



ADOPTED CAPITAL IMPROVEMENT PROGRAM

Fiscal Years 2018/2019-2022/2023



TOWN OF
Blacksburg
 VIRGINIA

Town of Blacksburg

FY 2018/2019-2022/2023

Adopted Capital Improvement Program

Town Council

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

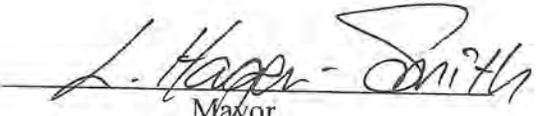
Town Administrative Staff

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

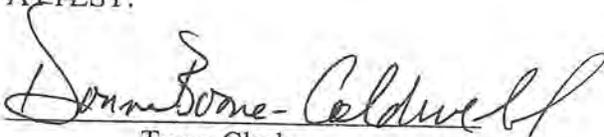
RESOLUTION 1-D-18

A RESOLUTION ADOPTING THE CAPITAL IMPROVEMENT
PROGRAM FOR FY2018/2019 THROUGH FY2022/2023

BE IT RESOLVED by the Council of the Town of Blacksburg that this Council adopts the Capital Improvement Program for Fiscal Years 2018/2019 through 2022/2023, a copy of which is on file in the Office of the Town Clerk.


Mayor

ATTEST:


Town Clerk

Date of Adoption: January 23, 2018

November 28, 2017

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 2019-2023 Capital Improvement Program (CIP)* for your review and consideration. This CIP provides a plan to support Blacksburg's capital needs over the next five years and beyond. Community growth, infrastructure maintenance, and funding sources were taken into consideration when developing the CIP. The CIP is part of Blacksburg's proactive approach to planning which allows it to be a community with a high a quality of life that is attractive to residents, visitors, and businesses.

The FY 2019-2023 CIP was developed with an emphasis on ensuring capital maintenance needs are addressed, a minimum Fund Balance of 10% is maintained in the General Fund, the capital reserve is funded for future projects of significance, and Town Council's strategic goals are addressed. This is accomplished while also ensuring regulatory requirements are met, projects are fully funded with appropriate contingency funding, and recurring operating costs are considered.

The CIP includes funding over the next five years to initiate or complete several projects identified as Town Council goals. These include the design and construction of a new Police Station, design and construction of a Progress Street Parking Garage, and development of a master plan for a new recreation center.

Redevelopment of the Old Blacksburg Middle School (OBMS) property and construction of a new Police Station are included in Town Council's Strategic Goals. To move forward on accomplishing those goals, the Town is partnering with a developer on the redevelopment of the OBMS property to include a Town funded police station and parking garage with a privately funded mixed use project which includes commercial and residential components. Design of a new Police Station is scheduled to begin in FY 2019 with construction anticipated in FY 2020. The design and construction are currently estimated to cost \$16.5 million. A **one cent property tax increase** will be needed in FY 2019 to fund the debt service for the new Police Station. Revenue generated from the redevelopment of the OBMS is anticipated to support the debt service for the parking garage and any other publicly funded improvements.

In March 2017, the Town offered to purchase the Old Blacksburg High School (OBHS) property from Montgomery County for \$2.3 million. The property was sold to local investors who have expressed interest in partnering with the Town to build a new recreation center on the OBHS property. The CIP includes funding for a recreation center and aquatic center master plan in FY 2019. The master plan will provide options for construction of new facilities and renovation and expansion of the existing facilities. Taking this approach affords the Town flexibility, if the opportunity to use the OBHS property comes to fruition. No funding or tax increase is included

in the CIP to purchase the OBHS property. However, if the opportunity presented itself to acquire the property it would require at a minimum a one cent property tax increase.

Significant Projects Funded in the FY 2019-2023 CIP

Project	Amount
New Police Station	\$16,500,000
Progress Street Parking Garage	9,375,000
Main Street Streetscape	650,000
Recreation and Aquatic Center Master Plan	100,000
Draper Road Streetscape Imp. Plan	100,000

Planning for the capital maintenance needs of existing infrastructure is an important part of the the CIP. Dedicating funding for projects such as roof replacements, property maintenance, and sidewalk repairs, as well as funding the Equipment Depreciation Fund and Building Systems Fund ensures the Town is maintaining it's infrastructure investment. The chart below shows some of the funding included for these needs.

Project	Amount
Road & Sidewalk Maintenance	\$ 3,705,000
Facility Repair & Maintenance	1,945,500
Water & Sewer Maintenance	2,362,500
Storm Water Management	1,966,000
Equipment Depreciation	8,967,240
Building Systems Depreciations	776,565

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 guide the development of a fiscally responsible CIP and Budget. Town Council approved changes to the Financial Policies in February 2016 and will have an opportunity to review the Policies in 2018. A copy of the "Principles of Sound Financial Management" can be found in the Financial Analysis and Tables section of this document.

The Recommended FY 2019-2023 Capital Improvement Program relies on General Fund revenue, water and sewer funds, storm water funds, general obligation bonds and Federal and State support for capital projects. Equipment replacement and infrastructure maintenance and replacement are funded with General Funds and/or Water and Sewer Funds while bond funds are used as a secondary funding source for projects that are long-term in nature.

The Town's Financial Principles establish a General Fund Unassigned Fund Balance target of no less than 10% of operating expenditures exclusive of capital improvements. During the five year period of this Capital Improvement Plan the Fund Balances range from 11.1% to

19.1%. Funding is included to continue growing the Capital Reserve established last year to assist with financing significant capital projects involving construction, reconstruction, or property acquisition.

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 take into consideration the anticipated growth at Virginia Tech and in the community. The projections include a **one cent property tax increase** in FY 2019 to support the debt service and increased operating costs for the new Police Station.

Storm Water Fund

A Storm Water Utility Fund and fee were established by Town Council in 2015. The Town's responsibilities for storm water management are regulatory compliance, operation and maintenance of storm drainage infrastructure, and responsiveness to community concerns. Approximately \$1.5 million is included in the CIP for design and construction of storm water quality and quantity improvements for large and small projects.

Water and Sewer Fund

The New River Valley Regional Water Authority provides water to the Town and the Blacksburg-VPI Sanitation Authority provides wastewater treatment services at wholesale rates. No rate increase is included in these projections. If either the Water Authority or the Sanitation Authority increases the wholesale rate, these increases will be reflected in the Town's water and sewer rates.

Blacksburg Transit

Blacksburg Transit is a key component of the Town's transportation network. The expansion of Blacksburg Transit services is critical to managing the community's future transportation needs. Capital requests include purchasing articulated buses which carry more passengers as replacements for traditional buses. Transit is financed from multiple funding sources including Federal and State grants, the Town of Christiansburg, Virginia Tech, and fare box revenue. No Town of Blacksburg generated tax revenue is used to support Transit operations.

Summary

In conclusion, we are pleased to present to you for your consideration the *Recommended FY 2019-2023 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.

