 37,000</b>	<b>\$ 17,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 20,000</b>	<b>\$ 0</b>	<b>\$ 20,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Finance Department**

**TITLE:** I-Series Peripheral Equipment Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project establishes funding for replacement of the peripheral equipment, such as the laser MICR printers, pressure sealer, cash receipts printers, automated remittance system and console display. The majority of this equipment will be replaced in FY 2019. The average life of this type of equipment is five years. Due to excellent maintenance, the useful life has been extended on this equipment.

**OPERATING IMPACT:** Replacement of current equipment, annual service contract fees already in the operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 13,500	\$	\$	\$	\$ 30,500	\$ 44,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 13,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,500</b>	<b>\$ 44,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	13,500				30,500	44,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 13,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,500</b>	<b>\$ 44,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Finance Department**

**TITLE:** I-Series Hardware Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

The I-Series houses the Town’s integrated financial applications such as payroll, real estate taxes, meals taxes, utility billing, fleet management, purchasing and inventory, budgeting and general ledger functions. The I-Series was last replaced in FY 2018. The I-Series has a useful life of five to seven years and is a stable and flexible platform for the integrated financial application. To ensure the Town can continue its excellent customer service to our citizens and Town departments, the I-Series will need to be replaced every five years to accommodate the growth of data history and new applications, such as analytical analysis tools.

**OPERATING IMPACT:** Replacement of current equipment, annual service contract fees already in the operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Winter 2023	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$	\$	\$	\$ 42,000	\$	\$ 42,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 42,000</b>	<b>\$ 0</b>	<b>\$ 42,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing				37,000		37,000	Continuing
Contractual Services	Continuing	Continuing				5,000		5,000	Continuing
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 42,000</b>	<b>\$ 0</b>	<b>\$ 42,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Finance Department**

**TITLE:** Online Business License Application

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project establishes funding for the acquisition of the Click2Gov Business License application. This application meets the ever-growing demand for electronic transactions. It is a fully integrated internet filing and payment solution which enables the customers to file, renew and pay their business license, meals tax and/or hotel tax filings online. This will join the other online payment applications the Town currently offers its customers.

**OPERATING IMPACT:** Annual support costs and credit card discount costs.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2022	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 43,000	\$	\$	\$	\$ 43,000	\$	\$	\$ 43,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 43,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 43,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 43,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	22,500				22,500			22,500	
Contractual Services	20,500				20,500			20,500	
<b>Total Uses</b>	<b>\$ 43,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 43,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 43,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Annual support costs and discount fees			7,500	7,500	7,500	22,500

**Capital Improvement Program**

**Technology Department**

**TITLE:** Technology Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funds each year to allow the Technology Department to replace 20% of the existing desktop and laptops used by staff. There are currently 270 computers in use by town departments that are targeted by this fund for replacement. In addition, this will fund the replacement of tablets, printers, wireless equipment and various components of the Town network. This fund does not cover computers purchased with Enterprise Funds or the I-Series or I-Series peripherals.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 62,800	\$ 58,100	\$ 57,400	\$ 65,800	\$ 66,000	\$ 310,100	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 62,800</b>	<b>\$ 58,100</b>	<b>\$ 57,400</b>	<b>\$ 65,800</b>	<b>\$ 66,000</b>	<b>\$ 310,100</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	62,800	58,100	57,400	65,800	66,000	310,100	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 62,800</b>	<b>\$ 58,100</b>	<b>\$ 57,400</b>	<b>\$ 65,800</b>	<b>\$ 66,000</b>	<b>\$ 310,100</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Network Switch Equipment

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will allocate funds for the Technology Department to upgrade network equipment that has an estimated use of life of five to ten years. New network, firewall, storage technologies and the continued demand for faster data transfer rates have necessitated the need for this equipment.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 59,366	\$ 44,366	\$	\$	\$ 15,000	\$	\$	\$ 15,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 59,366</b>	<b>\$ 44,366</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	59,366	44,366			15,000			15,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 59,366</b>	<b>\$ 44,366</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Network Firewall Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the replacement of the Internet firewalls every five years. Cyber security is more important than ever to the welfare of any organization. This firewall is the main internet entry and exit point for Town internet communications. There is a need to increase the speed and intelligence of the existing system to address the modern cyber threats and deal with new technologies such as video and other agency partnerships. These systems are purchased in pairs to have failover capabilities and to never have unfiltered protection for the organization.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 40,000	\$	\$	\$	\$	\$ 40,000	\$	\$ 40,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	40,000					40,000		40,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Wireless Infrastructure Replacement

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project funds the replacement of existing wireless systems every five years. Wireless systems allow staff to roam buildings and be seamlessly connected to the Town network. In addition, service is available for key stakeholders of the Town, such as consultants and citizens and for other ad hoc wireless needs. Wireless controller replacement is evaluated every six - seven years.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2023	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$	\$	\$	\$	\$	\$ 25,000	\$ 25,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	25,000						25,000	25,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Network Core Switch Equipment

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the upgrade of core switch equipment that has an estimated ten-year life. Current core switches were replaced in FY 2011. New network, firewall, and storage technologies and the continuing demand for faster data transfer rates have necessitated the need for this equipment.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 70,000	\$	\$	\$	\$ 70,000	\$	\$	\$ 70,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 70,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	70,000				70,000			70,000	0
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 70,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Microsoft Office Software Licensing

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will fund the acquisition of Microsoft Office software for staff desktop computers. This will purchase licensing for the newer versions of the server software that has been released since the last licensing update in FY 2018. This licensing is evaluated every four years.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 111,000	\$ 63,000	\$	\$ 48,000	\$	\$	\$	\$ 48,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 111,000</b>	<b>\$ 63,000</b>	<b>\$ 0</b>	<b>\$ 48,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 48,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	111,000	63,000		48,000				48,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 111,000</b>	<b>\$ 63,000</b>	<b>\$ 0</b>	<b>\$ 48,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 48,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Licensing Update - Servers

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project will fund the acquisition of Microsoft software for the servers we use. This will purchase licensing for the newer versions of the server software that has been released since the last licensing update in FY 2016. This licensing is evaluated every three years.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ 30,000	\$	\$	\$ 30,000	\$	\$	\$ 30,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 60,000</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	60,000	30,000			30,000			30,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 60,000</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Server Room UPS Replacement

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project will fund the replacement/upgrade of the three server room UPS systems. These systems are located at the Municipal Building, Transit and Police.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 45,000	\$	\$	\$ 45,000	\$	\$	\$	\$ 45,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	45,000			45,000				45,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Minimal						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** SAN Upgrade/Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will fund the replacement of the existing SAN storage every five years. SAN storage is the primary location for most of the Town data.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	\$ 29,000	\$ 90,000	\$	\$	\$	\$	\$ 90,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 29,000</b>	<b>\$ 90,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 90,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	29,000	90,000					90,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 29,000</b>	<b>\$ 90,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 90,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Data Backup Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the replacement of existing data backup systems every five years. Data backup protects the Town data from loss and is a critical piece of Technology business continuity plans.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$	\$	\$	\$ 60,000	\$	\$	\$ 60,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	60,000				60,000			60,000	0
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Server Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will fund the replacement of existing network servers every five years. Servers are critical in allowing town staff to access data for all needs.

**OPERATING IMPACT:** Operating costs already in operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2022	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	\$	\$	\$	\$	\$ 50,000	\$	\$ 50,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing					50,000		50,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Technology Department**

**TITLE:** Long Term Data Storage

**STATUS:** New

**PROJECT DESCRIPTION:**

It is anticipated that the organization will need significant new data storage capacity in the next couple of years due to the expansion of video systems that are being planned by Police, Public Works and other departments. There are some excellent Enterprise solutions for data retention of all data types, including video, for short-term, long-term, cloud or permanent storage. The Technology Department would like to install a solution that can meet the needs of all agencies of the Town. A data storage solution can save the Town money by decreasing the need for more expensive SAN storage and for unique silos of storage systems that applications would require.

**OPERATING IMPACT:** Annual support costs.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 79,000	\$	\$	\$ 79,000	\$	\$	\$	\$ 79,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 79,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 79,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 79,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	79,000			79,000				79,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 79,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 79,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 79,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Support costs			5,000	5,000	5,000	15,000

**Capital Improvement Program**

**Police Department**

**TITLE:** Police Department - New Building

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

The current Police Department building was constructed in 1981 with an addition completed in 1991. In 1981, the department consisted of 25 sworn officers. Today the department has more than 65 sworn officers plus 12 civilian employees and the current building is not able to accommodate any additional personnel. The training room is no longer available as a community room due to being converted to a roll call room to accommodate a whole shift. Offices have two to three occupants in spaces that were designed for one. Personnel have used converted closet spaces for offices. The department completed a feasibility study in 2013/14. The result of the study showed the need for both additional space for personnel, spaces to meet the needs of today and the future of the Police Department, as well as community space. The study shows the potential need for additional land or a new location to accommodate all the space needs for the future.

**OPERATING IMPACT:** Long-term operating costs to be determined.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	16,550,000	1,550,000	15,000,000					15,000,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 16,550,000</b>	<b>\$ 1,550,000</b>	<b>\$15,000,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,550,000	\$ 1,550,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	15,000,000		15,000,000					15,000,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 16,550,000</b>	<b>\$ 1,550,000</b>	<b>\$15,000,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 15,000,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined						0

**Capital Improvement Program**

**Police Department**

**TITLE:** Traffic Committee

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will allow the Traffic Committee to respond in a timely manner to citizen and staff concerns regarding potentially hazardous conditions and evaluate the potential impact of new development/infill on established traffic patterns and volumes. These identified conditions are often time sensitive and cannot await resolution through the regular Capital Improvement Program (CIP) process or they require additional research to support the successful acquisition of CIP funds. These funds will be administered by the Traffic Committee with oversight and direction from the Town Manager's Office. An illustrative list of possible expenditures would include: measuring/counting equipment, consultant costs and/or professional assistance and matching funds for grant specific applications.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Police Department**

**TITLE:** Police Video, Data Storage and Technology Upgrade

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

The Blacksburg Police Department has been equipping patrol vehicles with in-car cameras since 1999 and laptop computers since 2011. With the Fusion Center and NRV Consolidated Communication Center, the department’s current equipment is obsolete and does not meet the required specifications needed to operate efficiently. The current in-car video systems and data storage are no longer supported. Within the next few years, the entire patrol fleet will have to be switched over to upgraded in-car video systems and laptop computers. The Police Department is currently outfitting the new patrol vehicles with an upgraded in-car video system and a new compatible server with data evidence storage is being installed in the building. This upgraded system is also compatible with other various video and audio recording devices that could be implemented in evidence collection and storage. Research and development is still ongoing with other video and audio recording devices.

**OPERATING IMPACT:** Increased support costs.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 447,000	\$ 197,000	\$ 125,000	\$ 125,000	\$	\$	\$	\$ 250,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 447,000</b>	<b>\$ 197,000</b>	<b>\$ 125,000</b>	<b>\$ 125,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 250,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	447,000	197,000	125,000	125,000				250,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 447,000</b>	<b>\$ 197,000</b>	<b>\$ 125,000</b>	<b>\$ 125,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 250,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Warranty and annual service costs		7,500	7,500	7,500	7,500	\$ 30,000

**Capital Improvement Program**

**Police Department**

**TITLE:** Modular Vehicle Barriers

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This project allows the Police Department to use the modular vehicle barriers during Town, Civic Organizations and group sponsored events that require road closures to protect town personnel, attendees, volunteers, vendors and performers from a vehicular threat.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 65,000	\$ 16,000	\$ 49,000	\$	\$	\$	\$	\$ 49,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 65,000</b>	<b>\$ 16,000</b>	<b>\$ 49,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 49,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	65,000	16,000	49,000					49,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 65,000</b>	<b>\$ 16,000</b>	<b>\$ 49,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 49,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Fire Department**

**TITLE:** Turnout Gear  
**STATUS:** In Progress  
**PROJECT DESCRIPTION:**

Purchase additional turnout gear for all active members for compliance with national fire standards. This project is needed to wash, dry and decontaminate gear after fires to remove contaminants. Additional gear allows firefighters to switch to the second gear as the wet-duty gear is processed.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 75,000	\$ 50,000	\$ 25,000	\$	\$	\$	\$	\$ 25,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 75,000</b>	<b>\$ 50,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	75,000	50,000	25,000					25,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 75,000</b>	<b>\$ 50,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Fire Department**

**TITLE:** Station Security for Fire Facilities

**STATUS:** New

**PROJECT DESCRIPTION:**

This project will replace and update the current door access in all fire facilities to be combined with the system used town-wide.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$	\$ 25,000	\$	\$	\$	\$	\$ 25,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	25,000		25,000					25,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Fire Department**

**TITLE:** Multipurpose Fire Truck

**STATUS:** New

**PROJECT DESCRIPTION:**

The current fire truck housed at Fire Station 3 was donated to the department in 2010. The repair costs are becoming excessive and the future operation of the vehicle is in doubt. The replacement vehicle will be multi-purposed to be utilized for response to aircraft crashes and accidents involving vehicles transporting large amounts of volatile liquids. This vehicle is garaged at the fire station at the Airport and is needed to fight any aircraft mishaps. The vehicle is proposed to be funded with previously received Virginia Fire Funds.

**OPERATING IMPACT:** Replacement of the current equipment, annual operating costs already in the operating budget.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Fire Funds	\$ 700,000	\$	\$ 700,000	\$	\$	\$	\$	\$ 700,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	700,000		700,000					700,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Rescue Department**

**TITLE:** Cardiac Monitors/Defibrillators

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Effective cardiac monitoring and intervention is a critical aspect of advanced pre-hospital life support. Cardiac monitors and defibrillators have been shown to significantly improve the chances of survival in heart attacks and sudden cardiac events. The devices currently used by Rescue were purchased in 2017 and have an expected lifespan of five to seven years. As science and technology improve, maintaining high quality equipment and training ensures that the citizens of Blacksburg will benefit from the highest level of protection and safety. This project includes a full cardiac monitor (automatic and manual defibrillation, cardiac monitoring, twelve lead analysis and transmission, End-Tidal CO2 Monitoring, Pacing, Pulse Oximetry and non-invasive Blood Pressure) for each ambulance and critical medical first response units. Other rescue vehicles and the station lobby are outfitted with Automated External Defibrillators (AED) to provide initial treatment until an ambulance or Advanced Life Support (ALS) vehicle arrives. These include all marked rescue and support vehicles.

**OPERATING IMPACT:** Cost already in operating budget.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2022	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 395,000	\$	\$	\$	\$	\$ 395,000	\$	\$ 395,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 395,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 395,000</b>	<b>\$ 0</b>	<b>\$ 395,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	395,000					395,000		395,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 395,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 395,000</b>	<b>\$ 0</b>	<b>\$ 395,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Rescue Department**

**TITLE:** Chest Compression System

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

A chest compression system is an automated chest compression device which is designed to help improve outcomes of sudden cardiac arrest victims and improve operations for medical responders. Our goal is to ensure each ambulance is equipped with this device to provide consistent top-level medical care to the citizens of Blacksburg regardless of the specific ambulance unit that responds. We currently own two units and have four ambulances without them. We have attempted to obtain more through state and local grants for the past two years and have been unsuccessful. We hope to increase to four total units in FY 2019 and six total units in FY 2020 to complete this goal.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 76,000	\$ 38,000	\$ 38,000	\$	\$	\$	\$	\$ 38,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 76,000</b>	<b>\$ 38,000</b>	<b>\$ 38,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 38,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	76,000	38,000	38,000					38,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 76,000</b>	<b>\$ 38,000</b>	<b>\$ 38,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 38,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Rescue Department**

**TITLE:** Ambulance Replacement

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

The Town of Blacksburg currently has three ambulances in the Vehicle Replacement Schedule and a fourth reserve ambulance which is not on a replacement schedule but is instead kept as appropriate during regular replacements. This system has worked well for the past twenty years, but since 1997, our call volume has increased from 1,872 to 3,150 calls per year (a 68% increase). We do not intend to increase our ambulance fleet size but simply can't rely on the uncertainty of an unscheduled reserve ambulance much longer.

**OPERATING IMPACT:** Replacing current equipment, annual operating costs already in operating budget.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 268,000	\$	\$	\$ 268,000	\$	\$	\$	\$ 268,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 268,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 268,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 268,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	268,000			268,000				268,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 268,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 268,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 268,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Parking Lot Repaving, Sealing and Striping

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds repaving, sealing and striping parking lots at properties maintained by the Town of Blacksburg.

- FY2019/20 Funding is reserved for the Golf Course Lot and Golf Cart Paths.
- FY2020/21 Funding is reserved for the Public Works Back Lot.
- FY2021/22 Funding is reserved for the Caboose Park Parking Lot.
- FY2022/23 Funding is reserved for the Toms Creek Ballfield Parking Lot.
- FY2023/24 Funding is reserved for the Recreation Center and Aquatic Center Parking Lots.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 110,000	\$ 140,000	\$ 75,000	\$ 50,000	\$ 120,000	\$ 495,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 110,000</b>	<b>\$ 140,000</b>	<b>\$ 75,000</b>	<b>\$ 50,000</b>	<b>\$ 120,000</b>	<b>\$ 495,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	110,000	140,000	75,000	50,000	120,000	495,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 110,000</b>	<b>\$ 140,000</b>	<b>\$ 75,000</b>	<b>\$ 50,000</b>	<b>\$ 120,000</b>	<b>\$ 495,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Rental Property Maintenance

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds major maintenance and unexpected repairs to rental properties owned by the Town. Examples of projects funded in past years include fire escape replacement, floor refinishing, interior and exterior painting, shutter replacement and porch repairs.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Town Building Masonry Repair

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This project funds the restoration of masonry and brick at Town buildings. Prior funds were allocated for the research on the community center nonstructural interior cracks and rehabilitation of the Five Chimney mortar and exterior bricks. FY 2019/20 funding is reserved for exterior rehabilitation of mortar and exterior bricks at The Thomas Connor House.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Summer 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 90,000	\$ 60,000	\$ 30,000	\$	\$	\$	\$	\$ 30,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 90,000</b>	<b>\$ 60,000</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	90,000	60,000	30,000					30,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 90,000</b>	<b>\$ 60,000</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Major Facilities Repair and Maintenance

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the annual miscellaneous improvements to Town owned buildings in accordance with annual safety, security and condition inspections. Typical improvements funded by this project include gutter/downspout repairs, roof repairs, door and window replacements, heating/air conditioning ductwork repairs, alarm and access control system upgrades and site drainage improvements.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 100,000</b>	<b>\$ 500,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing
Construction								0	
Equipment	Continuing	Continuing	80,000	80,000	80,000	80,000	80,000	400,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 100,000</b>	<b>\$ 500,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Transfers to Building Systems Depreciation Fund

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project supports the Major Building System replacement project by transferring funds to a depreciation fund, which is used to replace major building systems prior to their failure.

