



Town of Blacksburg, Virginia ADOPTED CAPITAL IMPROVEMENT PROGRAM

Fiscal Years 2020/2021-2024/2025



Town of Blacksburg

FY 2020/2021-2024/2025

Adopted Capital Improvement Program

Town Council

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

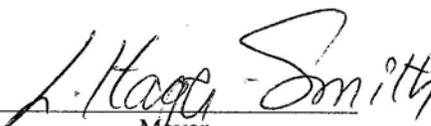
Town Administrative Staff

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 – Teresa A. Harless
Director of Public Works - S. Kelly Mattingly
Rescue Chief – David English
Director of Technology - Steven B. Jones
Transit Director – Thomas D. Fox

RESOLUTION 1-D-20

A RESOLUTION ADOPTING THE CAPITAL IMPROVEMENT
PROGRAM FOR FY2020/2021 THROUGH FY2024/2025

BE IT RESOLVED by the Council of the Town of Blacksburg that this Council adopts the Capital Improvement Program for Fiscal Years 2020/2021 through 2024/2025, a copy of which is on file in the Office of the Town Clerk.



Mayor

ATTEST:



Town Clerk

Date of Adoption: January 28, 2020

December 10, 2019

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 2021-2025 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. The CIP supports a quality of life that encourages people to want to live, visit, and do business in Blacksburg.

Over the course of the last several years, the Town has begun planning and construction on over \$100 million in capital projects. These projects include a new police station, the Progress Street parking garage, the Multi-Modal Transit Facility, as well as several bicycle and pedestrian improvements, park and streetscape projects, and infrastructure and building maintenance projects. Due to increasing demands on staff and financial resources required to complete these already approved projects, we are recommending the addition of fewer new CIP projects over the next couple of years. This strategy should allow previously approved projects to be completed in a timely manner before new projects are initiated.

Community growth, infrastructure maintenance, and funding availability were still considered when developing the Recommended CIP to ensure future capital 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.

Significant Projects Funded in the FY 2021-2025 CIP

Downtown Redevelopment Projects:

- Midtown Parking Garage
- Progress Street Parking Garage
- Draper Road Streetscape Improvement
- Downtown Façade Grant Program

Parks and Recreation Projects:

- Community Center Renovations
- Meadowbrook Drive Greenway Extension
- Glade Road and Meadowbrook Drive Parking Lot
- Brush Mountain Trail System
- Huckleberry Trail Bridge at Sheffield Drive and Prices Fork Road
- Mountain Bike Park Enhancements

Transportation Projects:

- Town-Wide Transportation Network Master Plan
- Clay Street Sidewalk and Roadway Improvements
- Bicycle Facility Implementation Plan
- Midtown Cycle Track

Utility Projects:

- South Main St./Cedar Run Sewershed Upgrade
- Harding Ave. Sewershed Upgrade
- Webb Street Drainage Improvement Project
- Harding Avenue Stormwater and Pedestrian Project

Midtown Project

The Town has worked with Montgomery County and their chosen developer for over a decade to develop a concept for the Midtown Project located on the site of the Old Blacksburg Middle School. The Town approved a rezoning of the property and a development agreement with the landowners in 2019. The development agreement details a partnership between the Town and property owner to develop a mixed-use project consisting of hotel, office, retail, restaurant, and housing uses, as well as a publicly funded police station and 340 space parking garage. The garage supports the parking needs of the police department and a portion of the parking needed for the mixed-use development.

Funding for the construction of the parking garage is included in the Recommended CIP, while the police station was funded in a prior year CIP. The estimated cost to construct the garage is \$9.1 million. Debt service for the garage will be funded by new revenue generated by the project and a special service district real estate tax established specifically for the Midtown project.

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.

The Water and Sewer Fund includes projects to upgrade sewer capacity in two main sewersheds. These capital improvement projects are located in the South Main St./Cedar Run and Harding Avenue sewersheds which include the South Main Street commercial corridor and the old Blacksburg High School property, respectively. The preliminary estimate to complete these projects is \$5.6 million. Funding for these projects will be financed using general obligation bonds, which will have a resulting impact on sewer rates in 2023 based on the current schedule. The rate is projected to increase approximately 17% or add an additional \$1.00 to the monthly rate.

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 expected growth at Virginia Tech and in the community.

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 Operating 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.

Summary

In conclusion, we are pleased to present to you a *Recommended FY 2021-2025 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.

2019

- December 10th Present CIP to Town Council
- December 10th Town Council Schedules Public Hearing on CIP for January 14, 2020
- December 17th Town Council Work Session
- December 17th Planning Commission Review of the CIP

2020

January 7th	Town Council Work Session, if necessary
January 14th	Town Council Public Hearing on Recommended CIP
January 28th	Town Council Consideration of Resolution Approving CIP

I would like to express my appreciation to each Department and their staff for working together to develop and prepare the *Recommended FY 2021-2025 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

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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
Drew Smith, 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 2021-2025 Capital Improvement Program

DATE: August 21, 2019

Once again, it is time for the Capital Improvement Program (CIP) process. We have the same PDF project detail form used last year with separate forms for continuing and non-continuing projects. It is in PDF format with drop down menus and protected formulas to help the pages stay consistent. This will hopefully prevent a lot of editing of dates, status and department names. Please submit all projects, old and new, on this form. A blank template for each department to use is provided. The forms are on the "O drive" and plenty tips, reminders, and instructions on using the forms are provided below. Also, please call with any questions.

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 2020/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 13, 2019.

Calendar

September 13 th	Status of current CIP projects due.
September 20 th	Deadline for submission of CIP project proposals.
September 24 th – October 2 nd	Meeting with individual departments to discuss CIP projects.
October 16 th	Town Manager Finalizes <i>Recommended CIP</i> .
November 22 nd	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 PDF form. A template is provided on the "O drive." **No projects are automatically carried over.** A new form is needed for each recommended project.
- 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 FY2021\FY20 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.
- 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 kept of potential future projects is saved at O:\CIP FY2021. It is not all inclusive.
- 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.
- Include the operating impact of capital projects so they can be considered during the operating budget process. Use the form on the "O drive" even if no operating impact and note that in the explanation part on the form. Most projects should have an operating impact.

Forms to be Submitted:

The FY2021-2025 forms for use in preparing CIP projects are available on the “O drive” at O:\CIP FY2021\Forms. There is a new PDF form this year that combines the Estimated Detail Sheet and the Estimated New Annual Operating Expenses. Please use this for projects this year instead of the two Word documents used in the past.

The two 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 form 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 FY2021\FY20Adopted Projects and copy and paste as appropriate.
- **Cost Estimate Detail/Estimated New Annual Operating Costs Sheet:** These forms have been combined into a single fillable PDF to ease completion of the form. It includes an inflation factor, source of estimate and possible funding options or funding alternatives. Other supporting information can be submitted to justify the project cost estimate but is not required. Also included on the PDF form is the Estimated New Annual Operating Costs. Include the impact of a new project relative to additional positions, related personnel costs, and operating costs excluding the cost of the capital project/equipment. This portion **needs to be completed** even if there are no new operating costs associated with the project or the project will reduce operating costs. If there is no operating impact, note that in the explanation part on the form with a reason. 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 FY2021\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 **Friday, September 20, 2019.**

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 Steve Ross, Deputy Town Manager or Susan Kaiser, Director of Finance.

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, 2020/2021-2024/2025, 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 and 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	
F. Inflation (1 + 2 x .025) (per year)	
Total Project Estimate	

Source of Estimate:

Funding Options/Alternatives:

Estimated New Annual Operating Expenses (if any):

Additional Positions (F/T)	
Additional Positions (P/T)	
Capital Equipment	
Operating Costs Excluding Capital Equipment	
Total Costs	0
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

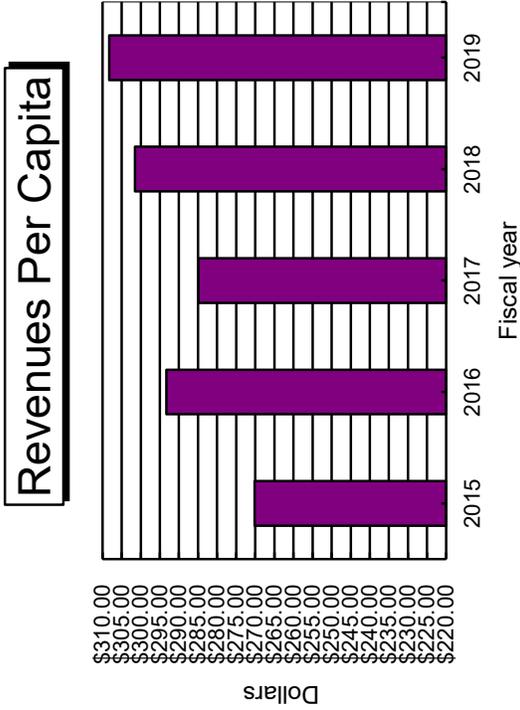
Revenues Per Capita

Trend to Watch For:

Decreasing net operating revenues per capita (constant dollars)

Formula:

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



Fiscal year:	2015	2016	2017	2018	2019
Net operating revenues and transfers	\$28,176,359	\$30,685,153	\$30,563,204	\$32,753,712	\$33,947,309
Consumer price index	237.1	236.6	238.2	243.8	246.5
Net operating revenues & transfers (constant dollars)	\$11,883,745	\$12,969,430	\$12,833,217	\$13,434,664	\$13,771,728
Current population	43,985	44,215	45,038	44,563	44,678
Net operating revenues & transfers per capita (constant dollars)	\$270.18	\$293.33	\$284.94	\$301.48	\$308.24

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 2015 thru FY 2019 shows the recovery in the local economy especially in the economic sensitive areas such as meals taxes and sales taxes and the stable state funding. In FY 2016, the per capita increase is mainly due to the full year impact of the 2015 reassessment and the increase in the real estate tax rate from \$0.22 to \$0.25 and the growth in meals tax due to new restaurants and an one-time \$395,795 historic tax credit revenue. In FY 2018, the per capita increase is due to the real estate tax rate increase from \$0.25 to \$0.26 for half the year and a full year impact of two new hotels. In FY 2019, the per capita increase is due to a half year impact of the 2019 reassessment and strong sales, meals and hotel tax revenues.

INDICATOR 2

Sales Tax Revenues Per Capita

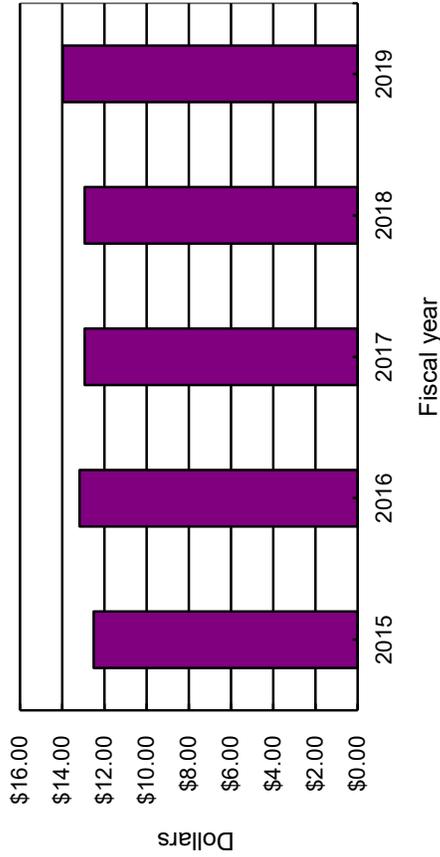
Trend to Watch For:

Decreasing net sales tax revenues per capita (constant dollars)

Formula:

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

Sales Tax Revenues Per Capita



	2015	2016	2017	2018	2019
Net Sales Tax Revenues	\$1,304,682	\$1,379,313	\$1,388,282	\$1,405,973	\$1,538,871
Consumer price index	237.1	236.6	238.2	243.8	246.5
Net Sales Tax Revenues (constant dollars)	\$550,267	\$582,982	\$582,927	\$576,691	\$624,288
Current population	43,985	44,215	45,038	44,563	44,678
Net Sales Tax Revenues per Capita (constant dollars)	\$12.51	\$13.19	\$12.94	\$12.94	\$13.97

Analysis:

Sales Tax is a major revenue category for the Town and is an indicator of the strength of the regional economy. The FY 2016 increase is due to the growth in the sales tax base and a slight increase in the school age population. The decrease in FY 2017 is due to a slight decrease in the school age population. The increase in FY 2019 was state-wide and may be due to the Wayfair court case.

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, 22.42% in FY 2018 and 22.99% in FY 2019. In FY 2014 the state changed the definition of school age population. In FY 2020, the school age population is 22.71%.

INDICATOR 3

Meals Tax Revenues Per Capita

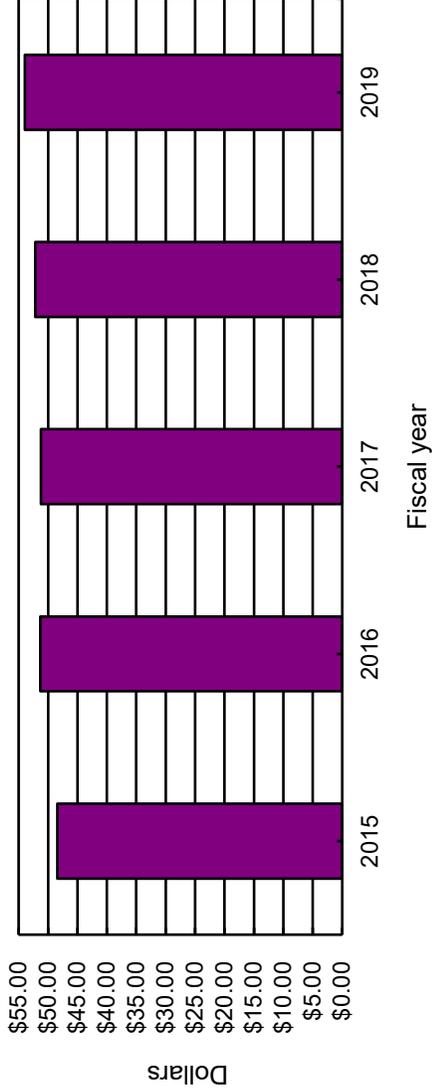
Trend to Watch For:

Decreasing meals tax revenues per capita (constant dollars)

Formula:

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

Meals Tax Revenues Per Capita



	2015	2016	2017	2018	2019
Fiscal year:					
Meals Tax Revenues	\$5,048,802	\$5,370,640	\$5,491,833	\$5,667,284	\$5,940,803
Consumer price index	237.1	236.6	238.2	243.8	246.5
Meals Tax Revenues (constant dollars)	\$2,129,398	\$2,269,962	\$2,305,972	\$2,324,563	\$2,410,062
Current population	43,985	44,215	45,038	44,563	44,678
Meals Tax Revenues (constant dollars)	\$48.41	\$51.34	\$51.20	\$52.16	\$53.94

Analysis:

The increases in FY 2016 through FY 2019 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

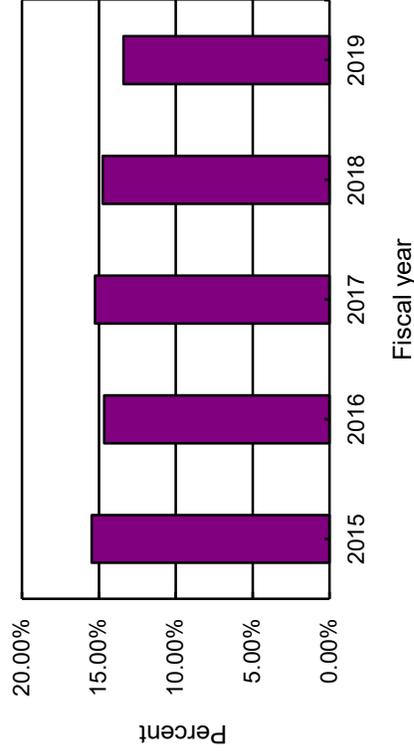
Intergovernmental Revenues

Trend to Watch For:

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

Formula:

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



	2015	2016	2017	2018	2019
Fiscal year:					
Net Intergovernmental Revenues	\$4,355,564	\$4,493,518	\$4,661,068	\$4,833,556	\$4,547,672
Gross Operating Revenues	\$28,176,359	\$30,685,153	\$30,563,204	\$32,753,712	\$33,954,590
Intergovernmental Revenues as a Percent of Gross Operating Revenues	15.46%	14.64%	15.25%	14.76%	13.39%

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 included a VDOT Paving grant and beginning in FY 2019, wireless E911 revenues are being received by the regional E911 center.

INDICATOR 5

Property Tax Revenues

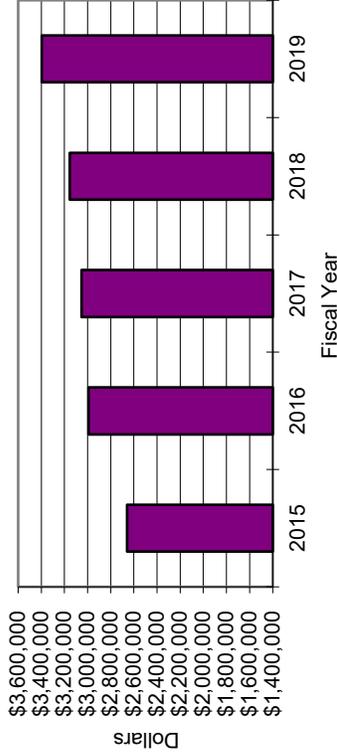
Property Tax Revenues

Trend to Watch For:

Decline in property tax revenues (constant dollars)

Formula:

Property Tax Revenues
(constant dollars)



Fiscal year:	2015	2016	2017	2018	2019
Property Tax Revenues	\$6,301,948	\$7,079,548	\$7,272,645	\$7,690,970	\$8,373,644
Consumer Price Index	237.1	236.6	238.2	243.8	246.5
CPI Converted to Decimal	2.371	2.366	2.382	2.438	2.465
Net Property Tax Revenues (constant dollars)	\$2,657,928	\$2,992,252	\$3,053,719	\$3,154,623	\$3,397,016

Analysis:

Trends indicate that real estate tax revenues were generally stronger than inflation. The reassessment is done every four years. The increase in 2016 in gross property tax revenue is due to the full year 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 a half year impact of a tax rate increase from \$0.25 to \$0.26. The increase in 2019 is due to a full year impact of the tax rate increase and a half year impact of the 2019 reassessment.

INDICATOR 6

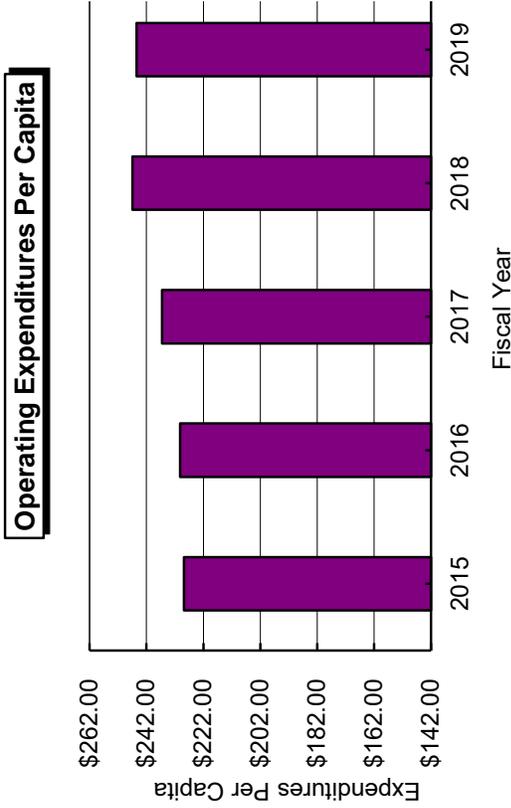
Operating Expenditures Per Capita

Trend to Watch For:

Increasing net operating expenditures per capita (constant dollars)

Formula:

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



Fiscal year:	2015	2016	2017	2018	2019
Net operating expenditures	\$23,865,160	\$24,080,177	\$25,374,171	\$26,824,480	\$27,032,101
Consumer price index	237.1	236.6	238.2	243.8	246.5
Net operating expenditures (constant dollars)	\$10,065,441	\$10,177,762	\$10,654,388	\$11,002,658	\$10,966,370
Estimated population	43,985	44,215	45,038	44,563	44,678
Net operating expenditures per capita (constant dollars)	\$228.84	\$230.19	\$236.56	\$246.90	\$245.45

Analysis:

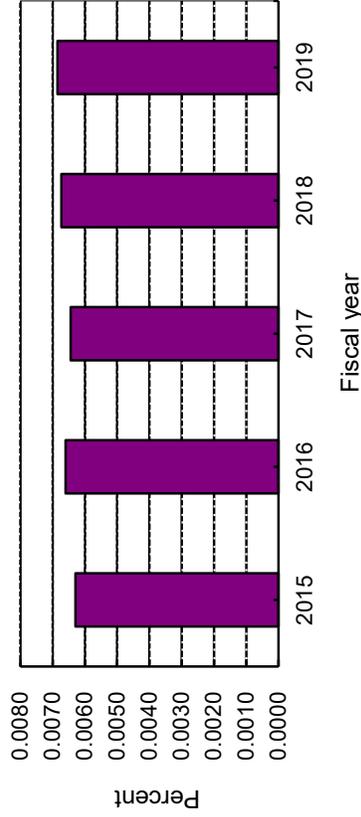
Per Capita Expenditures per 2018 Comparative Cost Report:
(No Education or Welfare)

Montgomery County	\$379		
Roanoke County	\$1,083	Blacksburg	
Roanoke City	\$1,416	Christiansburg	
Radford City	\$1,078	Wytheville	
		Leesburg	
		Herndon	
		Vinton	
		Pulaski	
			\$719
			\$1,261
			\$2,209
			\$1,157
			\$1,522
			\$950
			\$964

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:

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

	2015	2016	2017	2018	2019
Fiscal year:					
Number of full-time municipal employees	277	292	290	300	306
Current population	43,985	44,215	45,038	44,563	44,678
Number of full-time municipal employees per capita	0.0063	0.0066	0.0064	0.0067	0.0068

Analysis:

This indicator compares the number of full-time employees to the population. The number of employees has increased each year over the five years to 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 the Stormwater Fund and four in the General Fund. 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. The increase in 2019 is due to the addition of three full-time bus operators in Transit and three positions in the General Fund to more effectively cover service areas such as public safety and technology.