2017

November 28 th	Present CIP to Town Council
December 5 th	Town Council Work Session
December 12 th	Town Council Schedules Public Hearing on CIP for January 9, 2018
December 19 th	Town Council Work Session
December 19 th	Planning Commission Review of the CIP

2018

January 9 th	Town Council Public Hearing on Recommended CIP
January 16 th	Town Council Work Session, if necessary
January 23 rd	Town Council Consideration of Resolution Approving CIP

I want to express my appreciation to each Department and their staff for working together to develop and prepare the *Recommended FY 2019-2023 Capital Improvement Program* presented to you. I also want to thank 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 Officer
Elaine Gill, Human Resource Manager
Matt Hanratty, Assistant to the Town Manager
Bobby Carner, Fire Chief
David English, Rescue Chief

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

SUBJECT: FY 2019-2023 Capital Improvement Program

DATE: August 23, 2017

Once again, it is time for the Capital Improvement Program (CIP) process. There is something new and exciting this year, a new project detail form. Please submit all projects, old and new, on this form. A template is provided on the "O drive" and plenty tips, reminders, and instructions on using the new form are provided below.

Status of Current CIP Projects

A status of current CIP projects will be needed with a brief one or two sentence description. The status should be completed on the spreadsheet located on the "O" drive at O:/CIP 2017/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 11, 2017.

Calendar

September 11 th	Status of current CIP projects due.
September 18 th	Deadline for submission of CIP project proposals.
September 25 th – October 6 th	Meeting with individual departments to discuss CIP projects.
October 16 th	Town Manager Finalizes <i>Recommended CIP</i> .
November 21 st	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. The narrative is what represents the project to the Council, the Planning Commission and the public. Please proof read all narratives before submission. There is a new project detail form this year. All projects must be submitted on this form. A template is provided on the "O drive."
- **Previous CIP Projects** – If submitting a project included in last year's CIP, please copy and paste the information from last year's detail project form to the new detail project form. Last year's project detail form is located on the the "O drive" at o:\CIP FY2019/FY18 Adopted Projects. Make appropriate changes to years, dollar amounts, and narratives on the new form. Do not use information from a project detail form you may have saved on another drive or folder. That information may have been changed when included in the Adopted CIP. No projects are automatically carried over.
- **Project Status** – Each project should have a status. They are *New, Continuing, In Progress or Previously Requested*. Look at 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 2016-2017 Strategic Goals is attached to this memo as well as saved at O:\CIP FY2019. Please utilize these goals in the development of the projects. Reference them in the descriptive narrative of the projects when appropriate.
- The list of potential future projects is saved at O:\CIP FY2019.
- Do not submit all projects in the first year.
- Be realistic of funding and workload constraints.
- Future years should include inflationary impacts.
- Only true capital projects will be considered for funding. All other items will be handled under the Operating Budget.
- Remember to include requests for all capital projects even if they will be funded by grants or if they are continuing projects such as Building Maintenance funds.
- For large projects break the project into components such as land purchase, design/engineering services, and construction into appropriate years. Do not front load the entire project in the first year.
- Remember to include the operating impact of capital projects so they can be considered during the operating budget process. Please use the form on the "O drive" even if no operating impact and note such on the form. Most projects should have an operating impact.

Forms to be Submitted:

The FY2019-2023 forms for use in preparing CIP projects are available on the “O drive” at O:\CIP FY2019\Forms. All three forms below need to be submitted.

- **Project Detail Form:** Must be submitted for every project. Includes a total project estimate, description of the project (narrative) and source of funding. Please use the new format on the O Drive, as this form will be published in the document submitted to Town Council. If submitting a project included in last year’s CIP please use the new project detail form with the information located on the “O drive” at O:\CIP FY2019\FY18 Adopted Projects with appropriate changes.
- **Cost Estimate Detail Form:** The form includes an inflation factor, source of estimate and possible funding options or funding alternatives. If this form is not submitted, please submit supporting information to justify the project cost estimate.
- **Estimated New Annual Operating Costs:** This form includes the impact of a new project relative to additional positions, related personnel costs, and operating costs including capital equipment. This form needs to be completed even if there are no new operating costs associated with the project or the project will reduce operating costs. Most capital projects will impact operating costs. It will be given to departments as part of the operating budget.

Submitting Projects for Review

- Please proof read all narratives before submitting.
- A copy of each project recommended should be put out on the “O drive” at O:\CIP FY2019\Submitted Projects\- Please provide six (6) unstapled and hole-punched copies to Teri Self, as well as the copy on the O drive.
- The deadline for submitting proposed projects is **Monday, September 18, 2017.**

Conclusion

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

Capital Improvement Program Guidelines

Definition of a Capital Improvement

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

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

Capital Improvement Program Submission Process

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

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

Project Detail Sheet

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

Department: Department requesting funding for the project.

Project Title: Brief title of the proposed project.

Project Location: Street address or general location of proposed project. If the location is not known, this should say "To Be Determined".

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 in previous years but is not in progress or has not begun. *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, 2018/2019-2022/2023, and Future Years must add to the Total Project Estimate.

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

2016-2017 Town Council Strategic Goals

Proactively plan for Virginia Tech’s announced growth in enrollment

- Plan for redevelopment of existing student housing
- Develop a vision for neighborhoods close to Downtown
- Plan for the impacts of growth to maintain neighborhood quality of life

Determine the future of the Old Blacksburg Middle School and Old Blacksburg High School Properties

- Purchase the Old Blacksburg High School property for future recreational use
- Work with the future owners of the Old Blacksburg Middle School property to develop a plan that reflects the stated design principles adopted by Town Council including public and park spaces

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

- Complete the Comprehensive Plan 5-year update and make the document easy to use
- Identify and implement zoning ordinance changes consistent with the plan’s vision for the community

Plan for additional downtown parking and future redevelopment

- Develop a Master Plan for the general area around the Progress Street Parking Lot
- Proactively work with the Baptist Church on the redevelopment of its property
- Sell the former Cook’s Clean Center property for downtown commercial use or redevelopment
- Support the development of professional housing in downtown

Expand recreational opportunities

- Begin construction on the Mountain Bike Skills Park
- Complete the trail connection between the Huckleberry Trail and Heritage Park
- Construct athletic fields and parking at South Point Park
- Purchase the Old Blacksburg High School Property for future recreational use

Facilitate private sector provision of competitive broadband internet service

- Clearly define the Town’s role in facilitating affordable broadband
- Attract a competitive broadband provider(s)

Continuing Community Values

Environmental Sustainability - Continue the Town's environmental sustainability efforts and steps 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.