**OPERATING IMPACT:** None

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 115,576	\$ 115,576	\$ 115,576	\$ 115,576	\$ 115,576	\$ 577,880	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 115,576</b>	<b>\$ 577,880</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	115,576	115,576	115,576	115,576	115,576	577,880	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 115,576</b>	<b>\$ 577,880</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24**

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Aquatic Center</b>					
Heat Exchanger - Spa	2005	20	\$13,200	\$660	2025
Heat/cool roof top package unit - Lobby Area	2005	15	\$11,000	\$733	2020
Z pack duct energy recovery system heat w/ duct heater	2018	20	\$60,000	\$3,000	2038
1 gas fired domestic water heater	2015	20	\$20,000	\$1,000	2035
1 gas fired boiler	1992	27	\$75,000	\$0	2019
Energy Recovery Unit/ heat-air-dem-Pool Area (Dectron)	2003	16	\$330,000	\$0	2019
A - Heat Exchangers - Pool	2015	20	\$8,000	\$400	2035
B - Heat Exchangers - Pool	2018	20	\$8,000	\$400	2038
Spa Pumps - Heat - A	2017	20	\$2,772	\$139	2037
Spa Pumps - Heat - B	2017	20	\$2,772	\$139	2037
Pool Pumps - Heat - A	1992	28	\$3,500	\$125	2020
Pool Pumps - Heat - B	1992	28	\$3,500	\$125	2020
Building Pump - Heat - A	1992	30	\$5,740	\$191	2022
Building Pump - Heat - B	1992	30	\$5,740	\$191	2022
			<b>\$549,224</b>	<b>\$7,103</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Armory</b>					
6 A/C units with gas heat	2007	20	\$75,000	\$3,750	2027
1 a/c split system w/ gas furnace	2007	20	\$4,400	\$220	2027
			<b>\$79,400</b>	<b>\$3,970</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Bennett</b>					
1 ea forced air electric furnace w/ heat pump	2004	20	\$3,000	\$150	2024
1 ea forced air gas furnace w/ A/C	2004	20	\$3,300	\$165	2024
2 ea a/c split system	2004	20	\$8,800	\$440	2024
			<b>\$15,100</b>	<b>\$755</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Cemetery</b>					
Gas fired furnace with A/C	2015	20	\$8,000	\$400	2035
A/C Condensor	2015	20	\$5,500	\$275	2035
Gas Fired Unit Heater	2015	15	\$4,000	\$267	2030
			<b>\$17,500</b>	<b>\$942</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Five Chimneys</b>					
1 a/c split system	2016	15	\$5,000	\$333	2031
1 gas fired furnace	2016	15	\$5,000	\$333	2031
1 ERV	2016	15	\$2,000	\$133	2031
			<b>\$10,000</b>	<b>\$667</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Golf Course Pro Shop</b>					
Heat Pump with backup electric heat	2017	20	\$14,454	\$723	2037
			<b>\$14,454</b>	<b>\$723</b>	

<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
<b>Golf Course Maintenance Shop</b>					
Irrigation pump system - Controls	2018	10	\$14,100	\$1,410	2028
Irrigation pump system - Pump	1994	30	\$5,000	\$167	2024
3 Gas Furnace	2011	20	\$9,000	\$450	2031
			<b>\$28,100</b>	<b>\$2,027</b>	

**Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24**

<b>Municipal Building</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	1 A/C ductless split system computer room	2012	15	\$11,000	\$733	2027
	1 A/C ductless split system computer room	2012	15	\$11,000	\$733	2027
	roof top package HVAC 1st and 2nd floor	2012	20	\$145,000	\$7,250	2032
	VRF A/C system w/ ERV 3rd floor	2012	15	\$75,000	\$5,000	2027
	A/C split system Town Hall Conference Room 1st floor	2017	15	\$4,000	\$0	2032
	Roof top package w/ gas heat council chambers	2017	20	\$22,000	\$0	2037
	Roof top A/C unit council chambers	2017	20	\$4,000	\$0	2037
	A/C condenser split system court offices	2001	18	\$7,700	\$0	2019
	Indoor air handler court offices	1992	27	\$5,000	\$0	2019
	Indoor duct heater court offices	1992	27	\$9,000	\$0	2019
	control system court offices	1992	27	\$5,000	\$0	2019
	Packaged Terminal Heat Pump break room 1st floor	2017	10	\$1,500	\$150	2027
	Domestic water heater 1st floor	2007	15	\$12,100	\$807	2022
	Elevator	2012	30	\$98,000	\$3,267	2042
				<b>\$410,300</b>	<b>\$17,940</b>	

<b>Old Town Hall</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	1 forced air gas furnace	2005	15	\$6,600	\$440	2020
	1 split a.c system / heat pump	2005	15	\$6,600	\$440	2020
				<b>\$13,200</b>	<b>\$880</b>	

<b>Parks &amp; Rec Administration</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	3 forced air furnaces	2018	20	\$9,900	\$495	2038
	3 split a/c systems	2018	20	\$16,500	\$825	2038
				<b>\$26,400</b>	<b>\$1,320</b>	

<b>Police Department Building</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	roof top cooling & heating unit - Chief Area	2003	20	\$15,000	\$750	2023
	roof top cooling & heating unit - Training Room	2003	20	\$10,000	\$500	2023
	1 roof top cooling & heat unit - Jail	1999	20	\$12,000	\$0	2019
	1 pneumatic control system	1982	37	\$16,500	\$0	2019
	1 gas fired boiler	1982	37	\$27,500	\$0	2019
	2 a/c condenser split systems	1998	21	\$8,800	\$0	2019
	1 VAV Controller	1992	27	\$8,800	\$0	2019
	2 custom built air handler w/hot water heat	1982	37	\$12,000	\$0	2019
	a/c system heat w/electric furnace - evidencne area	2000	20	\$4,000	\$200	2020
	1 A/C Ductless Split Sys. - record room/IT	2013	20	\$7,200	\$360	2033
	1 A/C Ductless Split Sys. - Fusion Center	2017	20	\$10,578	\$529	2037
				<b>\$132,378</b>	<b>\$2,339</b>	

<b>Police Storage Building</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	1 gas fired furnace	1999	20	\$3,850	\$0	2019
				<b>\$3,850</b>	<b>\$0</b>	

<b>Police Communication Building - Clay Street</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	4 a/c units w/electric heat	1997	22	\$24,000	\$0	2019
				<b>\$24,000</b>	<b>\$0</b>	

<b>Police Communication Building - North main Street</b>	<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
	2 a/c units w/electric heat	2000	20	\$13,000	\$650	2020
				<b>\$13,000</b>	<b>\$650</b>	

Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>Price House</b>					
2 a/c split ductless heat pumps	2009	15	\$20,000	\$1,333	2024
			<b>\$20,000</b>	<b>\$1,333</b>	
<b>Price's Fork Rd. Fire House (FS-2)</b>					
2 split a/c systems	2005	15	\$17,600	\$1,173	2020
2 forced air furnaces	1991	29	\$8,800	\$303	2020
2 infrared tube heaters	1991	30	\$8,800	\$293	2021
2 a/c & heat pump systems (LG)	2014	15	\$12,500	\$833	2029
			<b>\$47,700</b>	<b>\$2,603</b>	
<b>Progress St. Fire House (FS-1)</b>					
1 pneumatic control system	1986	33	\$16,500	\$0	2019
1 gas fired boiler - main level and basement	1986	33	\$38,500	\$0	2019
1 gas fired boiler - Bay area	1986	33	\$35,000	\$0	2019
3 roof top a/c package units	1991	28	\$33,000	\$0	2019
2 split a/c systems	1996	23	\$17,600	\$0	2019
ductless heat pump dual zone unit	2007	20	\$5,000	\$250	2027
2 hanging air handler - bay area	1983	36	\$10,000	\$0	2019
Exterior Vertical Lift	2012	15	\$15,000	\$1,000	2027
Water heating System	2018	10	\$30,000	\$3,000	2028
			<b>\$200,600</b>	<b>\$4,250</b>	
<b>Purchasing Warehouse</b>					
Horizontal Furnace forced gas	2018	21	\$1,650	\$0	2039
1 split a/c system	2018	10	\$8,800	\$0	2028
Exhaust Fan warehouse area	1997	21	\$880	\$0	2018
2 large gas fired hanging heater - carpenter shop	2011	15	\$15,000	\$1,000	2026
Mechanical Pit leveler	2017	30	\$7,560	\$252	2047
Edge of Dock leveler	2015	30	\$2,100	\$70	2045
ductless split system - technology	2006	20	\$5,000	\$250	2026
small unit gas fired hanging heater - meter room	1999	20	\$4,000	\$0	2019
2 large gas fired hanging heater - warehouse	2012	20	\$10,000	\$600	2032
A/C ductless split sys. (controlled temperature room)	2016	15	\$3,000	\$200	2031
			<b>\$57,990</b>	<b>\$2,272</b>	
<b>PW Administration Building</b>					
1 forced air gas fired furnace - training	2004	16	\$4,950	\$309	2020
1 split a/c system - training	2004	16	\$3,300	\$206	2020
1 forced air gas horizontal furnace admin	1998	21	\$3,300	\$0	2019
1 split a/c system - admin	1998	21	\$4,950	\$0	2019
1 forced air gas fired furnace - lunchroom	2000	19	\$3,300	\$0	2019
1 split a/c system - lunchroom	2000	19	\$4,950	\$0	2019
			<b>\$24,750</b>	<b>\$516</b>	
<b>PW Storage Buildings</b>					
1 gas fired furnace - sign shop	2011	15	\$3,200	\$213	2026
1 gas fired unit heat - green shed	2012	15	\$3,200	\$213	2027
1 gas fired unit heat - New PW shed	2012	15	\$3,200	\$213	2027
1 gas fire unit heat - landscape shed	2000	19	\$3,200	\$0	2019
			<b>\$12,800</b>	<b>\$640</b>	

Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>Recreation Center</b>					
6 hot water air handlers - gym & locker room	1981	38	\$132,000	\$0	2019
1 pneumatic temperature control system	1981	38	\$16,500	\$0	2019
3 gas fired boiler	2005	30	\$33,000	\$1,100	2035
1 roof top a/c package unit computer lab & office	2012	20	\$8,500	\$425	2032
1 ERV computer & office area	2012	20	\$9,000	\$450	2032
2 roof top package unit gas - art room & senior	2018	20	\$20,000	\$1,000	2038
4 LG Split Systems -multipurpose room	2013	20	\$21,000	\$1,050	2033
1 ERV multipurpose room	2013	20	\$13,000	\$650	2033
1 roof top package - program room	2014	20	\$8,100	\$650	2034
1 roof top package - social room	2014	20	\$9,000	\$450	2034
1 ERV program and social room	2009	20	\$12,000	\$600	2029
1 roof top package with dehumidifier weight/exercise room	2009	20	\$4,000	\$200	2029
1 ERV in weight/exercise room			<b>\$299,100</b>	<b>\$6,980</b>	

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>Thomas Conner House</b>					
2 a/c split systems w/gas furnace	1994	25	\$22,000	\$880	2019
1 gas fired boiler	1994	30	\$5,500	\$183	2024
2 a/c units window	2018	15	\$4,000	\$267	2033
			<b>\$31,500</b>	<b>\$1,330</b>	

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>PW - Town Garage</b>					
1 waste oil fired furnace	2006	20	\$8,800	\$440	2026
4 gas fired tube heaters	2004	20	\$9,900	\$495	2024
2 window a/c unit	2016	10	\$1,200	\$120	2026
5 infrared heating units	1997	22	\$2,750	\$0	2019
2 electric heating units ceiling	2000	20	\$1,200	\$60	2020
Air compressor w dryer	2008	11	\$25,000	\$0	2019
2 post heavy duty lift - 12000	2017	15	\$7,530	\$502	2032
2 post heavy duty lift - 18000	2017	15	\$19,301	\$1,287	2032
2 post heavy duty lift - 18000	2006	15	\$20,000	\$1,333	2021
Hot water pressure washer	2007	10	\$5,000	\$500	2017
Exhaust evacuation system	2012	20	\$50,000	\$2,500	2032
Portable Lift system	2017	15	\$74,900	\$4,993	2032
			<b>\$225,582</b>	<b>\$7,237</b>	

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>Blacksburg Motor Company</b>					
14 Water Source Heat Pumps	2008	20	\$6,800	\$2,800	2028
1 Geothermal Loop	2008	30	\$90,000	\$3,000	2038
4 Building Sump Pumps	2008	11	\$4,200	\$0	2019
5 Ductless Split A/C Units	2008	15	\$12,500	\$833	2023
1 Subsurface Ventilation System	2011	10	\$5,000	\$500	2021
1 Engine Generator	2008	20	\$55,000	\$2,750	2028
1 elevator system	2008	40	\$95,000	\$2,375	2048
			<b>\$317,700</b>	<b>\$12,258</b>	

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>Kipps Restroom</b>					
1 ERV with Heat	2013	20	\$10,500	\$525	2033
3-ceiling mounted unit heaters	2013	10	\$6,000	\$600	2023
			<b>\$16,500</b>	<b>\$1,125</b>	

**Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24**

<b>Odd Fellows Hall and Annex</b>					
<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
1 Daikin heat pump with 2 indoor fan coils	2009	15	\$10,000	\$667	2024
1 split system heat pump with electric heat	2009	15	\$6,000	\$400	2024
			<b>\$16,000</b>	<b>\$1,067</b>	
<b>Alexander Black House</b>					
<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
2 Heat Pump systems	2014	20	\$25,000	\$1,250	2034
1 HVAC Dehumidifier	2014	15	\$5,000	\$333	2029
			<b>\$30,000</b>	<b>\$1,583</b>	
<b>Fire House III (FS-3)</b>					
<b>Description</b>	<b>Installation Date</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>FY Replacement</b>
4 Gas Furnaces w/ AC	2009	20	\$44,000	\$2,200	2029
4 Tube type gas heat	2008	15	\$16,000	\$1,067	2023
1 VFR system (12 indoor units & 2 outdoor units)	2015	15	\$100,000	\$6,667	2030
1 ERV unit	2015	15	\$30,000	\$2,000	2030
1 Elevator	2015	30	\$65,000	\$2,167	2045
1 Compressor/Dryer	2008	11	\$10,500	\$0	2019
			<b>\$265,500</b>	<b>\$14,100</b>	

Transfers to Building Systems Depreciation Fund, 2019/20 - 2023/24

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
<b>New Rescue</b>					
Air Handler Unit-1/Heat Pump-1	2016	20	\$7,850	\$393	2036
Air Handler Unit-2/Heat Pump-2	2016	20	\$7,850	\$393	2036
Air Handler Unit-3/Heat Pump-3	2016	20	\$7,850	\$393	2036
Air Handler Unit-4/Heat Pump-4	2016	20	\$7,850	\$393	2036
Air Handler Unit-5/Heat Pump-5	2016	20	\$7,850	\$393	2036
Air Handler Unit-6/Heat Pump-6	2016	20	\$7,850	\$393	2036
Air Handler Unit-7/Heat Pump-7	2016	20	\$7,850	\$393	2036
Air Handler Unit-8/Heat Pump-8	2016	20	\$7,850	\$393	2036
Unit Heater-1 Apparatus Bay	2016	20	\$3,000	\$150	2036
Unit Heater-2 Apparatus Bay	2016	20	\$3,000	\$150	2036
Unit Heater-3 Apparatus Bay	2016	20	\$3,000	\$150	2036
Unit Heater-4 Apparatus Bay	2016	20	\$3,000	\$150	2036
Unit Heater-5 Apparatus Bay	2016	20	\$3,000	\$150	2036
Unit Heater-6 Apparatus Bay	2016	20	\$3,000	\$150	2036
Exhaust Fan-1 131-Bio Storage	2016	25	\$4,200	\$168	2041
Exhaust Fan-2 132 - O2 Storage	2016	25	\$4,200	\$168	2041
Exhaust Fan-3 133 - Storage RM #1	2016	25	\$4,200	\$168	2041
Exhaust Fan-4 134 - Med Storage	2016	25	\$4,200	\$168	2041
Exhaust Fan-5 135 - Med Restock	2016	25	\$4,200	\$168	2041
Exhaust Fan-6 138 - Linen Laundry	2016	25	\$4,200	\$168	2041
Exhaust Fan-7 140 - Dirty Laundry	2016	25	\$4,200	\$168	2041
Exhaust Fan-8 Apparatus Bay	2016	25	\$4,200	\$168	2041
Exhaust Fan-9 Apparatus Bay	2016	25	\$4,200	\$168	2041
Exhaust Fan-10 137 - Jan. Closet	2016	25	\$4,200	\$168	2041
Outside Air Unit-1/Outside Air Condensor Unit-1	2016	20	\$150,000	\$7,500	2036
Variable Refrig. Unit-1.1 125 - Bunk	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.2 126 - Bunk	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.3 127 - Bunk	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.4 128 - Bunk	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.5 Gen. Off/114-Comm	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.6 111 - 2nd Lt.	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.7 110 - Chief	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.8 107,108,109-Capt.&1st Lt.	2016	15	\$4,200	\$280	2031
Variable Refrig. Unit-1.9 106 - Conf	2016	15	\$4,200	\$280	2031
Variable Heat Pump-1	2016	15	\$4,500	\$300	2031
Variable Refrig. Unit-2.1/Variable Heat Pump-2	2016	15	\$4,700	\$313	2031
Variable Refrig. Unit-3.1/Variable Heat Pump-3	2016	15	\$4,700	\$313	2031
Kitchen range hood (KRH)	2016	10	\$10,000	\$1,000	2026
KRH Supply Fan	2016	10	\$1,500	\$150	2026
KRH Exhaust Fan	2016	10	\$1,500	\$150	2026
Gas Water heating system	2016	20	\$20,000	\$1,000	2036
<b>Total Existing Equipment in Program</b>			<b>\$357,500</b>	<b>\$18,967</b>	
			<b>\$3,260,127</b>	<b>\$115,576</b>	

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Transfer to Equipment Depreciation Fund