INDICATOR 8

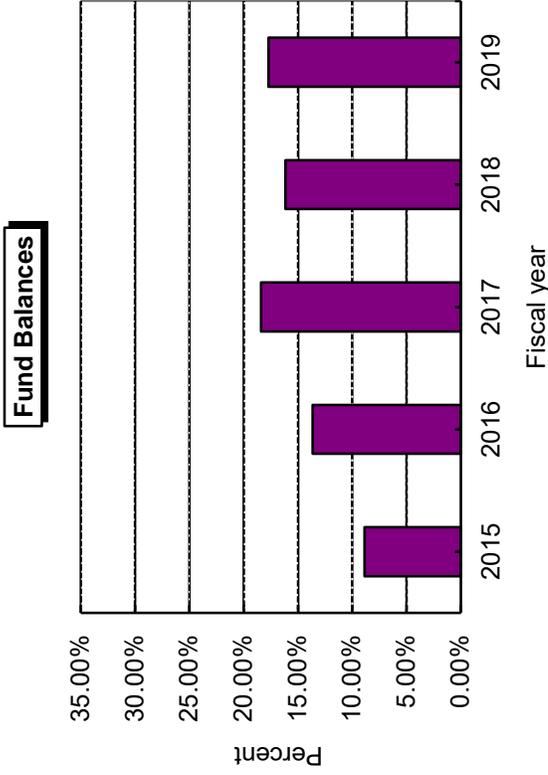
Fund Balances

Trend to Watch For:

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

Formula:

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



Fiscal year:	2015	2016	2017	2018	2019
Unreserved General Fund Balance	\$2,314,742	\$3,634,618	\$5,123,082	\$4,758,906	\$5,261,085
Net Operating Expenditures with debt svc	\$26,094,470	\$26,624,383	\$27,830,928	\$29,470,884	\$29,693,984
Unreserved General Fund Balance as a Percentage of Net Operating Expenditures	8.87%	13.65%	18.41%	16.15%	17.72%

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

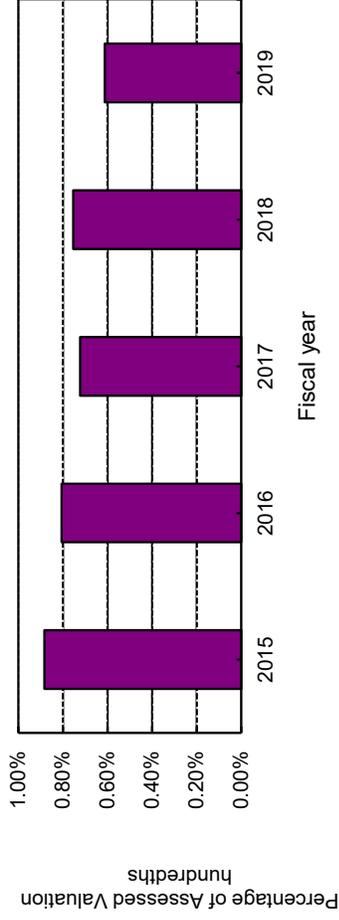
Trend to Watch For:

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



	2015	2016	2017	2018	2019
Fiscal year:					
Assessed Valuation	\$2,779,569,200	\$2,862,199,700	\$2,945,059,500	\$3,016,013,200	\$3,417,977,000
Net Direct Long-term General Fund Debt	\$24,557,786	\$23,061,002	\$21,301,049	\$22,728,650	\$20,933,558
Net Direct Long-term Debt as a Percentage of Assessed Valuation	0.88%	0.81%	0.72%	0.75%	0.61%

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. The 2019 increase in assessed value is due to the 2019 reassessment.

INDICATOR 10

Capital Outlay

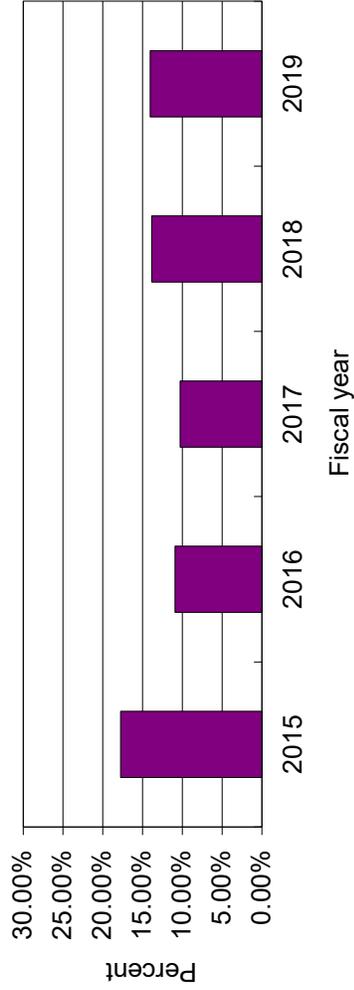
Trend to Watch For:

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:	2015	2016	2017	2018	2019
Total capital outlay	\$4,236,060	\$2,628,079	\$2,605,751	\$3,708,734	\$3,797,305
Operating expenditures and transfers	\$23,865,160	\$24,080,177	\$25,374,171	\$26,824,480	\$27,032,101
Capital outlay as a percentage of expenditures	17.75%	10.91%	10.27%	13.83%	14.05%

Analysis:

Yearly fluctuations in this indicator are the result of the timing and magnitude of different capital projects. The higher amount 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
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
2020	\$7.20	\$2.94	\$6.02	\$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 thru FY 2020 water rates are due to a large increase from the Water Authority due to significant capital improvements.

INDICATOR 12

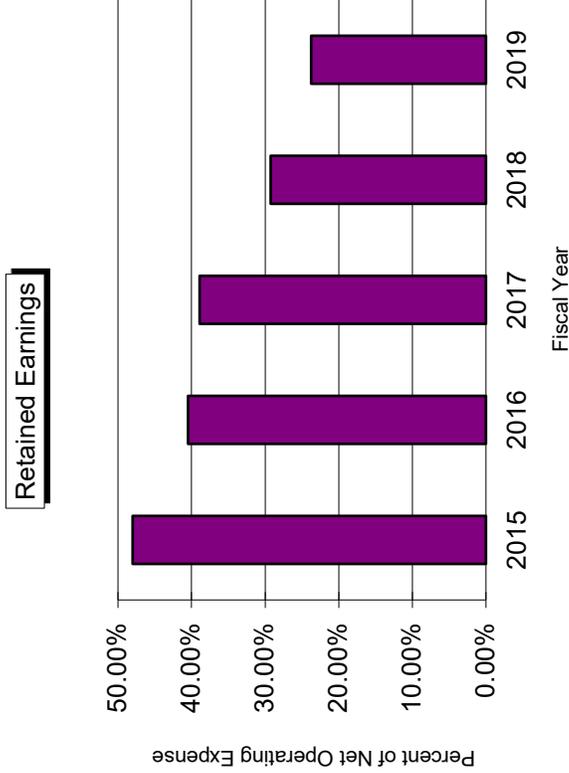
Retained Earnings - Water and Sewer Fund

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:	2015	2016	2017	2018	2019
Unreserved Water & Sewer Fund Retained Earnings	\$3,790,119	\$3,488,913	\$3,370,807	\$2,851,584	\$2,540,935
Net Operating Expenses	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121	\$10,698,686
Unreserved Water & Sewer Retained Earnings as a Percentage of Net Operating Expenses	48.01%	40.48%	38.91%	29.25%	23.75%

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. Future large projects will be funded with General Obligation Bonds.

INDICATOR 13

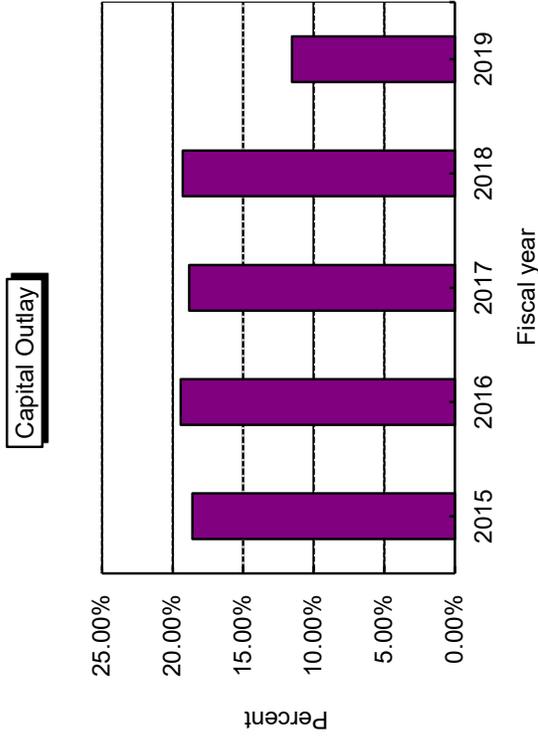
Capital Outlay - Water and Sewer Fund

Trend to Watch For:

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

Formula:

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



Fiscal year:	2015	2016	2017	2018	2019
Total capital outlay	\$1,468,504	\$1,674,638	\$1,632,033	\$1,880,088	\$1,233,992
Operating expenses and transfers	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121	\$10,698,686
Capital outlay as a percentage of expenses and transfers	18.60%	19.43%	18.84%	19.28%	11.53%

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

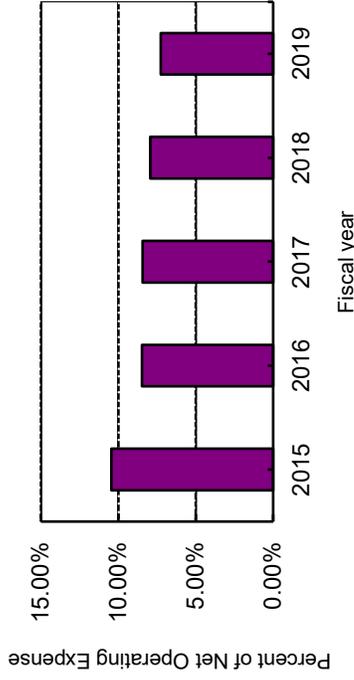
Debt Service as a Percent of Net Operating Expense

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:	2015	2016	2017	2018	2019
Debt Service	\$824,949	\$731,091	\$730,662	\$775,031	\$777,081
Net Operating Expenses	\$7,894,474	\$8,618,963	\$8,663,533	\$9,749,121	\$10,698,686
Debt Service as a Percentage of Net Operating Expenses	10.45%	8.48%	8.43%	7.95%	7.26%

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

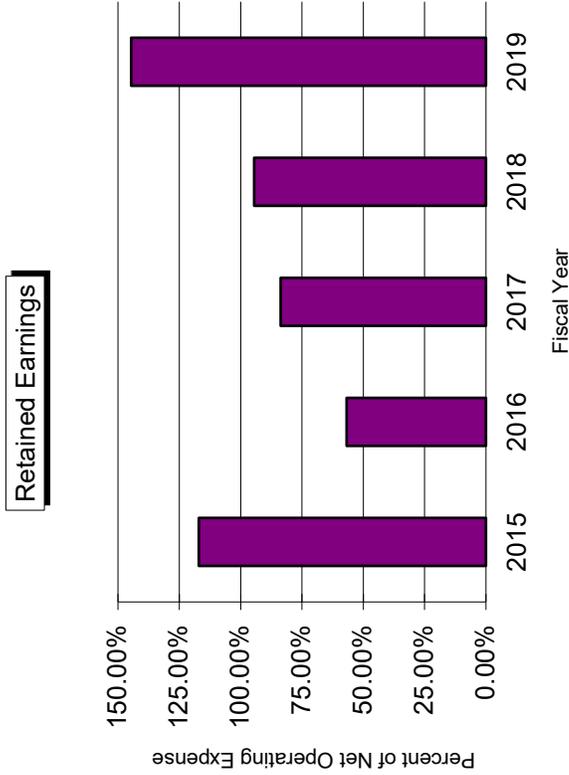
Retained Earnings - Storm Water Fund

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:	2015	2016	2017	2018	2019
Unreserved Storm Water Fund Retained Earnings	\$235,469	\$352,879	\$531,255	\$657,785	\$1,089,071
Net Operating Expenses	\$201,153	\$621,284	\$634,863	\$696,123	\$753,024
Unreserved Water & Sewer Retained Earnings as a Percentage of Net Operating Expenses	117.06%	56.80%	83.68%	94.49%	144.63%

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 ¹		
	Amount	Percent Change	Tax Rate	Amount	Percent Change	Current Collections	Total Collections as a % of Levy ¹	Amount	Percent Change		
2019	\$3,417,977,000 ³	13.33%	\$0.26	\$8,352,877	9.89%	\$8,326,217	99.68%	\$8,373,644	8.88%		
2018	\$3,016,013,200	2.41%	\$0.25/0.26 ⁵	\$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 ²	8.64%	\$0.22/0.25 ⁴	\$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%		

¹Includes current taxes, delinquent taxes, and interest on delinquent taxes.

²Increase due to reassessment of real property effective January 1, 2015.

³Increase due to reassessment of real property effective January 1, 2019

⁴Increase in tax rate from \$0.22 to \$0.25 effective for the second billing in FY 2015

⁵Increase in tax rate from \$0.25 to \$0.26 effective for the second billing in FY 2018

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
2019	\$4,400,152	(6.20)%	\$15,507,921	4.08%	\$1,620,205	(2.25)%	\$4,045,387 ⁴	(2.09)%	\$25,573,665	0.76%
2018	\$4,691,071	3.72%	\$14,899,486	7.63%	\$1,657,455	8.77%	\$4,131,877 ³	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 ²	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 ¹	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%

¹Receipt of refunding bond proceeds of \$3,813,690 in FY 2015 and interfund transfers of \$370,900 from the new Storm Water Fund.

²Receipt of historic tax credits of \$395,795 in FY 2016

³Receipt of \$150,000 bond proceeds for issuance costs and interfund transfers of \$392,306 from General Fund Capital Improvement Fund

⁴Receipt of interfund transfers of \$205,391 from General Fund Capital Improvement Fund

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 ¹		Total Operating Expenditures ²	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2019	\$5,759,192	6.08%	\$9,307,889	0.26%	\$2,453,134	2.32%	\$8,559,245	2.54%	\$26,079,460	2.45%
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%

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

²Does not include expenditures for debt service or capital outlay.

Six-Year Projection of Property Tax Revenue

(TABLE 4)

Fiscal Year	Projected Assessed Value ¹	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
2020	\$3,467,591,000	\$0.26	\$9,015,700	98.5%	\$8,880,500	\$9,030,500
2021	\$3,494,807,000	\$0.26	\$9,086,500	98.5%	\$8,950,200	\$9,100,200
2022	\$3,529,754,000	\$0.26	\$9,177,400	98.5%	\$9,039,700	\$9,189,700
2023	\$3,691,878,000	\$0.26	\$9,598,900	98.5%	\$9,454,900	\$9,604,900
2024	\$3,820,890,000	\$0.26	\$9,934,300	98.5%	\$9,785,300	\$9,935,300
2025	\$3,859,697,000	\$0.26	\$10,035,200	98.5%	\$9,884,684	\$10,034,684

¹Reassessment occurs every four years. Assumes an annual growth of 1.0% for new construction for half- year of FY 2023, an estimated reassessment of 6% for a half-year in 2023 and full- year impact of 6% in 2024 and annual growth of 1.0% for new construction in FY 2021-2022 and FY2025.

Six Year Projection of Total General Fund Revenue

(TABLE 5)

Fiscal Year	Property Tax ¹	Intergovernmental Revenues ²	Other Local Taxes and Licenses ³	Charges for Rental/Current Services ⁴	All Other Revenue ⁵	Total Revenue
2020	\$9,030,500	\$4,609,250	\$15,453,250	\$4,421,500	\$1,177,400	\$34,691,900
2021	\$9,100,200	\$4,655,343	\$16,190,865	\$4,554,145	\$2,499,780	\$37,000,333
2022	\$9,189,700	\$4,701,896	\$16,963,959	\$4,690,769	\$2,526,975	\$38,073,299
2023	\$9,604,900	\$4,748,915	\$17,774,249	\$4,831,492	\$2,547,825	\$39,507,381
2024	\$9,935,300	\$4,796,404	\$18,623,538	\$4,976,437	\$2,571,164	\$40,902,843
2025	\$10,034,684	\$4,844,368	\$19,513,715	\$5,125,730	\$2,593,003	\$42,111,500

¹ Reflects an average annual growth rate of 2.2%.

² Reflects an average annual growth rate of 1.0%.

³ Reflects an average annual growth rate of 5.3%.

⁴ Reflects an average annual growth rate of 3.2%.

⁵ Reflects an average annual growth rate of 13.4%.

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 ¹		Total Amount ³
	Amount	Percent Change ²	Amount	Percent Change ²	Amount	Percent Change	Amount	Percent Change ²	
2020	\$5,860,111	--	\$10,117,460	--	\$2,725,995	--	\$9,765,403	--	\$28,468,969
2021	\$6,030,540	2.91%	\$10,441,869	3.21%	\$2,788,628	2.30%	\$10,122,470	3.66%	\$29,383,507
2022	\$6,117,612	1.44%	\$10,621,992	1.73%	\$2,824,406	1.28%	\$10,276,720	1.52%	\$29,840,730
2023	\$6,222,755	1.72%	\$10,807,324	1.74%	\$2,861,266	1.31%	\$10,435,251	1.54%	\$30,326,596
2024	\$6,341,928	1.92%	\$11,017,687	1.95%	\$2,903,118	1.46%	\$10,617,272	1.74%	\$30,880,005
2025	\$6,453,747	1.76%	\$11,214,358	1.79%	\$2,942,304	1.35%	\$10,785,162	1.58%	\$31,395,571

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

² Growth factors used for FY 2021 through FY 2025 average approximately 2.0%.

³ 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	2011C Refunding Bond	2012 Bond Sale	2015 Bond Sale & Refunding Bond ¹	FY 2017 Bond Sale (3.250m) ¹	FY 2019 Bond Sale (19.957m) ¹	FY 2022 Bond Sale (8.925m) ¹	FY 2022 Bond Sale (8.925m) ¹	Total Debt Service
2020	\$300,000	\$68,696	\$219,563	\$521,102	\$238,331	\$1,041,792	\$217,131	--	--	--	\$2,606,615
2021	--	\$17,174	\$219,883	\$523,986	\$235,556	\$1,028,493	\$217,331	\$2,454,575	--	--	\$4,696,998
2022	\$300,000	--	\$219,895	\$526,618	\$236,856	\$866,756	\$217,331	\$2,431,074	--	--	\$4,798,530
2023	--	--	\$219,593	\$523,725	\$238,056	\$854,181	\$217,131	\$2,384,071	\$669,308	--	\$5,106,065
2024	\$300,000	--	\$218,908	\$134,416	\$234,156	\$861,900	\$216,731	\$2,337,069	\$661,382	--	\$4,964,562
2025	--	--	\$222,830	\$61,208	\$235,256	\$860,837	\$216,131	\$2,290,066	\$645,530	\$922,523	\$5,454,381

¹Future bond sales reflect a projected 4.5% interest rate for FY 2022 bonds and 30 years for FY 2020 and FY2024 bonds.