Adopted by Town Council
April 12, 2016

Capital Improvement Program

TITLE:

STATUS:

STATUS DESCRIPTION:

OPERATING IMPACT:

GOAL ADDRESSED:

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -							\$ -	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -							\$ -	
Construction	-							-	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

BLACKSBURG CAPITAL IMPROVEMENT PROGRAM

COST ESTIMATE DETAIL SHEET REQUIRED

Department:

Project Title:

Total Costs Current Dollars

A. Planning, Engineering and Design	
B. Land Acquisition	
C. Construction (Sum of 1,2,3 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:

Project Submitted: _____

Estimated New Annual Operating Expenses (if any):

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

Departments Impacted:

Explanation:

Financial Analysis

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

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

Town of Blacksburg

Principles of Sound Financial Management

Introduction

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

Overall Goals

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

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

Financial Principles

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

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

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

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

Principles of Sound Financial Management

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

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

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

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

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

INDICATOR 1

Revenues Per Capita

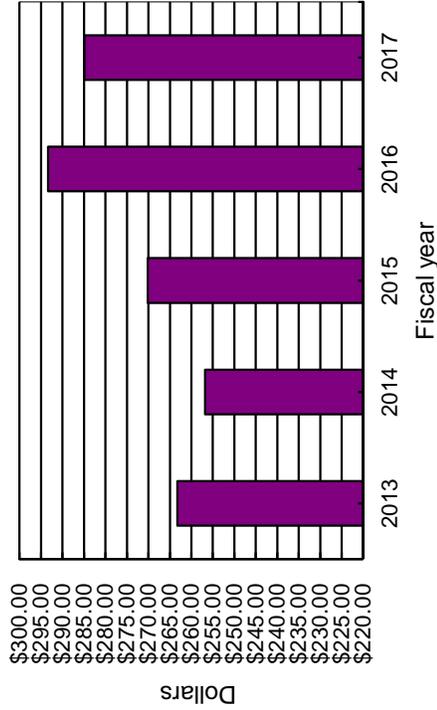
Warning Trend:

Decreasing net operating revenues per capita (constant dollars)

Formula:

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

Revenues Per Capita



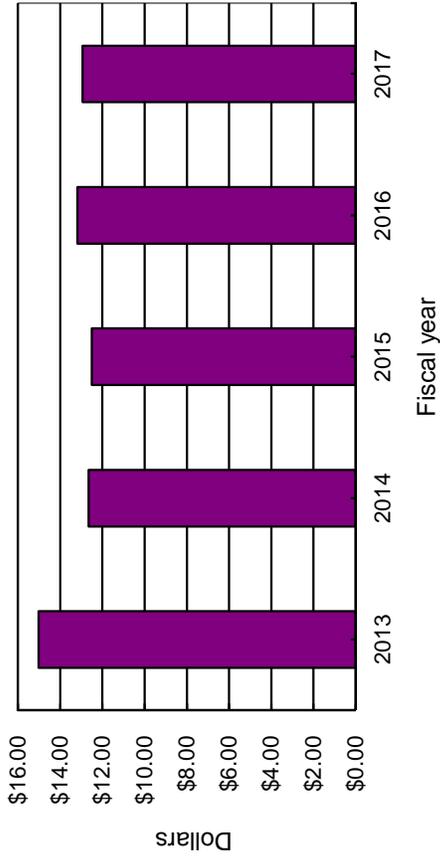
Fiscal year:	2013	2014	2015	2016	2017
Net operating revenues and transfers	\$26,301,609	\$26,808,431	\$28,176,359	\$30,685,153	\$30,563,204
Consumer price index	234.4	239.4	237.1	236.6	238.2
Net operating revenues & transfers (constant dollars)	\$11,220,823	\$11,198,175	\$11,883,745	\$12,969,430	\$12,833,217
Current population	42,620	43,609	43,955	44,215	45,038
Net operating revenues & transfers per capita (constant dollars)	\$263.28	\$256.79	\$270.18	\$293.33	\$284.94

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 2013 thru FY 2016 shows the slow recovery in the local economy especially in the economic sensitive areas such as meals taxes and sales taxes and the reduction of state funding. The FY 2014 reduction is due to the new definition of school age children and the resulting loss of \$235,000 in sales tax revenue and inflationary growth in economic sensitive taxes such as meals taxes. In FY 2015, the per capita amount increase is mainly due to a half year impact of the 2015 reassessment and the increase in the real estate tax rate from \$0.22 to \$0.25. In FY 2016, the per capita amount increase is due to the full year impact of those two factors and the growth in meals tax due to new restaurants and \$395,795 of one-time historic tax credit revenue.

INDICATOR 2

Sales Tax Revenues Per Capita



Sales Tax Revenues Per Capita

Warning Trend:

Decreasing net sales tax revenues per capita (constant dollars)

Formula:

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

	2013	2014	2015	2016	2017
Fiscal year:					
Net Sales Tax Revenues	\$1,501,360	\$1,320,895	\$1,304,682	\$1,379,313	\$1,388,282
Consumer price index	234.4	239.4	237.1	236.6	238.2
Net Sales Tax Revenues (constant dollars)	\$640,512	\$551,752	\$550,267	\$582,982	\$582,927
Current population	42,620	43,609	43,985	44,215	45,038
Net Sales Tax Revenues per Capita (constant dollars)	\$15.03	\$12.65	\$12.51	\$13.19	\$12.94

Analysis:

Sales Tax is a major revenue category for the Town and is an indicator of the strength of the regional economy. The FY 2013 decrease is due to a decrease in the percentage of school age children from FY2012. The FY 2014 and FY 2015 decrease is due to the new state definition of school age population. The FY 2016 increase is due to the growth in the sales tax base and a slight increase in the school age population. The decrease in FY 2017 is due to a slight decrease in the school age population.

Basis for Distribution:

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

INDICATOR 3

Meals Tax Revenues Per Capita

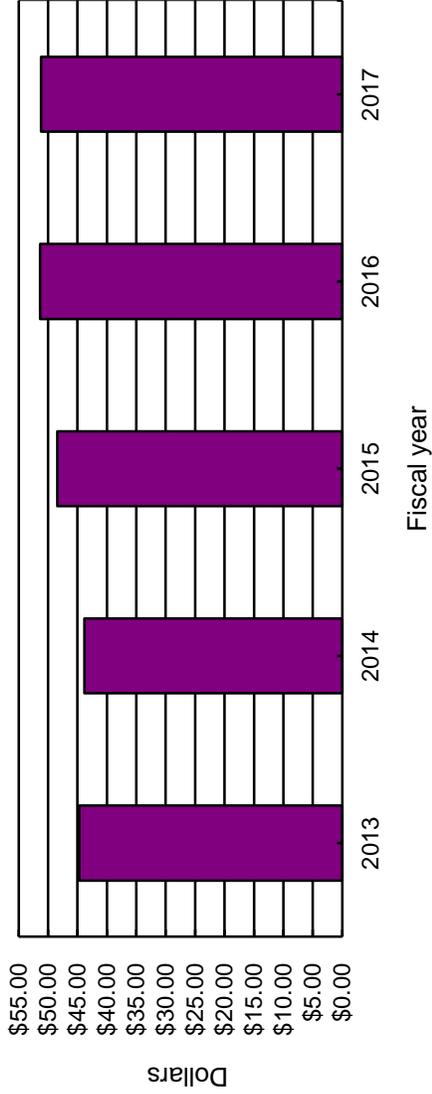
Meals Tax Revenues Per Capita

Warning Trend:

Decreasing meals tax revenues per capita (constant dollars)

Formula:

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



Fiscal year:	2013	2014	2015	2016	2017
Meals Tax Revenues	\$4,464,685	\$4,572,653	\$5,048,802	\$5,370,640	\$5,491,833
Consumer price index	234.4	239.4	237.1	236.6	238.2
Meals Tax Revenues (constant dollars)	\$1,904,729	\$1,910,047	\$2,129,398	\$2,269,962	\$2,305,972
Current population	42,620	43,609	43,985	44,215	45,038
Meals Tax Revenues (constant dollars)	\$44.69	\$43.80	\$48.41	\$51.34	\$51.20

Analysis:

The increase in FY 2015 and FY 2016 is mainly due to new restaurants that have opened during the last few years and the stabilization of the restaurant industry.