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This fund was established to set aside each year, on a cumulative basis, enough funding to allow for the replacement of equipment that has reached the end its useful life. The list on the following pages contains equipment presently included in the replacement fund. Funding in this manner eliminates instances in which a large equipment purchase for the General Fund, Water and Sewer Fund, CDBG Fund and Solid Waste Fund would require an increase in taxes, fees or utility service rates.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 681,782	\$ 681,782	\$ 681,782	\$ 681,782	\$ 681,782	\$ 3,408,910	\$ Continuing
Police	Continuing	Continuing	354,453	354,453	354,453	354,453	354,453	1,772,265	Continuing
Rescue	Continuing	Continuing	178,833	178,833	178,833	178,833	178,833	894,165	Continuing
Fire	Continuing	Continuing	290,375	290,375	290,375	290,375	290,375	1,451,875	Continuing
Water/Sewer Fund	Continuing	Continuing	307,720	307,720	307,720	307,720	307,720	1,538,600	Continuing
Storm Water Fund	Continuing	Continuing	2,500	2,500	2,500	2,500	2,500	12,500	Continuing
Solid Waste Fund	Continuing	Continuing	85,341	85,341	85,341	85,341	85,341	426,705	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 1,901,004</b>	<b>\$ 9,505,020</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	1,901,004	1,901,004	1,901,004	1,901,004	1,901,004	9,505,020	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 1,901,004</b>	<b>\$ 9,505,020</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>Fire Fund</b>						
FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	62,000	4,133	2021
FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	60,000	7,500	2021
FD-B13	Truck-Brush, Heavy Duty	2015	8	100,000	12,500	2023
FD-14	Box Truck -Special Purpose	2014	10	90,000	9,000	2024
FD-03	Truck-Ladder	2007	20	900,000	45,000	2027
FD-E13	Pumper	2017	10	712,500	71,250	2027
FD-28	Sedan, Full Size	2019	10	35,000	3,500	2029
FD-29	SUV, Full Size, w/add ons	2019	10	62,000	6,200	2029
FD-05	Mobile Air Unit (Chasis)	2013	20	500,000	25,000	2033
FD-11	Truck-Brush, Medium Duty	2019	15	85,000	5,667	2034
FD-E10	Pumper	2018	20	712,500	35,625	2038
FD-02	Truck-Ladder-Platform	2019	20	1,300,000	65,000	2039
		<b>Fund Total:</b>		<b>\$4,619,000</b>	<b>\$290,375</b>	
<b>General Fund</b>						
CE-808	Gator Toolcat	2010	10	50,000	5,000	2020
MP-502	Truck-Dump, Tandem, snow	2007	13	185,000	14,231	2020
SW-401	Truck-Pickup, 1 ton 4WD util bed	2012	8	55,000	6,875	2020
CC-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	55,000	6,875	2021
CE-401	Truck-Pickup, 1 ton 4WD	2013	8	42,000	5,250	2021
HT-405	Truck-F550 Flatbed	2009	12	50,000	4,167	2021
PW-03	Mowers (2)	2014	7	25,000	3,571	2021
RC-302	Van, 15-Passenger	2013	8	30,000	3,750	2021
SD-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	55,000	6,875	2021
AS-903	Asphalt Patching Equipment	2014	8	80,000	10,000	2022
CE-701	Backhoe	2012	10	125,000	12,500	2022
GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
GC-811	Mower-Greens	2015	7	35,000	5,000	2022
HT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
HT-801	Bobcat Toolcat	2010	12	50,000	4,167	2022
HT-802	ATV	2014	8	15,000	1,875	2022
MP-401	Truck-Pickup, F550 4WD, dump bed	2014	8	55,000	6,875	2022

Ref. #	Description	FY Acquired	Life	Replacement		Recommended	
				Cost	Depreciation	Replacement	Replacement
<b>General Fund - continued</b>							
PK-402	Truck-Pickup, 1 ton 4WD	2014	8	42,000	5,250		2022
PW-04	Mowers (2)	2015	7	25,000	3,571		2022
PW-201	Sedan, Economy	2014	8	25,000	3,125		2022
SW-701	Backhoe	2007	15	125,000	8,333		2022
AS-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500		2023
BD-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2015	8	30,000	3,750		2023
BD-402	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875		2023
BD-601	Scissor Lift with Trailer	2013	10	20,000	2,000		2023
CH-101	SUV, Economy 4WD	2008	15	25,000	1,667		2023
GC-601	Sand Trap Rake	2015	8	30,000	3,750		2023
HT-501	Truck- Dump, Water	2013	10	110,000	11,000		2023
HT-702	Loader, Skid Steer	2008	15	45,000	3,000		2023
PK-810	Mowing Tractor, slope w/field attach	2016	7	39,000	5,571		2023
PW-05	Mowers (2)	2016	7	25,000	3,571		2023
SW-601	Saw, Walk Behind	2015	8	27,000	3,375		2023
AS-606	Sweeper-Street	2016	8	300,000	37,500		2024
AS-703	Loader	2012	12	175,000	14,583		2024
CC-701	Excavator, Mini 50 w/trailer	2014	10	86,000	8,600		2024
CC-901	Trailer, 28' Deckover Tilt	2014	10	20,000	2,000		2024
EG-101	SUV, Economy 4WD	2014	10	25,000	2,500		2024
EO-502	Truck, Service Crane	2014	10	180,000	18,000		2024
GC-02	Blowers, Debris (2)	2016	8	15,000	1,875		2024
GC-804	Utility Cart w/ bed lift	2016	8	15,000	1,875		2024
GC-806	Mower-Fairway, 4WD	2012	12	50,000	4,167		2024
GR-801	Tractor, Side Mower	2014	10	150,000	15,000		2024
MP-503	Truck-Dump, Tandem, snow	2015	9	185,000	20,556		2024
PI-301	Van, Economy Cargo	2014	10	20,000	2,000		2024
PW-06	Mowers (3)	2017	7	37,500	5,357		2024
ST-101	SUV, Economy 4WD	2014	10	25,000	2,500		2024
AS-501	Truck-Dump, Tandem, snow	2016	9	185,000	20,556		2025
AS-704	Loader, Compact Track	2015	10	80,000	8,000		2025
EG-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2017	8	30,000	3,750		2025

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>General Fund - continued</b>						
EO-501	Road Tractor	2005	20	100,000	5,000	2025
GR-810	Mowing Tractor, Slope w/snow attach	2018	7	45,700	6,529	2025
HT-403	Truck-Pickup, F550 4WD, flatbed, snow	2018	7	55,000	7,857	2025
PK-809	Ballfield Rake 3 Wheel	2017	8	25,000	3,125	2025
PS-403	Truck-Pickup, 1 ton 4WD, util bed	2017	8	55,000	6,875	2025
PW-01	Mowers (2)	2018	7	25,000	3,571	2025
TE-402	Truck-Pickup, 1 ton 4WD, util bed	2017	8	55,000	6,875	2025
TE-902	Message Board	2018	7	17,000	2,429	2025
TR-01	Trailers (7) - PW	2009	16	33,850	2,116	2025
AS-502	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
AS-503	Truck-Dump, 4WD, snow	2019	7	159,000	22,714	2026
AS-701	Backhoe w/attachments	2016	10	135,000	13,500	2026
BD-403	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
GC-812	Mowing Tractor w/attachments	2018	8	40,500	5,063	2026
GR-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
HT-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
HT-404	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
IN-102	SUV, Economy 4WD	2016	10	25,000	2,500	2026
IN-105	SUV, Economy 4WD	2016	10	25,000	2,500	2026
PK-401	Truck-Pickup, 1 ton 4WD	2018	8	42,000	5,250	2026
PK-403	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2018	8	30,000	3,750	2026
PW-02	Mowers (2)	2019	7	25,000	3,571	2026
SD-501	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
SD-502	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
SD-701	Backhoe w/attachments	2016	10	135,000	13,500	2026
SW-501	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
TE-901	Message Board, Solar Powered	2019	7	20,000	2,857	2026
BD-405	Truck-Pickup, 1 ton 4WD, util bed	2019	8	55,000	6,875	2027
CS-302	Van, Standard Cargo w/add-ons	2017	10	30,000	3,000	2027
GC-901	Leaf Vac w/Hopper	2017	10	32,000	3,200	2027
GR-401	Truck-Pickup, 1 ton 4WD, trailer	2019	8	60,000	7,500	2027
HT-503	Truck, Bucket	2019	8	143,000	17,875	2027

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>General Fund - continued</b>						
PW-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2019	8	30,000	3,750	2027
VP-101	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2019	8	30,000	3,750	2027
IN-101	SUV, Economy 4WD	2018	10	25,000	2,500	2028
IN-104	SUV, Economy 4WD	2018	10	25,000	2,500	2028
MP-104	SUV, Economy 4WD	2018	10	25,000	2,500	2028
RC-101	SUV, Economy 4WD	2018	10	25,000	2,500	2028
RC-308	Van, 23-Passenger	2018	10	80,000	8,000	2028
SE-802A	Tractor, 4WD (Same as SE-802)	2018	10	37,500	3,750	2028
GC-401	Truck-Pickup, 1 ton 4WD w/dump bed	2017	12	45,000	3,750	2029
GC-805	Mower-Tractor, compact	2019	10	30,000	3,000	2029
GS-101	Sedan, Economy Electric	2019	10	25,000	2,500	2029
PW-101	Sedan, Economy Electric	2019	10	25,000	2,500	2029
GC-801	Tractor, 40 HP	2017	13	70,000	5,385	2030
SD-901	Vaxcavator	2018	12	90,000	7,500	2030
GC-810	Turf Sprayer	2019	13	36,000	2,769	2032
AS-602	Asphalt Maintainer	2019	15	154,000	10,267	2034
EO-901	Trailer, Low Boy	2019	18	100,000	5,556	2037
		<b>Fund Total:</b>		<b>\$6,212,050</b>	<b>\$681,782</b>	
<b>Police Fund</b>						
PD-1201	Van - Jail	2012	8	50,000	6,250	2020
PD-1307	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1308	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1309	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1310	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
PD-1311	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
PD-1312	Sedan-Unmarked	2013	8	35,000	4,375	2021
PD-1313	SUV, Standard-Marked w/add ons	2013	8	55,000	6,875	2021
PD-1314	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1315	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1316	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1317	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1319	SUV, Standard-Marked w/add ons	2013	8	55,000	6,875	2021

Ref. #	Description	FY Acquired	Life	Replacement		Recommended Replacement
				Cost	Depreciation	
PD-1320	Motorcycle-Marked	2014	8	35,000	4,375	2022
PD-1321	Motorcycle-Marked	2014	8	35,000	4,375	2022
PD-1401	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
PD-1402	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
PD-1403	SUV, Standard-Marked w/add ons	2014	8	55,000	6,875	2022
PD-1408	Sedan, Full Size-Marked, w/add ons	2014	8	55,000	6,875	2022
PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
PD-1404	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1405	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1406	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1407	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1409	SUV, Standard 4WD, unmarked w/add	2015	8	35,000	4,375	2023
PD-1601	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1602	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1603	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1604	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1605	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1606	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
PD-1607	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1608	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
PD-1609	Polaris Gem EZ Electric	2017	8	15,000	1,875	2025
PD-1701	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
PD-1702	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
PD-1703	Truck-Pickup, 1 ton 4WD, marked	2017	8	50,000	6,250	2025
PD-1704	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
PD-1705	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
PD-1706	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
PD-1707	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
PD-1708	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
PD-1709	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
PD-1710	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1711	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1712	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
PD-1713	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1714	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1715	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1716	Sedan, Full Size-Marked, w/add ons	2018	8	50,000	6,250	2026
PD-1102	Sedan, Full Size-Marked, w/add ons	2019	8	50,000	6,250	2027
PD-1104	Sedan, Full Size-Marked, w/add ons	2019	8	50,000	6,250	2027
PD-1105	Sedan, Full Size, unmarked	2019	8	30,000	3,750	2027
PD-1301	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
PD-1302	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
PD-1303	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
PD-1304	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
PD-1305	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
PD-1306	Sedan, Full Size-Marked, w/add ons	2019	7	50,000	6,875	2027
	<b>Fund Total:</b>			<b>\$2,798,000</b>	<b>\$354,453</b>	
<b>Rescue Fund</b>						
RS-M53	Ambulance	2013	8	268,000	33,500	2021
RS-C53	Tahoe 4WD	2015	8	60,000	7,500	2023
RS-M56	Ambulance-Type II	2015	8	268,000	33,500	2023
RS-R51	Tahoe 4WD	2015	8	60,000	7,500	2023
RS-M54	Ambulance, Type II	2018	8	268,000	33,500	2026
RS-R52	Suburban, 4WD	2019	10	75,000	7,500	2029
RS-R53	Truck-Pickup, 1 ton 4WD w/add ons	2019	12	70,000	5,833	2031
RS-S51	Rescue Crash Truck	2015	20	1,000,000	50,000	2035
	<b>Fund Total:</b>			<b>\$2,069,000</b>	<b>\$178,833</b>	
<b>Stormwater Utility Fund</b>						
EG-103	SUV, Economy 4WD	2016	10	25,000	2,500	2026
	<b>Fund Total:</b>			<b>\$25,000</b>	<b>\$2,500</b>	
<b>Waste Management Fund</b>						
WM-905	Leaf Machine	2009	12	37,000	3,083	2021
WM-906	Leaf Machine	2009	12	37,000	3,083	2021
WM-802	Sweeper-Sidewalk	2015	8	36,000	4,500	2023
WM-902	Leaf Machine	2016	8	37,000	4,625	2024
WM-903	Leaf Machine	2016	8	37,000	4,625	2024

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>Waste Management Fund - continued</b>						
LB-01	Leaf Boxes (6) - PW	2015	10	51,000	5,100	2025
WM-501	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
WM-502	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
WM-503	Loader, Knuckle Boom	2018	10	156,000	15,600	2028
WM-201	Sedan, Economy Hybrid	2019	10	25,000	2,500	2029
WM-904	Leaf Machine	2019	12	37,000	3,083	2031
		<b>Fund Total:</b>		<b>\$727,000</b>	<b>\$85,341</b>	
<b>Water &amp; Sewer Fund</b>						
PS-902	Sewer Pump	2005	15	74,000	4,933	2020
SE-404A	Sewer TV System	2012	8	100,000	12,500	2020
UT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2013	8	30,000	3,750	2021
SE-401	Truck-Pickup, 1 ton 4WD util bed	2014	8	55,000	6,875	2022
UB-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
UT-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
PS-401	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
SE-502	Sewer Truck-Combo Washer/Vax	2013	10	400,000	40,000	2023
SE-703	Loader, Heavy Track	2013	10	300,000	30,000	2023
WA-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
WA-706	Excavator, Mini with Trailer	2013	10	76,000	7,600	2023
SE-901	Light Tower	2016	8	22,000	2,750	2024
SE-907	Sewer Washer w/Trailer	2017	7	45,000	6,429	2024
UB-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2016	8	30,000	3,750	2024
SE-405	Truck-Pickup, F550 4WD, util bed	2017	8	55,000	6,875	2025
SE-503	Truck-Dump, 4WD, non-snow	2016	9	185,000	20,556	2025
WA-704	Loader, Skid Steer w/attachments	2015	10	80,000	8,000	2025
PS-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
SE-403	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
WA-501	Truck-Dump, Standard, snow	2019	7	137,000	19,571	2026
WA-502	Truck-Dump, Tandem, snow	2019	7	166,000	23,714	2026
WA-702	Excavator, Heavy Track and Trailer	2016	10	275,000	27,500	2026
SE-404	Truck-Pickup, 1 ton 4WD, util bed	2019	8	55,000	6,875	2027
WA-602	Roller, Utility Trench Compactor	2017	10	35,000	3,500	2027

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>Water &amp; Sewer Fund - continued</b>						
SE-802	Tractor, 4WD (same as SE-802A)	2018	10	37,500	3,750	2028
SE-702	Excavator, Mini with Trailer	2019	10	76,000	7,600	2029
WA-701	Backhoe	2017	12	125,000	10,417	2029
SE-701	Backhoe	2019	12	125,000	10,417	2031
WA-601	Asphalt Milling Machine	2019	15	71,000	4,733	2034
		<b>Fund Total:</b>		<b>\$2,839,500</b>	<b>\$307,720</b>	
		<b>Grand Total:</b>		<b>\$19,289,550</b>	<b>\$1,901,004</b>	

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Infill Curb, Gutter and Sidewalk Construction Projects

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the construction of infill curb, gutter and sidewalk that is not eligible for the VDOT Revenue Sharing Fund curb, gutter and sidewalk replacement and infill projects.

**OPERATING IMPACT:** Trail repairs and maintenance.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Minimal						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Pavement Condition Index Update

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to perform a town wide asphalt pavement evaluation that will objectively prioritize maintenance/repair efforts. The Public Works Department will accept proposals from qualified engineering firms to score all town streets, analyze the data using a pavement management software system and provide a multi-year work plan that will maximize the investment of available funding for pavement maintenance and rehabilitation.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	\$ 40,000	\$	\$ 60,000	\$	\$ 60,000	\$	\$ 120,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 120,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	\$ 40,000	\$	\$ 60,000	\$	\$ 60,000	\$	\$ 120,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 120,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Bicycle Infrastructure Improvements

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the improvement of bicycle infrastructure town wide. Examples include updating existing bicycle facilities to current standards with appropriate pavement markings, racks and signage, as well as marking new facilities in accordance with the Town of Blacksburg Bicycle Master Plan to encourage alternative modes of travel.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Municipal Building Envelope Waterproofing Project

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

The project will provide funding to address historical water intrusion issues on the exterior of Town Hall. This project was recommended in the condition assessments and building exterior studies that were performed by engineering and architect firms in 2016.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Fall 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$	\$ 60,000	\$	\$	\$	\$	\$ 60,000	\$ 0
General Obligation Bonds	440,000			440,000				440,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 500,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 440,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 500,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 60,000	\$	\$ 60,000	\$	\$	\$	\$	\$ 60,000	\$
Construction	440,000			440,000				440,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 500,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 440,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 500,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Traffic Signal Poles and Mast Arms Painting

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project funds the maintenance and renewal of the surface and color on traffic poles and mast arms located at major intersections throughout the Town. Three intersection assemblies will be painted each year.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 225,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	45,000	45,000	45,000	45,000	45,000	45,000	225,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 45,000</b>	<b>\$ 225,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Field Operations Vehicles

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for the replacement of several "hand-me-down" vehicles in the Field Operations Division that are currently being used on a daily basis and are at the end of their useful life. These vehicles and equipment were retained to help address the department's expanding work load and evolving needs of the division. In some cases, crew configuration changes made to respond to the increased work demands drove the decision to retain the vehicles.

- FY 2019/2020: Truck-Pickup, 1 ton 4WD – \$40,000
- FY 2020/2021: Asphalt Roller Replacement - \$50,000
- FY 2021/2022: Uniloader – \$60,000

**OPERATING IMPACT:** Maintenance costs already in operating budget.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 210,000	\$ 60,000	\$ 40,000	\$ 50,000	\$ 60,000	\$	\$	\$ 150,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 210,000</b>	<b>\$ 60,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	210,000	60,000	40,000	50,000	60,000			150,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 210,000</b>	<b>\$ 60,000</b>	<b>\$ 40,000</b>	<b>\$ 50,000</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Bridge Inspection Repairs

**STATUS:** New

**PROJECT DESCRIPTION:**

In FY 2018, the Engineering & GIS Department had a consultant inspect several bridges around town. The structures inspected included the box culvert under Progress Street near the Fire Station, the Heritage Park Pedestrian bridge, the timber pedestrian bridge on the Huckleberry near Mabry Lane, the Hethwood bridge in Foxridge and the Toms Creek bridge near Meadowbrook Drive. This project funds the corrective actions recommended by the bridge inspection consultant.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$	\$ 25,000	\$	\$	\$	\$	\$ 25,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	25,000		25,000					25,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Emergency Preparedness Equipment

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This project provides funding for various needs identified by the Emergency Preparedness Committee. Funding is included for the installation of emergency generators at the Community Center and Public Works in FY 2020 and FY 2021, respectively. The generator for Public Works replaces an aging unit and the Community Center generator is a new one.