General Fund Six-Year Projection of New Capital Financing Potential

(TABLE 8)

Fiscal Year	2020	2021	2022	2023	2024	2025
General Fund Item						
Projected Operating Revenue	\$34,691,900	\$37,000,333	\$38,073,299	\$39,507,381	\$40,902,843	\$42,111,500
New Bond Issue	\$29,300,000	\$1,424,350	\$5,321,000	\$13,750,000	\$7,050,500	\$6,065,000
Use/(Return) of Fund Balance	--	\$2,262,153	\$997,292	\$655,611	\$(898,545)	\$(1,442,517)
Less Projected Operating Expenditures	\$28,468,969	\$29,383,507	\$29,840,730	\$30,326,596	\$30,880,005	\$31,395,571
Less Projected Reoccurring Capital Expenditures	\$2,530,019	\$2,794,331	\$2,794,331	\$2,794,331	\$2,794,331	\$2,794,331
Less Debt Service	\$2,606,615	\$4,696,998	\$4,798,530	\$5,106,065	\$4,964,562	\$5,454,381
Net Capital Financing Potential	\$30,386,297	\$3,812,000	\$6,958,000	\$15,686,000	\$8,415,900	\$7,089,700
Debt Service as % of Operating Expenditure	8.39%	13.78%	13.85%	14.41%	13.69%	14.23%
Total Debt as a Percentage of Assessed Value	1.46%	1.37%	1.48%	1.34%	1.76%	1.68%

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
2019	\$6,257,727 ²	5.79%	\$4,779,067	0.96%	\$732,391	(3.66)%	\$204,551	(1.72)%	\$11,973,736	3.07%
2018	\$5,915,354 ²	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 ¹	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%

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 ¹		Total Operating Expenditures ²	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2019	\$571,284	(10.74)%	\$3,570,722	24.56%	\$524,366	(9.79)%	\$3,664,765	12.30%	\$2,367,549	(1.22)%	\$10,698,686	9.74%
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%

¹Includes Administration, Utility Billing and Pump Station Maintenance.

²Does 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 ¹	Total Water	Service Charges	Fixed Charges	Other ²	Total Sewer		
2020	\$6,318,000	\$360,800	\$269,500	\$6,948,300	\$4,757,000	\$332,700	\$15,800	\$5,105,500	\$147,700	\$12,201,500
2021	\$6,585,630	\$379,201	\$282,167	\$7,246,998	\$4,958,507	\$349,668	\$16,542	\$5,324,717	\$131,475	\$12,703,190
2022	\$6,864,598	\$389,818	\$289,503	\$7,543,919	\$5,168,549	\$359,458	\$16,973	\$5,544,980	\$119,994	\$13,208,893
2023	\$7,155,382	\$400,733	\$297,030	\$7,853,145	\$6,098,846	\$369,523	\$17,415	\$6,485,784	\$121,859	\$14,460,788
2024	\$7,458,484	\$411,954	\$304,753	\$8,175,191	\$6,172,032	\$379,870	\$17,867	\$6,569,769	\$123,771	\$14,868,731
2025	\$7,774,426	\$423,488	\$312,676	\$8,510,590	\$6,246,097	\$390,506	\$18,331	\$6,654,934	\$125,731	\$15,291,255

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

²Other Revenue includes Connection Charges and Line Extensions.

³Other 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 ¹	Operating Expenditures	Equipment Replacement	Total Operating Expenditures ²	Percent Change
2020	\$7,515,511	\$3,797,285	\$307,720	\$11,620,516	--
2021	\$7,605,697	\$3,883,725	\$312,677	\$11,802,099	1.56%
2022	\$7,696,965	\$3,946,131	\$312,677	\$11,955,773	1.30%
2023	\$7,789,329	\$4,011,449	\$312,677	\$12,113,455	1.32%
2024	\$7,882,801	\$4,078,169	\$312,677	\$12,273,647	1.32%
2025	\$7,977,395	\$4,146,327	\$312,677	\$12,436,399	1.33%

¹Based on wholesale water rates of \$3.70 per 1,000 gallons purchased for FY 2020-2025 and an annual growth of 1.2%.
²Does not include appropriations for debt service or capital outlay.

Based on wholesale sewer rates of \$2.12 per 1,000 gallons purchased for FY 2020-2025.

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

(TABLE 13)

Fiscal Year	2011C Refunding Bond	2015 Refunding Bond	2017 Bond Sale	2022 Bond Sale	2024 Bond Sale	Total Debt Service	Net Revenue Coverage Of Debt Service
2020	\$368,553	\$272,489	\$99,531	--	--	\$740,573	1.40
2021	\$369,270	\$267,388	\$102,331	--	--	\$738,989	2.05
2022	\$369,839	\$130,725	\$99,931	--	--	\$600,495	2.68
2023	\$370,041	\$130,500	\$97,531	\$655,776	--	\$1,253,848	2.20
2024	\$369,646	\$130,781	\$100,131	\$648,010	--	\$1,248,568	2.31
2025	\$303,067	\$129,844	\$97,531	\$632,478	\$33,796	\$1,196,716	2.63

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

(TABLE 14)

Water & Sewer Fund Item	2020	2021	2022	2023	2024	2025
Projected Operating Revenue	\$12,201,500	\$12,703,190	\$13,208,893	\$14,460,788	\$14,868,731	\$15,291,255
Availability Fees	\$453,100	\$612,300	\$354,700	\$409,100	\$290,800	\$290,800
New Bond Issue	--	\$620,700	\$6,282,200	\$355,800	--	--
Use/(Return) of Cash Reserves	--	\$150,298	\$638,775	\$(435,185)	\$(1,050,816)	\$(1,273,940)
Less Projected Operating Expenditures	\$11,620,516	\$11,802,099	\$11,955,773	\$12,113,455	\$12,273,647	\$12,436,399
Less Debt Service	\$740,573	\$738,989	\$600,495	\$1,253,848	\$1,248,568	\$1,196,716
Net Capital Financing Potential	\$293,511	\$1,545,400	\$7,928,300	\$1,423,200	\$586,500	\$675,000

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 ¹		Total Operating Expenditures ¹	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2019	\$1,081,165	1.90%	\$49,448	33.98%	\$1,130,613	2.98%	\$166,733	0.77%	\$589,291	10.42%	\$756,024	8.14%
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	--	--	--	--	--	--	--	--	--	--	--	--

Fund began January 1, 2015

¹Does 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 ¹		Total Operating Expenditures ¹	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2020	\$1,080,000	--	\$37,000	--	\$1,117,000	--	\$179,370	--	\$635,130	--	\$814,500	--
2021	\$1,092,960	1.20%	\$39,900	7.83%	\$1,132,860	1.41%	\$186,808	4.15%	\$641,481	1.00%	\$828,289	1.69%
2022	\$1,106,076	1.20%	\$40,300	1.00%	\$1,146,376	1.19%	\$191,414	2.47%	\$647,896	1.00%	\$839,310	1.33%
2023	\$1,119,349	1.20%	\$40,700	1.00%	\$1,160,049	1.19%	\$196,341	2.57%	\$654,375	1.00%	\$850,716	1.35%
2024	\$1,132,781	1.20%	\$41,100	1.00%	\$1,173,881	1.19%	\$201,405	2.58%	\$660,919	1.00%	\$862,324	1.36%
2025	\$1,146,374	1.20%	\$41,500	1.00%	\$1,187,874	1.19%	\$206,611	2.58%	\$667,528	1.00%	\$874,139	1.37%

¹Does 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	2020	2021	2022	2023	2024	2025
Projected Operating Revenue	\$1,117,000	\$1,132,860	\$1,146,376	\$1,160,049	\$1,173,881	\$1,187,874
New Bond Issue	--	--	\$832,600	--	--	--
Use/(Return) of Cash Reserves	\$(75,000)	\$(182,071)	\$(49,566)	\$246,764	\$(140,897)	\$17,552
Less Projected Operating Expenditures	\$814,500	\$828,289	\$839,310	\$850,716	\$862,324	\$874,139
Less Reoccurring Capital Expenditures	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500
Less Debt Service	--	--	--	\$79,097	\$78,160	\$76,287
Net Capital Financing Potential	\$225,000	\$120,000	\$1,087,600	\$474,500	\$90,000	\$252,500

Capital Improvement Program Summary

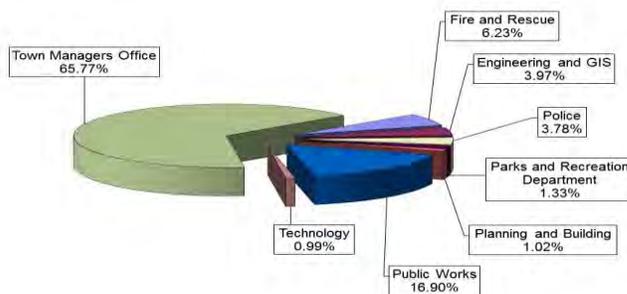
Sources by Fund

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23 - FY 25	Total for 5 Yr CIP	Future Funds Required
Capital Project Funds							
General Obligation Bonds	\$ 51,284,550	\$ 1,465,000	\$ 11,145,050	\$ 12,053,200	\$ 26,621,300	\$ 49,819,550	\$ -
General Funds	20,551,271	2,388,866	4,487,981	3,827,331	9,847,093	18,162,405	-
State Fire Funds	-	-	-	-	-	-	-
State - VDOT	3,597,500	125,000	902,500	642,500	1,927,500	3,472,500	-
Developer Funds	350,000	-	200,000	150,000	-	350,000	-
Grant Funds	-	-	-	-	-	-	-
Water/Sewer Funds	9,143,024	2,679,939	1,237,377	1,958,777	3,266,931	6,463,085	-
Stormwater Funds	1,254,500	50,000	122,500	257,500	824,500	1,204,500	-
Solid Waste/Recycling Funds	537,070	25,000	92,414	142,414	277,242	512,070	-
Replacement Funds	9,034,030	211,500	1,880,800	830,580	6,111,150	8,822,530	-
Transit Local Funds	4,261,908	98,068	802,900	1,618,400	1,742,540	4,163,840	-
State - DRPT	4,261,909	98,069	802,900	1,618,400	1,742,540	4,163,840	-
Federal - FTA	34,095,270	784,550	6,423,200	12,947,200	13,940,320	33,310,720	-
Total Capital Projects Funds	\$ 138,371,032	\$ 7,925,992	\$ 28,097,622	\$ 36,046,302	\$ 66,301,116	\$ 130,445,040	\$ -

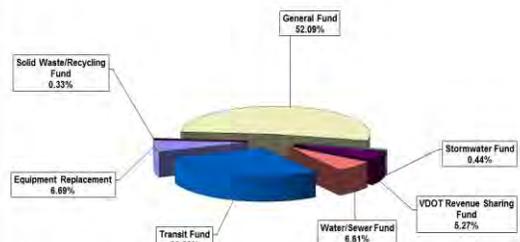
Uses by Capital Improvement Program Category

Category/Uses	Total Project Cost	Funded through 6/30/2020	FY21	FY22	FY23 - FY 25	Total for 5 Yr CIP	Future Funds Required
General Government	\$ 24,528,000	\$ 296,700	\$ 9,625,000	\$ 2,054,100	\$ 12,552,200	\$ 24,231,300	\$ -
Finance	72,500	-	-	-	72,500	72,500	-
Fire and Rescue	3,627,790	25,000	911,958	573,958	2,116,874	3,602,790	-
Parks and Recreation	6,258,700	1,499,200	194,500	160,000	4,405,000	4,759,500	-
Planning and Building	150,000	-	150,000	-	-	150,000	-
Engineering and GIS	15,689,600	519,600	1,401,500	2,948,500	10,820,000	15,170,000	-
Police	2,665,215	400,000	553,043	428,043	1,284,129	2,265,215	-
Public Works	14,053,250	1,222,500	3,133,930	3,558,830	6,137,990	12,830,750	-
Technology	1,241,066	227,366	144,900	217,400	651,400	1,013,700	-
Water/Sewer	16,401,724	2,679,939	1,858,077	8,240,977	3,622,731	13,721,785	-
Stormwater	1,704,500	50,000	122,500	707,500	824,500	1,654,500	-
Transit	42,619,087	980,687	8,029,000	16,184,000	17,425,400	41,638,400	-
Solid Waste/Recycling	537,070	25,000	92,414	142,414	277,242	512,070	-
Equipment Replacement	8,822,530	-	1,880,800	830,580	6,111,150	8,822,530	-
Total Uses	\$ 138,371,032	\$ 7,925,992	\$ 28,097,622	\$ 36,046,302	\$ 66,301,116	\$ 130,445,040	\$ -

FY 2021 General Fund Projects



FY 2021 Capital Improvement Program



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 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 120,000	\$ 600,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Total Uses	Continuing	Continuing	\$ 120,000	\$ 600,000	Continuing				

Operating Impact

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

Capital Improvement Program

Town Manager

TITLE: Downtown Facade Program

STATUS:

PROJECT DESCRIPTION:

This project would fund a downtown facade program similar to a previous program. The previous program was funded through CDBG funds. The program would be funded through the General Fund. The grant match program would be available to owners/investors who wish to renovate or restore an existing building with exterior improvements. The program would fund renovations up to a maximum grant of \$20,000. Additional criteria will be established prior to the implementation of the program.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	\$	\$ 60,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 220,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	\$ 0	\$ 60,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 220,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering		\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	Continuing		60,000	40,000	40,000	40,000	40,000	220,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	\$ 0	\$ 60,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 40,000	\$ 220,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						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
Summer 2018	Summer 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 325,000	\$ 25,000	\$ 300,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 300,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	\$ 325,000	\$ 25,000	\$ 300,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 300,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Town Manager

TITLE: Midtown Parking Garage

STATUS:

PROJECT DESCRIPTION:

In 2019, Town Council approved a development agreement with the owner of the Midtown project. The development agreement details a partnership between the Town and property owner to develop a mixed-use project consisting of hotel, office, retail, restaurant, and housing uses, as well as a publicly-funded police station and 340 space parking garage. The garage supports the secure parking needs of the police department and a portion of the parking needed for the mixed use development. The estimated cost to construct the garage is \$9.1 million. Debt service for the garage will be funded by new revenue generated by the project and a special service district real estate tax established specifically for the Midtown project.

OPERATING IMPACT: Long-term impact to be determined.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Summer 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	9,100,000		9,100,000					9,100,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 9,100,000	\$ 0	\$ 9,100,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 9,100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 900,000	\$	\$ 900,000	\$	\$	\$	\$	\$ 900,000	\$
Construction	8,200,000		8,200,000					8,200,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 9,100,000	\$ 0	\$ 9,100,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 9,100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined						0

Capital Improvement Program

Town Manager

TITLE: Progress Street Parking Garage Study

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
Summer 2019	Summer 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 150,000	\$ 150,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	13,500,000			1,500,000	12,000,000			13,500,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 13,650,000	\$ 150,000	\$ 0	\$ 1,500,000	\$12,000,000	\$ 0	\$ 0	\$ 13,500,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,650,000	\$ 150,000	\$	\$ 1,500,000	\$	\$	\$	\$ 1,500,000	\$
Construction	12,000,000				12,000,000			12,000,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 13,650,000	\$ 150,000	\$ 0	\$ 1,500,000	\$12,000,000	\$ 0	\$ 0	\$ 13,500,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined						0

Capital Improvement Program

Town Manager

TITLE: Bennett House Renovations

STATUS:

PROJECT DESCRIPTION:

This project is for the renovation of the second story of the Bennett House. This would allow the second story to be fully utilized for office space. Currently only one person is allowed upstairs due to building and fire code laws. The renovations would widen the stairs and fix the structural issues with the floor loads to allow additional people upstairs. They would also create three office spaces and an intern space to allow the Sustainability Office the ability to relocate to the second floor of the house.

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
Summer 2020	Summer 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$	\$	\$ 100,000	\$	\$	\$	\$ 100,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	100,000			100,000				100,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Town Manager

TITLE: Energy Efficiency Upgrades
STATUS: Continuing
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) Old Town Hall - \$68,200 - Insulation and air sealing in basement, attic, crawlspace, and exterior walls; duct air sealing, new windows on main level.
- 2) Thomas Conner House - \$21,600 - Insulation and air sealing in basement and attic; duct replacement.

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 2021	Summer 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 196,000	\$ 89,700	\$	\$ 79,100	\$ 27,200	\$	\$	\$ 106,300	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 196,000	\$ 89,700	\$ 0	\$ 79,100	\$ 27,200	\$ 0	\$ 0	\$ 106,300	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	196,000	89,700		79,100	27,200			106,300	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 196,000	\$ 89,700	\$ 0	\$ 79,100	\$ 27,200	\$ 0	\$ 0	\$ 106,300	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Minimal						0

Capital Improvement Program

Town Manager

TITLE: Identificaton Sign Replacement

STATUS:

PROJECT DESCRIPTION:

This project combines funds from existing signage projects into one project. Funds would be used to replace faded or informationally outdated sign panels and in some instances the design and installation of new wayfinding signs, historic signs and kiosks.

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
Fall 2020	Ongoing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 107,000	\$ 32,000	\$ 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
Total Sources	\$ 107,000	\$ 32,000	\$ 15,000	\$ 75,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	107,000	32,000	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
Total Uses	\$ 107,000	\$ 32,000	\$ 15,000	\$ 75,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Town Manager

TITLE: Old Town Hall Renovations

STATUS:

PROJECT DESCRIPTION:

Funding is for the renovation of Old Town Hall to include the conversion to a retail incubator in partnership with Downtown Blacksburg Incorporated. Old Town Hall's historic storefront would be restored and the building would be renovated to comply with changing the use from business to mercantile. In addition to the historic storefront changes include electrical upgrades, ADA compliant entrances and bathroom, minor interior improvements.

OPERATING IMPACT: Cost 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 2020	Summer 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 230,000	\$	\$ 30,000	\$ 200,000	\$	\$	\$	\$ 230,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 230,000	\$ 0	\$ 30,000	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 230,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 30,000	\$	\$ 30,000	\$	\$	\$	\$	\$ 30,000	\$
Construction	200,000			200,000				200,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 230,000	\$ 0	\$ 30,000	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 230,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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 FY2019. 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 2025	Spring 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$	\$	\$	\$	\$ 30,500	\$ 30,500	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,500	\$ 30,500	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing					30,500	30,500	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,500	\$ 30,500	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget	0					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 FY2018. 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 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 0	\$ 0	\$ 42,000	\$ 0	\$ 0	\$ 42,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing			42,000			42,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 0	\$ 0	\$ 42,000	\$ 0	\$ 0	\$ 42,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget	0					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: 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 60,000		\$ 0	\$ 60,000	\$ 0	\$ 0	\$ 0	\$ 60,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	60,000			60,000				60,000	
Contractual Services								0	
Total Uses	\$ 60,000		\$ 0	\$ 60,000	\$ 0	\$ 0	\$ 0	\$ 60,000	\$ 0

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	40,000		\$	\$	\$	\$ 40,000	\$	\$ 40,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	40,000	0	\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 0	\$ 40,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	40,000					40,000		40,000	Continuing
Contractual Services								0	
Total Uses	40,000		\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 0	\$ 40,000	Continuing

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 Town's 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 FY2016. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ 30,000	\$	\$ 30,000	\$	\$	\$	\$ 30,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 60,000	\$ 30,000	\$ 0	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 30,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	60,000	30,000		30,000				30,000	Continuing
Contractual Services								0	
Total Uses	\$ 60,000	\$ 30,000	\$ 0	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 30,000	Continuing

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: Previously Included

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 2023	Spring 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	79,000		\$	\$	\$	\$ 79,000	\$	\$ 79,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	79,000	0	\$ 0	\$ 0	\$ 0	\$ 79,000	\$ 0	\$ 79,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	79,000					79,000		79,000	Continuing
Contractual Services								0	
Total Uses	79,000		\$ 0	\$ 0	\$ 0	\$ 79,000	\$ 0	\$ 79,000	Continuing

Operating Impact

Expense Category	FY20	FY21	FY22	FY23	FY24	Total for Five Year CIP
Support costs					12,000	12,000

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 FY2018. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	111,000	63,000	\$ 48,000	\$	\$	\$	\$	\$ 48,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	111,000	63,000	\$ 48,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 48,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	111,000	63,000	48,000					48,000	Continuing
Contractual Services								0	
Total Uses	111,000	63,000	\$ 48,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 48,000	Continuing

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 FY2011. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 70,000	\$ 0	\$ 0	\$ 70,000	\$ 0	\$ 0	\$ 0	\$ 70,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	70,000			70,000				70,000	
Contractual Services								0	
Total Uses	\$ 70,000	\$ 0	\$ 0	\$ 70,000	\$ 0	\$ 0	\$ 0	\$ 70,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Technology Department

TITLE: Network Switch Replacement

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	59,366	44,366	\$	\$	\$ 15,000	\$	\$	\$ 15,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	59,366	44,366	\$ 0	\$ 0	\$ 15,000	\$ 0	\$ 0	\$ 15,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	59,366	44,366			15,000		0	15,000	Continuing
Contractual Services								0	
Total Uses	59,366	44,366	\$ 0	\$ 0	\$ 15,000	\$ 0	\$ 0	\$ 15,000	Continuing

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	90,000	\$	\$	\$	\$	\$ 90,000	\$ 90,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	90,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 90,000	\$ 90,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	90,000					90,000	90,000	Continuing
Contractual Services								0	
Total Uses	Continuing	90,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 90,000	\$ 90,000	Continuing

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	60,000		\$	\$	\$ 60,000	\$	\$	\$ 60,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	60,000	0	\$ 0	\$ 0	\$ 60,000	\$ 0	\$ 0	\$ 60,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	60,000				60,000			60,000	Continuing
Contractual Services								0	
Total Uses	60,000		\$ 0	\$ 0	\$ 60,000	\$ 0	\$ 0	\$ 60,000	Continuing

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 two server room UPS systems. These systems are located at the Municipal Building and Transit.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 30,000	\$ 0	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	30,000		30,000					30,000	
Contractual Services								0	
Total Uses	\$ 30,000	\$ 0	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Minimal						0

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ Continuing	Continuing	\$ 66,900	\$ 57,400	\$ 65,800	\$ 69,900	\$ 66,700	\$ 326,700	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ Continuing	Continuing	\$ 66,900	\$ 57,400	\$ 65,800	\$ 69,900	\$ 66,700	\$ 326,700	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	66,900	57,400	65,800	69,900	66,700	326,700	Continuing
Contractual Services								0	
Total Uses	\$ Continuing	Continuing	\$ 66,900	\$ 57,400	\$ 65,800	\$ 69,900	\$ 66,700	\$ 326,700	Continuing

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: Telephone System Replacement

STATUS:

PROJECT DESCRIPTION:

This project will allocate funds to allow the Technology Department to replace existing telephone system infrastructure every six to seven years. The telephone system has two servers and nine routers that need to be evaluated every six to seven years.