INDICATOR 4

Intergovernmental Revenues

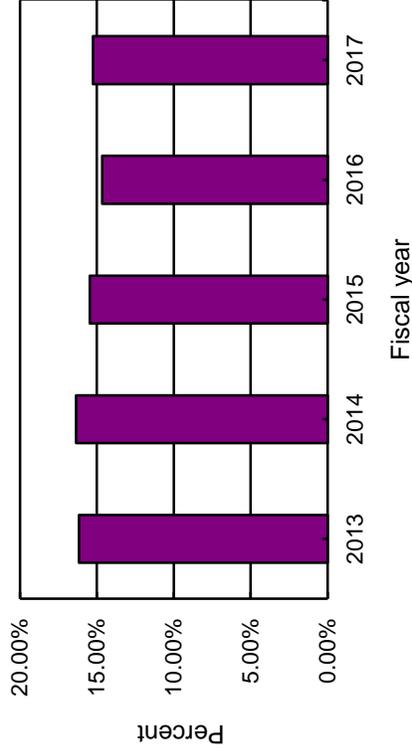
Intergovernmental Revenues

Warning Trend:

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

Formula:

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



	2013	2014	2015	2016	2017
Fiscal year:					
Net Intergovernmental Revenues	\$4,251,467	\$4,383,871	\$4,355,564	\$4,493,518	\$4,661,068
Gross Operating Revenues	\$26,301,609	\$26,808,431	\$28,176,359	\$30,685,153	\$30,563,204
Intergovernmental Revenues as a Percent of Gross Operating Revenues	16.16%	16.35%	15.46%	14.64%	15.25%

Analysis:

Intergovernmental revenues over the five-year period have been stable which corresponds with the State budget environment. The increase in FY 2014 is due to the receipt of FY 2013 fire fund revenues that were distributed late by the state. This area of revenue bears close scrutiny given the current economy and the state's budget condition.

INDICATOR 5

Property Tax Revenues

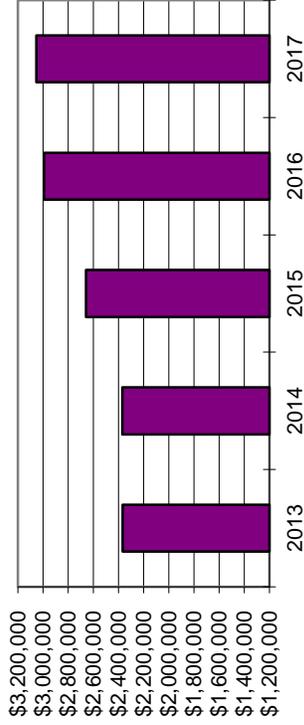
Warning Trend:

Decline in property tax revenues (constant dollars)

Formula:

Property Tax Revenues
(constant dollars)

Property Tax Revenues



Fiscal year:	2013	2014	2015	2016	2017
Property Tax Revenues	\$5,550,007	\$5,669,336	\$6,301,948	\$7,079,548	\$7,272,645
Consumer Price Index	234.4	239.4	237.1	236.6	238.2
CPI Converted to Decimal	2.344	2.394	2.371	2.366	2.382
Net Property Tax Revenues (constant dollars)	\$2,367,750	\$2,368,144	\$2,657,928	\$2,992,252	\$3,053,719

Analysis:

Trends indicate that real estate tax revenues were generally stronger than inflation. The reassessment is done every four years. The increase in FY 2014 is due to an increase in the Public Service assessment as determined by the State. The increases in 2015 and 2016 in gross property tax revenue is due to the impact of the 2015 reassessment and the increase in the tax rate from \$0.22 to \$0.25. The increase in 2017 is due to addition of a large multi-family development.

INDICATOR 6

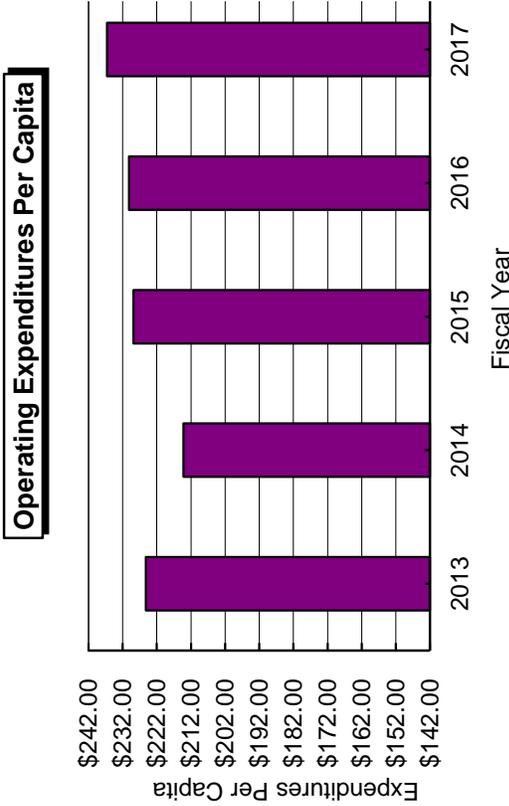
Operating Expenditures Per Capita

Warning Trend:

Increasing net operating expenditures per capita (constant dollars)

Formula:

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



Fiscal year:	2013	2014	2015	2016	2017
Net operating expenditures	\$22,500,952	\$22,362,315	\$23,865,160	\$24,080,177	\$25,374,171
Consumer price index	234.4	239.4	237.1	236.6	238.2
Net operating expenditures (constant dollars)	\$9,599,382	\$9,340,984	\$10,065,441	\$10,177,762	\$10,654,388
Estimated population	42,620	43,609	43,985	44,215	45,038
Net operating expenditures per capita (constant dollars)	\$225.23	\$214.20	\$228.84	\$230.19	\$236.56

Analysis:

Per Capita Expenditures per 2016 Comparative Cost Report:
(No Education or Welfare)

Montgomery County	\$456	Blacksburg	\$657
Roanoke County	\$1,001	Christiansburg	\$1,294
Roanoke City	\$979	Wytheville	\$1,665
Radford City	\$1,125	Leesburg	\$1,072
		Herndon	\$1,431
		Vinton	\$932
		Pulaski	\$945

INDICATOR 7

Employees Per Capita

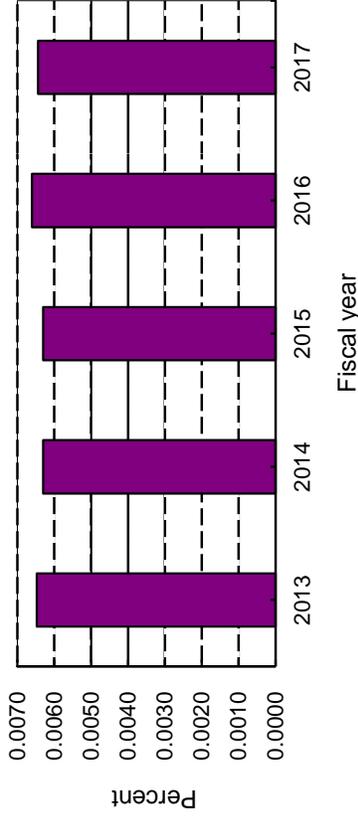
Warning Trend:

Increasing number of municipal employees per capita.