**OPERATING IMPACT:** Already in operating budget.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 322,100	\$ 52,100	\$ 200,000	\$ 70,000	\$	\$	\$	\$ 270,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 322,100</b>	<b>\$ 52,100</b>	<b>\$ 200,000</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 270,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	322,100	52,100	200,000	70,000				270,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 322,100</b>	<b>\$ 52,100</b>	<b>\$ 200,000</b>	<b>\$ 70,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 270,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Picnic Shelter Replacement/Expansion

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This is an on-going project to replace picnic shelters that have reached their useful life with newer facilities that are more attractive. The shelters have been standardized to provide a consistent look as well as the ease of maintenance and repair. Additionally, funding is included to add new structures to parks that do not have this amenity. These amenities are a valuable asset and are rented which provides additional revenue and cost recovery to our recreation system. The shelter will be replaced at Nellie's Cave Park in FY2020 and the shelter at Tom's Creek Park will be replaced in FY2021.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure Blacksburg's parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 175,000	\$ 125,000	\$ 25,000	\$ 25,000	\$	\$	\$	\$ 50,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 175,000</b>	<b>\$ 125,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 175,000	\$ 125,000	\$ 25,000	\$ 25,000	\$	\$	\$	\$ 50,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 175,000</b>	<b>\$ 125,000</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Park Restrooms

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

Restrooms in our major parks have been a high priority amenity to serve our users, especially families. Older facilities are not winterized due to lack of heat in the buildings. New facilities are designed to be open year round as well as designed to improve the efficiency of maintenance and cleaning. The buildings are modular concrete buildings built off site and include design features to make them attractive and fit into a park environment.

FY20 Nellie’s Cave Park

FY21 Tom’s Creek Park

**OPERATING IMPACT:** Utility costs for new restrooms.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$	\$
General Obligation Bonds	600,000	300,000	150,000	150,000				0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 600,000</b>	<b>\$ 300,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$	\$
Construction	600,000		150,000	150,000				0	0
Equipment								0	0
Contractual Services								0	0
<b>Total Uses</b>	<b>\$ 600,000</b>	<b>\$ 300,000</b>	<b>\$ 150,000</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Utilities	2,000	2,100	2,200	2,300	2,400	\$ 11,000

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Transfers to Playground Depreciation Fund

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This fund establishes a replacement account to depreciate the playground equipment over a 20-year period. This allows the town to replace equipment when needed and maintain safety standards in accordance with national standards.

**OPERATING IMPACT:** Replacement of current equipment, maintenance costs already in operating budget.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 35,000</b>	<b>\$ 175,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	35,000	35,000	35,000	35,000	35,000	175,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 35,000</b>	<b>\$ 175,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Park Fencing Upgrades

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project will provide funding to maintain fencing throughout the park system. Repairs, replacements, and new sections are needed to enhance the safety of our athletic fields and parks.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 30,000	\$	\$ 30,000	\$	\$	\$	\$	\$ 30,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	30,000		30,000					30,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Hand In Hand Playground  
**STATUS:** Previously Included  
**PROJECT DESCRIPTION:**

Hand in Hand park was built as a regional playground over twenty years ago. The all wood playground was designed and built through an extensive citizen engagement process and continues to be a strong asset to the Municipal Park. The structure is requiring extensive repairs and replacement of wood components and is reaching the end of its useful life. A new playground structure is needed to continue to meet the recreation needs of children and families in the community and region. Meeting today’s safety standards as well as ensuring a creative and exciting playground for wide age range and capabilities is needed. This project includes funding for a major replacement as well as plans for future expansion of amenities. A significant public engagement process will be used to design the playground as well as keeping valued parts of the existing amenity such as the custom family donation fence pickets.

**OPERATING IMPACT:** Replacement of current equipment, maintenance costs already in operating budget.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$	\$
General Obligation Bonds	1,000,000	315,000	550,000				100,000	650,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
Donations		35,000						0	0
<b>Total Sources</b>	<b>\$ 1,000,000</b>	<b>\$ 350,000</b>	<b>\$ 550,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 650,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$	\$
Construction	1,000,000	350,000	550,000				100,000	650,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,000,000</b>	<b>\$ 350,000</b>	<b>\$ 550,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 650,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Huckleberry Trail Widening and Resurfacing

**STATUS:** New

**PROJECT DESCRIPTION:**

The Huckleberry Trail is a significant asset to the community and region and receives large volumes of varied users including walkers, bicyclists, runners, strollers and commuters. Adequate width and maintenance are critical to a safe and enjoyable experience for users.

A section of the Huckleberry Trail from Energy Drive to Beamer Way does not meet today’s standards for a 10-foot wide path. This project would widen the trail from eight feet to the standard 10-foot width as well as add two-foot gravel shoulders. The town widened the trail to meet this standard from the Library to Energy Drive several years ago. Additionally, the new trail constructed as part of the Southgate Drive Interchange project meets today’s standard.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 67,000	\$	\$ 67,000	\$	\$	\$	\$	\$ 67,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 67,000</b>	<b>\$ 0</b>	<b>\$ 67,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 67,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	67,000		67,000					67,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 67,000</b>	<b>\$ 0</b>	<b>\$ 67,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 67,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Municipal Park – Resurface Tennis Courts

**STATUS:** New

**PROJECT DESCRIPTION:**

This project is to resurface the tennis courts to continue to provide a safe environment and to meet USTA standards.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2022	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$	\$	\$	\$	\$ 50,000	\$	\$ 50,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	50,000					50,000		50,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Community Center Major Renovations

**STATUS:** New

**PROJECT DESCRIPTION:**

The community center was constructed in 1981 and is a vital facility offering 900 programs to over 120,000 people annually. Although a new recreation center is envisioned, keeping the current center maintained and relevant to our citizen’s expectations is important. The plan proposed to maintain and modernize the community center includes:

Addition of adjustable basketball goals	\$160,000
Upgrade restrooms and locker rooms with new flooring and individual showers	\$500,000
Exercise/Weight Room upgrades and replacement of equipment	\$250,000
Replacement of gym floor	\$120,000
Replacement of gym bleachers	\$ 85,000
Replacement and renovations to entrance and awnings	\$100,000
Interior space renovations and update to front lobby	\$500,000
Update interior and exterior signage	\$ 75,000

**OPERATING IMPACT:** Maintenance and utility costs are already in the operating budget.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2021	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$	\$ 0
General Obligation Bonds	1,790,000				100,000	1,690,000		1,790,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 1,790,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 1,690,000</b>	<b>\$ 0</b>	<b>\$ 1,790,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 100,000	\$	\$	\$	\$ 100,000	\$	\$	\$ 100,000	\$
Construction	1,690,000					1,690,000		1,690,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,790,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 1,690,000</b>	<b>\$ 0</b>	<b>\$ 1,790,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Aquatic Center Renovations

**STATUS:** New

**PROJECT DESCRIPTION:**

The Aquatic Center was constructed in 1992 and is a vital facility offering various programs to over 40,000 people annually. Maintaining and keeping the indoor pool facility relevant to our citizen’s expectations is important. A five-year plan is proposed to maintain and modernize the aquatic center. Significant investment in the indoor air quality and management is also proposed through our Building Maintenance Funds under Public Works.

- FY 23 Resurfacing the pool deck \$30,000
- FY 23 Update interior and exterior signage \$25,000

**OPERATING IMPACT:** Maintenance and utility costs are already included in the operating budget.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2022	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$ 55,000	\$	\$ 55,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 55,000	\$ 0	\$ 55,000	\$ 0

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction						55,000		55,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 55,000	\$ 0	\$ 55,000	\$ 0

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Parks and Recreation Department**

**TITLE:** Aquatic Center HVAC Upgrade and Expansion

**STATUS:** New

**PROJECT DESCRIPTION:**

Mechanical systems in the Aquatic Center have reached the end of their life cycle of 25 years. This project requests additional CIP funds to replace the existing dehumidification system, locker room energy recovery and ventilation systems, central boiler system for heating pool water and natatorium.

**OPERATING IMPACT:** Utility costs.

**GOAL ADDRESSED:** Ensure Blacksburg’s parks and recreation legacy that give life and vibrancy to our community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 491,000	\$ 491,000	\$	\$1,015,000	\$	\$	\$	\$ 1,015,000	\$ 0
General Obligation Bonds	1,015,000							0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 1,506,000</b>	<b>\$ 491,000</b>	<b>\$ 0</b>	<b>\$ 1,015,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,015,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 85,000	\$ 85,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	1,421,000	406,000		1,015,000				1,015,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,506,000</b>	<b>\$ 491,000</b>	<b>\$ 0</b>	<b>\$ 1,015,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,015,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Utilities			2,000	2,100	2,200	\$ 6,300

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Streelight Installation

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project is to fund the installation of new streetlights when requested by citizens who submit petitions meeting the streetlight policy criteria and recommendations from the Town's Traffic Committee. Lights are installed to address safety concerns for drivers, pedestrians and homeowners.

**OPERATING IMPACT:** Minimal.

**GOAL ADDRESSED:** Ensuring a safe community.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 5,000</b>	<b>\$ 25,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	Continuing	Continuing	5,000	5,000	5,000	5,000	5,000	25,000	Continuing
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 5,000</b>	<b>\$ 25,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Aerial and Base Map/GIS Update

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Every four years, we historically update our basemaps, contours, LiDAR, planimetrics, impervious surface calculations, and imagery products. This project will be flown in the winter of 2020/2021. Funding also covers the midterm update of imagery projects that would be flown in FY 2022/2023. Midterm funding includes acquisition of three inch orthos which is based on approval of this new schedule for aerial acquisition. All other products will remain on a four year schedule.

**OPERATING IMPACT:** None

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Winter 2020	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 198,819	\$ 101,819	\$	\$ 60,000	\$	\$ 37,000	\$	\$ 97,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 198,819</b>	<b>\$ 101,819</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 37,000</b>	<b>\$ 0</b>	<b>\$ 97,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	198,819	101,819		60,000		37,000		97,000	
<b>Total Uses</b>	<b>\$ 198,819</b>	<b>\$ 101,819</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 37,000</b>	<b>\$ 0</b>	<b>\$ 97,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** North Main Street Box Culvert Repairs

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

Per Federal Highway Administration and VDOT regulations, the Town is required to inspect bridge and culvert structures that meet span requirement of twenty feet or longer. These structures are inspected every two years. North Main Street Box Culvert is a triple barrel, concrete box culvert and is located near 920 North Main Street and the North Main Street/Progress Street intersection. This structure carries Stroubles Creek underneath North Main Street and was inspected in June 2017. The inspection report listed several areas where the concrete in the barrels are delaminated and spalling, revealing the steel reinforcement underneath the concrete. The steel reinforcement has been exposed to moisture and is corroding. The structure was installed in the mid 1970's. The inspection report does not recommend replacement of the structure but does recommend repairs. Preliminary investigations of this structure indicate that it may be under capacity to carry the current storm water flows. If future studies confirm this, then this structure may require replacement along with existing structures downstream. However, a capacity study of the storm drain system in this area of Town will not be performed for several more years as there are other priorities and a study of this area is not on the current list of projects. Therefore, these interim repairs are needed to address the delamination, spalling and corrosion issues to ensure this structure continues to function until such a time as the capacity study can be completed. This project will fund hiring the appropriate firm to develop a scope of work and contract to have the repairs completed.

**OPERATING IMPACT:** Structure requires inspection every two years and routine maintenance.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$	\$ 60,000	\$	\$	\$	\$	\$ 60,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 10,000	\$	\$ 10,000	\$	\$	\$	\$	\$ 10,000	\$
Construction	50,000		50,000					50,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 60,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Sidewalk Extension Design Projects

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This is for potential projects that are intended to facilitate the extension or upgrade of accessibility throughout the town. Potential locations for implementation are scattered about the town and are evaluated and prioritized regularly to insure critical accessibility issues are mitigated. Requests for sidewalk infill locations are generally considered through the Corridor Committee process. Previous infill areas have focused on completing network interlinks and upgrading areas that provide damaged or inadequate access.

**OPERATING IMPACT:** Regular sidewalk maintenance by the Public Works Department.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 15000	\$ 15000	\$ 15000	\$ 15000	\$ 15000	\$ 75,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 15,000</b>	<b>\$ 75,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Draper Road Streetscape Improvements

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

This project funds the final design and construction for the widened sidewalks and streetscape improvements to include street lighting on Draper Road between College Avenue and Roanoke Street. In addition, this project will include improvements to the remaining sidewalk from Roanoke Street to Lee Street on the east side. This project is intended to enhance the pedestrian routes between the Kent Square parking garage and College Avenue with an eight-foot wide walkway with brick banding and downtown streetscape elements. Outdoor dining plans for existing restaurants along Draper Road will be included also. A traffic study to assist with developing plans to route traffic along Draper Road will be performed. When complete, the project will improve the streetscape from College Avenue to Washington Street and will significantly enhance the pedestrian experience and the vibrancy of the downtown. As a part of the final design, a construction estimate will be prepared and can be used for developing various funding scenarios. This project will be submitted for VDOT Revenue Sharing funds or Transportation Enhancement Grant Program funds for construction funding.

**OPERATING IMPACT:** Public Works will have additional maintenance requirements.

**GOAL ADDRESSED:** Plan for downtown redevelopment and public parking.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$ 100,000	\$	\$	\$	\$	\$	\$	\$ 0
General Obligation Bonds	5,140,500			245,000			4,795,500	5,040,500	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 5,140,500</b>	<b>\$ 100,000</b>	<b>\$ 0</b>	<b>\$ 245,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 4,795,500</b>	<b>\$ 5,040,500</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 595,000	\$ 100,000	\$	\$ 245,000	\$	\$	\$ 250,000	\$ 495,000	\$
Construction	4,545,500						4,545,500	4,545,500	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 5,140,500</b>	<b>\$ 100,000</b>	<b>\$ 0</b>	<b>\$ 245,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 4,795,500</b>	<b>\$ 5,040,500</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Clay Street Sidewalk and Roadway Improvements

**STATUS:** New

**PROJECT DESCRIPTION:**

This project is intended to provide a sidewalk connection along the south side of Clay Street from Church Street to Jefferson Street (approximately 2600 feet) with adjustments to Clay Street to facilitate bike mobility and improve storm drainage. The addition of sidewalk in this location would provide a connection between existing sections and complete the network along Clay Street. Curb, gutter and a drainage network would be added along the length of the project, as needed, and the roadway section would be widened, where applicable, to provide for appropriate on-road bike facilities. The addition of sidewalk and widening of the road will require storm water management considerations and special attention will need to be given to the management of runoff due to the sensitive nature of the existing water shed. Small adjustments to the current Clay Street alignment, both vertical and horizontal, would be made to improve areas of poor sight distance and excess grade change.

**OPERATING IMPACT:** Public Works will have additional maintenance requirements.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$	\$
General Obligation Bonds	1,250,000		150,000		1,100,000			0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 1,250,000</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 1,100,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,250,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 150,000	\$	\$ 150,000	\$	\$	\$	\$	\$ 150,000	\$
Construction	1,100,000				1,100,000			1,100,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,250,000</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 1,100,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,250,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Huckleberry Trail Extension at South Point

**STATUS:** New

**PROJECT DESCRIPTION:**

This project will extend the asphalt Huckleberry Trail from the existing park and trail at South Point Drive to connect to the Huckleberry Trail crossing at High Top Road. This segment will connect a significant recreation amenity of the Town to the Huckleberry Trail. This project will be submitted for funding under the VDOT Revenue Sharing Program. If Revenue Sharing funding is received, the General Obligation amount will be reduced.

**OPERATING IMPACT:** Public Works will have additional maintenance requirements

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2023	Fall 2025

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
General Obligation Bonds						110,000	727,000	837,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 110,000	\$ 727,000	\$ 837,000	\$ 0

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$ 110,000	\$	\$ 110,000	\$
Construction							727,000	727,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 110,000	\$ 727,000	\$ 837,000	\$ 0

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Industrial Park Trail/Sidewalk System Master Plan and Construction

**STATUS:** New

**PROJECT DESCRIPTION:**

This project is intended to design a sidewalk and multi-use trail system adjacent to the Industrial Park Road network and its connection to existing networks. Currently there are several sections of sidewalk in place but with very little connectivity. With the recent approval of developments, like the Commerce Street Brewery, the need for a cohesive system becomes more important as potential foot and bicycle traffic is expected to increase. Of particular challenge will be connectivity across South Main Street to the existing trail system. A comprehensive design for the entire system will be conducted as the first phase of this process. The project will be evaluated for funding through the General Fund as well as other grant opportunities through VDOT.