OPERATING IMPACT: 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 2014

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$	\$	\$	\$ 100,000	\$	\$	\$ 100,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	100,000				100,000			100,000	
Contractual Services								0	
Total Uses	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Technology Department

TITLE: Wireless Controller Replacement

STATUS:

PROJECT DESCRIPTION:

This project will allocate funds to allow the Technology Department to replace existing wireless controller every six - seven years.

OPERATING IMPACT: 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 65,000	\$	\$	\$	\$	\$	\$ 65,000	\$ 65,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 65,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 65,000	\$ 65,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	65,000						65,000	65,000	
Contractual Services								0	
Total Uses	\$ 65,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$ 65,000	\$ 65,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Police Department

TITLE: Police Video, Data Storage and Technology Upgrade

STATUS: In Progress

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 525,000	\$ 400,000	\$ 125,000	\$	\$	\$	\$	\$ 125,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 525,000	\$ 400,000	\$ 125,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 125,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	525,000	400,000	125,000					125,000	
Contractual Services								0	
Total Uses	\$ 525,000	\$ 400,000	\$ 125,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 125,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Warranty and annual service costs	7,500	7,500	7,500	7,500	7,500	37,500

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 15,000	\$ 75,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	Continuing	Continuing	\$ 15,000	\$ 75,000	Continuing				

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: Previously Included

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
Winter 2019	Summer 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 55,000	\$ 25,000	\$ 30,000	\$	\$	\$	\$	\$ 30,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 55,000	\$ 25,000	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	55,000	25,000	30,000					30,000	
Contractual Services								0	
Total Uses	\$ 55,000	\$ 25,000	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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). This ambulance does not increase the ambulance fleet size. This purchase eliminates the uncertainty of an unscheduled reserve ambulance.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 268,000	\$ 0	\$ 268,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 268,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	268,000		268,000					268,000	
Contractual Services								0	
Total Uses	\$ 268,000	\$ 0	\$ 268,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 268,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Rescue Department

TITLE: Cardiac Monitors/Defibrillators

STATUS: Previously Included

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 395,000	\$ 0	\$ 0	\$ 0	\$ 395,000	\$ 0	\$ 0	\$ 395,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment					395,000			395,000	
Contractual Services								0	
Total Uses	\$ 0	\$ 0	\$ 0	\$ 0	\$ 395,000	\$ 0	\$ 0	\$ 395,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget.						0

Capital Improvement Program

Rescue Department

TITLE: Rescue Bunk Room HVAC Re-design

STATUS:

PROJECT DESCRIPTION:

The four bunk rooms are used by volunteers who staff the station and respond to emergency calls around the clock. As volunteers, these people often have work or school the next day so having a comfortable place they are able to sleep is critical for the ability to staff these overnight shifts. The current HVAC system is unable to maintain a comfortable environment with unstable temperature, poor temperature regulation, and high relative humidity. This project involves bringing in an outside consultant to evaluate the existing system, understand the use of the spaces, and design and specify a solution.

OPERATING IMPACT: None.

GOAL ADDRESSED: Ensuring a safe community.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2020	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 40,000	\$ 0	\$ 40,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 5,000	\$	\$ 5,000	\$	\$	\$	\$	\$ 5,000	\$
Construction	35,000		35,000					35,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 40,000	\$ 0	\$ 40,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None.						0

Capital Improvement Program

Public Works Department

TITLE: ADA Transition Planning Projects

STATUS: In Progress

PROJECT DESCRIPTION:

This project provides continued funding for ADA Facilities Transition Planning projects and assessments, fulfilling requirements set forth in Title II of the Americans with Disabilities Act (ADA). Funding will be used to complete the identification of physical barriers to accessibility and prioritize projects in accordance with the most current phase of the Town's Transition Planning projects.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 230,000	\$ 70,000	\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ 20,000	\$ 160,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 230,000	\$ 70,000	\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ 20,000	\$ 160,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 103,100	\$ 63,100	\$ 20,000	\$	\$ 20,000	\$	\$	\$ 40,000	\$
Construction	126,900	6,900	20,000	20,000	20,000	40,000	20,000	120,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 230,000	\$ 70,000	\$ 40,000	\$ 20,000	\$ 40,000	\$ 40,000	\$ 20,000	\$ 160,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

TITLE: Aquatic Center HVAC Replacement

STATUS: Previously Included

PROJECT DESCRIPTION:

This project provides funding to replace the existing dehumidification system, locker room energy recovery and ventilation systems, and the central boiler system for heating pool water and natatorium. The mechanical systems in the Aquatic Center have reached the end of their useful life cycle of 25 years.

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 2020	Spring 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	491,000	491,000	\$	\$	\$	\$	\$	\$ 0	
General Obligation Bonds	879,350		879,350					879,350	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	1,370,350	491,000	\$ 879,350	\$ 0	\$ 0	\$ 0	\$ 0	\$ 879,350	

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	85,000	85,000	\$	\$	\$	\$	\$	\$ 0	
Construction	1,285,350	406,000	879,350					879,350	
Equipment								0	
Contractual Services								0	
Total Uses	1,370,350	491,000	\$ 879,350	\$ 0	\$ 0	\$ 0	\$ 0	\$ 879,350	

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Utilities		2,000	2,100	2,200	2,300	8,600

Capital Improvement Program

Public Works Department

TITLE: Aquatic Center Skylight Replacement

STATUS: New

PROJECT DESCRIPTION:

This project funds the replacement of the leaking Aquatic Center skylights over the natatorium.

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 2020	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 85,000	\$	\$ 85,000	\$	\$	\$	\$	\$ 85,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 85,000	\$ 0	\$ 85,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 85,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 8,000	\$	\$ 8,000	\$	\$	\$	\$	\$ 8,000	\$
Construction	77,000		77,000					77,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 85,000	\$ 0	\$ 85,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 85,000	\$

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 0	
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Community Center HVAC Installation

STATUS: Previously Included

PROJECT DESCRIPTION:

This project provides funding to complete the replacement of the heating and ventilating systems in the gym and locker room of the Community Center. The project goal is to provide cost-effective air conditioning, improve the serviceability of the ventilation and incorporate energy efficiency measures in an air conditioning system to cool the gym facility. This project has been evaluated with a preliminary design and cost report prepared by engineering and architect firms in 2017. A portion of the funding for this project will be financed by the Building System Replacement Fund.

OPERATING IMPACT: Utility costs.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
2020	2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 148,500	\$ 148,500	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	1,002,000			1,002,000				1,002,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 1,150,500	\$ 148,500	\$ 0	\$ 1,002,000	\$ 0	\$ 0	\$ 0	\$ 1,002,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 51,000	\$ 51,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	1,099,500	97,500		1,002,000				1,002,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 1,150,500	\$ 148,500	\$ 0	\$ 1,002,000	\$ 0	\$ 0	\$ 0	\$ 1,002,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Utility costs			2,000	2,100	2,200	6,300

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 an emergency generator at Public Works in FY2021 to replace an existing aging unit.

OPERATING IMPACT: Already in operating budget.

GOAL ADDRESSED: Ensuring a safe community.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2023	

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 270,000	\$ 200,000	\$ 70,000	\$	\$	\$	\$	\$ 70,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 270,000	\$ 200,000	\$ 70,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 70,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	270,000	200,000	70,000					70,000	
Contractual Services								0	
Total Uses	\$ 270,000	\$ 200,000	\$ 70,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 70,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Public Works Department

TITLE: Field Operations Vehicles

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding for the replacement of "hand-me-down" equipment in the Field Operations Division that are currently being used on a daily basis and are at the end of their useful life. This equipment was 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.

FY2020/2021: Asphalt Roller Replacement - \$51,250

FY2021/2022: Uniloaders - \$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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 211,250	\$ 100,000	\$ 51,250	\$ 60,000	\$	\$	\$	\$ 111,250	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 211,250	\$ 100,000	\$ 51,250	\$ 60,000	\$ 0	\$ 0	\$ 0	\$ 111,250	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	211,250	100,000	51,250	60,000				111,250	
Contractual Services								0	
Total Uses	\$ 211,250	\$ 100,000	\$ 51,250	\$ 60,000	\$ 0	\$ 0	\$ 0	\$ 111,250	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

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 VDOT Revenue Sharing curb, gutter and sidewalk replacement and infill projects. Funding in FY2021 will be for the replacement of Roanoke sidewalk from Main Street to Church Street in conjunction with the Main Streetscape project.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 45,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 105,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 45,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 105,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	45,000	15,000	15,000	15,000	15,000	105,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 45,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 105,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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: 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 1,000,000	\$ 500,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	\$
Construction	Continuing	Continuing	60,000	60,000	60,000	60,000	60,000	300,000	
Equipment	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 100,000	\$ 500,000	\$ 0				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Municipal Building Envelope Waterproofing Project
STATUS: In Progress
PROJECT DESCRIPTION:

The project provides 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
Winter 2019	Fall 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ 60,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	500,000			500,000				500,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 560,000	\$ 60,000	\$ 0	\$ 500,000	\$ 0	\$ 0	\$ 0	\$ 500,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 60,000	\$ 60,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	500,000			500,000				500,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 560,000	\$ 60,000	\$ 0	\$ 500,000	\$ 0	\$ 0	\$ 0	\$ 500,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Parking Lot Repaving, Sealing and Striping

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding for repaving, sealing, and striping of parking lots at Town maintained properties.

FY2021 Funding is reserved for the Caboose Park Parking Lot.

FY2022 Funding is reserved for the Public Works Front and Employee Lots.

FY2023 Funding is reserved for the Toms Creek Ballfield Parking Lot.

FY2024 Funding is reserved for the Public Works Back Lot.

FY2025 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 75,000	\$ 70,000	\$ 50,000	\$ 140,000	\$ 120,000	\$ 455,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 75,000	\$ 70,000	\$ 50,000	\$ 140,000	\$ 120,000	\$ 455,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 75,000	\$ 70,000	\$ 50,000	\$ 140,000	\$ 120,000	\$ 455,000	Continuing
Construction	Continuing	Continuing						0	0
Equipment								0	0
Contractual Services								0	0
Total Uses	Continuing	Continuing	\$ 75,000	\$ 70,000	\$ 50,000	\$ 140,000	\$ 120,000	\$ 455,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						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. An engineering firm will 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$	\$ 60,000	\$	\$ 60,000	\$	\$ 120,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 0	\$ 60,000	\$ 0	\$ 60,000	\$ 0	\$ 120,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$	\$ 60,000	\$	\$ 60,000	\$	\$ 120,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 0	\$ 60,000	\$ 0	\$ 60,000	\$ 0	\$ 120,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
						0

Capital Improvement Program

Public Works Department

TITLE: Price House Restoration Project

STATUS: New

PROJECT DESCRIPTION:

A condition assessment completed on the Price House Property (houses Nature Center and SEEDs Program) identified several structural issues and envelope and deterioration of the roof systems in the existing house. The latest ADA assessment identified the lack of adequate bathroom facilities to accommodate the use for current programs. This project is proposed to remedy these issues.

OPERATING IMPACT: Decrease maintenance costs and upkeep via renewal.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2021	Summer 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 266,000	\$ 63,000	\$	\$	\$	\$ 203,000	\$	\$ 203,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 266,000	\$ 63,000	\$ 0	\$ 0	\$ 0	\$ 203,000	\$ 0	\$ 203,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 23,500	\$ 23,500	\$	\$	\$	\$	\$	\$ 0	\$
Construction	242,500	39,500				203,000		203,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 266,000	\$ 63,000	\$ 0	\$ 0	\$ 0	\$ 203,000	\$ 0	\$ 203,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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, exterior improvements 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 0	
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Roof Replacement

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding for the replacement of membrane, metal or shingle roofs on Town-owned buildings that have exceeded their useful life. This project will provide funding for roof replacements on the Finance storage warehouse building in FY 2022 and the Recreational Building roof over the gymnasium in FY2024.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 178,500	\$	\$	\$ 63,500	\$	\$ 115,000	\$	\$ 178,500	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 178,500	\$ 0	\$ 0	\$ 63,500	\$ 0	\$ 115,000	\$ 0	\$ 178,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 20,000	\$	\$	\$ 20,000	\$	\$	\$	\$ 20,000	\$
Construction	158,500			43,500		115,000		158,500	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 178,500	\$ 0	\$ 0	\$ 63,500	\$ 0	\$ 115,000	\$ 0	\$ 178,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Town Building Masonry

STATUS: In Progress

PROJECT DESCRIPTION:

This project funds the restoration of masonry and brick at Town buildings. Prior funds were allocated for the Community Center and Five Chimneys. FY2021 and FY2022 funding is reserved for Blacksburg Motor Company Building and Municipal Building mortar 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
Summer 2021	Summer 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 15,000	\$ 90,000	\$ 30,000	\$ 30,000	\$	\$	\$	\$ 60,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 15,000	\$ 90,000	\$ 30,000	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 60,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 10,000	\$	\$ 10,000	\$	\$	\$	\$	\$ 10,000	\$
Construction	140,000	90,000	20,000	30,000				50,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 150,000	\$ 90,000	\$ 30,000	\$ 30,000	\$ 0	\$ 0	\$ 0	\$ 60,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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: 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 45,000	\$ 225,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 0	
Construction	Continuing	Continuing	45,000	45,000	45,000	45,000	45,000	225,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 45,000	\$ 225,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Public Works Department

TITLE: Traffic Signal Video Detection Cameras
STATUS: New
PROJECT DESCRIPTION:

This project provides funding to replace existing traffic signal video detection cameras. Funding in FY2021 and FY2022 will replace the cameras at four signalized intersections where the camera systems are no longer supported by the software that allows for connectivity and adjustment of the camera functions. Beginning in FY2023, funding will replace the cameras at one signalized intersection per year. The new video detection cameras have far superior technological capabilities, including vehicle and bike counting.

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
July 2020	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 210,000	\$	\$ 120,000	\$	\$ 30,000	\$ 30,000	\$ 30,000	\$ 210,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 210,000	\$ 0	\$ 120,000	\$ 0	\$ 30,000	\$ 30,000	\$ 30,000	\$ 210,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	175,000		100,000		25,000	25,000	25,000	175,000	
Contractual Services	35,000		20,000		5,000	5,000	5,000	35,000	
Total Uses	\$ 210,000	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 30,000	\$ 30,000	\$ 210,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

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 depreciations 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 153,090	\$ 153,090	\$ 153,090	\$ 153,090	\$ 153,090	\$ 765,450	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 153,090	\$ 765,450	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$	\$	\$	\$	\$	\$ 0	
Construction								0	
Equipment	Continuing	Continuing	153,090	153,090	153,090	153,090	153,090	765,450	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 153,090	\$ 765,450	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Transfers to Building Systems Depreciation Fund

Aquatic Center

Description	Installation Date	Life	Remaining Life	Purchase Cost	FY Replacement	Depreciation
Heat Exchanger - Spa	2005	20	4	\$13,200	2025	\$ 729
Heat/cool roof top package unit - Lobby Area	2005	15	-1	\$11,000	2020	
Z pack duct energy recovery system heat w/ duct heater	1998	20	-3	\$60,000	2018	
1 gas fired domestic water heater	2015	20	14	\$20,000	2035	\$ 1,413
1 gas fired boiler	1992	27	-2	\$75,000	2019	
Energy Recovery Unit/ heat-air-dem-Pool Area (Dectron)	2003	16	-2	\$330,000	2019	
A - Heat Exchangers - Pool	2015	20	14	\$8,000	2035	\$ 565
B - Heat Exchangers - Pool	2018	20	17	\$8,000	2038	\$ 609
Spa Pumps - Heat - A	2017	20	16	\$2,772	2037	\$ 206
Spa Pumps - Heat - B	2017	20	16	\$2,772	2037	\$ 206
Pool Pumps - Heat - A	2019	25	23	\$3,000	2044	\$ 212
Pool Pumps - Heat - B	2019	25	23	\$3,000	2044	\$ 212
Building Pump - Heat - A	1992	30	1	\$5,740	2022	\$ 196
Building Pump - Heat - B	1992	30	1	\$5,740	2022	\$ 196
				\$548,224		\$ 4,543

Armory

Description	Installation Date	Life	Remaining Life	Purchase Cost	FY Replacement	Depreciation
6 A/C units with gas heat	2007	20	6	\$75,000	2027	\$ 4,349
1 a/c split system w/ gas furnace	2007	20	6	\$4,400	2027	\$ 255
				\$79,400		\$ 4,604

Bennett House

Description	Installation Date	Life	Remaining Life	Purchase Cost	FY Replacement	Depreciation
1 ea forced air electric furnace w/ heat pump	2004	20	3	\$3,000	2024	\$ 162
1 ea forced air gas furnace w/ A/C	2004	20	3	\$3,300	2024	\$ 178
2 ea a/c split system	2004	20	3	\$8,800	2024	\$ 474
				\$15,100		\$ 813

Cemetery

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement	Depreciation
Gas fired furnace with A/C	2015	20	14	\$8,000	2035	\$ 565
A/C Condensor	2015	20	14	\$5,500	2035	\$ 389
Gas Fired Unit Heater	2015	15	9	\$4,000	2030	\$ 333
				\$17,500		\$ 1,287

Transfers to Building Systems Depreciation Fund

Five Chimneys House

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 a/c split system	2016	15	10	\$5,000	2031 \$ 427
1 gas fired furnace	2016	15	10	\$5,000	2031 \$ 427
1 ERV	2016	15	10	\$2,000	2031 \$ 171
				\$12,000	\$ 1,024

Golf Course Pro Shop

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
Heat Pump with backup electric heat	2017	20	16	\$14,454	2037 \$ 1,073
				\$14,454	\$ 1,073

Golf Course Maintenance Shop

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
Irrigation pump system - Controls	2018	10	7	\$14,100	2028 \$ 1,676
Irrigation pump system - Pump	1994	30	3	\$5,000	2024 \$ 179
3 Gas Furnace	2011	20	10	\$9,000	2031 \$ 576
				\$28,100	\$ 2,432

Municipal Building

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 A/C ductless split system computer room	2012	15	6	\$11,000	2027 \$ 850
1 A/C ductless split system computer room	2012	15	6	\$11,000	2027 \$ 850
roof top package HVAC 1st and 2nd floor	2012	20	11	\$145,000	2032 \$ 9,513
VRF A/C system w/ ERV 3rd floor	2012	15	6	\$75,000	2027 \$ 5,798
A/C split system Town Hall Conference Room 1st floor	2019	15	13	\$8,000	2034 \$ 735
Roof top package w/ gas heat council chambers	2017	20	16	\$22,000	2037 \$ -
Roof top A/C unit council chambers	2017	20	16	\$4,000	2037 \$ -
A/C condenser split system court offices	2001	18	-2	\$7,700	2019 \$ -
Indoor air handler court offices	1992	27	-2	\$5,000	2019 \$ -
Indoor duct heater court offices	1992	27	-2	\$9,000	2019 \$ -
control system court offices	1992	27	-2	\$5,000	2019 \$ -
Packaged Terminal Heat Pump break room 1st floor	2017	10	6	\$1,500	2027 \$ 174
Domestic water heater 1st floor	2007	15	1	\$12,100	2022 \$ 827
Elevator	2012	30	21	\$98,000	2042 \$ 5,487
				\$414,300	\$ 24,235

Old Town Hall

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 forced air gas furnace	2005	15	-1	\$6,600	2020 \$ 429
1 split a.c system / heat pump	2005	15	-1	\$6,600	2020 \$ 429
				\$13,200	

Transfers to Building Systems Depreciation Fund

Parks & Rec Administration (Boatwright House)