Formula:

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

Number of Full-Time Municipal Employees Per Capita



	2013	2014	2015	2016	2017
Fiscal year:					
Number of full-time municipal employees	276	275	277	292	290
Current population	42,620	43,609	43,985	44,215	45,038
Number of full-time municipal employees per capita	0.0065	0.0063	0.0063	0.0066	0.0064

Analysis:

This indicator compares the number of full-time employees to the population. The number of employees has increased slightly each year over the first four years. This reflects the new positions added to more efficiently cover service areas. Municipal employees include all full-time personnel contained in the General Fund, Equipment Operations, Solid Waste & Recycling, Blacksburg Transit (not including wage bus operators), Stormwater and Water and Sewer Funds. The 2013 thru 2016 number of employees does not include any vacant positions that were frozen due to the economic environment. The increase in 2016 is due to the increase of nine positions in Transit (including six full-time bus operators), one in Stormwater and four in the General Fund to more effectively cover service areas. The decrease in 2017 is due to the transfer of four positions to the E911 Authority but also the addition of two positions in Transit.

INDICATOR 8

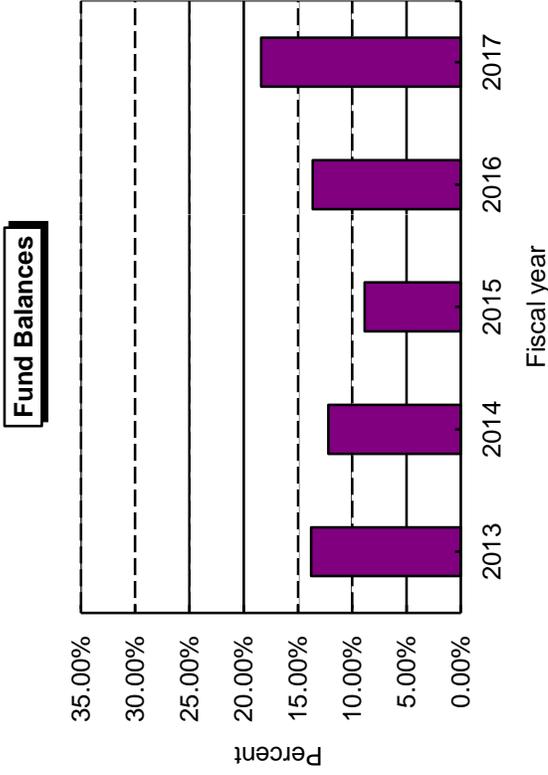
Fund Balances

Warning Trend:

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

Formula:

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



Fiscal year:	2013	2014	2015	2016	2017
Unreserved General Fund Balance	\$3,397,008	\$2,980,761	\$2,314,742	\$3,634,618	\$5,123,082
Net Operating Expenditures with debt svc	\$24,650,777	\$24,437,175	\$26,094,470	\$26,624,383	\$27,830,928
Unreserved General Fund Balance as a Percentage of Net Operating Expenditures	13.78%	12.20%	8.87%	13.65%	18.41%

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 and the spending of bond proceeds.

INDICATOR 9

Long-term Debt

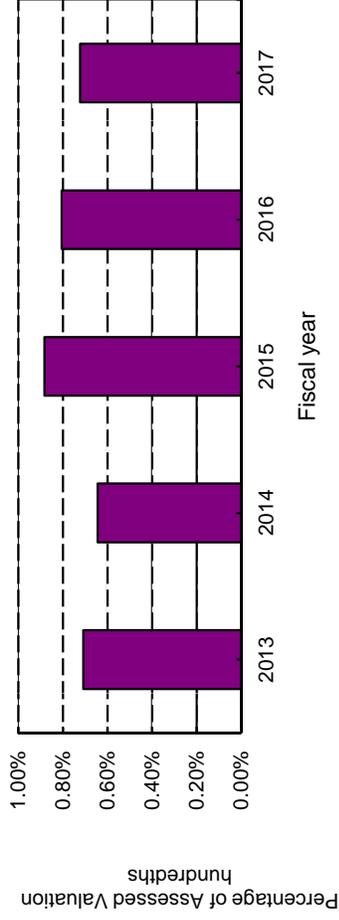
Warning Trend:

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



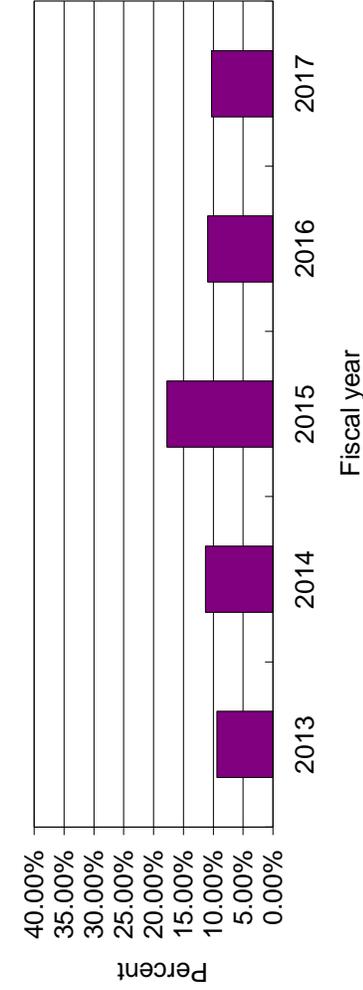
Fiscal year:	2013	2014	2015	2016	2017
Assessed Valuation	\$2,532,699,273	\$2,558,500,545	\$2,779,569,200	\$2,862,199,700	\$2,945,059,500
Net Direct Long-term General Fund Debt	\$17,953,098	\$16,471,609	\$24,557,786	\$23,061,002	\$21,301,049
Net Direct Long-term Debt as a Percentage of Assessed Valuation	0.71%	0.64%	0.88%	0.81%	0.72%

Analysis:

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

INDICATOR 10

Capital Outlay



Warning Trend:

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

Formula:

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

Fiscal year:	2013	2014	2015	2016	2017
Total capital outlay	\$2,117,397	\$2,528,204	\$4,236,060	\$2,628,079	\$2,605,751
Operating expenditures and transfers	\$22,500,952	\$22,362,315	\$23,865,160	\$24,080,177	\$25,374,171
Capital outlay as a percentage of expenditures	9.41%	11.31%	17.75%	10.91%	10.27%

Analysis:

Yearly fluctuations in this indicator are the result of the timing and magnitude of different capital projects. The decrease in FY 2014 is due to the tight operating budget environment. The increase in FY 2015 is due to the purchase of property impacted by a transportation project for \$910,000 and land for a future bridge for a recreational trail for \$142,000.

INDICATOR 11

Water and Sewer Rates

Fiscal Year	Water Rate	Water Fixed	Sewer Rate	Sewer Fixed
2014	\$4.55	\$3.03	\$4.85	\$3.06
2015	\$4.88	\$3.05	\$5.17	\$3.08
2016	\$5.21	\$3.09	\$5.43	\$3.12
2017	\$5.49	\$2.94	\$5.69	\$2.96
2018	\$6.47	\$2.94	\$5.72	\$2.96

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 increase in FY 2018 water rate is due to a large increase from the Water Authority due to significant capital improvements.