**OPERATING IMPACT:** Public Works will have additional maintenance requirements.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2022	Spring 2025

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 184,000	\$	\$	\$	\$ 84,000	\$	\$ 100,000	\$ 184,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 184,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 84,000</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 184,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 184,000	\$	\$	\$	\$ 84,000	\$	\$	\$ 84,000	\$
Construction							100,000	100,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 184,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 84,000</b>	<b>\$ 0</b>	<b>\$ 100,000</b>	<b>\$ 184,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Prices Fork Road/460 By-pass Interchange Study  
**STATUS:** New  
**PROJECT DESCRIPTION:**

This project will fund the engineering and traffic study to develop a conceptual plan for the re-design of the Prices Fork Road Interchange to better accommodate vehicular, bicycle and pedestrian traffic. The Prices Fork Road Mobility and Safety Study identified this interchange as an area of safety concern for bicyclists and pedestrians who use this corridor to travel to and from Virginia Tech and the commercial area along University City Boulevard. This Interchange extends over US Route 460 Bypass and includes four entrance/exit ramps. The safety study recommended further review of this area to develop plans to safely accommodate bicycle and pedestrian travel across the existing bridges and ramps. This study will include obtaining vehicular, bicycle and pedestrian counts, conceptual layout and design of a new interchange configuration, general location of a separate bridge for bicycle and pedestrian use and construction estimates. The Town can then use this information to apply for additional funding under Smart Scale or other appropriate funding sources for final design and construction. Programming for final design costs and construction costs will be included in future Capital Improvement Program projects upon completion of this study.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 300,000	\$	\$ 300,000	\$	\$	\$	\$	\$ 300,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 300,000	\$	\$ 300,000	\$	\$	\$	\$	\$ 300,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 300,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Toms Creek Road Traffic Study

**STATUS:** New

**PROJECT DESCRIPTION:**

As the Virginia Tech student population increases, vehicular, bicycle and pedestrian traffic will increase along Toms Creek Road as several student housing complexes are located along this corridor. It is expected that vehicular traffic will also increase due to the recently completed VDOT project at the North Main Street and US Route 460 Bypass intersection (the RCUT project), as more vehicles will use this corridor to access US Route 460 Bypass since left turns from North Main Street onto US Route 460 Bypass have been eliminated. This project will fund a preliminary traffic study to determine the transportation/traffic impacts to Toms Creek Road and review the geometry and level of service at the adjacent intersections and develop schematic improvement plans.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Winter 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 200,000	\$	\$	\$ 200,000	\$	\$	\$	\$ 200,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 200,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 200,000	\$	\$	\$ 200,000	\$	\$	\$	\$ 200,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 200,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Traffic Signal and Timing Counts

**STATUS:** New

**PROJECT DESCRIPTION:**

In order to ensure that the Town's transportation network continues to operate in a safe and efficient manner, it is critical that the traffic signal network functions effectively, utilizing timing patterns that allow all users the ability to travel throughout Town. The timing patterns of the traffic signals should be reviewed periodically to determine if there are any modifications needed to allow for safe and efficient travel. This project will review one corridor of the Town's signal network each year. The project includes obtaining vehicular, bicycle and pedestrian counts, review of the data and making any of the necessary adjustments to the signals. The Town will hire a consultant to perform this work. The corridors that will be reviewed are the Downtown Corridor, the South Main Street Corridor, Prices Fork Road East/University City Boulevard Corridor, Prices Fork Road West Corridor, and the Free Operation Signals that are not located on any of the above corridors.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 97,450	\$	\$ 19,600	\$ 18,500	\$ 21,000	\$ 16,700	\$ 21,650	\$ 97,450	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 97,450</b>	<b>\$ 0</b>	<b>\$ 19,600</b>	<b>\$ 18,500</b>	<b>\$ 21,000</b>	<b>\$ 16,700</b>	<b>\$ 21,650</b>	<b>\$ 97,450</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 97,450	\$	\$ 19,600	\$ 18,500	\$ 21,000	\$ 16,700	\$ 21,650	\$ 97,450	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 97,450</b>	<b>\$ 0</b>	<b>\$ 19,600</b>	<b>\$ 18,500</b>	<b>\$ 21,000</b>	<b>\$ 16,700</b>	<b>\$ 21,650</b>	<b>\$ 97,450</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Huckleberry Trail Bridge-Sheffield Drive

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project will fund the design and construction of a grade separated pedestrian crossing over Prices Fork Road to connect two sections of the Huckleberry Trail. This crossing will provide for a safe location for trail users to obtain access from the Huckleberry/Hethwood trail system to the Huckleberry Trail system that continues on to the National Forest. The property is owned by the Town and the necessary easements located along the north side of Prices Fork Road have been obtained. This project will be submitted for funding under the VDOT Revenue Sharing Program or Transportation Enhancement Grant Program. Private sources may also provide funding for this project.

**OPERATING IMPACT:** Public Works will have additional maintenance requirements

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2023	Fall 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 3,434,000	\$	\$	\$	\$	\$ 134,000	\$	\$ 134,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund Storm								0	0
Water Fund								0	0
Grant Funding							4,000,000	4,000,000	0
<b>Total Sources</b>	<b>\$ 3,434,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 134,000</b>	<b>\$ 4,000,000</b>	<b>\$ 4,134,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 134,000	\$	\$	\$	\$	\$ 134,000	\$	\$ 134,000	\$
Construction	4,000,000						4,000,000	4,000,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 4,134,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 134,000</b>	<b>\$ 4,000,000</b>	<b>\$ 4,134,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Planning and Building Department**

**TITLE:** Old Blacksburg Middle School to Huckleberry Trail Bicycle and Pedestrian Connection

**STATUS:** New

**PROJECT DESCRIPTION:**

This project will fund any needed traffic counts and conceptual design for Eheart Street bicycle and pedestrian improvements to create a direct link between the Huckleberry Trail and Main Street. The project provides for a revised roadway configuration through a design process with public involvement. The project is designed as an extension of possible improvements on Eheart Street from Willard Drive to South Main Street and related to a potential traffic signal at the intersection of Eheart Street and South Main Street.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Summer 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 35,000	\$	\$ 35,000	\$	\$	\$	\$	\$ 35,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 35,000</b>	<b>\$ 0</b>	<b>\$ 35,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 35,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 35,000	\$	\$ 35,000	\$	\$	\$	\$	\$ 35,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 35,000</b>	<b>\$ 0</b>	<b>\$ 35,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 35,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Planning and Building Department**

**TITLE:** Bicycle Facility Implementation Plan

**STATUS:** New

**PROJECT DESCRIPTION:**

To implement the vision and goals to improve bicycle and pedestrian pathways that represent significant bike/pedestrian traffic volumes leading into the University, this project intends to evaluate three corridors: (1) University City Boulevard, (2) Toms Creek Road and (3) Progress Street. The scope includes evaluating current conditions and making specific recommendations to include schematic design solutions with capital costs. The results of the study will then be prioritized and incorporated into future project planning for investments to realize identified solutions.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Fall 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 150,000	\$	\$ 150,000	\$	\$	\$	\$	\$ 150,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	150,000		150,000					150,000	
<b>Total Uses</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 150,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Housing and Neighborhood Services**

**TITLE:**

**STATUS:**

**PROJECT DESCRIPTION:**

There are no projects for the CDBG Entitlement Fund in this Recommended Capital Improvement Program.

**OPERATING IMPACT:**

**GOAL ADDRESSED:**

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Roadway Full Depth Reconstruction (FDR)

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for the reconstruction of town streets through the process of Full Depth Reclamation (FDR). FDR will be performed on streets where reconstruction is needed and where normal pavement maintenance activities do not apply. This process will provide recycling and reconstruction of the road base material, but with a cost that is a fraction of traditional road reconstruction. The VDOT Revenue Sharing program is not expected to fund pavement maintenance activities in the future, which would include asphalt pavement overlays. However, this process (FDR) is considered to be road reconstruction and therefore is eligible for VDOT Revenue Sharing funds

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing			100,000	100,000	100,000	100,000	100,000	500,000	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 200,000</b>	<b>\$ 1,000,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	200,000	200,000	200,000	200,000	200,000	1,000,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 200,000</b>	<b>\$ 1,000,000</b>	<b>\$ 0</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Guardrail Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to correct traffic safety hazards in the right-of-way involving the replacement of non-compliant guardrails in locations where these guardrails are required by VDOT standards.

This project is eligible for a VDOT Revenue Sharing match.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing	Continuing	Continuing	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Sidewalk Trip Hazard Removal

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for sidewalk trip hazard removal for “severe” and “most severe” classes of hazards by grinding down sidewalk or replacing brick sidewalk tripping hazards via acceptable VDOT methods, where settlement exceeds ½ inch to 2 ½ inches. Trip hazard removal projects bring sidewalks into compliance with ADA and OSHA standards at a lower cost than full replacement. This project is eligible for a VDOT Revenue Sharing match.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 12,500	\$ 62,500	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing	Continuing	Continuing	12,500	12,500	12,500	12,500	12,500	62,500	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 25,000</b>	<b>\$ 125,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	25,000	25,000	25,000	25,000	25,000	125,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 25,000</b>	<b>\$ 125,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Right-of-Way Hazard Mitigation

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to correct traffic safety hazards in the right-of-way involving trees or other heavy vegetation that conceal oncoming vehicles approaching driveways and/or intersecting roadways. Many of these hazards are located in the more rural portions of Town. This project is eligible for a VDOT Revenue Sharing match.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing	Continuing	Continuing	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 20,000</b>	<b>\$ 100,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	20,000	20,000	20,000	20,000	20,000	100,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 20,000</b>	<b>\$ 100,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Curb, Gutter and Sidewalk Rebuild

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for the replacement of old deteriorated, damaged or settled portions of curb, gutter and sidewalk; construction of short segments of missing walk ways and updates to curb ramps and driveways. This project is eligible for a VDOT Revenue Sharing match.

**OPERATING IMPACT:** Already in operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 60,000</b>	<b>\$ 300,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	60,000	60,000	60,000	60,000	60,000	300,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 60,000</b>	<b>\$ 300,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Major Roadway Repaving

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Since 2013/14, roadway resurfacing is eligible for funding under the VDOT Revenue Sharing Program. The roads included must have a condition rating which indicates a significant enough deficiency to merit eligibility. The roadways identified are amongst the poorest condition in Town, and thus most eligible for this funding.

If the Town does not receive funds from the VDOT Revenue Sharing Program, this project may be deferred.

**OPERATING IMPACT:** Already in operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 325,000	\$ 1,625,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing	Continuing	Continuing	325,000	325,000	325,000	325,000	325,000	1,625,000	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 650,000</b>	<b>\$ 3,250,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	650,000	650,000	650,000	650,000	650,000	3,250,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 650,000</b>	<b>\$ 3,250,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Harding Avenue Storm Water and Pedestrian Project

**STATUS:** New

**PROJECT DESCRIPTION:**

This project provides funding to correct drainage problems in the right-of-way that include but are not limited to culvert replacement, storm water pipe extension, pipe size upgrades, pipe repair, inlet installation, ditch installation, and manhole replacement. Harding Avenue has been identified as a priority for pedestrian improvement. This project combines storm water improvements with needed pedestrian and bicycle enhancements.

Funding in FY 2020 through 2021 is maintained at an appropriate level to address the preliminary engineering, design, right of way acquisition and construction for this project. VDOT revenue sharing funding may be pursued for 50% of the construction costs when projects are shovel ready and in areas where it is eligible. Once the preliminary study is complete, then the formal engineering design and right of way will be completed and the construction for these projects will continue as funding is available. VDOT Revenue sharing funds will be pursued for the future construction in FY21 and FY22.

**OPERATING IMPACT:** Additional sidewalk and storm drainage structures (i.e. pipes, manholes, and inlets) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 515,000	\$	\$ 70,000	\$	\$	\$	\$	\$ 70,000	\$ 0
General Obligation Bonds				825,000				825,000	0
Water/Sewer Fund								0	0
Storm Water Fund	510,000		130,000					130,000	0
VDOT Revenue Sharing	925,000			825,000				825,000	0
<b>Total Sources</b>	<b>\$ 1,950,000</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 1,650,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,850,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 200,000	\$	\$ 200,000	\$	\$	\$	\$	\$ 200,000	\$
Construction	1,650,000			1,650,000		0	0	1,650,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,850,000</b>	<b>\$ 0</b>	<b>\$ 200,000</b>	<b>\$ 1,650,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,850,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Old Blacksburg High School Public Roads

**STATUS:** New

**PROJECT DESCRIPTION:**

This project includes the construction of approximately 2,150 linear feet of a public roads, associated curb and gutter and sidewalk. The road will be located at the former Old Blacksburg High School (OBHS) entrance and connect to Grove Avenue. There will also be an internal loop road at the OBHS site. This project will be performed as part of the Old Blacksburg High School (OBHS) redevelopment and funding will be provided by VDOT's revenue sharing program and matched by the OBHS Developer.

**OPERATING IMPACT:** The road will require typical maintenance associated with public streets (snow removal and repaving).

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Winter/Spring 2021	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
Developer Funds				1,050,000				1,050,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing				1,050,000				1,050,000	0
<b>Total Sources</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 2,100,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 2,100,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction				2,100,000				2,100,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 2,100,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 2,100,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction.	0					0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Old Blacksburg Middle School Cycle Track

**STATUS:** New

**PROJECT DESCRIPTION:**

This project includes the design and construction of approximately 1,850 linear feet of a cycle track, which is a two-way separated bike lane, along the south side of Eheart Street from Willard Avenue to South Main Street. This project will be done as part of the Old Blacksburg Middle School (OBMS) redevelopment and funding will be provided by VDOT's revenue sharing program and matched by the OBMS Developer.

**OPERATING IMPACT:** The cycle track will require typical maintenance associated with bike lanes (snow removal and repaving).

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Winter/Spring 2021	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
Developer Funds				350,000				350,000	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing				350,000				350,000	0
<b>Total Sources</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction				700,000				700,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 700,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction.	0					0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Storm Water Small Improvements and Minor Repairs

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project is intended to address small and immediate repairs of the storm drainage system. Funded projects would be small drainage problems in the right-of-way that include, but are not limited to, culvert replacement, storm water pipe extension, pipe size upgrades, pipe repair, inlet installation, ditch installation and manhole replacement. When possible, these improvements will be constructed with Public Works forces and funding will cover material costs (pipes, inlets, manholes, etc.). When the need for a specialist is required or there are time sensitive components to the project, labor and equipment will be covered by this funding source.

**OPERATING IMPACT:** Additional storm drainage structures (i.e., pipes, manholes, and inlets) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Spring 2025

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	Continuing	Continuing	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 10,000</b>	<b>\$ 50,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 10,000</b>	<b>\$ 50,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Minimal						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Storm Water Quality Improvements

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to design and construct water quality improvements. These projects include, but are not limited to; stream restoration projects, storm water facility retrofits to enhance water quality benefits and watershed studies to determine long term improvements to address TMDL requirements.

Funding in FY 2020 through 2024 is maintained at an appropriate level to address the proposed projects below. There may be other funding alternatives during the construction phases of these projects such as SLAF (Storm Water Local Assistance Fund Grants) from the Department of Environmental Quality or DOF (Department of Forestry) Tree Planting Grants.

Schedule of Projects under this Water Quality Project:

<b>Year</b>	<b>Description</b>
2021	Maple Ridge Storm Water Pond Design
2022	Collegiate Suites Storm Water Facility Retrofit Design
	Future sites to be determined.

**OPERATING IMPACT:** Additional water quality facilities (i.e., bioretention facilities) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Fall 2020	Spring 2025

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	Continuing	390,000	0	50,000	50,000	50,000	50,000	200,000	Continuing
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 390,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 200,000</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	Continuing	\$ 390,000	\$	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 200,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 390,000</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 50,000</b>	<b>\$ 200,000</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Countryside Estates Storm Water Improvement Project

**STATUS:** New

**PROJECT DESCRIPTION:**

This project provides funding to correct drainage problems in the right-of-way that include but are not limited to culvert replacement, storm water pipe extension, pipe size upgrades, pipe repair, inlet installation, ditch installation, and manhole replacement. When possible, these improvements will be constructed with Public Works forces and funding will cover material costs (pipes, inlets, manholes, etc.). When the need for a specialist arises or there are time sensitive components to the project, labor and equipment will be covered by this funding source.

Funding in FY 2022 is maintained at an appropriate level to address the engineering design and construction for this project. Currently the road drainage is exiting the right of way and flowing across multiple lots uncontrolled. This is causing water to enter homes and saturate foundations.. This project is designed to reconstruct the storm drainage network and stabilize the system so it is returned to functional.

**OPERATING IMPACT:** Additional water quality facilities (i.e., bioretention facilities) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2021	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	167,000				167,000			167,000	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 167,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 167,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 167,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 35,000	\$	\$	\$	\$ 35,000	\$	\$	\$ 35,000	\$
Construction	132,000				132,000		0	132,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 167,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 167,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 167,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Penn Street Drainage Improvement Project

**STATUS:** New

**PROJECT DESCRIPTION:**

This project provides funding to correct drainage problems in the right-of-way that include but are not limited to culvert replacement, storm water pipe extension, pipe size upgrades, pipe repair, inlet installation, ditch installation and manhole replacement.

Funding in FY 2020 through 2022 is maintained at an appropriate level to address the preliminary engineering, design and right of way acquisition and construction for this project. VDOT revenue sharing funding may be pursued for 50% of the construction costs when projects are shovel ready and in areas where it is eligible. A preliminary study has been completed and upstream detention alternatives need to be analyzed. This will most likely require land acquisition, since the Town does not already own any upstream properties. Once this has been evaluated, then the formal engineering design and property acquisition will be completed and the construction for these projects will continue as funding is available. In some cases, bonds may be pursued for construction costs that exceed revenue in the fund. This need for bond revenue will be balanced with the time sensitivity and risk/cost benefit of the project.

**OPERATING IMPACT:** Additional storm drainage structures (i.e., pipes, manholes and inlets) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	417,500		25,000	145,000	247,500			417,500	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 417,500</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 145,000</b>	<b>\$ 247,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 417,500</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 170,000	\$	\$ 25,000	\$ 145,000	\$	\$	\$	\$ 170,000	\$
Construction	247,500				247,500	0	0	247,500	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 417,500</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 145,000</b>	<b>\$ 247,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 417,500</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Police Station Box Culvert Replacement

**STATUS:** New

**PROJECT DESCRIPTION:**

The box culvert that runs along Miller Street and Draper Road that daylight behind the Police Station is quite old and in disrepair. Much of the stream below the box culvert is no longer contained within the stormwater feature. This old system needs to be replaced before a significant failure occurs. This project seeks to replace the old existing box culvert from Miller Street to its discharge point adjacent to the Police Station and in front of the Five Chimneys building.

**OPERATING IMPACT:** None at this time.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2023	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	222,500					30,000	192,500	222,500	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 222,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 192,500</b>	<b>\$ 222,500</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 30,000	\$	\$	\$	\$	\$ 30,000	\$	\$ 30,000	\$
Construction	192,500						192,500	192,500	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 222,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 30,000</b>	<b>\$ 192,500</b>	<b>\$ 222,500</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Progress Street and North Main Improvement Project

**STATUS:** New

**PROJECT DESCRIPTION:**

There has been some significant historical record of flooding at this intersection of North Main Street and Progress Street. This area drains hundreds of acres of watershed and this study is intended to identify what is the cause. This study would provide guidance as to the cause of the flooding of this highly used intersection and propose some recommendations for mitigation.

**OPERATING IMPACT:** None at this time.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2021	Spring 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	50,000				50,000			50,000	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$	\$	\$	\$ 50,000	\$	\$	\$ 50,000	\$
Construction						0	0	0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Webb Street Drainage Improvement Project

**STATUS:** New

**PROJECT DESCRIPTION:**

This project provides funding to correct drainage problems in the right-of-way that include but are not limited to culvert replacement, storm water pipe extension, pipe size upgrades, pipe repair, inlet installation, ditch installation, and manhole replacement. When possible, these improvements will be constructed with Public Works forces and funding will cover material costs (pipes, inlets, manholes, etc.). When the need for a specialist arises or there are time sensitive components to the project, labor and equipment will be covered by this funding source.

Funding in FY 2020 through 2022 is maintained at an appropriate level to address the preliminary engineering, design and right of way acquisition and construction for this project. VDOT revenue sharing funding may be pursued for 50% of the construction costs when projects are shovel ready and in areas where it is eligible. Once the preliminary study is complete, then the formal engineering design and right of way will be completed, and the construction for these projects will continue as funding is available. In some cases, bonds may be pursued for construction costs that exceed revenue in the fund. This need for bond revenue will be balanced with the time sensitivity and risk/cost benefit of the project.