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
3 forced air furnaces	1998	20	-3	\$9,900	2018 \$ -
3 split a/c systems	1998	20	-3	\$16,500	2018 \$ -
				\$26,400	

Police Department Building

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
roof top cooling & heating unit - Chief Area	2003	20	2	\$15,000	2023 \$ 788
roof top cooling & heating unit - Training Room	2003	20	2	\$10,000	2023 \$ 525
1 roof top cooling & heat unit - Jail	1999	20	-2	\$12,000	2019
1 pneumatic control system	1982	37	-2	\$16,500	2019
1 gas fired boiler	1982	37	-2	\$27,500	2019
2 a/c condenser split systems	1998	21	-2	\$8,800	2019
1 VAV Controller	1992	27	-2	\$8,800	2019
2 custom built air handler w/hot water heat	1982	37	-2	\$12,000	2019
a/c system heat w/electric furnace - evidencne area	2000	20	-1	\$4,000	2020
1 A/C Ductless Split Sys. - record room/IT	2013	20	12	\$7,200	2033 \$ 484
1 A/C Ductless Split Sys. - Fusion Center	2017	20	16	\$10,578	2037 \$ 785
				\$132,378	\$ 2,583

Police Storage Building

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 gas fired furnace	1999	20	-2	\$3,850	2019 \$3,850

Police Communication Building - Clay Street

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
4 a/c units w/electric heat	1997	22	-2	\$24,000	2019 \$24,000

Police Communication Building - North main Street

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
2 a/c units w/electric heat	2000	20	-1	\$13,000	2020 \$13,000

Price House

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
2 a/c split ductless heat pumps	2009	15	3	\$20,000	2024 \$ 1,436
				\$20,000	\$ 1,436

Transfers to Building Systems Depreciation Fund

Price's Fork Rd. Fire House (FS-2)

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
2 split a/c systems	2005	15	-1	\$17,600	2020
2 forced air furnaces	1991	29	-1	\$8,800	2020
2 infrared tube heaters	1991	30	0	\$8,800	2021
2 a/c & heat pump systems (LG)	2014	15	8	\$12,500	2029
				\$47,700	\$ 1,015
					\$ 1,015

Progress St. Fire House (FS-1)

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 pneumatic control system	1986	33	-2	\$16,500	2019
1 gas fired boiler - main level and basement	1986	33	-2	\$38,500	2019
1 gas fired boiler - Bay area	1986	33	-2	\$35,000	2019
3 roof top a/c package units	1991	28	-2	\$33,000	2019
2 split a/c systems	1996	23	-2	\$17,600	2019
ductless heat pump dual zone unit	2007	20	6	\$5,000	2027
2 hanging air handler - bay area	1983	36	-2	\$10,000	2019
Exterior Vertical Lift	2012	15	6	\$15,000	2027
Water heating System	2018	10	7	\$30,000	2028
				\$200,600	\$ 1,160
					\$ 3,566
					\$ 5,016

Purchasing Warehouse

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
Horizontal Furnace forced gas	1997	21	-3	\$1,650	2018
1 split a/c system	2008	10	-3	\$8,800	2018
Exhaust Fan warehouse area	1997	21	-3	\$880	2018
2 large gas fired hanging heater - carpenter shop	2011	15	5	\$15,000	2026
Mechanical Pit leveler	2017	30	26	\$7,560	2047
Edge of Dock leveler	2015	30	24	\$2,100	2045
ductless split system - technology	2006	20	5	\$5,000	2026
small unit gas fired hanging heater - meter room	1999	20	-2	\$4,000	2019
2 large gas fired hanging heater - warehouse	2012	20	11	\$10,000	2032
A/C ductless split sys. (controlled temperature room)	2016	15	10	\$3,000	2031
				\$57,990	\$ 2,932

PW Administration Building

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 forced air gas fired furnace - training	2004	16	-1	\$4,950	2020
1 split a/c system - training	2004	16	-1	\$3,300	2020
1 forced air gas horizontal furnace admin	1998	21	-2	\$3,300	2019
1 split a/c system - admin	1998	21	-2	\$4,950	2019
1 forced air gas fired furnace - lunchroom	2000	19	-2	\$3,300	2019
1 split a/c system - lunchroom	2000	19	-2	\$4,950	2019
				\$24,750	\$ -

Transfers to Building Systems Depreciation Fund

PW Storage Buildings

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 gas fired furnace - sign shop	2011	15	5	\$3,200	2026 \$ 241
1 gas fired unit heat - green shed	2012	15	6	\$3,200	2027 \$ 247
1 gas fired unit heat - New PW shed	2012	15	6	\$3,200	2027 \$ 247
1 gas fire unit heat - landscape shed	2000	19	-2	\$3,200	2019 \$ -
				\$12,800	\$ 736

Recreation Center

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
6 hot water air handlers - gym & locker room	1981	38	-2	\$132,000	2019 \$ -
1 pneumatic temperature control system	1981	38	-2	\$16,500	2019 \$ -
3 gas fired boiler	2005	30	14	\$33,000	2035 \$ 1,554
1 roof top a/c package unit computer lab & office	2012	20	11	\$8,500	2032 \$ 558
1 ERV computer & office area	2012	20	11	\$9,000	2032 \$ 590
2 roof top package unit gas - art room & senior	1998	20	-3	\$20,000	2018 \$ -
4 LG Split Systems -multipurpose room	2013	20	12	\$21,000	2033 \$ 1,412
1 ERV multipurpose room	2013	20	12	\$13,000	2033 \$ 874
1 roof top package - program room	2014	20	13	\$13,000	2034 \$ 896
1 roof top package - social room	2014	20	13	\$8,100	2034 \$ 558
1 ERV program and social room	2014	20	13	\$9,000	2034 \$ 620
1 roof top package with dehumidifier weight/exercise room	2009	20	8	\$12,000	2029 \$ 731
1 ERV in weight/exercise room	2009	20	8	\$4,000	2029 \$ 244
				\$299,100	\$ 8,038

Thomas Conner House

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
2 a/c split systems w/gas furnace	1994	25	-2	\$22,000	2019 \$ -
1 gas fired boiler	1994	30	3	\$5,500	2024 \$ 197
2 a/c units window	2018	15	12	\$4,000	2033 \$ 359
				\$31,500	\$ 556

Transfers to Building Systems Depreciation Fund

PW - Town Garage

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
4 gas fired tube heaters	2004	20	3	\$9,900	2024 \$ 533
2 window a/c unit	2019	10	8	\$1,200	2029 \$ 146
5 infrared heating units	1997	22	-2	\$2,750	2019 \$ -
2 electric heating units ceiling	2000	20	-1	\$1,200	2020 \$ 59
Air compressor w dryer	2008	11	-2	\$25,000	2019 \$ -
2 post heavy duty lift - 12000	2017	15	11	\$7,530	2032 \$ 659
2 post heavy duty lift - 18000	2017	15	11	\$19,301	2032 \$ 1,688
2 post heavy duty lift - 18000	2006	15	0	\$20,000	2021 \$ 1,333
Hot water pressure washer	2016	10	5	\$9,000	2026 \$ 1,018
Exhaust evacuation system	2012	20	11	\$50,000	2032 \$ 3,280
Portable Lift system	2017	15	11	\$74,900	2032 \$ 6,552
				\$220,782	\$ 15,268

Blacksburg Motor Company

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
14 Water Source Heat Pumps	2008	20	7	\$56,000	2028 \$ 3,328
1 Geothermal Loop	2008	30	17	\$90,000	2038 \$ 4,565
4 Building Sump Pumps	2008	11	-2	\$4,200	2019 \$ -
5 Ductless Split A/C Units	2008	15	2	\$12,500	2023 \$ 876
1 Subsurface Ventilation System	2011	10	0	\$5,000	2021 \$ 500
1 Engine Generator	2008	20	7	\$55,000	2028 \$ 3,269
1 elevator system	2008	40	27	\$95,000	2048 \$ 4,626
				\$317,700	\$ 17,164

Kipps Restroom

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 ERV with Heat	2013	20	12	\$10,500	2033 \$ 706
3-ceiling mounted unit heaters	2013	10	2	\$6,000	2023 \$ 630
				\$16,500	\$ 1,336

Odd Fellows Hall and Annex

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
1 Daikin heat pump with 2 indoor fan coils	2009	15	3	\$10,000	2024 \$ 718
1 split system heat pump with electric heat	2009	15	3	\$6,000	2024 \$ 431
				\$16,000	\$ 1,149

Transfers to Building Systems Depreciation Fund

Alexander Black House

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
2 Heat Pump systems	2014	20	13	\$25,000	2034
1 HVAC Dehumidifier	2014	15	8	\$5,000	2029
1 Heat Pump System - 2nd floor unit	2019	20	18	\$39,178	2039
1 - ERV Unit	2019	20	18	\$6,000	2039
Elevator	2019	30	28	\$73,000	2049
				\$148,178	\$
					\$ 10,511

Fire House III (FS-3)

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
4 Gas Furnaces w/ AC	2009	20	8	\$44,000	2029
4 Tube type gas heat	2008	15	2	\$16,000	2023
1 VFR system (12 indoor units & 2 outdoor units)	2015	15	9	\$100,000	2030
1 ERV unit	2015	15	9	\$30,000	2030
1 Elevator	2015	30	24	\$65,000	2045
1 Compressor/Dryer	2008	11	-2	\$10,500	2019
				\$265,500	\$
					\$ 18,544

New Rescue

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
Air Handler Unit-1/Heat Pump-1	2016	20	15	\$7,850	2036
Air Handler Unit-2/Heat Pump-2	2016	20	15	\$7,850	2036
Air Handler Unit-3/Heat Pump-3	2016	20	15	\$7,850	2036
Air Handler Unit-4/Heat Pump-4	2016	20	15	\$7,850	2036
Air Handler Unit-5/Heat Pump-5	2016	20	15	\$7,850	2036
Air Handler Unit-6/Heat Pump-6	2016	20	15	\$7,850	2036
Air Handler Unit-7/Heat Pump-7	2016	20	15	\$7,850	2036
Air Handler Unit-8/Heat Pump-8	2016	20	15	\$7,850	2036
Unit Heater-1 Apparatus Bay	2016	20	15	\$3,000	2036
Unit Heater-2 Apparatus Bay	2016	20	15	\$3,000	2036
Unit Heater-3 Apparatus Bay	2016	20	15	\$3,000	2036
Unit Heater-4 Apparatus Bay	2016	20	15	\$3,000	2036
Unit Heater-5 Apparatus Bay	2016	20	15	\$3,000	2036
Unit Heater-6 Apparatus Bay	2016	20	15	\$3,000	2036
Exhaust Fan-1 131-Bio Storage	2016	25	20	\$4,200	2041
Exhaust Fan-2 132 - O2 Storage	2016	25	20	\$4,200	2041
Exhaust Fan-3 133 - Storage RM #1	2016	25	20	\$4,200	2041
Exhaust Fan-4 134 - Med Storage	2016	25	20	\$4,200	2041
Exhaust Fan-5 135 - Med Restock	2016	25	20	\$4,200	2041
Exhaust Fan-6 138 - Linen Laundry	2016	25	20	\$4,200	2041
Exhaust Fan-7 140 - Dirty Laundry	2016	25	20	\$4,200	2041
Exhaust Fan-8 Apparatus Bay	2016	25	20	\$4,200	2041
Exhaust Fan-9 Apparatus Bay	2016	25	20	\$4,200	2041
					\$ 568
					\$ 568
					\$ 568
					\$ 568
					\$ 568
					\$ 568
					\$ 568
					\$ 568
					\$ 217
					\$ 217
					\$ 217
					\$ 217
					\$ 217
					\$ 217
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275
					\$ 275

Transfers to Building Systems Depreciation Fund

Description	Installation Date	Life	Remaining Life	Replacement Cost	FY Replacement
New Rescue (continued)					
Exhaust Fan-10 137 - Jan. Closet	2016	25	20	\$4,200	2041
Outside Air Unit-1/Outside Air Condensor Unit-1	2016	20	15	\$150,000	2036
Variable Refrig. Unit-1.1 125 - Bunk	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.2 126 - Bunk	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.3 127 - Bunk	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.4 128 - Bunk	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.5 Gen. Off/114-Comm	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.6 111 - 2nd Lt.	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.7 110 - Chief	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.8 107,108,109-Capt.&1st Lt.	2016	15	10	\$4,200	2031
Variable Refrig. Unit-1.9 106 - Conf	2016	15	10	\$4,200	2031
Variable Heat Pump-1	2016	15	10	\$4,500	2031
Variable Refrig. Unit-2.1/Variable Heat Pump-2	2016	15	10	\$4,700	2031
Variable Refrig. Unit-3.1/Variable Heat Pump-3	2016	15	10	\$4,700	2031
Kitchen range hood (KRH)	2016	10	5	\$10,000	2026
KRH Supply Fan	2016	10	5	\$1,500	2026
KRH Exhaust Fan	2016	10	5	\$1,500	2026
Gas Water heating system	2016	20	15	\$20,000	2036
				\$357,500	
Total Existing Equipment in Program				\$3,378,505	
					\$ 153,090

TITLE: Transfers 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 Equipment 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 720,240	\$ 720,240	\$ 720,240	\$ 720,240	\$ 720,240	\$ 3,601,200	\$ Continuing
Police	Continuing	Continuing	413,043	413,043	413,043	413,043	413,043	2,065,215	Continuing
Rescue	Continuing	Continuing	212,333	212,333	212,333	212,333	212,333	1,061,665	Continuing
Fire	Continuing	Continuing	361,625	361,625	361,625	361,625	361,625	1,808,125	Continuing
Water/Sewer Fund	Continuing	Continuing	312,677	312,677	312,677	312,677	312,677	1,563,385	Continuing
Stormwater Fund	Continuing	Continuing	2,500	2,500	2,500	2,500	2,500	12,500	Continuing
Solid Waste Fund	Continuing	Continuing	92,414	92,414	92,414	92,414	92,414	462,070	Continuing
Total Sources	Continuing	Continuing	\$ 2,114,832	\$ 10,574,160	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	2,114,832	2,114,832	2,114,832	2,114,832	2,114,832	10,574,160	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 2,114,832	\$ 10,574,160	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund						
FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	75,000	5,000	2021
FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	65,000	8,125	2021
FD-B13	Truck-Brush, Heavy Duty	2015	8	210,000	26,250	2023
FD-14	Box Truck -Special Purpose	2014	10	90,000	9,000	2024
FD-03	Truck-Ladder	2007	20	1,000,000	50,000	2027
FD-E13	Pumper	2017	10	825,000	82,500	2027
FD-C100	SUV, Full Size, w/add ons	2019	10	65,000	6,500	2029
FD-R13	SUV, Full Size, w/add ons	2019	10	65,000	6,500	2029
FD-05	Mobile Air Unit (Chasis)	2013	20	650,000	32,500	2033
FD-B11	Truck-Brush, Medium Duty	2019	15	210,000	14,000	2034
FD-E10	Pumper	2018	20	825,000	41,250	2038
FD-02	Truck-Ladder-Platform	2020	20	1,600,000	80,000	2040
		Fund Total:		\$5,680,000	\$361,625	
General Fund						
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
HT-702	Loader, Skid Steer	2008	13	45,000	3,462	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
GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
GC-801A	Tractor	1994	28	20,000	714	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, snow	2014	8	75,000	9,375	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

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund - continued						
PW-201	Sedan, Economy	2014	8	25,000	3,125	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
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
CE-701	Backhoe	2012	12	130,000	10,833	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 pkg	2015	9	195,000	21,667	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 pkg	2016	9	195,000	21,667	2025
AS-704	Loader, Compact Track	2015	10	80,000	8,000	2025
BD-404	Truck-Pickup, 1 ton 4WD, util bed	2017	8	55,000	6,875	2025
EG-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2017	8	30,000	3,750	2025
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

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund - continued						
HT-403	Truck-Pickup, F550 4WD, flatbed, snow pkg	2018	7	75,000	10,714	2025
PK-809	Ballfield Rake 3 Wheel	2017	8	25,000	3,125	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-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-701	Backhoe w/attachments	2016	10	135,000	13,500	2026
AS-502	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
AS-503	Truck-Dump, 4WD, snow pkg	2020	7	181,000	25,857	2027
CS-302	Van, Standard Cargo w/add-ons	2017	10	30,000	3,000	2027
EG-403	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2019	8	30,000	3,750	2027
GC-901	Leaf Vac w/Hopper	2017	10	32,000	3,200	2027
MP-502	Truck-Dump, Tandem, snow pkg	2020	7	195,000	27,857	2027
PW-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2019	8	30,000	3,750	2027
SD-501	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
SD-502	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
SW-501	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
TE-901	Message Board, Solar Powered	2020	7	15,000	2,143	2027
BD-405	Truck-Pickup, 1 ton 4WD, util bed	2020	8	55,000	6,875	2028
GR-401	Truck-Pickup, 1 ton 4WD, trailer	2020	8	60,000	7,500	2028
IN-101	SUV, Economy 4WD	2018	10	25,000	2,500	2028

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund - continued						
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
SW-401	Truck-Pickup, 1 ton 4WD util bed	2020	8	55,000	6,875	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
HT-503	Truck, Bucket	2019	10	132,000	13,200	2029
PW-101	Sedan, Economy Electric	2019	10	25,000	2,500	2029
CE-808	Gator Toolcat	2020	10	50,000	5,000	2030
GC-801	Tractor, 40 HP	2017	13	55,000	4,231	2030
SD-901	Vaxcavator	2018	12	90,000	7,500	2030
SW-701	Backhoe	2020	10	130,000	13,000	2030
GC-810	Turf Sprayer	2019	13	36,000	2,769	2032
AS-604	Asphalt Roller	2021	12	50,000	4,167	2033
AS-602	Asphalt Maintainer	2019	15	154,000	10,267	2034
EO-901	Trailer, Low Boy	2020	18	85,000	4,722	2038
		Fund Total:		\$6,430,050	\$720,240	
Police Fund						
PD-1307	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1308	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1309	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1310	SUV, Standard 4WD, unmarked w/add ons	2013	8	35,000	4,375	2021
PD-1311	SUV, Standard 4WD, unmarked w/add ons	2013	8	35,000	4,375	2021
PD-1312	Sedan-Unmarked	2013	8	35,000	4,375	2021
PD-1313	SUV, Hybrid-Marked w/add ons	2013	8	70,000	8,750	2021
PD-1314	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1315	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1316	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1317	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1319	SUV, Hybrid-Marked w/add ons	2013	8	70,000	8,750	2021

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Police Fund - continued						
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 ons	2014	8	35,000	4,375	2022
PD-1402	SUV, Standard 4WD, unmarked w/add ons	2014	8	35,000	4,375	2022
PD-1403	SUV, Full Size-Marked, w/add ons	2014	8	65,000	8,125	2022
PD-1408	SUV, Full Size-Marked, w/add ons	2014	8	65,000	8,125	2022
PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
PD-1404	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1405	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1406	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1407	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	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	65,000	8,125	2024
PD-1602	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1603	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1604	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1605	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	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	65,000	8,125	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	65,000	8,125	2025
PD-1706	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1707	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1708	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1709	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1710	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1711	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1712	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Police Fund - continued						
PD-1713	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1714	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1715	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1716	SUV, Full Size-Marked, w/add ons	2018	8	65,000	8,125	2026
PD-1901	SUV, Full Size-Marked, w/add ons	2019	8	65,000	8,125	2027
PD-1902	SUV, Full Size-Marked, w/add ons	2019	8	65,000	8,125	2027
PD-1903	Sedan or Caravan, Full Size, unmarked	2019	8	30,000	3,750	2027
PD-2001	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
PD-2002	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
PD-2003	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
PD-2004	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
PD-2005	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
PD-2006	SUV, Full Size-Marked, w/add ons	2020	8	65,000	8,125	2028
		Fund Total:		\$3,291,000	\$413,043	
Rescue Fund						
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-M57	Ambulance	2021	8	268,000	33,500	2029
RS-R52	Suburban, 4WD	2019	10	75,000	7,500	2029
RS-R54	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
		Fund Total:		\$2,337,000	\$212,333	
Stormwater Utility Fund						
EG-103	SUV, Economy 4WD	2016	10	25,000	2,500	2026
		Fund Total:		\$25,000	\$2,500	
Solid Waste Fund						
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

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Solid Waste Fund-continued						
WM-902	Leaf Machine	2016	8	37,000	4,625	2024
WM-903	Leaf Machine	2016	8	37,000	4,625	2024
LB-01	Leaf Boxes (6) - PW	2015	10	51,000	5,100	2025
WM-501	Truck-Dump, 4WD, snow pkg	2020	7	181,000	25,857	2027
WM-502	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
WM-503	Loader, Knuckle Boom	2018	10	156,000	15,600	2028
WM-904	Leaf Machine	2020	12	37,000	3,083	2032
		Fund Total:		\$769,000	\$92,414	
Water & Sewer Fund						
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, Tandem, non-snow	2016	9	140,000	15,556	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-702	Excavator, Heavy Track and Trailer	2016	10	275,000	27,500	2026
WA-501	Truck-Dump, Standard, snow pkg	2020	7	160,000	22,857	2027
WA-502	Truck-Dump, Tandem, snow pkg	2020	7	195,000	27,857	2027
WA-602	Roller, Utility Trench Compactor	2017	10	35,000	3,500	2027
WA-801	Mowing Tractor, Slope	2020	7	45,000	6,429	2027
SE-404	Truck-Pickup, 1 ton 4WD, util bed	2020	8	55,000	6,875	2028

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Water & Sewer Fund-continued						
SE-404A	Sewer TV System	2020	8	100,000	12,500	2028
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	130,000	10,833	2029
SE-701	Backhoe	2020	12	130,000	10,833	2032
PS-902	Sewer Pump	2020	15	74,000	4,933	2035
		Fund Total:		\$2,830,500	\$312,677	
		Grand Total:		\$21,362,550	\$2,114,833	

Capital Improvement Program

Parks and Recreation Department

TITLE: Aquatic Center - New PVC Flooring

STATUS:

PROJECT DESCRIPTION:

This project is to install a new PVC flooring around the pool deck and the locker rooms to create a better and cleaner no-slip flooring for the pool users. The current flooring material requires higher maintenance and repair creating problems for users. The pool facility was constructed in the early 90's and certain systems and features are reaching their useful life, requiring greater investment in longer term maintenance solutions.