INDICATOR 12

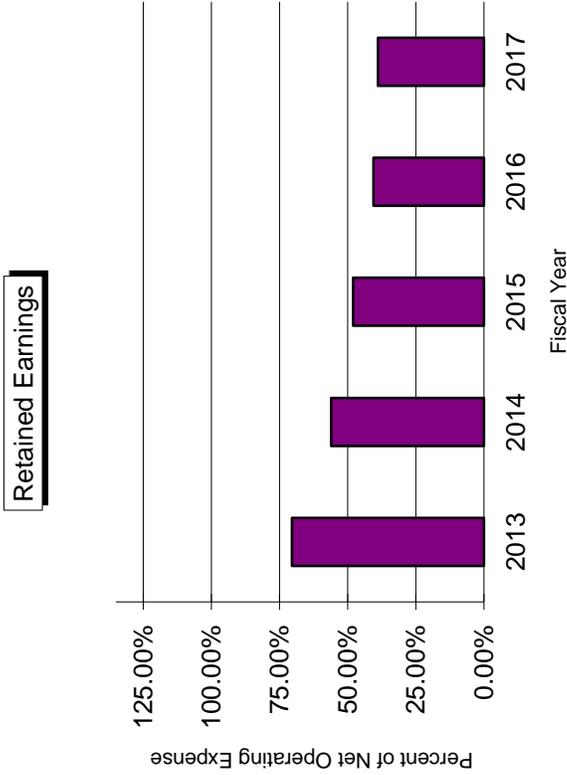
Retained Earnings - Water and Sewer Fund

Warning Trend:

Declining unreserved retained earnings as a percentage of net operating expenses

Formula:

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



Fiscal year:	2013	2014	2015	2016	2017
Unreserved Water & Sewer Fund Retained Earnings	\$5,336,884	\$4,322,668	\$3,790,119	\$3,488,913	\$3,370,807
Net Operating Expenses	\$7,580,841	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533
Unreserved Water & Sewer Retained Earnings as a Percentage of Net Operating Expenses	70.40%	56.06%	48.01%	40.48%	38.91%

Analysis:

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

INDICATOR 13

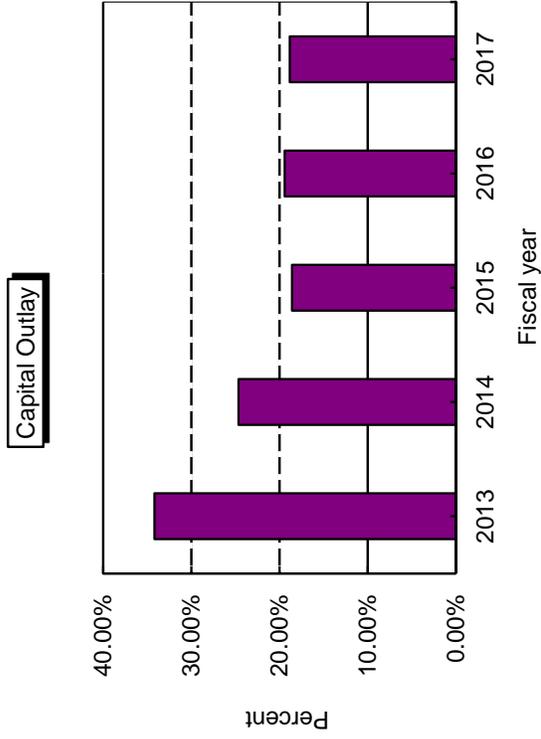
Capital Outlay - Water and Sewer Fund

Warning Trend:

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

Formula:

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



	2013	2014	2015	2016	2017
Fiscal year:					
Total capital outlay	\$2,590,167	\$1,900,284	\$1,468,504	\$1,674,638	\$1,632,033
Operating expenses and transfers	\$7,580,841	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533
Capital outlay as a percentage of expenses and transfers	34.17%	24.65%	18.60%	19.43%	18.84%

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

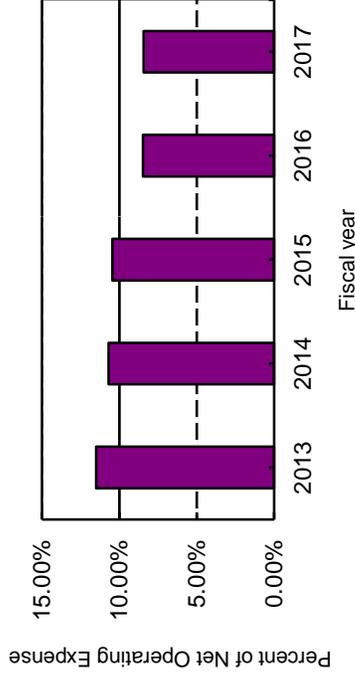
Debt Service as a Percent of Net Operating Expense

Warning Trend:

Increasing debt service as a percentage of net operating expenses.

Formula:

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



Fiscal year:	2013	2014	2015	2016	2017
Debt Service	\$871,159	\$824,454	\$824,949	\$731,091	\$730,662
Net Operating Expenses	\$7,580,841	\$7,710,245	\$7,894,474	\$8,618,963	\$8,663,533
Debt Service as a Percentage of Net Operating Expenses	11.49%	10.69%	10.45%	8.48%	8.43%

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.

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		
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%		
2013	\$2,532,699,273	0.03%	\$0.22	\$5,542,953	0.06%	\$5,482,597	98.91%	\$5,550,007	(0.08)%		
2012	\$2,531,882,327	0.43%	\$0.22	\$5,539,489	2.24%	\$5,518,850	99.63%	\$5,554,280	0.96%		

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

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

³Increase in tax rate from \$0.22 to \$0.25 effective for the second billing in FY 2015

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
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 ³	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 ²	172.74%	\$25,632,578	22.82%
2014	\$4,134,315	(2.83)%	\$12,891,028	2.55%	\$1,323,850	2.38%	\$2,521,335	(6.01)%	\$20,870,528	0.42%
2013	\$4,251,458	3.63%	\$12,570,552	2.27%	\$1,293,123	(11.13)%	\$2,672,989	(66.33)%	\$20,788,122	(19.39)%
2012	\$4,102,631	2.57%	\$12,291,633	6.35%	\$1,455,041	31.70%	\$7,939,843 ¹	46.00%	\$25,789,145	16.69%

¹Receipt of refunding bond proceeds of \$5,387,540 in FY2012.

²Receipt of refunding bond proceeds of \$3,813,690 in FY 2015 and interfund transfers of \$370,900 from the new Storm Water Fund.