**OPERATING IMPACT:** Additional storm drainage structures (i.e., pipes, manholes and inlets) to maintain.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund	535,000		25,000	60,000	450,000			535,000	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 535,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 60,000</b>	<b>\$ 450,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 535,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 85,000	\$	\$ 25,000	\$ 60,000	\$	\$	\$	\$ 85,000	\$
Construction	450,000				450,000	0	0	450,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 535,000</b>	<b>\$ 0</b>	<b>\$ 25,000</b>	<b>\$ 60,000</b>	<b>\$ 450,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 535,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
To be determined after construction						0

**Capital Improvement Program**

**Finance Department**

**TITLE:** Meter Maintenance and Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

The purpose of this project is to set aside funding to maintain and replace utility meters and the necessary electronic components. A water meter, like any other mechanical device, is subject to wear and deterioration with usage. With very few exceptions, meter accuracy decreases with age, resulting in under-registration and loss of accountability. This loss of accuracy also means a loss of water revenue. The system is twenty years old and the need to be pro-active in maintenance is vital. This funding would include a coordinated replacement of the residential meters with new technology and the replacement for erosion and environmental stressors for the ECR (encoded communications register) and also replacement of one and two inch commercial meters. The replacement of the MXU's (meter transceiver unit) was accomplished in FY 2015 and allows more accurate and efficient reading capabilities and will enable the Town to upgrade to FlexNet when needed. The annual amount has been reviewed to allow the replacement of the meters with the newest models that are available.

**OPERATING IMPACT:** Replacement of current equipment. Costs already in the operating budget.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing	205,000	205,000	205,000	205,000	205,000	1,025,000	Continuing
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 205,000</b>	<b>\$ 1,025,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	205,000	205,000	205,000	205,000	205,000	1,025,000	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 205,000</b>	<b>\$ 1,025,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Finance Department**

**TITLE:** Radio Read Vehicle Transceiver Unit (VXU) Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

The purpose of this project is to fund the replacement of the VXU (Vehicle Transceiver Unit). This vehicle-based device is used to read meters by radio signals. The current unit will be replaced in FY 2019. As technology advances are seemingly ceaseless and changes occur daily, this project would allow for the upgrading and advancement of our Automated Meter Reading System in accordance with its replacement schedule.

**OPERATING IMPACT:** Replacement of current equipment. Costs already in the operating budget.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2024	Summer 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	40,000						40,000	40,000	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	40,000						40,000	40,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 40,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 40,000</b>	<b>\$ 40,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Neil Street Water Pump Station

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

Based on a prior study, an additional pump station at the Neil Street water tank would provide redundancy to reduce outages if the feed from Highland Park water tank was lost. The additional water feed would increase reliability in maintaining adequate storage for the high water system, reduce stress on the existing pump station by alternating pumps, and provide a second feed when maintenance on tanks or pump stations is required.

**OPERATING IMPACT:** Maintenance and utility costs.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Fall 2023

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	480,750				125,000	355,750		480,750	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 480,750</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 125,000</b>	<b>\$ 355,750</b>	<b>\$ 0</b>	<b>\$ 480,750</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 125,000	\$ 50,000	\$	\$	\$ 125,000	\$	\$	\$ 125,000	\$
Construction	355,750					355,750		355,750	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 480,750</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 125,000</b>	<b>\$ 355,750</b>	<b>\$ 0</b>	<b>\$ 480,750</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Utility costs					5,000	\$ 5,000

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Sewer Relocation/Replacement

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

There are several locations throughout Town where sanitary sewer mains are located underneath buildings. This presents a risk to providing continuous sanitary sewer service to connection upstream, as the pipe cannot be accessed for direct repair or replacement. This project includes evaluation of six locations known or suspected to have sewer lines underneath buildings, with the intent to relocate sewer mains to new paths that do not present maintenance issues or conflicts with building structures. One additional sewer relocation project where a sewer line in an urban stream bed has been completely uncovered due to stream erosion will also be included. The funding for FY20 includes design and construction costs for relocation of sewer lines on Roanoke Street and construction costs for the Scott Allen Circle relocation. The funding for FY21 includes construction costs for relocation of sewer lines on McBryde Drive and Dunton Drive.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Spring 2018	Fall 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	925,050	383,900	316,665	224,485				541,150	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 925,050</b>	<b>\$ 383,900</b>	<b>\$ 316,665</b>	<b>\$ 224,485</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 541,150</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 181,220	\$ 118,200	\$ 23,370	\$ 39,650	\$	\$	\$	\$ 63,020	\$
Construction	743,830	265,700	293,295	184,835				478,130	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 925,050</b>	<b>\$ 383,900</b>	<b>\$ 316,665</b>	<b>\$ 224,485</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 541,150</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Water Tank Maintenance Projects

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

The Health Department recommends water tanks be evaluated every five years. An evaluation of the water tanks was performed by Tank Industry Consultants in 2016. The evaluations recommend addressing sanitary and operational deficiencies to properly maintain the tanks.

- Alleghany Water Tank:** The cost to address some of the identified issues was covered in a prior allocation. The report also recommends repainting the interior and exterior within the next six years. Because the evaluation identified new structural deficiencies which will require the tank to be drained, it would be a practical time to repaint the interior and exterior surfaces. The additional costs to repaint and repair all deficiencies identified is \$455,000.
- Neil Street Water Tank:** The Neil Street evaluation recommends repainting the tank interior within the next three years. The evaluation states the exterior should be repainted within the next six to seven years, however from an operational stand point, it would be beneficial to repaint the interior and exterior surfaces at the same time.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	1,395,350	810,000		585,350				585,350	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 1,395,350</b>	<b>\$ 810,000</b>	<b>\$ 0</b>	<b>\$ 585,350</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 585,350</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$ 25,000	\$	\$ 25,000	\$	\$	\$	\$ 25,000	\$
Construction	1,345,350	785,000		560,350				560,350	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,395,350</b>	<b>\$ 810,000</b>	<b>\$ 0</b>	<b>\$ 585,350</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 585,350</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Downtown I & I Reduction

**STATUS:** In-Progress

**PROJECT DESCRIPTION:**

The Draper Road sewer capacity study identified the need to reduce inflow and infiltration (I&I) by 0.6 million gallons per day (MGD) in our sewer system to prevent an increase in overflows in the Sanitation Authority interceptors due to upgrading our sewer lines. Increasing the capacity of our sewer lines without simultaneously reducing the I&I will simply move the overflow downstream. I&I removal has the added benefit of increasing capacity within the Town's sewer system and extending the life of aging pipes and manholes. The downtown sewer sheds (Roanoke and Harding) have been demonstrated to have high storm-related peak flow, so they will be initially targeted for I&I removal. Other sewer sheds may also be added to the scope as needed.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Spring 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	900,000	60,000	200,000	200,000	200,000	240,000		840,000	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 900,000</b>	<b>\$ 60,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 240,000</b>	<b>\$ 0</b>	<b>\$ 840,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 180,000	\$ 60,000	\$ 120,000	\$	\$	\$	\$	\$ 120,000	\$
Construction	720,000		80,000	200,000	200,000	240,000		720,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 900,000</b>	<b>\$ 60,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 200,000</b>	<b>\$ 240,000</b>	<b>\$ 0</b>	<b>\$ 840,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Prices Fork Waterline Replacement

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

The existing twelve inch water main in Prices Fork Road between the intersection of Toms Creek Road and West Campus Drive is of substandard condition, resulting in numerous water breaks and maintenance issues. Replacing the main to current Town of Blacksburg Water Standards would improve water quality and reliability, while also reducing maintenance calls and water interruptions for the Public Works Department.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Summer/Fall 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	442,500		442,500					442,500	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 442,500</b>	<b>\$ 0</b>	<b>\$ 442,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 442,500</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 60,000	\$	\$ 60,000	\$	\$	\$	\$	\$ 60,000	\$
Construction	382,500		382,500					382,500	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 442,500</b>	<b>\$ 0</b>	<b>\$ 442,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 442,500</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Force Main Relocation for Givens Pump Station

**STATUS:** New

**PROJECT DESCRIPTION:**

This project is to fund the replacement of the existing wastewater force main from the old Givens Pump Station. The Givens Pump Station has been relocated, taken out of service and replaced with the Northside Pump Station. The force main from the Givens Pump Station discharged wastewater into the Shenandoah I Pump Station. Preliminary engineering reports previously performed recommend that this force main be relocated to discharge directly into the Town's gravity collection system along North Main Street. This will increase the reliability of the overall conveyance system and eliminate "duplicate" pumping of wastewater being conveyed from the northwest end of the Town. Construction plans have been prepared under a previous Capital Improvement Program project.

Costs to update the design to address potential field and adjacent private property owner issues are included.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2021	Spring 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	727,000				727,000			727,000	0
Water/Sewer Fund	209,000	209,000						0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 936,000</b>	<b>\$ 209,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 727,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 727,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 47,000	\$	\$	\$	\$ 47,000	\$	\$	\$ 47,000	\$
Construction	889,000	209,000			680,000			680,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 936,000</b>	<b>\$ 209,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 727,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 727,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** North Main Street Gravity Replacement

**STATUS:** New

**PROJECT DESCRIPTION:**

This project includes construction of a sanitary sewer main to replace a section of existing sewer main that is in poor condition due to its age and is under capacity. This section also requires replacement to facilitate the Northside Force Main Relocation project that is associated with the recently completed Givens Pump Station relocation project. The section of main that requires replacement has been designed previously. This project will fund the construction. This project is required to be constructed prior to the Northside Force Main Relocation Project.

Costs for FY21 are for upgrading of sections of main 300 linear feet downstream and 761 linear feet upstream of this project. These sections have been identified as under capacity if new development occurs in the sewer shed.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$	\$
General Obligation Bonds	700,000			700,000				0	0
Water/Sewer Fund	425,374		425,374					425,374	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 1,125,374</b>	<b>\$ 0</b>	<b>\$ 425,374</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,125,374</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 96,000	\$	\$ 51,000	\$ 45,000	\$	\$	\$	\$ 96,000	\$
Construction	1,029,374		374,374	655,000				1,029,374	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 1,125,374</b>	<b>\$ 0</b>	<b>\$ 425,374</b>	<b>\$ 700,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 1,125,374</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Water Tank Inspections

**STATUS:** New

**PROJECT DESCRIPTION:**

The Virginia Department of Health recommends water storage tanks be inspected every five years by a qualified tank inspector. These periodic inspections help to ensure maintenance and operational issues are addressed for continued delivery of safe domestic drinking water, fire protection services, and emergency storage. Five-year inspections should follow the AWWA D101-53 standard for tank inspections.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Fall 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	55,000			55,000				55,000	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 55,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 55,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 55,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	55,000			55,000				55,000	
<b>Total Uses</b>	<b>\$ 55,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 55,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 55,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Engineering and GIS**

**TITLE:** Townwide Sanitary Sewer Model Upgrade

**STATUS:** New

**PROJECT DESCRIPTION:**

This project will provide funding for updates to the Town's Sanitary Sewer Model by a consultant every five years. The Town uses the model to analyze the impacts of development projects and Town Capital Improvement Program projects on the sanitary sewer system. The results of these analyses are then used to determine future upgrades to the system that the Town needs to include in the Capital Improvement Program or upgrades that development projects may need to make to mitigate impacts to the system due to the increase in flows due to the development. Town Staff will input the updated information as new projects are constructed and have the consultant perform more extensive and detailed review of the sanitary sewer system every five years.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2023	Spring 2024

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$ 101,500	\$	\$	\$	\$	\$	\$ 101,500	\$ 101,500	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 101,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 101,500</b>	<b>\$ 101,500</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 101,500	\$	\$	\$	\$	\$	\$ 101,500	\$ 101,500	\$
Construction								0	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 101,500</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 101,500</b>	<b>\$ 101,500</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Fire Hydrant and Water Valve Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to replace aging fire hydrants. Old hydrants are at high risk during exercising and flushing activities for potential water main breaks and leaks. With over 1,000 hydrants currently in service, this project will evaluate hydrants for replacement annually as determined by their age and maintenance record. This project also provides funding to replace older water main valves in need of replacement that are identified as part of a new water valve exercising program.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 30,000</b>	<b>\$ 150,000</b>	<b>Continuing</b>				

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Sanitary Sewer Lining and Pipe Bursting for I & I Abatement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for the repair, replacement, pipe bursting, and lining of old and/or broken sanitary sewer lines that do not provide adequate service and are at high-risk for inflow and infiltration. Specific locations for inflow and infiltration abatement measures are prioritized by a cross-departmental sanitary sewer working group and are identified through ongoing maintenance and operations.

No additional money is being requested due to the back log of work that is scheduled to be done.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing		250,000	250,000	250,000	250,000	1,000,000	Continuing
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 1,000,000</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	Continuing	Continuing		250,000	250,000	250,000	250,000	1,000,000	Continuing
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 250,000</b>	<b>\$ 1,000,000</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Water Main Replacements

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding to upgrade undersized water lines that restrict flow, reduce pressure, and do not provide adequate fire protection at various locations in the Town’s water system. The smaller lines account for the majority of leaks experienced throughout the year. The lines will be replaced with standard 8-inch mains. Many of these small lines are galvanized pipe, are more than fifteen years of age, and have corroded to a stage that severely restricts the flow. In many cases, over half of the inside diameter is blocked by corrosion. A project list is provided on the following pages.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing	137,670	263,860	326,283	251,075		978,888	Continuing
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 137,670</b>	<b>\$ 263,860</b>	<b>\$ 326,283</b>	<b>\$ 251,075</b>	<b>\$ 0</b>	<b>\$ 978,888</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing	Continuing	76,560	103,200	134,762	102,270		416,792	Continuing
Equipment								0	
Contractual Services			61,110	160,660	191,521	148,805		562,096	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 137,670</b>	<b>\$ 263,860</b>	<b>\$ 326,283</b>	<b>\$ 251,075</b>	<b>\$ 0</b>	<b>\$ 978,888</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0



**Capital Improvement Program**

**Public Works Department**

**TITLE:** Remote Area Slope Mower

**STATUS:** New

**PROJECT DESCRIPTION:**

Many utility easements are located in remote areas that are hard to access with large equipment. These easements must be accessible in order to conduct routine utility inspections and to respond to emergencies. This funding provides for the purchase of a compact slope mower that can more easily access and maintain easements in remote areas. This equipment can be operated by remote control which allows for safer brush clearing operations in difficult terrains. This equipment will allow utility crews to access remote areas quicker in emergencies and provide easier accessibility to utility lines during routine inspections.

**OPERATING IMPACT:** Annual fuel and maintenance cost.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2019

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	45,000		45,000					45,000	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	45,000		45,000					45,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 45,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Fuel and maintenance costs	1,000	1,000	1,000	1,000	1,000	\$ 5,000

**Capital Improvement Program**

**TITLE:** Heavy Duty Bus Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a replacement/expansion program for the bus fleet associated with this service for Blacksburg which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for bus replacement/expansion is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	40' / 60' Buses	3 / 2	Replacement
FY2021	40' / 60' Buses	10 / 1	Replacement
FY2022	40' / 60' Buses	8 / 3	Replacement
FY2023	None scheduled		
FY2024	40' / 60' Buses	3 / 1	Replacement

Each bus purchase includes a spare parts package and other required components. Changes in service may alter future capital improvement needs and vehicle sizes. As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 3,017,990	\$ 5,916,580	\$ 6,663,516	\$	\$ 2,646,573	\$ 18,244,659	Continuing
State Funds	Continuing	Continuing	377,249	739,572	832,939		330,822	2,280,582	Continuing
Local Funds	Continuing	Continuing	377,249	739,572	832,939		330,822	2,280,582	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 3,772,488</b>	<b>\$ 7,395,724</b>	<b>\$ 8,329,394</b>	<b>\$ 0</b>	<b>\$ 3,308,217</b>	<b>\$ 22,805,823</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	3,772,488	7,395,724	8,329,394		3,308,217	22,805,823	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 3,772,488</b>	<b>\$ 7,395,724</b>	<b>\$ 8,329,394</b>	<b>\$ 0</b>	<b>\$ 3,308,217</b>	<b>\$ 22,805,823</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
None						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** BT Access Bus Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a replacement/expansion program for its paratransit body on chassis buses, which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for paratransit bus replacement/expansion is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	Body on Chassis	1	Replacement
FY2021	Body on Chassis	2	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	5	Replacement
FY2024	None Scheduled		

Blacksburg Transit may extend the replacement schedule for certain BT Access vehicles if warranted, based on a periodic review of mileage, condition and age. As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 100,939	\$ 207,935	\$	\$ 538,011	\$	\$ 846,885	Continuing
State Funds	Continuing	Continuing	12,617	25,992		67,251		105,860	Continuing
Local Funds	Continuing	Continuing	12,617	25,992		67,251		105,860	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 126,173</b>	<b>\$ 259,919</b>	<b>\$ 0</b>	<b>\$ 672,513</b>	<b>\$ 0</b>	<b>\$ 1,058,605</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	126,173	259,919		672,513		1,058,605	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 126,173</b>	<b>\$ 259,919</b>	<b>\$ 0</b>	<b>\$ 672,513</b>	<b>\$ 0</b>	<b>\$ 1,058,605</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
N/A						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Christiansburg Bus Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a replacement/expansion program for the bus fleet associated with this service which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for bus replacement/expansion is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	Body on Chassis	2	One Replacement and One Expansion
FY2021	Body on Chassis	4	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	1	Replacement
FY2024	Body on Chassis	2	Replacement

Blacksburg Transit may extend the replacement schedule for certain vehicles if warranted, based on a periodic review of mileage, condition and age. As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 219,179	\$ 442,505	\$	\$ 117,364	\$ 300,710	\$ 1,079,758	Continuing
State Funds	Continuing	Continuing	27,397	55,313		14,670	37,589	134,969	Continuing
Local Funds	Continuing	Continuing	27,397	55,313		14,670	37,589	134,969	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 273,973</b>	<b>\$ 553,131</b>	<b>\$ 0</b>	<b>\$ 146,704</b>	<b>\$ 375,888</b>	<b>\$ 1,349,696</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	273,973	553,131		146,704	375,888	1,349,696	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 273,973</b>	<b>\$ 553,131</b>	<b>\$ 0</b>	<b>\$ 146,704</b>	<b>\$ 375,888</b>	<b>\$ 1,349,696</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
N/A						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Partner Bus Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a replacement/expansion program for the services associated with Warm Hearth and a spare for general use which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for bus replacement is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	None Scheduled		
FY2021	Body on Chassis	2	Replacement
FY2022	None Scheduled		
FY2023	None Scheduled		
FY2024	None Scheduled		

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<u>ESTIMATED START</u>	<u>ESTIMATED COMPLETION</u>
Continuing	Continuing

**Funding Sources**

<u>Sources</u>	<u>Total Required Project Funding</u>	<u>Funded through 6/30/2019</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>	<u>Future Funds Required</u>
Federal Funds	Continuing	Continuing	\$	\$ 243,979	\$	\$	\$	\$ 243,979	Continuing
State Funds	Continuing	Continuing		30,497				30,497	Continuing
Local Funds	Continuing	Continuing		30,497				30,497	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 304,973</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 304,973</b>	<b>Continuing</b>

**Planned Uses**

<u>Uses</u>	<u>Total Project Cost</u>	<u>Appropriated through 6/30/2019</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>	<u>Future Project Cost</u>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing		304,973				304,973	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 304,973</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 304,973</b>	<b>Continuing</b>

**Operating Impact**

<u>Expense Category</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>
N/A						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Support Vehicle Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a replacement/expansion program for support vehicles, which meets Transit's needs. The proposed schedule for support vehicle replacement/expansion is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>	<u>Category</u>
FY2020	Operations Vehicles	1	Replacement	Light Duty
FY2021	Operations Vehicles	4	Replacement	Light Duty
FY2021	Maintenance Vehicles	4	Replacement	Heavy Duty
FY2022	Operations Vehicles	2	Replacement	Light Duty
FY2023	Administrative Vehicles	6	Replacement	Light Duty
FY2024	None Scheduled			

Blacksburg Transit may extend the replacement schedule for some vehicles if warranted, based on a periodic review of mileage, condition and age. As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 28,463	\$ 366,570	\$ 60,394	\$ 186,617	\$	\$ 642,044	Continuing
State Funds	Continuing	Continuing	3,558	45,821	7,549	23,327		80,255	Continuing
Local Funds	Continuing	Continuing	3,558	45,821	7,549	23,327		80,255	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 35,579</b>	<b>\$ 458,212</b>	<b>\$ 75,492</b>	<b>\$ 233,271</b>	<b>\$ 0</b>	<b>\$ 802,554</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	35,579	458,212	75,492	233,271		802,554	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 35,579</b>	<b>\$ 458,212</b>	<b>\$ 75,492</b>	<b>\$ 233,271</b>	<b>\$ 0</b>	<b>\$ 802,554</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
N/A						0

**Capital Improvement Program**

**TITLE:** Transit Facility Maintenance Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Each year there are maintenance requirements for the transit facility and vehicles which are necessary to maintain a state-of-the-art maintenance, operations and administrative facility. Upcoming projects include:

<b>Year</b>	<b>Description</b>
FY2020	Replacement: A/C unit, fuel system control unit, tire changer, air operated axle grease pump, shop equipment cabinets, and fluid reels. New: large ceiling fans.
FY2021	New heavy duty precision drill press and other projects to be selected from the facility assessment plan.
FY2022	Projects will be selected from the facility assessment plan based on prioritized needs.
FY2023	Projects will be selected from the facility assessment plan based on prioritized needs.
FY2024	Projects will be selected from the facility assessment plan based on prioritized needs.