OPERATING IMPACT: None.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Fall 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 73,500	\$	\$ 73,500	\$	\$	\$	\$	\$ 73,500	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 73,500	\$ 0	\$ 73,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 73,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	73,500		73,500					73,500	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 73,500	\$ 0	\$ 73,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 73,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Bike Park Enhancements

STATUS:

PROJECT DESCRIPTION:

This project will fund the completion of the 1st phase section of the skills park. The additional trail will add more rideable surface and additional skills components. This may include one or two additional trails. This will also fund the renovation of the existing barn to provide space for storage, program activities, gathering area and bike self-maintenance amenities.

OPERATING IMPACT: Already in operating budget.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Summer 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 41,000	\$	\$ 41,000	\$	\$	\$	\$	\$ 41,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 41,000	\$ 0	\$ 41,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 41,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	41,000		41,000					41,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 41,000	\$ 0	\$ 41,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 41,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Body on Chassis Bus

STATUS:

PROJECT DESCRIPTION:

This project will fund a new 24-passenger body on chassis bus for our outdoor and camp programs as well as other program offerings. Adding a new vehicle to the fleet provides the opportunity to expand program offerings which are outside of our main facilities.

OPERATING IMPACT: Fuel and maintenance.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2023	Fall 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 80,000	\$	\$	\$	\$	\$ 80,000	\$	\$ 80,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 80,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 80,000	\$ 0	\$ 80,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	80,000					80,000		80,000	
Contractual Services								0	
Total Uses	\$ 80,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 80,000	\$ 0	\$ 80,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Fuel and maintenance					1,000	1,000

Capital Improvement Program

Parks and Recreation Department

TITLE: Community Center Major Renovations

STATUS:

PROJECT DESCRIPTION:

The community center was constructed in 1981 and is a vital facility offering over 900 programs to more than 120,000 users annually. Although a new recreation center is envisioned, keeping the current center maintained and relevant to our citizens' expectations is critical. This project will fund major maintenance of building systems, upgrades to the entrance lobby area, bathroom/locker room upgrades as well as other activity rooms and gymnasium amenities.

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

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2022	Spring 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	1,790,000				100,000	1,690,000		1,790,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 1,790,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 1,690,000	\$ 0	\$ 1,790,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	\$ 1,790,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 1,690,000	\$ 0	\$ 1,790,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Dog Park Structure

STATUS:

PROJECT DESCRIPTION:

This project is for additional wooden structures to be constructed in the parks including but not limited to the dog park, golf course, and other parks needing additional covered structures. Structures may include standard picnic shelters, gazebos, or other similar designs appropriate for the park they are located in. .

OPERATING IMPACT: None.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2021	Summer 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 25,000	\$ 0	\$ 0	\$ 25,000	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	25,000			25,000				25,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 25,000	\$ 0	\$ 0	\$ 25,000	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Glade Road/Meadowbrook Drive Parking Lot

STATUS:

PROJECT DESCRIPTION:

This project will construct a parking lot for the users of the Brush Mountain properties. The lot is designed for both trucks and cars as well as horse trailer parking and would also connect to the trail that will connect back to Heritage Park.

OPERATING IMPACT: None.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 110,000	\$	\$	\$	\$ 110,000	\$	\$	\$ 110,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 110,000	\$ 0	\$ 0	\$ 0	\$ 110,000	\$ 0	\$ 0	\$ 110,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 15,000	\$	\$	\$	\$ 15,000	\$	\$	\$ 15,000	\$
Construction	95,000				95,000			95,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 110,000	\$ 0	\$ 0	\$ 0	\$ 110,000	\$ 0	\$ 0	\$ 110,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 a 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 gives 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 999,200	\$ 899,200	\$	\$	\$	\$ 100,000	\$	\$ 100,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 999,200	\$ 899,200	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	999,200	899,200				100,000		100,000	
Contractual Services								0	
Total Uses	\$ 999,200	\$ 899,200	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Brush Mountain Trail System

STATUS: New

PROJECT DESCRIPTION:

This project will fund the design and construction of mountain biking, hiking/running and horse trails on town-owned property along Meadowbrook Drive that encompasses Brush Mountain. These trails will be connected to the National Forest and the proposed trail/boardwalk system along Meadowbrook Drive. The trail design will be in accordance with preliminary plans received from the Brush Mountain Properties stakeholders group. The Town would anticipate that the construction be completed by a combination of contracted and volunteer labor.

This project extends the Huckleberry Trail system and provides additional access to the National Forest.

OPERATING IMPACT: Public Works will have additional maintenance requirements.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 220,000	\$	\$ 45,000	\$ 75,000	\$ 50,000	\$ 50,000	\$	\$ 220,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 220,000	\$ 0	\$ 45,000	\$ 75,000	\$ 50,000	\$ 0	\$ 0	\$ 220,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 45,000	\$	\$ 45,000	\$	\$	\$	\$	\$ 45,000	\$
Construction	175,000			75,000	50,000	50,000		175,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 220,000	\$ 0	\$ 45,000	\$ 75,000	\$ 50,000	\$ 50,000	\$ 0	\$ 220,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

TITLE: Meadowbrook Drive Greenway Extension

STATUS:

PROJECT DESCRIPTION:

This project will fund the design and construction of a trail adjacent to Meadowbrook Drive that will connect the Heritage Park Trail/Parking Area along Meadowbrook Drive to the proposed trail system to be constructed on two properties currently owned by the New River Land Trust. The plans for the New River Land Trust properties include the construction of mountain biking, hiking and horse trails that will connect to the National Forest trail system. These properties will be donated to the Town. The necessary greenway easements have been obtained from the private property owners.

This trail will be constructed adjacent to Meadowbrook Drive and consist of a ten foot wide asphalt path and boardwalk. The construction will begin at the Heritage Park Trail and extend to the intersection of Meadowbrook Drive and Glade Road. There are known wetlands along this location and in order to cross these areas in an environmentally-sensitive manner, boardwalk construction is proposed.

This project extends the Huckleberry Trail system and provides users access to the variety of new trails to be constructed on Brush Mountain.

OPERATING IMPACT: Public Works will have additional maintenance requirements.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2024	Winter 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	1,805,000					165,000	1,640,000	1,805,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 1,805,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 165,000	\$ 1,640,000	\$ 1,805,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 165,000	\$	\$	\$	\$	\$ 165,000	\$	\$ 165,000	\$
Construction	1,640,000						1,640,000	1,640,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 1,805,000	\$ 0	\$ 165,000	\$ 0	\$ 0	\$ 165,000	\$ 1,640,000	\$ 1,805,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Municipal Park Tennis Court Resurfacing

STATUS: Previously Included

PROJECT DESCRIPTION:

This project is to install new surfacing and lines to our tennis courts. The courts are starting to crack and fade. The new surfacing will have better grip and better ball bounce and provide a safe environment and meet USTA standards.

OPERATING IMPACT: None.

GOAL ADDRESSED: Ensure Blacksburg’s parks and recreation legacy that gives 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 65,000	\$	\$	\$	\$ 65,000	\$	\$	\$ 65,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 65,000	\$ 0	\$ 0	\$ 0	\$ 65,000	\$ 0	\$ 0	\$ 65,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	65,000				65,000			65,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 65,000	\$ 0	\$ 0	\$ 0	\$ 65,000	\$ 0	\$ 0	\$ 65,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Park Restrooms

STATUS: In Progress

PROJECT DESCRIPTION:

This project continues the restroom replacement program for the older three-season facilities in our park system. The new restrooms are year round facilities with heat to allow them to stay open in the winter season. This expands the useful time our parks are open and inviting to users with full facilities.

Upcoming bathroom include:

FY2023 Tom’s Creek Restroom

OPERATING IMPACT: Utility costs for new restrooms.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 700,000	\$ 450,000	\$	\$	\$ 250,000	\$	\$	\$ 0	\$ 0
General Obligation Bonds								250,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 700,000	\$ 450,000	\$ 0	\$ 0	\$ 250,000	\$ 0	\$ 0	\$ 250,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 700,000	\$ 450,000	\$	\$	\$ 250,000	\$	\$	\$ 0	\$
Construction								250,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 700,000	\$ 450,000	\$ 0	\$ 0	\$ 250,000	\$ 0	\$ 0	\$ 250,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Utilities			2,100	2,200	2,300	6,600

Capital Improvement Program

Parks and Recreation Department

TITLE: Picnic Shelter Replacement/Expansion

STATUS: In Progress

PROJECT DESCRIPTION:

This 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 Tom's Creek Park in FY2022.

OPERATING IMPACT: None.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2027	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 175,000	\$ 150,000	\$	\$ 25,000	\$	\$	\$	\$ 25,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 175,000	\$ 150,000	\$ 0	\$ 25,000	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	175,000	150,000		25,000				25,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 175,000	\$ 150,000	\$ 0	\$ 25,000	\$ 0	\$ 0	\$ 0	\$ 25,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Parks and Recreation Department

TITLE: Transfer to Playground Depreciation

STATUS: Continuing

PROJECT DESCRIPTION:

This fund establishes a replacement account to depreciate the playground equipment over a 20-year period. This allows for 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 gives life and vibrancy to our community.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 35,000	\$ 175,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	Continuing	Continuing	\$ 35,000	\$ 175,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Engineering and GIS Department

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 FY2022/2023. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 60,000	\$	\$ 37,000	\$	\$	\$ 97,000	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 60,000	\$ 0	\$ 37,000	\$ 0	\$ 0	\$ 97,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 60,000	\$	\$ 37,000	\$	\$	\$ 97,000	Continuing
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 60,000	\$ 0	\$ 37,000	\$ 0	\$ 0	\$ 97,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

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 for construction funding.

OPERATING IMPACT: Public Works will have additional maintenance costs.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2019	Spring 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$ 100,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	5,040,500		245,000			4,795,500		5,040,500	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 5,140,500	\$ 100,000	\$ 245,000	\$ 0	\$ 0	\$ 4,795,500	\$ 0	\$ 5,040,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	\$ 5,140,500	\$ 100,000	\$ 245,000	\$ 0	\$ 0	\$ 4,795,500	\$ 0	\$ 5,040,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

TITLE: Industrial Park Trail and Sidewalk System Design and Construction

STATUS: Previously Included

PROJECT DESCRIPTION:

This project is intended to design and construct 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. An estimated 7,250 linear feet of new facility is needed to complete the network. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 84,000	\$	\$	\$ 84,000	\$	\$	\$	\$ 84,000	\$ 0
General Obligation Bonds	525,000					100,000	425,000	525,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 609,000	\$ 0	\$ 0	\$ 84,000	\$ 0	\$ 100,000	\$ 425,000	\$ 609,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 84,000	\$	\$	\$ 84,000	\$	\$	\$	\$ 84,000	\$
Construction	525,000					100,000	425,000	525,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 609,000	\$ 0	\$ 0	\$ 84,000	\$ 0	\$ 100,000	\$ 425,000	\$ 609,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

TITLE: Neighborhood Traffic Studies

STATUS:

PROJECT DESCRIPTION:

There have been several rezonings approved that could potentially generate traffic that impact conditions in adjacent residential neighborhoods. These are off-site impacts that the developer cannot be required to provide mitigation measures. Typically, traffic calming measures may be installed to mitigate the impacts of the developments. This project will fund traffic studies to collect the necessary data (traffic counts and speed studies) to evaluate the traffic impacts, determine the appropriate traffic calming measures to be installed (if necessary), and provide construction funding for their installation. This process will include conducting neighborhood meetings with the residents to obtain input and concurrence on the mitigation measures.

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 2021	Spring 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 85,000	\$	\$ 35,000	\$	\$ 25,000	\$ 25,000	\$	\$ 85,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 85,000	\$ 0	\$ 35,000	\$ 0	\$ 25,000	\$ 25,000	\$ 0	\$ 85,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 35,000	\$	\$ 35,000	\$	\$	\$	\$	\$ 35,000	\$
Construction	50,000				25,000	25,000		50,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 85,000	\$ 0	\$ 35,000	\$ 0	\$ 25,000	\$ 25,000	\$ 0	\$ 85,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Retracement Survey - Blacksburg Corporate Line

STATUS:

PROJECT DESCRIPTION:

This project will review and confirm the Corporate Boundary of the Town. The need for this project became apparent due to a developer's question concerning the accuracy of the Town's corporate line. The largest corporate boundary adjustment by the Town occurred in 1973 and the boundary has been adjusted on several occasions since then. The purpose of this project is to retrace existing boundary for accuracy and to locate monuments that were set during previous boundary adjustments. In order to accomplish this, a high-order field survey of the corporate boundary is required. In addition to the survey, new monuments will be set where needed and existing monuments re-set if they cannot be located in the field. The final product will be reviewed with the appropriate Montgomery County officials and recorded, thereby establishing the legal Corporate Line for the Town.

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
Fall 2020	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$	\$	\$ 100,000	\$	\$	\$	\$ 100,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 100,000	\$	\$	\$ 100,000	\$	\$	\$	\$ 100,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 100,000	\$ 0	\$ 0	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 15,000	\$ 75,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	Continuing	Continuing	\$ 15,000	\$ 75,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Streelight Installation

STATUS: Continuing

PROJECT DESCRIPTION:

This project is to fund the installation of new streetlights when requested by citizens that 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 5,000	\$ 25,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Total Uses	Continuing	Continuing	\$ 5,000	\$ 25,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Toms Creek Road Traffic Study

STATUS: Previously Included

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
Winter 2020	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 200,000	\$ 0	\$ 0	\$ 200,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 200,000	\$	\$	\$	\$ 200,000	\$	\$	\$ 200,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 200,000	\$ 0	\$ 0	\$ 200,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Town-wide Transportation System

STATUS: New

PROJECT DESCRIPTION:

The purpose of this study is to develop a strategic view to establish priorities that best manage the use of our road network to include vehicles, bicycles, scooters, pedestrians and other modes. This will focus on the arterial and collector roads serving as the backbone to the transportation network of the town.

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	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 300,000	\$	\$ 200,000	\$ 100,000	\$	\$	\$	\$ 300,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 300,000	\$ 0	\$ 200,000	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 300,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2019	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	300,000		200,000	100,000				300,000	
Total Uses	\$ 300,000	\$ 0	\$ 200,000	\$ 100,000	\$ 0	\$ 0	\$ 0	\$ 300,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Traffic Signal and Timing Counts

STATUS: In Progress

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
Spring 2020	Fall 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 119,100	\$ 19,600	\$ 21,500	\$ 25,500	\$ 21,500	\$ 31,000	\$	\$ 99,500	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 119,100	\$ 19,600	\$ 21,500	\$ 25,500	\$ 21,500	\$ 31,000	\$ 0	\$ 99,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 119,100	\$ 19,600	\$ 21,500	\$ 25,500	\$ 21,500	\$ 31,000	\$	\$ 99,500	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 119,100	\$ 19,600	\$ 21,500	\$ 25,500	\$ 21,500	\$ 31,000	\$ 0	\$ 99,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Bicycle Facility Implementation Plan
STATUS: Previously Included
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 2020	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 150,000	\$ 0	\$ 150,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 150,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2019	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	150,000		150,000					150,000	
Total Uses	\$ 150,000	\$ 0	\$ 150,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 150,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			30,000	30,000	30,000	30,000	30,000	150,000	0
Total Sources	Continuing	Continuing	\$ 60,000	\$ 300,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 60,000	60,000	60,000	60,000	60,000	0	
Construction	Continuing	Continuing	60,000	60,000	60,000	60,000	60,000	300,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 60,000	\$ 300,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			15,000	15,000	15,000	15,000	15,000	75,000	0
Total Sources	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 30,000	30,000	30,000	30,000	30,000	\$ 0	
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 30,000	\$ 150,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						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 received funds for 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			325,000	325,000	325,000	325,000	325,000	1,625,000	0
Total Sources	Continuing	Continuing	\$ 650,000	\$ 3,250,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 0	
Construction	Continuing	Continuing	650,000	650,000	650,000	650,000	650,000	3,250,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 650,000	\$ 3,250,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			10,000	10,000	10,000	10,000	10,000	50,000	0
Total Sources	Continuing	Continuing	\$ 20,000	\$ 100,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 0	
Construction	Continuing	Continuing	20,000	20,000	20,000	20,000	20,000	100,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 20,000	\$ 100,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

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 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			100,000	100,000	100,000	100,000	100,000	500,000	0
Total Sources	Continuing	Continuing	\$ 200,000	\$ 1,000,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 0	
Construction	Continuing	Continuing	200,000	200,000	200,000	200,000	200,000	1,000,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 200,000	\$ 1,000,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 2½ inches. Trip hazard removal projects bring sidewalks into compliance with the Town's ADA Transition planning at a lower cost than full replacement. This project is eligible for a VDOT Revenue Sharing match.

OPERATING IMPACT: None.

GOAL ADDRESSED: Provide safe 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing			12,500	12,500	12,500	12,500	12,500	62,500	0
Total Sources	Continuing	Continuing	\$ 25,000	\$ 125,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 0	
Construction	Continuing	Continuing	25,000	25,000	25,000	25,000	25,000	125,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 25,000	\$ 125,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Clay Street Sidewalk and Roadway Improvements

STATUS: Previously Included

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 2,600 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 2020	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 150,000	\$ 150,000	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	550,000				550,000			550,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing	550,000				550,000			550,000	0
Total Sources	\$ 1,250,000	\$ 150,000	\$ 0	\$ 0	\$ 1,100,000	\$ 0	\$ 0	\$ 1,100,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 150,000	\$ 150,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	1,100,000				1,100,000			1,100,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 1,250,000	\$ 150,000	\$ 0	\$ 0	\$ 1,100,000	\$ 0	\$ 0	\$ 1,100,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined at construction						0

TITLE: Harding Avenue Stormwater and Pedestrian Project

STATUS: Previously Included

PROJECT DESCRIPTION:

This project provides funding to correct serious 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 FY2021 is maintained at an appropriate level to address the preliminary engineering, survey & design and right of way acquisition for this project. Funding for FY2022 is construction and project management. VDOT revenue sharing funding is being pursued for 50% of the project costs. Once the formal engineering design and right of way are completed, the construction for these projects will continue as funding becomes available. VDOT Revenue sharing funds have been approved for the current funded portions and additional Revenue Sharing is being pursued for the future construction in FY2022.

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 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 210,000	\$	\$ 210,000	\$	\$	\$	\$	\$ 210,000	\$ 0
General Obligation Bonds	776,900			776,900				776,900	0
Water/Sewer Fund								0	0
Stormwater Fund	507,600	125,000		382,600				382,600	0
VDOT Revenue Sharing	1,494,500	125,000	210,000	1,159,500				1,369,500	0
Total Sources	\$ 2,989,000	\$ 250,000	\$ 420,000	\$ 2,319,000	\$ 0	\$ 0	\$ 0	\$ 2,739,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 670,000	\$ 250,000	\$ 420,000	\$	\$	\$	\$	\$ 420,000	\$
Construction	2,319,000			2,319,000				2,319,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 2,989,000	\$ 250,000	\$ 420,000	\$ 2,319,000	\$ 0	\$ 0	\$ 0	\$ 2,739,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

Capital Improvement Program

TITLE: Huckleberry Trail Bridge - Sheffield Drive

STATUS: Previously Included

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 costs and EGIS will have additional inspection costs.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	2,000,000						2,000,000	2,000,000	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing	2,000,000						2,000,000	2,000,000	0
Total Sources	\$ 4,000,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$4,000,000	\$ 4,000,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	4,000,000						4,000,000	4,000,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 4,000,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	\$4,000,000	\$ 4,000,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

TITLE: Old Blacksburg Middle School Cycle Track

STATUS: Previously Included

PROJECT DESCRIPTION:

This project includes the 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. The work will include clearing, grading, curb and gutter, storm drainage, entrances, pavement and striping. 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. Design is not included as it is to be included in the OBMS redevelopment infrastructure site plan.