³Receipt of historic tax credits of \$395,795 in FY 2016

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
2017	\$5,053,375	1.03%	\$9,007,935	4.59%	\$2,238,996	2.78%	\$8,204,877	11.97%	\$24,505,183	5.99%
2016	\$5,001,823	0.11%	\$8,612,281	0.12%	\$2,178,379	3.47%	\$7,327,795	1.69%	\$23,120,278	0.92%
2015	\$4,996,082	5.85%	\$8,602,348	4.78%	\$2,105,376	1.91%	\$7,205,861	3.64%	\$22,909,667	4.38%
2014	\$4,720,093	0.74%	\$8,210,248	(4.15)%	\$2,065,887	0.70%	\$6,952,806	6.34%	\$21,949,034	0.56%
2013	\$4,685,609	8.55%	\$8,550,794	6.29%	\$2,051,610	3.93%	\$6,538,242	8.88%	\$21,826,255	7.31%
2012	\$4,316,492	(7.12)%	\$8,044,580	4.75%	\$1,974,109	21.41%	\$6,004,980	2.15%	\$20,340,161	2.57%

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
2018	\$2,986,315,000	\$0.25	\$7,465,800	98.5%	\$7,353,800	\$7,503,800
2019	\$3,085,813,000	\$0.26	\$8,022,300	98.5%	\$7,902,000	\$8,052,000
2020	\$3,176,845,000	\$0.26	\$8,259,800	98.5%	\$8,135,900	\$8,285,900
2021	\$3,192,718,000	\$0.26	\$8,301,100	98.5%	\$8,176,550	\$8,326,550
2022	\$3,208,981,000	\$0.26	\$8,343,300	98.5%	\$8,218,200	\$8,368,200
2023	\$3,225,342,000	\$0.26	\$8,385,900	98.5%	\$8,260,100	\$8,410,100

¹Reassessment occurs every four years. Assumes an annual growth of 0.5% for new construction for half- year of FY 2019, an estimated reassessment of 5% for a half-year in 2019 and full- year impact in 2020 and annual growth of 0.5% for new construction in FY 2021-2023.

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
2018	\$7,503,800	\$4,783,900	\$14,454,400	\$3,963,800	\$1,235,600	\$31,941,500
2019	\$8,052,000	\$4,831,739	\$15,182,576	\$4,082,714	\$1,186,173	\$33,335,202
2020	\$8,285,900	\$4,880,056	\$15,789,879	\$4,205,195	\$1,231,009	\$34,392,039
2021	\$8,326,550	\$4,928,857	\$16,421,474	\$4,331,351	\$1,255,629	\$35,263,861
2022	\$8,368,200	\$4,978,146	\$17,078,333	\$4,461,292	\$1,280,740	\$36,166,711
2023	\$8,410,100	\$5,027,927	\$17,761,467	\$4,595,130	\$1,306,356	\$37,100,980

¹ Reflects an average annual growth rate of 2.4%.

² Reflects an average annual growth rate of 1.0%.

³ Reflects an average annual growth rate of 4.5%.

⁴ Reflects an average annual growth rate of 3.2%.

⁵ Reflects an average annual growth rate of 1.7%.

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	
2018	\$5,378,558	-	\$9,757,674	-	\$2,345,965	-	\$8,566,298	-	\$26,048,495
2019	\$5,500,259	2.26%	\$9,979,893	2.28%	\$2,418,297	3.08%	\$8,676,191	1.28%	\$26,574,640
2020	\$5,535,203	0.64%	\$10,065,468	0.86%	\$2,434,077	0.65%	\$8,746,544	0.81%	\$26,781,292
2021	\$5,627,758	1.67%	\$10,235,635	1.69%	\$2,464,691	1.26%	\$8,886,611	1.60%	\$27,214,695
2022	\$5,732,940	1.87%	\$10,429,105	1.89%	\$2,499,660	1.42%	\$9,048,025	1.82%	\$27,709,730
2023	\$5,831,202	1.71%	\$10,609,300	1.73%	\$2,532,100	1.30%	\$9,196,240	1.64%	\$28,168,842

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

² Growth factors used for FY 2019 through FY 2023 average approximately 1.6%.

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	2009 Refunding Bond	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	Total Debt Service
2018	--	\$68,696	\$223,163	\$165,998	\$524,776	\$237,381	\$1,025,665	\$219,399	--	--	\$2,465,078
2019	\$150,000	\$68,696	\$218,922	\$166,352	\$523,015	\$235,581	\$1,025,295	\$216,731	--	--	\$2,604,592
2020	--	\$68,696	\$219,563	--	\$521,102	\$238,331	\$1,041,792	\$217,131	\$1,563,298	--	\$3,869,913
2021	--	\$17,174	\$219,883	--	\$523,986	\$235,556	\$1,028,493	\$217,331	\$1,548,331	--	\$3,790,754
2022	\$150,000	--	\$219,895	--	\$526,618	\$236,856	\$866,756	\$217,331	\$1,518,395	--	\$3,735,851
2023	--	--	\$219,593	--	\$523,725	\$238,056	\$854,181	\$217,131	\$1,488,460	\$847,875	\$4,389,021

¹ Future bond sales reflect a projected 4.5% interest rate for 20 years for FY 2017 and FY 2022 bonds and 30 years for FY 2019 bond.

General Fund Six-Year Projection of New Capital Financing Potential

(TABLE 8)

Fiscal Year	2018	2019	2020	2021	2022	2023
General Fund Item						
Projected Operating Revenue	\$31,941,500	\$33,335,202	\$34,392,039	\$35,263,861	\$36,166,711	\$37,100,980
New Bond Issue	\$1,695,000	\$3,257,000	\$16,700,000	\$150,000	\$900,000	\$7,875,000
Use/(Return) of Fund Balance	\$1,084,000	\$259,660	\$102,976	(\$333,602)	(\$1,371,820)	(\$672,408)
Less Projected Operating Expenditures	\$26,048,495	\$26,574,640	\$26,781,292	\$27,214,695	\$27,709,730	\$28,168,842
Less Projected Reoccurring Capital Expenditures	\$2,509,634	\$2,562,410	\$2,512,410	\$2,512,410	\$2,512,410	\$2,512,409
Less Debt Service	\$2,465,078	\$2,604,592	\$3,869,913	\$3,790,754	\$3,735,851	\$4,389,021
Net Capital Financing Potential	\$3,697,293	\$5,110,220	\$18,031,400	\$1,562,400	\$1,736,900	\$9,233,300
Debt Service as % of Operating Expenditure	8.65%	8.93%	12.63%	12.23%	11.88%	13.48%
Total Debt as a Percentage of Assessed Value	0.81%	1.38%	1.27%	1.19%	1.39%	1.30%

Note: Ten-year principal payout ratio for 2027 is 55.5% on existing debt and 41.5% 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
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%
2013	\$4,144,489	5.73%	\$4,080,082	1.10%	\$475,423	14.42%	\$209,273	7.17%	\$8,909,267	3.98%
2012	\$3,919,948	4.84%	\$4,035,748	(1.90)%	\$415,513	49.79%	\$195,275	(8.16)%	\$8,568,484	2.67%

¹Includes \$194,739 meter installations and connection fees for a large multi-family development.