As with all transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	\$ 158,712	\$ 240,400	\$ 180,082	\$ 185,600	\$ 191,200	\$ 196,800	\$ 994,082	Continuing
State Funds	Continuing	31,742	30,050	22,510	23,200	23,900	24,600	124,260	Continuing
Local Funds	Continuing	7,936	30,050	22,510	23,200	23,900	24,600	124,260	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>\$ 198,390</b>	<b>\$ 300,500</b>	<b>\$ 225,102</b>	<b>\$ 232,000</b>	<b>\$ 239,000</b>	<b>\$ 246,000</b>	<b>\$ 1,242,602</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	198,390	300,500	225,102	232,000	239,000	246,000	1,242,602	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>\$ 198,390</b>	<b>\$ 300,500</b>	<b>\$ 225,102</b>	<b>\$ 232,000</b>	<b>\$ 239,000</b>	<b>\$ 246,000</b>	<b>\$ 1,242,602</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
N/A						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Technology Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit, in conjunction with the Technology Department, has developed a program for replacement and expansion of office hardware and software and related infrastructure. The proposed schedule for technology replacement is as follows:

<u>Year</u>	<u>Description</u>
FY2020	Eighteen workstations and peripherals, fifteen wireless access points and SAN replacements.
FY2021	Eighteen workstations and peripherals, fifteen wireless access points, eight edge network switches and one server room UPS.
FY2022	Eighteen workstations and peripherals, one Core Network Switch and one Host Server.
FY2023	Eighteen workstations and peripherals, ten VOIP Phones, one VOIP Server, two Host Servers and six printers.
FY2024	Eighteen workstations and peripherals, ten VOIP phones, one Wireless Network Controller, four Edge Network Switches, five Wireless Data Systems-signals.

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 135,898	\$ 132,937	\$ 135,889	\$ 156,956	\$ 112,132	\$ 673,812	Continuing
State Funds	Continuing	Continuing	16,987	16,617	16,986	19,620	14,017	84,227	Continuing
Local Funds	Continuing	Continuing	16,987	16,617	16,986	19,620	14,017	84,227	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 169,872</b>	<b>\$ 166,171</b>	<b>\$ 169,861</b>	<b>\$ 196,196</b>	<b>\$ 140,166</b>	<b>\$ 842,266</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	169,872	166,171	169,861	196,196	140,166	842,266	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 169,872</b>	<b>\$ 166,171</b>	<b>\$ 169,861</b>	<b>\$ 196,196</b>	<b>\$ 140,166</b>	<b>\$ 842,266</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
None						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** ITS System Replacement and Expansion Program

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

Blacksburg Transit has made extensive investments in Intelligent Transportation Systems (ITS), deploying a variety of systems. These systems are vital to the accuracy and reliability of Blacksburg Transit's customer facing information as well as effective delivery of services. Upgrades during this CIP period were developed in a consultant-led customer communication and ITS needs assessment.

<u>Year</u>	<u>Description</u>
FY2020	Fleet\Yard Management-Automated bus assignments, Voice Annucator Upgrades for 27 units, Paratransit software, Operator Information board Automatic Passenger Counter (APC)
FY2021	MMTF Ridership Information Systems and CAD\AVL Refresh
FY2022	MMTF Ridership Information Systems and On-Board Systems Refresh
FY2023	Simulator Upgrade and Advanced Traffic Management System (ATMS)
FY2024	Wireless Data Collection Upgrades and ATMS

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Will require maintenance agreements.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 396,218	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 1,996,218	Continuing
State Funds	Continuing	Continuing	49,527	50,000	50,000	50,000	50,000	249,527	Continuing
Local Funds	Continuing	Continuing	49,527	50,000	50,000	50,000	50,000	249,527	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 495,272</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 2,495,272</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	495,272	500,000	500,000	500,000	500,000	2,495,272	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 495,272</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 500,000</b>	<b>\$ 2,495,272</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Maintenance agreements		10,000	10,300	10,609	10,927	\$ 41,836

**Capital Improvement Program**

**Transit Department**

**TITLE:** Fleet Camera System

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This project includes purchase and installation of replacement cameras on certain body-on-chassis vehicles and two expansion fixed route buses that will be received in FY2020. Cameras for fixed route buses were funded in FY2019. Blacksburg Transit currently has cameras only on the body-on-chassis vehicles that are used primarily for paratransit service. This project will greatly improve safety and allow more effective investigations of collisions, customer complaints and other incidents. It will also be a useful tool for operator training. Selected newer body-on-chassis vehicles will be retrofitted while older vehicles will utilize the current equipment until they are replaced by a new vehicle.

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	Body-on-Chassis Vehicles	8	Retrofit vehicles that will not be replaced until after FY2022
	Fixed Route Buses	2	Expansion buses

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget for this phase.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Summer 2018	Summer 2020

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	\$ 581,446	\$ 504,403	\$ 77,043	\$	\$	\$	\$	\$ 77,043	\$
State Funds	110,511	100,881	9,630					9,630	
Local Funds	34,850	25,220	9,630					9,630	
<b>Total Sources</b>	<b>\$ 726,807</b>	<b>\$ 630,504</b>	<b>\$ 96,303</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 96,303</b>	<b>\$ 0</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	726,807	630,504	96,303					96,303	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 726,807</b>	<b>\$ 630,504</b>	<b>\$ 96,303</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 96,303</b>	<b>\$ 0</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
None						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Fare Automation System

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

Phase two of this project includes development and implementation of an automated fare collection system for customers not affiliated with Virginia Tech. Phase one, funded in FY2019, included purchase and installation of equipment on revenue vehicles to integrate with the new “smart” Hokie Passport. The project will greatly reduce the potential for use of expired IDs and offer more options for fare-paying customers. It will also provide more detailed data for use in route/schedule planning, and reporting. In FY2020 Blacksburg Transit will develop technical specifications for offering an electronic fare payment for the general public, with implementation planned for FY2022.

<u>Year</u>	<u>Description</u>
FY2020	Assessment and Technical specifications
FY2021	Implementation, including purchase of hardware and software

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget for this phase.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Summer 2021

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Federal Funds	\$ 400,550	\$ 244,550	\$ 24,000	\$ 132,000	\$	\$	\$	\$ 156,000	\$
State Funds	68,410	48,910	3,000	16,500				19,500	
Local Funds	31,727	12,227	3,000	16,500				19,500	
<b>Total Sources</b>	<b>\$ 500,687</b>	<b>\$ 305,687</b>	<b>\$ 30,000</b>	<b>\$ 165,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 195,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	500,687	305,687	30,000	165,000				195,000	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 500,687</b>	<b>\$ 305,687</b>	<b>\$ 30,000</b>	<b>\$ 165,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 195,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Annual support costs to be determined						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Radio Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

Blacksburg Transit has developed a maintenance and expansion program for radios which includes updating equipment to maintain functionality and remain current with advancements in technology. The proposed schedule for radio replacement is as follows:

<u>Year</u>	<u>Description</u>
FY2020	Nine portable radios, three remote speaker microphones and one multi-unit charger.
FY2021	Eight portable radios, three mobile radios, two desk tray speakers and microphones, one RoIP unit and seven power supplies.
FY2022	Four mobile radios, ten portable radios, seven remote speaker microphones, one multi-unit charger, one desk tray speaker, four power supplies, and an antenna.
FY2023	Eleven portable radios with remote speaker microphones.
FY2024	Nine portable radios, three remote speaker microphones, one multi-unit charger and a power supply.

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Maintenance of current technology infrastructure to ensure quality services to Town citizens.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 7,342	\$ 11,336	\$ 12,653	\$ 9,607	\$ 9,144	\$ 50,082	Continuing
State Funds	Continuing	Continuing	918	1,417	1,582	1,201	1,143	6,261	Continuing
Local Funds	Continuing	Continuing	918	1,417	1,582	1,201	1,143	6,261	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 9,178</b>	<b>\$ 14,170</b>	<b>\$ 15,817</b>	<b>\$ 12,009</b>	<b>\$ 11,430</b>	<b>\$ 62,604</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	9,178	14,170	15,817	12,009	11,430	62,604	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 9,178</b>	<b>\$ 14,170</b>	<b>\$ 15,817</b>	<b>\$ 12,009</b>	<b>\$ 11,430</b>	<b>\$ 62,604</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
None						0

**Capital Improvement Program**

**TITLE:** Shelter and Amenity Replacement and Expansion Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for bus stop improvements in Blacksburg. The program includes items such as replacement shelters, new concrete pads and selected sidewalk connections, bike racks and trash receptacles and replacement parts based on prioritized needs.

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	Shelters	2	Replacement
	Bus Stop Improvements: #1220 – Heather & Plymouth SB	1	Improvement
FY2021	Shelters	2	Replacement
	Bus Stop Improvements: #1210 – Tall Oaks & Fox Ridge NB	1	Improvement
FY2022	Shelters	1	Improvement
	Bus Stop Improvements: #1404 and 1405 - Giles Road at Northview and Heights Lane northbound	2	Improvement
FY2023	Shelters based on prioritized needs	2	Improvement
FY2024	Shelters based on prioritized needs	2	Replacement

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Continuing	Continuing

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	Continuing	Continuing	\$ 31,123	\$ 22,132	\$ 28,899	\$ 17,600	\$ 18,400	\$ 118,154	Continuing
State Funds	Continuing	Continuing	3,891	2,767	3,613	2,200	2,300	14,771	Continuing
Local Funds	Continuing	Continuing	3,891	2,767	3,613	2,200	2,300	14,771	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 38,905</b>	<b>\$ 27,666</b>	<b>\$ 36,125</b>	<b>\$ 22,000</b>	<b>\$ 23,000</b>	<b>\$ 147,696</b>	<b>Continuing</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	38,905	27,666	36,125	22,000	23,000	147,696	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 38,905</b>	<b>\$ 27,666</b>	<b>\$ 36,125</b>	<b>\$ 22,000</b>	<b>\$ 23,000</b>	<b>\$ 147,696</b>	<b>Continuing</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
None						\$ 0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Christiansburg Shelter and Amenity Program

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides funding for bus stop amenities in Christiansburg and includes items such as bus shelters and associated improvements, based on prioritized needs.

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2020	None Scheduled		
FY2021	Shelters with Pad & Site Improvements	2	Improvement
FY2022	Shelters with Pad & Site Improvements	2	Improvement
FY2023	Shelters with Pad & Site Improvements	2	Improvement
FY2024	Shelters based on prioritized needs	1	Improvement

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Negligible impact on operating budget.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<u>ESTIMATED START</u>	<u>ESTIMATED COMPLETION</u>
Continuing	Continuing

**Funding Sources**

<u>Sources</u>	<u>Total Required Project Funding</u>	<u>Funded through 6/30/2019</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>	<u>Future Funds Required</u>
Federal Funds	Continuing	Continuing	\$	\$ 13,636	\$ 14,172	\$ 14,400	\$ 8,000	\$ 50,208	Continuing
State Funds	Continuing	Continuing		1,704	1,772	1,800	1,000	6,276	Continuing
Local Funds	Continuing	Continuing		1,704	1,772	1,800	1,000	6,276	Continuing
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 17,044</b>	<b>\$ 17,716</b>	<b>\$ 18,000</b>	<b>\$ 10,000</b>	<b>\$ 62,760</b>	<b>Continuing</b>

**Planned Uses**

<u>Uses</u>	<u>Total Project Cost</u>	<u>Appropriated through 6/30/2019</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>	<u>Future Project Cost</u>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing		17,044	17,716	18,000	10,000	62,760	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 0</b>	<b>\$ 17,044</b>	<b>\$ 17,716</b>	<b>\$ 18,000</b>	<b>\$ 10,000</b>	<b>\$ 62,760</b>	<b>Continuing</b>

**Operating Impact**

<u>Expense Category</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>FY24</u>	<u>Total for Five Year CIP</u>
None						0

**Capital Improvement Program**

**Transit Department**

**TITLE:** Transit Facility Improvement Project

**STATUS:** Previously Included

**PROJECT DESCRIPTION:**

The existing transit facility, located at 2800 Commerce Street, is experiencing significant space constraints and certain building components are reaching the end of their useful life. The facility was constructed in 1992 and expanded in 2006. Since the 2006 expansion, Blacksburg Transit’s service has increased by nearly 50%, and the fleet and staff has increased significantly. The result is crowded and increasingly inefficient space in the Administration, Operations and Maintenance areas, with more growth anticipated. Site constraints also need to be addressed as the fleet increases and more emphasis is being placed on 60-foot buses. The project includes design and construction associated with replacement, upgrade and expansion, as warranted of the building and site.

Year	Description
FY2020	Architect/Engineering (Pre-Design/Schematic Design/Design Development/Construction Documents)
FY2021	Construction - Phase 1
FY2022	Construction - Phase 2 - Project Complete

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Cost efficiencies are expected as outdated building components are replaced.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2022

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Federal Funds	\$	\$	\$ 400,000	\$ 2,152,800	\$ 2,000,000	\$	\$	\$ 4,552,800	\$ 0
State Funds			50,000	269,100	250,000			569,100	0
Local Funds			50,000	269,100	250,000			569,100	0
<b>Total Sources</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 500,000</b>	<b>\$ 2,691,000</b>	<b>\$ 2,500,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 5,691,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$ 500,000					\$ 500,000	\$
Construction				2,500,000	2,500,000			5,000,000	
Equipment				125,000				125,000	
Contractual Services				66,000				66,000	
<b>Total Uses</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 500,000</b>	<b>\$ 2,691,000</b>	<b>\$ 2,500,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 5,691,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0

**Capital Improvement Program**

**TITLE:** Bike Share Program  
**STATUS:** New  
**PROJECT DESCRIPTION:**

This project expands the regional bike share program from 88 bikes and 12 hubs to 128 bikes and 20 hubs over the five year period with up to four hubs and up to 20 bikes in FY2020 and FY2022. Additional expansion is also anticipated through sponsorships by businesses, apartment complexes, and civic organizations.

<u>Year</u>	<u>Description</u>	<u>Number</u>
FY2020	Hubs/Bikes	4/20
FY2021	None planned	-
FY2022	Hubs/Bikes	4/20
FY2023	None planned	-
FY2024	None planned	-

As with all Transit capital projects, if grants are unavailable the project may be deferred.

**OPERATING IMPACT:** Additional operating costs will be covered by grants, program revenues and funding from regional partners.

**GOAL ADDRESSED:** Provide a multi-modal transportation system that is safe, efficient, serves a diverse population and supports land use.