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
Spring 2021	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 350,000	\$	\$ 200,000	\$ 150,000	\$	\$	\$	\$ 350,000	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing	350,000		200,000	150,000				350,000	0
Total Sources	\$ 700,000	\$ 0	\$ 400,000	\$ 300,000	\$ 0	\$ 0	\$ 0	\$ 700,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction	700,000		400,000	300,000				700,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 700,000	\$ 0	\$ 400,000	\$ 300,000	\$ 0	\$ 0	\$ 0	\$ 700,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

TITLE: Countryside Estates Stormwater Improvement Project

STATUS: Previously Included

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 2023 is maintained at an appropriate level to address the engineering design and construction for this project. Currently the road drainage is exiting in 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 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 2022	Spring 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	167,000				167,000			167,000	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 167,000	\$ 0	\$ 0	\$ 0	\$ 167,000	\$ 0	\$ 0	\$ 167,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 35,000	\$	\$	\$	\$ 35,000	\$	\$	\$ 35,000	\$
Construction	132,000				132,000			132,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 167,000	\$ 0	\$	\$ 0	\$ 167,000	\$ 0	\$ 0	\$ 167,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Draper Road/Miller Street Box Culvert Replacement

STATUS: Previously Included

PROJECT DESCRIPTION:

The box culvert that runs along Miller Street and Draper Street that daylights 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 behind the old Police Station and in front of the Five Chimneys building.

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 2023	Spring 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	222,500					30,000	192,500	222,500	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 222,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 30,000	\$ 192,500	\$ 222,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	\$ 222,500	\$ 0	\$	\$ 0	\$ 0	\$ 30,000	\$ 192,500	\$ 222,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Penn Street Drainage Improvement Project

STATUS: Previously Included

PROJECT DESCRIPTION:

This project provides funding to correct serious 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 through FY2024 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 2023	Spring 2024

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	417,500	25,000		145,000	247,500			392,500	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 417,500	\$ 25,000	\$ 0	\$ 145,000	\$ 247,500	\$ 0	\$ 0	\$ 392,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 170,000	\$ 25,000	\$	\$ 145,000	\$	\$	\$	\$ 145,000	\$
Construction	247,500				247,500			247,500	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 417,500	\$ 25,000	\$	\$ 145,000	\$ 247,500	\$ 0	\$ 0	\$ 392,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined after construction						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Progress Street and North Main Improvement Study

STATUS: Previously Included

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.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2022	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	50,000			50,000				50,000	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 50,000	\$ 0	\$ 0	\$ 50,000	\$ 0	\$ 0	\$ 0	\$ 50,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$	\$	\$ 50,000	\$	\$	\$	\$ 50,000	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 50,000	\$ 0	\$	\$ 50,000	\$ 0	\$ 0	\$ 0	\$ 50,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Stormwater 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, stormwater facility retrofits to enhance water quality benefits, watershed studies to determine long term improvements to address TMDL requirements.

Funding in FY2020 through FY2023 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:

- 2021 Scott Alan Circle Stream Restoration Design
- 2022 Toms Creek Stream Restoration Design
- 2023 Maple Ridge Stormwater Pond Improvements

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
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund			\$	\$	\$	\$	\$	\$ 0	
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	Continuing	Continuing	50,000	50,000	50,000	50,000	50,000	250,000	Continuing
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 50,000	\$ 250,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	50,000	50,000	50,000	50,000	50,000	250,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 50,000	\$ 250,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined at construction						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Stormwater 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, stormwater 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
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund			\$	\$	\$	\$	\$	\$ 0	
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund	Continuing	Continuing	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 10,000	\$ 50,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	Continuing	Continuing	\$ 10,000	\$ 50,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

TITLE: Webb Street Drainage Improvement Project

STATUS: Previously Included

PROJECT DESCRIPTION:

This project provides funding to correct serious 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 times sensitive components to the project, labor and equipment will be covered by this funding source.

Funding in FY2020 through FY2022 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 2021	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$ 450,000	\$	\$	\$ 450,000	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								450,000	0
Water/Sewer Fund								0	0
Stormwater Fund	85,000	25,000	60,000					60,000	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 535,000	\$ 25,000	\$ 60,000	\$ 450,000	\$ 0	\$ 0	\$ 0	\$ 510,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 85,000	\$ 25,000	\$ 60,000	\$	\$	\$	\$	\$ 60,000	\$
Construction	450,000			450,000				450,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 535,000	\$ 25,000	\$ 60,000	\$ 450,000	\$ 0	\$ 0	\$ 0	\$ 510,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
To be determined at construction						0

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 FY2015 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 205,000	\$ 1,025,000	Continuing				

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	Continuing	Continuing	\$ 205,000	\$ 1,025,000	Continuing				

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget	0					0

Capital Improvement Program

Finance Department

TITLE: Radio Read Vehicle Transceiver Unit (VXU) Replacement / Upgrade

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 FY2019. 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 2025	Summer 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund			\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing					40,000	40,000	Continuing
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 0	\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 40,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing					40,000	40,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 0	\$ 0	\$ 0	\$ 0	\$ 40,000	\$ 40,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget	0					0

Capital Improvement Program

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 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	900,000	260,000	200,000	200,000	240,000			640,000	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 900,000	\$ 260,000	\$ 200,000	\$ 200,000	\$ 240,000	\$ 0	\$ 0	\$ 640,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 180,000	\$ 180,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	720,000	80,000	200,000	200,000	240,000			640,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 900,000	\$ 260,000	\$ 200,000	\$ 200,000	\$ 240,000	\$ 0	\$ 0	\$ 640,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Force Main Relocation for Givens Pump Station

STATUS: In Progress

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 936,000	\$ 209,000	\$ 0	\$ 727,000	\$ 0	\$ 0	\$ 0	\$ 727,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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	
Total Uses	\$ 936,000	\$ 209,000	\$ 0	\$ 727,000	\$ 0	\$ 0	\$ 0	\$ 727,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Harding Avenue Sewershed Upgrades

STATUS:

PROJECT DESCRIPTION:

This project includes the replacement of approximately 3,800 linear feet of sewer line identified as being over capacity and in poor condition due to age. There is over 3,500 linear feet of sewer pipe that is currently over capacity and must be upgraded. These lines are in the vicinity of Patrick Henry Drive, Lucas Drive, Linkous Circle, Owens Park, Harding Elementary and College Avenue. An additional 275 feet of sewer pipe will also be replaced to facilitate restoration and improvement of a stormwater facility near Linkous Circle. The funding for FY2021 includes design of the project and the funding for FY2022 includes all construction.

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 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	2,567,700		187,500	2,380,200				2,567,700	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 2,567,700	\$ 0	\$ 187,500	\$ 2,380,200	\$ 0	\$ 0	\$ 0	\$ 2,567,700	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 187,500	\$	\$ 187,500	\$	\$	\$	\$	\$ 187,500	\$
Construction	2,380,200			2,380,200				2,380,200	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 2,567,700	\$ 0	\$ 187,500	\$ 2,380,200	\$ 0	\$ 0	\$ 0	\$ 2,567,700	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Neil Street Water Pump Station

STATUS: Previously Included

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
Spring 2022	Fall 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	530,800			175,000	355,800			530,800	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 530,800	\$ 0	\$ 0	\$ 175,000	\$ 355,800	\$ 0	\$ 0	\$ 530,800	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 175,000	\$ 50,000	\$	\$ 175,000	\$	\$	\$	\$ 175,000	\$
Construction	355,800				355,800			355,800	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 530,800	\$ 50,000	\$ 0	\$ 175,000	\$ 355,800	\$ 0	\$ 0	\$ 530,800	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Utility Costs				5,000	5,000	10,000

Capital Improvement Program

Engineering and GIS Department

TITLE: North Main Street Gravity Sewer Replacement

STATUS: In Progress

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 FY2021 are for upgrading of sections of main 281 linear feet downstream and 340 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	433,200		433,200					433,200	0
Water/Sewer Fund	425,374	425,374						0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 858,574	\$ 425,374	\$ 433,200	\$ 0	\$ 0	\$ 0	\$ 0	\$ 433,200	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 97,000	\$ 51,000	\$ 46,000	\$	\$	\$	\$	\$ 46,000	\$
Construction	761,574	374,374	387,200					387,200	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 858,574	\$ 425,374	\$ 433,200	\$ 0	\$ 0	\$ 0	\$ 0	\$ 433,200	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

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 FY2020 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 FY2021 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	925,050	700,565	224,500					224,500	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 925,050	\$ 700,565	\$ 224,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 224,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 181,220	\$ 141,570	\$ 39,650	\$	\$	\$	\$	\$ 39,650	\$
Construction	743,850	558,995	184,850					184,850	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 925,070	\$ 700,565	\$ 224,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 224,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: South Main/Cedar Run Sewer Upgrades

STATUS:

PROJECT DESCRIPTION:

This project includes the replacement of approximately 5000 linear feet of sewer line identified as being over capacity and in poor condition due to age. These lines are in the vicinity of South Main Street, Ellett Road and the Cedar Run Pump Station. The funding for FY21 includes design of the project and the funding for FY22 includes all construction.

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 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds	3,000,000			3,000,000				3,000,000	0
Water/Sewer Fund	275,000	275,000						0	0
Storm Water Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 3,275,000	\$ 275,000	\$ 0	\$ 3,000,000	\$ 0	\$ 0	\$ 0	\$ 3,000,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 275,000	\$ 275,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	3,000,000			3,000,000				3,000,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 3,275,000	\$ 275,000	\$ 0	\$ 3,000,000	\$ 0	\$ 0	\$ 0	\$ 3,000,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

TITLE: Town-wide Sanitary Sewer Model Update

STATUS: Previously Included

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	101,500					101,500		101,500	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 101,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 101,500	\$ 0	\$ 101,500	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 101,500	\$	\$	\$	\$	\$ 101,500	\$	\$ 101,500	\$
Construction								0	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 101,500	\$ 0	\$ 0	\$ 0	\$ 0	\$ 101,500	\$ 0	\$ 101,500	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

Engineering and GIS Department

TITLE: Water Tank Inspections

STATUS: Previously Included

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 55,000	\$ 0	\$ 55,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 55,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment								0	
Contractual Services	55,000		55,000					55,000	
Total Uses	\$ 55,000	\$ 0	\$ 55,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 55,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

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.

1. Alleghany Waver 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.
2. 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.
3. North Main Water Tank: Professional Services to manage the movement of cellular phone towers before maintenance of that water tower.

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	Fall 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	1,545,400	810,000		585,400			150,000	735,400	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 1,545,400	\$ 810,000	\$ 0	\$ 585,400	\$ 0	\$ 0	\$ 150,000	\$ 735,400	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 200,000	\$ 25,000	\$	\$ 25,000	\$	\$	\$ 150,000	\$ 175,000	\$
Construction	1,345,350	785,000		560,400				560,400	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 1,545,350	\$ 810,000	\$ 0	\$ 585,400	\$ 0	\$ 0	\$ 150,000	\$ 735,400	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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. The FY2021 requests additional funds to procure Engineering services to identify system wide critical valves to allow for more efficient isolation of the water distribution network when field crews respond to water breaks.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing	70,000	30,000	30,000	30,000	30,000	190,000	Continuing
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 70,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 190,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$ 40,000	\$	\$	\$	\$	\$ 40,000	
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 70,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 190,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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.

Funding is not included in FY2021 due to the back log of work that is scheduled to be done and changes to lining contracts.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 0	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,000,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Total Uses	Continuing	Continuing	\$ 0	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,000,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$ 0
General Obligation Bonds								0	0
Water/Sewer Fund	Continuing	Continuing	170,200	375,700	342,400			888,300	Continuing
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 170,200	\$ 375,700	\$ 342,400	\$ 0	\$ 0	\$ 888,300	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	
Construction	Continuing	Continuing	170,200	375,700	342,400			888,300	Continuing
Equipment								0	
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 170,200	\$ 375,700	\$ 342,400	\$ 0	\$ 0	\$ 888,300	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

TITLE: BT Access Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a replacement/expansion program for the fleet associated with this service in Blacksburg, which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for paratransit vehicle replacement/expansion is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2021	Body on Chassis	2	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	3	Replacement
FY2024	None Scheduled		
FY2025	Body on Chassis	3	Replacement

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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 208,000	\$	\$ 323,200	\$	\$ 342,400	\$ 873,600	Continuing
State Funds	Continuing	Continuing	26,000		40,400		42,800	109,200	Continuing
Local Funds	Continuing	Continuing	26,000		40,400		42,800	109,200	Continuing
Total Sources	Continuing	Continuing	\$ 260,000	\$ 0	\$ 404,000	\$ 0	\$ 428,000	\$ 1,092,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	260,000		404,000		428,000	1,092,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 260,000	\$ 0	\$ 404,000	\$ 0	\$ 428,000	\$ 1,092,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

TITLE: Bus Pull-Offs

STATUS: New

PROJECT DESCRIPTION:

Pull-offs allow buses to pick up and drop off passengers without blocking travel lanes. Pull-offs are most appropriate at high volume bus stops and on busy streets to improve safety for bus riders, bike riders, and automobile drivers. The planned projects include new pull-offs and extensions of existing pull-offs to accommodate 60-foot long buses.

<u>Year</u>	<u>Description</u>
FY21	Patrick Henry Drive between Progress St. and Mary Jane Circle, EB, Stop #1433 - New
FY22	Patrick Henry Drive at Toms Creek, EB, Stop #1323 - Extension Patrick Henry Drive at Progress St., EB, Stop #1325 - Extension
FY23	Progress St. at Hunt Club Road, SB, Stop #1326 - New
FY24	Seneca Circle and Patrick Henry Drive, SB, Stop #1415 - New
FY25	Toms Creek at Hunt Club Road, SB, Stop #1338 - New

As with all Transit capital projects, if grants are unavailable the project may be deferred.

OPERATING IMPACT: Negligible impact on operating budget.

GOAL ADDRESSED: Proactively plan for Virginia Tech’s announced growth in enrollment.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2020	Summer 2025

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	\$ 325,600	\$	\$ 69,600	\$ 60,000	\$ 64,000	\$ 64,000	\$ 68,000	\$ 325,600	\$
State Funds	40,700		8,700	7,500	8,000	8,000	8,500	40,700	
Local Funds	40,700		8,700	7,500	8,000	8,000	8,500	40,700	
Total Sources	\$ 407,000	\$ 0	\$ 87,000	\$ 75,000	\$ 80,000	\$ 80,000	\$ 85,000	\$ 407,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 79,000	\$	\$ 15,000	\$ 15,000	\$ 16,000	\$ 16,000	\$ 17,000	\$ 79,000	\$
Construction	328,000		72,000	60,000	64,000	64,000	68,000	328,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 407,000	\$ 0	\$ 87,000	\$ 75,000	\$ 80,000	\$ 80,000	\$ 85,000	\$ 407,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

TITLE: Christiansburg Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a replacement/expansion program for the fleet associated with this service for Christiansburg which meets customer demand and is consistent with local, state and federal regulations. The proposed schedule for vehicle replacement/expansion is as follows:

Year	Description	Number	Type
FY2021	Body on Chassis	4	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	1	Replacement
FY2024	Body on Chassis	2	Replacement
FY2025	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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 442,400	\$	\$ 117,600	\$ 300,800	\$ 248,800	\$ 1,109,600	Continuing
State Funds	Continuing	Continuing	55,300		14,700	37,800	31,100	138,900	Continuing
Local Funds	Continuing	Continuing	55,300		14,700	37,800	31,100	138,900	Continuing
Total Sources	Continuing	Continuing	\$ 553,000	\$ 0	\$ 147,000	\$ 376,400	\$ 311,000	\$ 1,387,400	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	553,000		147,000	376,400	311,000	1,387,400	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 553,000	\$ 0	\$ 147,000	\$ 376,400	\$ 311,000	\$ 1,387,400	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

TITLE: Christiansburg Shelters and Amenities Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding for bus stop improvements 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>
FY2021	Shelters at Electric/Fisher St EB and Spradlin Farm WB	2	New
FY2022	Shelter at Farmview/Ridinger EB	1	New
	Bus Stop Improvements at Roanoke/Hungate WB	1	Improvement
FY2023	Shelter at Roanoke/Evans EB	1	New
	Bus Stop Improvements at Radford St/College St EB	1	Improvement
FY2024	Shelters at Christiansburg Town Hall WB and Cambria/Church NB	2	New
FY2025	Shelter at DMV on Arbor NB	1	New
	Bus Stop Improvements at Roanoke/First EB	1	Improvement

As with all Transit capital projects, if grants are unavailable the project may be deferred.

OPERATING IMPACT: Negligible impact on operating budget for the phase.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 19,200	\$ 11,200	\$ 12,800	\$ 20,000	\$ 12,800	\$ 76,000	Continuing
State Funds	Continuing	Continuing	2,400	1,400	1,600	2,500	1,600	9,500	Continuing
Local Funds	Continuing	Continuing	2,400	1,400	1,600	2,500	1,600	9,500	Continuing
Total Sources	Continuing	Continuing	\$ 24,000	\$ 14,000	\$ 16,000	\$ 25,000	\$ 16,000	\$ 95,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	24,000	14,000	16,000	25,000	16,000	95,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 24,000	\$ 14,000	\$ 16,000	\$ 25,000	\$ 16,000	\$ 95,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Transit Department

TITLE: Fare Automation System

STATUS: In Progress

PROJECT DESCRIPTION:

The portion of this project planned for FY2022 includes 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. In FY2020 Transit will develop technical specifications for offering an electronic fare payment for the general public, Implementation planned for FY2022.

Year	Description
FY2022	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 the phase.

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	Summer 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$	\$ 160,000	\$	\$	\$	\$ 160,000	Continuing
State Funds	Continuing	Continuing		20,000				20,000	Continuing
Local Funds	Continuing	Continuing		20,000				20,000	Continuing
Total Sources	Continuing	Continuing	\$ 0	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 200,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	535,687	355,687		200,000				200,000	Continuing
Contractual Services								0	
Total Uses	535,687	355,687	\$ 0	\$ 200,000	\$ 0	\$ 0	\$ 0	\$ 200,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

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>
FY2021	Bus Charging Unit	1	On-route vehicle charger to support electric bus program
FY2022	40' / 60' Buses	19 / 2	Replacement / Replacement
FY2023	40' / 60' Buses	2 / 2	Expansion / Replacement
FY2024	40' / 60' Buses	4 / 1	Replacement / Expansion
FY2025	40' / 60' buses	4 / 2	Replacement / Replacement

Each bus purchase includes a spare parts package and other required components. Infrastructure related to electric buses is also included as appropriate. Costs are based on diesel bus prices. If adequate funding is available, electric buses will be substituted for diesel buses. 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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 580,000	\$11,738,400	\$2,895,200	\$ 3,244,800	\$ 4,011,200	\$ 22,469,600	Continuing
State Funds	Continuing	Continuing	72,500	1,467,300	361,900	405,600	501,400	2,808,700	Continuing
Local Funds	Continuing	Continuing	72,500	1,467,300	361,900	405,600	501,400	2,808,700	Continuing
Total Sources	Continuing	Continuing	\$ 725,000	\$ 14,673,000	\$ 3,619,000	\$ 4,056,000	\$ 5,014,000	\$ 28,087,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction									
Equipment	Continuing	Continuing	725,000	14,673,000	3,619,000	4,056,000	5,014,000	28,087,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 725,000	\$ 14,673,000	\$ 3,619,000	\$ 4,056,000	\$ 5,014,000	\$ 28,087,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

TITLE: ITS System Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Intelligent Transportation Systems (ITS) 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>
FY2021	Customer Information Systems upgrade
FY2022	Customer Information Systems upgrade and On-Board Systems update
FY2023	Wireless Data Collection Upgrades and Advanced Traffic Management System (ATMS)
FY2024	Simulator Upgrade and ATMS
FY2025	Customer Information Systems upgrade 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: 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 160,000	\$ 400,000	\$ 480,000	\$ 400,000	\$ 328,000	\$ 1,768,000	Continuing
State Funds	Continuing	Continuing	20,000	50,000	60,000	50,000	41,000	221,000	Continuing
Local Funds	Continuing	Continuing	20,000	50,000	60,000	50,000	41,000	221,000	Continuing
Total Sources	Continuing	Continuing	\$ 200,000	\$ 500,000	\$ 600,000	\$ 500,000	\$ 410,000	\$ 2,210,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	200,000	500,000	600,000	500,000	410,000	2,210,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 200,000	\$ 500,000	\$ 600,000	\$ 500,000	\$ 410,000	\$ 2,210,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Maintenance agreement	10,000	10,000	11,000	11,000	11,000	53,000

Capital Improvement Program

TITLE: Other Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a replacement/expansion program for services not associated with Virginia Tech or Christiansburg 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>
FY2021	Body on Chassis	4	Two Replacement and Two Expansion
FY2022	None Scheduled		
FY2023	None Scheduled		
FY2024	None Scheduled		
FY2025	None Scheduled		

As with all Transit capital projects, if grants are unavailable the project may be deferred.