**Significant Dates**

<b>ESTIMATED START</b>	<b>ESTIMATED COMPLETION</b>
Summer 2018	Summer 2022

**Funding Sources**

<b>Sources</b>	<b>Total Required Project Funding</b>	<b>Funded through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Funds Required</b>
Federal Funds	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
State Funds	254,266	200,000	26,365		27,901			54,266	
Local Funds	63,566	50,000	6,591		6,975			13,566	
<b>Total Sources</b>	<b>\$ 317,832</b>	<b>\$ 250,000</b>	<b>\$ 32,956</b>	<b>\$ 0</b>	<b>\$ 34,876</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 67,832</b>	<b>\$ 0</b>

**Planned Uses**

<b>Uses</b>	<b>Total Project Cost</b>	<b>Appropriated through 6/30/2019</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>	<b>Future Project Cost</b>
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	317,832	250,000	32,956		34,876			67,832	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 317,832</b>	<b>\$ 250,000</b>	<b>\$ 32,956</b>	<b>\$ 0</b>	<b>\$ 34,876</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 67,832</b>	<b>\$ 0</b>

**Operating Impact**

<b>Expense Category</b>	<b>FY20</b>	<b>FY21</b>	<b>FY22</b>	<b>FY23</b>	<b>FY24</b>	<b>Total for Five Year CIP</b>
N/A						0

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Major Equipment Purchase

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

The following pages list the equipment scheduled to be purchased over the next five years. Pieces fully depreciated will be purchased from the Equipment Depreciation Fund instead of the various operating funds. Each piece of equipment is inspected prior to being included on the upcoming years' lists to determine if the piece of equipment can provide additional service life. See attached pages for the Detailed Depreciation Schedule.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Equipment Replacement Fund	Continuing	Continuing	\$ 844,000	\$ 1,360,000	\$ 997,000	\$ 2,167,000	\$ 1,932,500	\$ 7,300,500	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 844,000</b>	<b>\$ 1,360,000</b>	<b>\$ 997,000</b>	<b>\$ 2,167,000</b>	<b>\$ 1,932,500</b>	<b>\$ 7,300,500</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	844,000	1,360,000	997,000	2,167,000	1,932,500	7,300,500	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 844,000</b>	<b>\$ 1,360,000</b>	<b>\$ 997,000</b>	<b>\$ 2,167,000</b>	<b>\$ 1,932,500</b>	<b>\$ 7,300,500</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
N/A						0

Deferred Replacement						
Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>CDGB Fund</b>						
HD-101	SUV, Economy 4WD	2007	10	25,000	0	2017
HD-201	Sedan, Economy Hybrid	2008	10	25,000	0	2018
	<b>Fund Total:</b>			<b>\$50,000</b>	<b>\$0</b>	
<b>General Fund</b>						
PN-101	SUV, Economy 4WD	2005	10	25,000	0	2015
EG-102	SUV, Economy 4WD	2008	8	25,000	0	2016
MP-101	SUV, Economy 4WD	2008	8	25,000	0	2016
MP-402	Truck-Pickup w/Traffic Message Board	2001	16	45,000	0	2017
IN-103	SUV, Economy 4WD	2008	10	30,000	0	2018
MP-102	SUV, Economy 4WD	2008	10	25,000	0	2018
RC-201	Sedan, Economy	2008	10	20,000	0	2018
RC-306	Van, Mini Passenger	2008	10	30,000	0	2018
TM-101	SUV, Standard 4WD	2012	7	30,000	0	2019
TE-401	Truck, Bucket	2012	8	143,000	0	2020
	<b>Fund Total:</b>			<b>\$398,000</b>	<b>\$0</b>	
<b>Water &amp; Sewer Fund</b>						
WA-703	Loader	2000	15	175,000	0	2015
WA-902	Air Compressor	2001	15	20,000	0	2016
	<b>Fund Total:</b>			<b>\$195,000</b>	<b>\$0</b>	
<b>Total Deferred Replacement</b>				<b>\$643,000</b>		

**FY Replacement 2020**

<b>Ref. #</b>	<b>Description</b>	<b>FY Acquired</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>Recommended Replacement</b>
<b>General Fund</b>						
CE-808	Gator Toolcat	2010	10	50,000	5,000	2020
MP-502	Truck-Dump, Tandem, snow	2007	13	185,000	14,230	2020
SW-401	Truck-Pickup, 1 ton 4WD util bed	2012	8	55,000	6,875	2020
	<b>Fund Total:</b>			<b>\$290,000</b>	<b>\$26,105</b>	
<b>Police Fund</b>						
PD-1201	Van - Jail	2012	8	50,000	6,250	2020
PD-1301	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
PD-1302	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
PD-1303	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
PD-1304	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
PD-1305	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
PD-1306	Sedan, Full Size-Marked, w/add ons	2013	7	55,000	7,857	2020
	<b>Fund Total:</b>			<b>\$380,000</b>	<b>\$53,393</b>	
<b>Water &amp; Sewer Fund</b>						
PS-902	Sewer Pump	2005	15	74,000	4,933	2020
SE-404A	Sewer TV System	2012	8	100,000	12,500	2020
	<b>Fund Total:</b>			<b>\$174,000</b>	<b>\$17,433</b>	
	<b>Total FY 2020 Replacement</b>			<b>\$844,000</b>	<b>\$96,931</b>	

**FY Replacement 2021**

<b>Ref. #</b>	<b>Description</b>	<b>FY Acquired</b>	<b>Life</b>	<b>Replacement Cost</b>	<b>Depreciation</b>	<b>Recommended Replacement</b>
<b>Fire Fund</b>						
FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	62,000	4,133	2021
FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	60,000	7,500	2021
		<b>Fund Total:</b>		<b>\$122,000</b>	<b>\$11,633</b>	
<b>General Fund</b>						
CC-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	55,000	6,875	2021
CE-401	Truck-Pickup, 1 ton 4WD	2013	8	42,000	5,250	2021
HT-405	Truck-F550 Flatbed	2009	12	50,000	4,167	2021
PW-03	Mowers (2)	2014	7	25,000	3,571	2021
RC-302	Van, 15-Passenger	2013	8	30,000	3,750	2021
SD-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	55,000	6,875	2021
		<b>Fund Total:</b>		<b>\$257,000</b>	<b>\$30,488</b>	
<b>Police Fund</b>						
PD-1307	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1308	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1309	SUV, Standard, K9, w/ add ons	2013	8	58,000	7,250	2021
PD-1310	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
PD-1311	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
PD-1312	Sedan-Unmarked	2013	8	35,000	4,375	2021
PD-1313	SUV, Standard-Marked w/add ons	2013	8	55,000	6,875	2021
PD-1314	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1315	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1316	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1317	Sedan, Full Size-Marked, w/add ons	2014	7	55,000	7,857	2021
PD-1319	SUV, Standard-Marked w/add ons	2013	8	55,000	6,875	2021
		<b>Fund Total:</b>		<b>\$609,000</b>	<b>\$80,053</b>	
<b>Rescue Fund</b>						
RS-M53	Ambulance	2013	8	268,000	33,500	2021
		<b>Fund Total:</b>		<b>\$268,000</b>	<b>\$33,500</b>	
<b>Waste Management Fund</b>						
WM-905	Leaf Machine	2009	12	37,000	3,083	2021
WM-906	Leaf Machine	2009	12	37,000	3,083	2021
		<b>Fund Total:</b>		<b>\$74,000</b>	<b>\$6,166</b>	
<b>Water &amp; Sewer Fund</b>						
UT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2013	8	30,000	3,750	2021
		<b>Fund Total:</b>		<b>\$30,000</b>	<b>\$3,750</b>	
				<b>\$1,360,000</b>	<b>\$165,590</b>	

**FY Replacement 2022**

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>General Fund</b>						
AS-903	Asphalt Patching Equipment	2014	8	80,000	10,000	2022
CE-701	Backhoe	2012	10	125,000	12,500	2022
GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
GC-811	Mower-Greens	2015	7	35,000	5,000	2022
HT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
HT-801	Bobcat Toolcat	2010	12	50,000	4,167	2022
HT-802	ATV	2014	8	15,000	1,875	2022
MP-401	Truck-Pickup, F550 4WD, dump bed	2014	8	55,000	6,875	2022
PK-402	Truck-Pickup, 1 ton 4WD	2014	8	42,000	5,250	2022
PW-04	Mowers (2)	2015	7	25,000	3,571	2022
PW-201	Sedan, Economy	2014	8	25,000	3,125	2022
SW-701	Backhoe	2007	15	125,000	8,333	2022
		<b>Fund Total:</b>		<b>\$632,000</b>	<b>\$68,017</b>	
<b>Police Fund</b>						
PD-1320	Motorcycle-Marked	2014	8	35,000	4,375	2022
PD-1321	Motorcycle-Marked	2014	8	35,000	4,375	2022
PD-1401	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
PD-1402	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
PD-1403	SUV, Standard-Marked w/add ons	2014	8	55,000	6,875	2022
PD-1408	Sedan, Full Size-Marked, w/add ons	2014	8	55,000	6,875	2022
		<b>Fund Total:</b>		<b>\$250,000</b>	<b>\$31,250</b>	
<b>Water &amp; Sewer Fund</b>						
SE-401	Truck-Pickup, 1 ton 4WD util bed	2014	8	55,000	6,875	2022
UB-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
UT-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
		<b>Fund Total:</b>		<b>\$115,000</b>	<b>\$14,375</b>	
<b>Total FY 2022 Replacement</b>				<b>\$997,000</b>	<b>\$113,642</b>	

**FY Replacement 2023**

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>Fire Fund</b>						
FD-B13	Truck-Brush, Heavy Duty	2015	8	100,000	12,500	2023
		<b>Fund Total:</b>		<b>\$100,000</b>	<b>\$12,500</b>	
<b>General Fund</b>						
AS-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
BD-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2015	8	30,000	3,750	2023
BD-402	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
BD-601	Scissor Lift with Trailer	2013	10	20,000	2,000	2023
CH-101	SUV, Economy 4WD	2008	15	25,000	1,667	2023
GC-601	Sand Trap Rake	2015	8	30,000	3,750	2023
HT-501	Truck- Dump, Water	2013	10	110,000	11,000	2023
HT-702	Loader, Skid Steer	2008	15	45,000	3,000	2023
PK-810	Mowing Tractor, slope w/field attach	2016	7	39,000	5,571	2023
PW-05	Mowers (2)	2016	7	25,000	3,571	2023
SW-601	Saw, Walk Behind	2015	8	27,000	3,375	2023
		<b>Fund Total:</b>		<b>\$466,000</b>	<b>\$52,059</b>	
<b>Police Fund</b>						
PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
PD-1404	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1405	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1406	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1407	Sedan, Full Size-Marked, w/add ons	2015	8	50,000	6,250	2023
PD-1409	SUV, Standard 4WD, unmarked w/add	2015	8	35,000	4,375	2023
		<b>Fund Total:</b>		<b>\$286,000</b>	<b>\$32,775</b>	
<b>Rescue Fund</b>						
RS-C53	Tahoe 4WD	2015	8	60,000	7,500	2023
RS-M56	Ambulance-Type II	2015	8	268,000	33,500	2023
RS-R51	Tahoe 4WD	2015	8	60,000	7,500	2023
		<b>Fund Total:</b>		<b>\$388,000</b>	<b>\$48,500</b>	
<b>Waste Management Fund</b>						
WM-802	Sweeper-Sidewalk	2015	8	36,000	4,500	2023
		<b>Fund Total:</b>		<b>\$36,000</b>	<b>\$4,500</b>	
<b>Water &amp; Sewer Fund</b>						
PS-401	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
SE-502	Sewer Truck-Combo Washer/Vax	2013	10	400,000	40,000	2023
SE-703	Loader, Heavy Track	2013	10	300,000	30,000	2023
WA-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
WA-706	Excavator, Mini with Trailer	2013	10	76,000	7,600	2023
		<b>Fund Total:</b>		<b>\$891,000</b>	<b>\$91,975</b>	
	<b>Total FY 2023 Replacement</b>			<b>\$2,167,000</b>	<b>\$242,309</b>	

**FY Replacement 2024**

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
<b>Fire Fund</b>						
FD-14	Box Truck -Special Purpose	2014	10	90,000	9,000	2024
	<b>Fund Total:</b>			<b>\$90,000</b>	<b>\$9,000</b>	
<b>General Fund</b>						
AS-606	Sweeper-Street	2016	8	300,000	37,500	2024
AS-703	Loader	2012	12	175,000	14,583	2024
CC-701	Excavator, Mini 50 w/trailer	2014	10	86,000	8,600	2024
CC-901	Trailer, 28' Deckover Tilt	2014	10	20,000	2,000	2024
EG-101	SUV, Economy 4WD	2014	10	25,000	2,500	2024
EO-502	Truck, Service Crane	2014	10	180,000	18,000	2024
GC-02	Blowers, Debris (2)	2016	8	15,000	1,875	2024
GC-804	Utility Cart w/ bed lift	2016	8	15,000	1,875	2024
GC-806	Mower-Fairway, 4WD	2012	12	50,000	4,167	2024
GR-801	Tractor, Side Mower	2014	10	150,000	15,000	2024
MP-503	Truck-Dump, Tandem, snow	2015	9	185,000	20,556	2024
PI-301	Van, Economy Cargo	2014	10	20,000	2,000	2024
PW-06	Mowers (3)	2017	7	37,500	5,357	2024
ST-101	SUV, Economy 4WD	2014	10	25,000	2,500	2024
	<b>Fund Total:</b>			<b>\$1,283,500</b>	<b>\$136,513</b>	
<b>Police Fund</b>						
PD-1601	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1602	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1603	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1604	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1605	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1606	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
PD-1607	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
PD-1608	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
	<b>Fund Total:</b>			<b>\$388,000</b>	<b>\$48,500</b>	
<b>Waste Management Fund</b>						
WM-902	Leaf Machine	2016	8	37,000	4,625	2024
WM-903	Leaf Machine	2016	8	37,000	4,625	2024
	<b>Fund Total:</b>			<b>\$74,000</b>	<b>\$9,250</b>	
<b>Water &amp; Sewer Fund</b>						
SE-901	Light Tower	2016	8	22,000	2,750	2024
SE-907	Sewer Washer w/Trailer	2017	7	45,000	6,429	2024
UB-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2016	8	30,000	3,750	2024
	<b>Fund Total:</b>			<b>\$97,000</b>	<b>\$12,929</b>	
<b>Total FY 2024 Replacement</b>				<b>\$1,932,500</b>	<b>\$216,192</b>	

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Major Building System Replacement

**STATUS:** Continuing

**PROJECT DESCRIPTION:**

This project provides for the systematic replacement of major building systems equipment at the end of their useful life. Funds will be set aside each year based on the projected replacement cost and useful life just like we do for vehicles and equipment. The building systems listed on the attached schedule are only those systems due for replacement in the next five years. The implementation of this building system replacement program will eliminate the need to use operational funds to replace system equipment which fail unexpectedly during the fiscal year.

**OPERATING IMPACT:** None

**GOAL ADDRESSED:** Ensure a sustainable community to provide a high quality of life for current and future generations.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Building System Replacement Fund	Continuing	Continuing	\$ 84,050	\$ 33,800	\$ 23,580	\$ 43,500	\$ 60,400	\$ 245,330	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 84,050</b>	<b>\$ 33,800</b>	<b>\$ 23,580</b>	<b>\$ 43,500</b>	<b>\$ 60,400</b>	<b>\$ 245,330</b>	<b>Continuing</b>

**Planned Uses**

Uses	Total Project Cost	Expended through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	84,050	33,800	23,580	43,500	60,400	245,330	Continuing
Contractual Services								0	
<b>Total Uses</b>	<b>Continuing</b>	<b>Continuing</b>	<b>\$ 84,050</b>	<b>\$ 33,800</b>	<b>\$ 23,580</b>	<b>\$ 43,500</b>	<b>\$ 60,400</b>	<b>\$ 245,330</b>	<b>Continuing</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Already in operating budget						0

**Major Building System 5 yr Projected Replacements for FY 2019/20 to 2023/24**

**FY to be Replaced: 2020**

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Aquatic Center	Heat/cool roof top package unit - Lobby area	2005	15	\$11,000	\$733
Aquatic Center	Pool Pumps - Heat - A	1992	28	\$3,500	\$125
Aquatic Center	Pool Pumps - Heat - B	1992	28	\$3,500	\$125
Old Town Hall	1 forced air gas furnace	2005	15	\$6,600	\$440
Old Town Hall	1 split a/c system - heat pump	2005	15	\$6,600	\$440
Police Dept. Building	a/c system w/electric furnace - evidence	2000	20	\$4,000	\$200
Police Comm. Bldg. - North Main	2 A/C units w/electric heat	2000	20	\$13,000	\$650
Price's Fork Fire House	2 split a/c systems	2005	15	\$17,600	\$1,173
Price's Fork Fire House	2 forced air furnances	1991	29	\$8,800	\$303
PW Admin Building	1 forced air gas horizontal furnace - training	2004	16	\$4,950	\$309
PW Admin Building	1 split a/c system - training	2004	16	\$3,300	\$206
PW Town Garage	2 electric heating units - office ceiling	2000	20	\$1,200	\$60
<b>FISCAL YEAR TOTAL:</b>				<b>\$84,050</b>	<b>\$4,766</b>

**FY to be Replaced: 2021**

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Price's Fork Rd. fire House	2 infrared tube heaters	1991	30	\$8,800	\$293
PW - Town Garage	2 post heavy duty lift - 18000	2006	15	\$20,000	\$1,333
Blacksburg Motor Company	1 Subsurface Ventilation System	2011	10	\$5,000	\$500
<b>FISCAL YEAR TOTAL:</b>				<b>\$33,800</b>	<b>\$2,127</b>

**FY to be Replaced: 2022**

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Aquatic Center	Building Pump - Heat - A	1992	30	\$5,740	\$191
Aquatic Center	Building Pump - Heat - B	1992	30	\$5,740	\$191
Municipal Building	Domestic water heater - 1st floor	2007	15	\$12,100	\$807
<b>FISCAL YEAR TOTAL:</b>				<b>\$23,580</b>	<b>\$1,189</b>

**FY to be Replaced: 2023**

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Police Department Building	Roof Top cooling & heating Unit - Chief	2003	20	\$15,000	\$750
Police Department Building	Roof Top cooling & heating Unit - Training Room	2003	20	\$10,000	\$500
Blacksburg Motor Company	5 Ductless Split A/C Units	2008	15	\$12,500	\$833
Kipp's Restroom	3-Ceiling mounted unit heaters	2013	10	\$6,000	\$600
<b>FISCAL YEAR TOTAL:</b>				<b>\$43,500</b>	<b>\$2,683</b>

**Major Building System 5 yr Projected Replacements for FY 2019/20 to 2023/24**

FY to be Replaced: 2024

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Bennett House	1 ea forced air electric furnace w/ heat pump	2004	20	\$3,000	\$150
Bennett House	1 ea forced air gas furnace w/ A/C	2004	20	\$3,000	\$150
Bennett House	2 ea a/c split system	2004	20	\$3,000	\$150
Price House	2 a/c split ductless heat pumps	2009	15	\$20,000	\$1,333
Thomas Conner House	1 gas fired boiler	1994	30	\$5,500	\$183
PW - Town Garage	4 gas fired tube heaters	2004	20	\$9,900	\$495
Odd Fellows Hall and Annex	1 Daikin heat pump with 2 indoor fan coils	2009	15	\$10,000	\$667
Odd Fellows Hall and Annex	1 split system heat pump with electric heat	2009	15	\$6,000	\$400
<b>FISCAL YEAR TOTAL:</b>				<b>\$60,400</b>	<b>\$3,528</b>
<b>Grand Total</b>				<b>\$245,330</b>	<b>\$14,293</b>

**Capital Improvement Program**

**Public Works Department**

**TITLE:** Brush, Leaf and Debris Management Planning

**STATUS:** In Progress

**PROJECT DESCRIPTION:**

This project provides funding to develop a debris management plan to evaluate options for alternative debris management sites due to the loss of the Town's current disposal site. This project will also support the department emergency debris management program.

**OPERATING IMPACT:** None.

**GOAL ADDRESSED:** Provide safe and reliable utilities meeting the demand needs in a customer service-oriented manner.

**Significant Dates**

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

**Funding Sources**

Sources	Total Required Project Funding	Funded through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Funds Required
Solid Waste Fund	\$ 75,000	\$ 25,000	\$ 50,000	\$	\$	\$	\$	\$ 50,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
<b>Total Sources</b>	<b>\$ 75,000</b>	<b>\$ 25,000</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Planned Uses**

Uses	Total Project Cost	Appropriated through 6/30/2019	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 25,000	\$ 25,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
Construction	50,000		50,000					50,000	
Equipment								0	
Contractual Services								0	
<b>Total Uses</b>	<b>\$ 75,000</b>	<b>\$ 25,000</b>	<b>\$ 50,000</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 50,000</b>	<b>\$ 0</b>

**Operating Impact**

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
None						0



TOWN OF  
**Blacksburg**  
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