OPERATING IMPACT: Vehicles for planned Blacksburg neighborhood service. Bus Operators and vehicle maintenance costs will be paid by grants.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 456,800	\$	\$	\$	\$	\$ 456,800	Continuing
State Funds	Continuing	Continuing	57,100					57,100	Continuing
Local Funds	Continuing	Continuing	57,100					57,100	Continuing
Total Sources	Continuing	Continuing	\$ 571,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 571,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	571,000					571,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 571,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 571,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Personnel and fuel paid by grant	200,000	210,000	215,000	220,000	225,000	1,070,000

Capital Improvement Program

TITLE: Radio Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a maintenance and expansion program for digital two way radios which includes updating equipment to maintain functionality and remain current with advancements in technology. The proposed schedule for radio equipment is as follows:

<u>Year</u>	<u>Description</u>
FY2021	Eight portable radios, one multi-unit charger, three mobile radios with speakers and microphones, one internet protocol (IP) unit and seven power supplies.
FY2022	Four mobile radios, ten portable radios, seven remote speaker microphones, one multi-unit charger, one desk tray speaker, two power supplies, and an antenna.
FY2023	Eleven portable radios with remote speaker microphones.
FY2024	Ten portable radios, three remote speaker microphones, one multi-unit charger and a power supply.
FY2025	Three Power supplies, ten portable radios. one multi-unit charger and one radio recorder.

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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 12,000	\$ 14,400	\$ 9,600	\$ 9,600	\$ 26,400	\$ 72,000	Continuing
State Funds	Continuing	Continuing	1,500	1,800	1,200	1,200	3,300	9,000	Continuing
Local Funds	Continuing	Continuing	1,500	1,800	1,200	1,200	3,300	9,000	Continuing
Total Sources	Continuing	Continuing	\$ 15,000	\$ 18,000	\$ 12,000	\$ 12,000	\$ 33,000	\$ 90,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	15,000	18,000	12,000	12,000	33,000	90,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 15,000	\$ 18,000	\$ 12,000	\$ 12,000	\$ 33,000	\$ 90,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

Capital Improvement Program

TITLE: Shelters and Amenities Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding for bus stop improvements in Blacksburg. The program includes items such as shelters, new concrete pads and short 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>
FY2021	Shelters at I Lot/Cage SB and Overflow Lot EB	2	Replacement
	Bus Stop Improvements at Heather/Plymouth SB	1	Improvement
FY2022	Shelters at Progress/Broce SB and Harper Hall NB	2	New
	Bus Stop Improvements at Giles/Northview NB and Giles/Heights NB	2	Improvement
FY2023	Shelter at Progress/University Terrace SB	1	New
FY2024	Bus Stop Improvements at Progress/Hunt Club SB and Progress/Patrick Henry NB	2	Improvement
FY2025	Shelter at The Village on Patrick Henry WB	1	New
	Bus Stop Improvements at Roanoke/Woolwine EB, Tall Oaks/Heather EB, Heather/Plymouth NB, Toms Creek/McBryde NB, Progress/University Terrace SB	5	Improvement

This project includes funds for miscellaneous replacement parts, cement work, etc., as well. As with all Transit capital projects, if grants are unavailable the project may be deferred.

OPERATING IMPACT: Negligible impact on operating budget for the phase.

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 29,600	\$ 30,400	\$ 12,000	\$ 3,200	\$ 18,400	\$ 93,600	Continuing
State Funds	Continuing	Continuing	3,700	3,800	1,500	400	2,300	11,700	Continuing
Local Funds	Continuing	Continuing	3,700	3,800	1,500	400	2,300	11,700	Continuing
Total Sources	Continuing	Continuing	\$ 37,000	\$ 38,000	\$ 15,000	\$ 4,000	\$ 23,000	\$ 117,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	37,000	38,000	15,000	4,000	23,000	117,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 37,000	\$ 38,000	\$ 15,000	\$ 4,000	\$ 23,000	\$ 117,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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>
FY2021	Operations Vehicles	3	Replacement	Light Duty
FY2022	Maintenance / Operations Vehicles	4 / 3	Replacement / Replacement	Heavy Duty / Light Duty
FY2023	Administrative Vehicles	6	Replacement	Light Duty
FY2024	None Scheduled			
FY2025	None Scheduled			

Blacksburg Transit may extend the replacement schedule for some vehicles if warranted, based on a periodic review of mileage, condition and age. Costs are based on gas/diesel vehicle prices. If adequate funding is available, electric vehicles may be substituted for gas/diesel vehicles. 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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 128,800	\$ 305,600	\$ 186,400	\$	\$	\$ 620,800	Continuing
State Funds	Continuing	Continuing	16,100	38,200	23,300			77,600	Continuing
Local Funds	Continuing	Continuing	16,100	38,200	23,300			77,600	Continuing
Total Sources	Continuing	Continuing	\$ 161,000	\$ 382,000	\$ 233,000	\$ 0	\$ 0	\$ 776,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	161,000	382,000	233,000			776,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 161,000	\$ 382,000	\$ 233,000	\$ 0	\$ 0	\$ 776,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						0

Capital Improvement Program

Transit Department

TITLE: Transit Facility Improvement Project

STATUS: In Progress

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. More growth is anticipated. Site constraints (parking and circulation) also need to be addressed as service increases and more emphasis is placed on 60-foot buses. The project includes construction associated with replacement, upgrade and expansion, as warranted of the building and site.

<u>Year</u>	<u>Description</u>
FY2021	Construction

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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	4,500,000	500,000	\$ 4,000,000	\$	\$	\$	\$	\$ 4,000,000	
State Funds	562,500	62,500	500,000					500,000	
Local Funds	562,500	62,500	500,000					500,000	
Total Sources	5,625,000	625,000	\$ 5,000,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 5,000,000	0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 625,000	\$ 625,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	3,500,000		3,500,000					3,500,000	
Equipment	750,000		750,000					750,000	
Contractual Services	750,000		750,000					750,000	
Total Uses	5,625,000	625,000	\$ 5,000,000	\$ 0	\$ 0	\$ 0	\$ 0	\$ 5,000,000	0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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:

<u>Year</u>	<u>Description</u>
FY2021	Replacement bus washer brushes, LED lights for oil change pits, inventory scanning system equipment, HVAC replacement, parking lot restriping and AIM fuel system upgrade.
FY2022	Heavy duty precision drill press, engine hoist, shop press, smoke detection system, water heater and roof exhaust fans.
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.
FY2025	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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 166,400	\$ 143,200	\$ 160,000	\$ 180,000	\$ 200,000	\$ 849,600	Continuing
State Funds	Continuing	Continuing	20,800	17,900	20,000	22,500	25,000	106,200	Continuing
Local Funds	Continuing	Continuing	20,800	17,900	20,000	22,500	25,000	106,200	Continuing
Total Sources	Continuing	Continuing	\$ 208,000	\$ 179,000	\$ 200,000	\$ 225,000	\$ 250,000	\$ 1,062,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	208,000	179,000	200,000	225,000	250,000	1,062,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 208,000	\$ 179,000	\$ 200,000	\$ 225,000	\$ 250,000	\$ 1,062,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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 hardware and software and related infrastructure to support Operations, Maintenance and Administration. The proposed schedule for technology upgrades, other than ITS, is as follows

<u>Year</u>	<u>Description</u>
FY2021	Seventeen workstations and peripherals, one SAN Replacement, two Server Replacements, one Server Expansion.
FY2022	Seventeen workstations and peripherals, one Server Room UPS, one Core Network Switch.
FY2023	Seventeen workstations and peripherals, six printers.
FY2024	Seventeen workstations and peripherals, ten VOIP phones, one Wireless Network Controller, five Wireless Data Systems -signals.
FY2025	Seventeen workstations and peripherals, ten VOIP phones, 36 Wireless Access Points-BT, one SAN Replacement, five Wireless Data Systems-signals.

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

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 150,400	\$ 84,000	\$ 29,600	\$ 91,200	\$ 80,000	\$ 435,200	Continuing
State Funds	Continuing	Continuing	18,800	10,500	3,700	11,400	10,000	54,400	Continuing
Local Funds	Continuing	Continuing	18,800	10,500	3,700	11,400	10,000	54,400	Continuing
Total Sources	Continuing	Continuing	\$ 188,000	\$ 105,000	\$ 37,000	\$ 114,000	\$ 100,000	\$ 544,000	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing	Continuing	188,000	105,000	37,000	114,000	100,000	544,000	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 188,000	\$ 105,000	\$ 37,000	\$ 114,000	\$ 100,000	\$ 544,000	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
Already in operating budget						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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
Equipment Replacement Fund	Continuing	Continuing	\$ 1,847,000	\$ 807,000	\$ 2,292,000	\$ 2,144,500	\$ 1,557,550	\$ 8,648,050	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 1,847,000	\$ 807,000	\$ 2,292,000	\$ 2,144,500	\$ 1,557,550	\$ 8,648,050	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$	\$	\$	\$	\$	\$	\$	\$ 0	\$
Construction								0	
Equipment	Continuing		1,847,000	807,000	2,292,000	2,144,500	1,557,550	8,648,050	Continuing
Contractual Services								0	
Total Uses	Continuing	\$	\$ 1,847,000	\$ 807,000	\$ 2,292,000	\$ 2,144,500	\$ 1,557,550	\$ 8,648,050	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
N/A						0

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

Deferred Replacement						
Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
CDGB Fund						
HD-101	SUV, Economy 4WD	2007	10	25,000	0	2017
HD-201	Sedan, Economy Hybrid	2008	10	25,000	0	2018
	Fund Total:			\$50,000	\$0	
General Fund						
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
	Fund Total:			\$398,000	\$0	
Police Fund						
PD-1201	Van - Jail	2012	8	50,000	0	2020
	Fund Total:			\$50,000	\$0	
Solid Waste Fund						
WM-201	Sedan, Economy Hybrid	2009	10	25,000	0	2019
	Fund Total:			\$25,000	\$0	
Water & Sewer Fund						
WA-703	Loader	2000	15	175,000	0	2015
WA-902	Air Compressor	2001	15	20,000	0	2016
WA-601	Asphalt Milling Machine	2004	15	71,000	0	2019
	Fund Total:			\$266,000	\$0	
Total Deferred Replacement				\$789,000		

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2021

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund						
FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	75,000	5,000	2021
FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	65,000	8,125	2021
	Fund Total:			\$140,000	\$13,125	
General Fund						
AS-604	Asphalt Roller	FY 21 REQ.	12	50,000	4,167	2021
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
HT-702	Loader, Skid Steer	2008	13	45,000	3,462	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
	Fund Total:			\$352,000	\$38,116	
Police Fund						
PD-1307	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1308	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1309	SUV, Standard, K9, w/ add ons	2013	8	70,000	8,750	2021
PD-1310	SUV, Standard 4WD, unmarked w/add ons	2013	8	35,000	4,375	2021
PD-1311	SUV, Standard 4WD, unmarked w/add ons	2013	8	35,000	4,375	2021
PD-1312	Sedan-Unmarked	2013	8	35,000	4,375	2021
PD-1313	SUV, Hybrid-Marked w/add ons	2013	8	70,000	8,750	2021
PD-1314	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1315	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1316	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1317	SUV, Full Size-Marked, w/add ons	2014	7	65,000	9,286	2021
PD-1319	SUV, Hybrid-Marked w/add ons	2013	8	70,000	8,750	2021
	Fund Total:			\$715,000	\$94,018	
Rescue Fund						
RS-M53	Ambulance	2013	8	268,000	33,500	2021
RS-M57	Ambulance	FY 21 REQ.	8	268,000	33,500	2021
	Fund Total:			\$536,000	\$67,000	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2021 - continued

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Solid Waste Fund						
WM-905	Leaf Machine	2009	12	37,000	3,083	2021
WM-906	Leaf Machine	2009	12	37,000	3,083	2021
	Fund Total:			\$74,000	\$6,167	
Water & Sewer Fund						
UT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2013	8	30,000	3,750	2021
	Fund Total:			\$30,000	\$3,750	
Total FY 2021 Replacement				\$1,847,000	\$222,176	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2022

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund						
AS-903	Asphalt Patching Equipment	2014	8	80,000	10,000	2022
GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
GC-801A	Tractor	1994	28	20,000	714	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, snow pl	2014	8	75,000	9,375	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
		Fund Total:		\$422,000	\$50,399	
Police Fund						
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 ons	2014	8	35,000	4,375	2022
PD-1402	SUV, Standard 4WD, unmarked w/add ons	2014	8	35,000	4,375	2022
PD-1403	SUV, Full Size-Marked, w/add ons	2014	8	65,000	8,125	2022
PD-1408	SUV, Full Size-Marked, w/add ons	2014	8	65,000	8,125	2022
		Fund Total:		\$270,000	\$33,750	
Water & Sewer Fund						
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
		Fund Total:		\$115,000	\$14,375	

Total FY 2022 Replacement

\$807,000

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2023

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund						
FD-B13	Truck-Brush, Heavy Duty	2015	8	210,000	26,250	2023
		Fund Total:		\$210,000	\$26,250	
General Fund						
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
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
		Fund Total:		\$421,000	\$49,060	
Police Fund						
PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
PD-1404	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1405	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1406	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1407	SUV, Full Size-Marked, w/add ons	2015	8	65,000	8,125	2023
PD-1409	SUV, Standard 4WD, unmarked w/add ons	2015	8	35,000	4,375	2023
		Fund Total:		\$346,000	\$40,275	
Rescue Fund						
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
		Fund Total:		\$388,000	\$48,500	
Solid Waste Fund						
WM-802	Sweeper-Sidewalk	2015	8	36,000	4,500	2023
		Fund Total:		\$36,000	\$4,500	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2023 - continued

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Water & Sewer Fund						
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
Fund Total:				\$891,000	\$91,975	
Total FY 2023 Replacement				\$2,292,000	\$260,560	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2024

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund						
FD-14	Box Truck -Special Purpose	2014	10	90,000	9,000	2024
		Fund Total:		\$90,000	\$9,000	
General Fund						
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
CE-701	Backhoe	2012	12	130,000	10,833	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 pkg	2015	9	195,000	21,667	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
		Fund Total:		\$1,423,500	\$148,457	
Police Fund						
PD-1601	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1602	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1603	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1604	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1605	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1606	SUV, Standard 4WD, unmarked w/add ons	2016	8	35,000	4,375	2024
PD-1607	SUV, Full Size-Marked, w/add ons	2016	8	65,000	8,125	2024
PD-1608	SUV, Standard 4WD, unmarked w/add ons	2016	8	35,000	4,375	2024
		Fund Total:		\$460,000	\$57,500	
Solid Waste Fund						
WM-902	Leaf Machine	2016	8	37,000	4,625	2024
WM-903	Leaf Machine	2016	8	37,000	4,625	2024
		Fund Total:		\$74,000	\$9,250	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2024 - continued

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Water & Sewer Fund						
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
	Fund Total:			\$97,000	\$12,929	
Total FY 2024 Replacement				\$2,144,500	\$237,136	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2021-2025

FY Replacement 2025

Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund						
AS-501	Truck-Dump, Tandem, snow pkg	2016	9	195,000	21,667	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
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 pkg	2018	7	75,000	10,714	2025
PK-809	Ballfield Rake 3 Wheel	2017	8	25,000	3,125	2025
BD-404	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
		Fund Total:		\$736,550	\$80,650	
Police Fund						
PD-1609	Polaris Gem EZ Electric	2017	8	15,000	1,875	2025
PD-1701	SUV, Standard 4WD, unmarked w/add ons	2017	8	35,000	4,375	2025
PD-1702	SUV, Standard 4WD, unmarked w/add ons	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 ons	2017	8	35,000	4,375	2025
PD-1705	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1706	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1707	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1708	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
PD-1709	SUV, Full Size-Marked, w/add ons	2017	8	65,000	8,125	2025
		Fund Total:		\$495,000	\$61,875	
Solid Waste Fund						
LB-01	Leaf Boxes (6) - PW	2015	10	51,000	5,100	2025
		Fund Total:		\$51,000	\$5,100	
Water & Sewer Fund						
SE-405	Truck-Pickup, F550 4WD, util bed	2017	8	55,000	6,875	2025
SE-503	Truck-Dump, Tandem, non-snow	2016	9	140,000	15,556	2025
WA-704	Loader, Skid Steer w/attachments	2015	10	80,000	8,000	2025
		Fund Total:		\$275,000	\$30,431	
		Total FY 2025 Replacement		\$1,557,550	\$178,056	

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. 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 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 33,800	\$ 23,580	\$ 43,500	\$ 60,400	\$ 13,200	\$ 174,480	Continuing
General Obligation Bonds								0	0
Water/Sewer Fund								0	0
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	Continuing	Continuing	\$ 33,800	\$ 23,580	\$ 43,500	\$ 60,400	\$ 13,200	\$ 174,480	Continuing

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering			\$	\$	\$	\$	\$	\$ 0	
Construction								0	
Equipment	Continuing	Continuing	33,800	23,580	43,500	60,400	13,200	174,480	Continuing
Contractual Services								0	
Total Uses	Continuing	Continuing	\$ 33,800	\$ 23,580	\$ 43,500	\$ 60,400	\$ 13,200	\$ 174,480	Continuing

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
N/A						0

Major Building System 5 yr Projected Replacements for FY 2020/21 to 2024/25

FY to be Replaced: 2021

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Remaining Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Price's Fork Rd. fire House	2 infrared tube heaters	1991	30	0	\$8,800	\$293
PW - Town Garage	2 post heavy duty lift - 18000	2006	15	0	\$20,000	\$1,333
Blacksburg Motor Company	1 Subsurface Ventilation System	2011	10	0	\$5,000	\$500
FISCAL YEAR TOTAL:					\$33,800	\$2,127

FY to be Replaced: 2022

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Remaining Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Aquatic Center	Building Pump - Heat - A	1992	30	1	\$5,740	\$191
Aquatic Center	Building Pump - Heat - B	1992	30	1	\$5,740	\$191
Municipal Building	Domestic water heater - 1st floor	2007	15	1	\$12,100	\$807
FISCAL YEAR TOTAL:					\$23,580	\$1,189

FY to be Replaced: 2023

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Remaining Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Police Department Building	Roof Top cooling & heating Unit - Chief	2003	20	2	\$15,000	\$750
Police Department Building	Roof Top cooling & heating Unit - Training Room	2003	20	2	\$10,000	\$500
Blacksburg Motor Company	5 Ductless Split A/C Units	2008	15	2	\$12,500	\$833
Kipps Restroom	3-Ceiling mounted unit heaters	2013	10	2	\$6,000	\$600
FISCAL YEAR TOTAL:					\$43,500	\$2,683

Major Building System 5 yr Projected Replacements for FY 2020/21 to 2024/25

FY to be Replaced: 2024

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Remaining Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Bennett House	1 ea forced air electric furnace w/ heat pump	2004	20	3	\$3,000	\$150
Bennett House	1 ea forced air gas furnace w/ A/C	2004	20	3	\$3,000	\$150
Bennett House	2 ea a/c split system	2004	20	3	\$3,000	\$150
Price House	2 a/c split ductless heat pumps	2009	15	3	\$20,000	\$1,333
Thomas Conner House	1 gas fired boiler	1994	30	3	\$5,500	\$183
PW - Town Garage	4 gas fired tube heaters	2004	20	3	\$9,900	\$495
Odd Fellows Hall and Annex	1 Daikin heat pump with 2 indoor fan coils	2009	15	3	\$10,000	\$667
Odd Fellows Hall and Annex	1 split system heat pump with electric heat	2009	15	3	\$6,000	\$400
FISCAL YEAR TOTAL:					\$60,400	\$3,528

FY to be Replaced: 2025

<u>Location</u>	<u>Description</u>	<u>Installation Date</u>	<u>Life</u>	<u>Remaining Life</u>	<u>Replacement Cost</u>	<u>Depreciation</u>
Aquatic Center	Heat Exchanger - Spa	2005	20	4	\$13,200	\$660
FISCAL YEAR TOTAL:					\$13,200	\$660
5 year total					\$174,480	\$10,188

Capital Improvement Program

Solid Waste Fund

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 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2020	FY21	FY22	FY23	FY24	FY25	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
Stormwater Fund								0	0
VDOT Revenue Sharing								0	0
Total Sources	\$ 75,000	\$ 25,000	\$ 0	\$ 50,000	\$ 0	\$ 0	\$ 0	\$ 50,000	\$ 0

Planned Uses

Uses	Total Project Cost	Appropriated through 6/30/2020	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 25,000	\$ 25,000	\$	\$	\$	\$	\$	\$ 0	\$
Construction	50,000			50,000				50,000	
Equipment								0	
Contractual Services								0	
Total Uses	\$ 75,000	\$ 25,000	\$ 0	\$ 50,000	\$ 0	\$ 0	\$ 0	\$ 50,000	\$ 0

Operating Impact

Expense Category	FY21	FY22	FY23	FY24	FY25	Total for Five Year CIP
None						0

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