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 ¹ Operating		Total Operating ² Expenditures	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2017	\$609,349	(12.07)%	\$2,153,468	6.69%	\$498,820	(9.98)%	\$3,072,194	0.34%	\$2,329,702	1.66%	\$8,663,533	0.52%
2016	\$693,021	18.99%	\$2,018,406	7.85%	\$554,097	(12.78)%	\$3,061,791	22.97%	\$2,291,648	(1.02)%	\$8,618,963	9.18%
2015	\$582,415	1.46%	\$1,871,577	5.12%	\$635,293	6.37%	\$2,489,847	3.60%	\$2,315,342	(1.69)%	\$7,894,474	2.39%
2014	\$574,028	4.01%	\$1,780,479	(6.94)%	\$597,262	4.63%	\$2,403,247	2.31%	\$2,355,229	6.84%	\$7,710,245	1.71%
2013	\$551,873	17.69%	\$1,904,023	6.54%	\$570,831	3.89%	\$2,348,860	12.43%	\$2,204,478	10.14%	\$7,580,065	9.92%
2012	\$468,921	9.79%	\$1,787,077	3.46%	\$549,431	3.00%	\$2,089,089	(7.97)%	\$2,001,471	1.95%	\$6,895,989	(0.36)%

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		
2018	\$5,695,000	\$360,900	\$274,000	\$6,329,900	\$4,510,000	\$328,100	\$15,800	\$4,853,900	\$137,700	\$11,321,500
2019	\$5,763,340	\$379,306	\$286,878	\$6,429,524	\$4,564,120	\$344,833	\$16,543	\$4,925,496	\$139,225	\$11,494,245
2020	\$5,832,500	\$389,926	\$294,337	\$6,516,763	\$4,618,888	\$354,488	\$16,973	\$4,990,351	\$140,788	\$11,647,902
2021	\$5,902,490	\$400,844	\$301,990	\$6,605,324	\$4,674,316	\$364,414	\$17,414	\$5,056,144	\$124,391	\$11,785,859
2022	\$5,973,320	\$412,068	\$309,841	\$6,695,229	\$4,730,408	\$374,618	\$17,866	\$5,122,892	\$112,733	\$11,930,854
2023	\$6,045,000	\$423,606	\$317,897	\$6,786,503	\$4,787,173	\$385,107	\$18,331	\$5,190,611	\$114,416	\$12,091,530

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

² Other Revenue includes Connection Charges and Line Extensions.

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

Six-Year Projection of Water and Sewer Operating Expenditures

(TABLE 12)

Fiscal Year	Payments to Water & Sanitation Authorities ¹	Operating Expenditures	Equipment Replacement	Total Operating Expenditures ²	Percent Change
2018	\$6,227,849	\$3,787,121	\$277,798	\$10,292,768	-
2019	\$6,302,583	\$3,847,351	\$289,512	\$10,439,446	1.43%
2020	\$6,378,214	\$3,908,231	\$289,512	\$10,575,957	1.31%
2021	\$6,454,753	\$3,971,950	\$289,512	\$10,716,215	1.33%
2022	\$6,532,210	\$4,036,985	\$289,512	\$10,858,707	1.33%
2023	\$6,610,596	\$4,103,369	\$289,512	\$11,003,477	1.33%

¹Based on wholesale water rates of \$3.08 per 1,000 gallons purchased for FY 2017-2022 and an annual growth of 1.2%.
²Does not include appropriations for debt service or capital outlay.

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

(TABLE 13)

Fiscal Year	2009 Refunding Bond	2011C Refunding Bond	2015 Refunding Bond	2017 Bond Sale	2022 Bond Sale	Total Debt Service	Net Revenue Coverage Of Debt Service
2018	\$35,946	\$371,830	\$266,866	\$100,389	--	\$775,031	1.99
2019	\$36,023	\$372,741	\$266,586	\$101,731	--	\$777,081	2.03
2020	--	\$368,553	\$272,489	\$99,531	--	\$740,573	1.92
2021	--	\$369,270	\$267,388	\$102,331	--	\$738,989	1.84
2022	--	\$369,839	\$130,725	\$99,931	\$45,671	\$646,166	2.05
2023	--	\$370,041	\$130,500	\$97,531	\$45,130	\$643,202	1.89

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

(TABLE 14)

Water & Sewer Fund Item	2018	2019	2020	2021	2022	2023
Projected Operating Revenue	\$11,321,500	\$11,494,245	\$11,647,902	\$11,785,859	\$11,930,854	\$12,091,530
Availability Fees	\$513,200	\$520,800	\$353,100	\$287,800	\$254,700	\$127,800
New Bond Issue	\$1,510,000	--	--	\$125,000	\$355,750	--
Use/(Return) of Cash Reserves	\$886,000	\$145,962	\$955,178	\$687,607	\$32,319	\$117,349
Less Projected Operating Expenditures	\$10,292,768	\$10,439,446	\$10,575,957	\$10,716,215	\$10,858,707	\$11,003,477
Less Debt Service	\$775,031	\$777,081	\$740,573	\$738,989	\$646,166	\$643,202
Net Capital Financing Potential	\$3,162,901	\$944,480	\$1,639,650	\$1,431,062	\$1,068,750	\$690,000

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	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2017	\$1,042,232	2.78%	\$26,334	(11.17)%	\$1,068,566	2.38%	\$160,976	8.33%	\$473,887	0.25%	\$634,863	2.19%
2016	\$1,014,048	93.77%	\$29,646	294.91%	\$1,043,694	96.62%	\$148,599	210.39%	\$472,685	208.39%	\$621,284	208.86%
2015	\$523,315	--	\$7,507	--	\$530,822	--	\$47,875	--	\$153,277	--	\$201,152	--
2014	--	--	--	--	--	--	--	--	--	--	--	--
2013	--	--	--	--	--	--	--	--	--	--	--	--
2012	--	--	--	--	--	--	--	--	--	--	--	--

Fund began January 1, 2015

¹ Does not include expenditures for debt service or capital outlay.

Six Years Projection of Storm Water Fund Operating Revenue and Expenditures

(TABLE 16)

Fiscal Year Ending	Storm Water Service Charges		Interest & Other Miscellaneous Revenues		Total Revenue		Personnel and Benefits		All Other Operating ¹		Total Operating Expenditures	
	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change	Amount	Percent Change
2018	\$1,035,000	-	\$18,000	-	\$1,053,000	-	\$166,191	-	\$552,509	-	\$718,700	-
2019	\$1,047,420	1.20%	\$28,180	56.56%	\$1,075,600	2.15%	\$170,230	2.43%	\$558,035	1.00%	\$728,265	1.33%
2020	\$1,059,989	1.20%	\$28,411	0.82%	\$1,088,400	1.19%	\$174,323	2.40%	\$563,615	1.00%	\$737,938	1.32%
2021	\$1,072,709	1.20%	\$28,591	0.63%	\$1,101,300	1.19%	\$178,709	2.52%	\$569,251	1.00%	\$747,960	1.35%
2022	\$1,085,581	1.20%	\$28,819	1.80%	\$1,114,400	1.19%	\$183,214	2.52%	\$574,942	1.00%	\$758,156	1.36%
2023	\$1,098,608	1.20%	\$28,992	0.60%	\$1,127,600	1.18%	\$187,840	2.52%	\$580,692	1.00%	\$768,532	1.36%

¹ Does not include expenditures for debt service or capital outlay.

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

(TABLE 17)

Storm Water Fund Item	2018	2019	2020	2021	2022	2023
Projected Operating Revenue	\$1,053,000	\$1,075,600	\$1,088,400	\$1,101,300	\$1,114,400	\$1,127,600
New Bond Issue	--	--	--	--	--	--
Use/(Return) of Cash Reserves	\$(41,300)	\$51,665	\$212,538	\$(20,340)	\$(25,244)	\$(26,068)
Less Projected Operating Expenditures	\$718,700	\$728,265	\$737,938	\$747,960	\$758,156	\$768,532
Less Reoccurring Capital Expenditures	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000
Net Capital Financing Potential	\$290,000	\$396,000	\$560,000	\$330,000	\$328,000	\$330,000

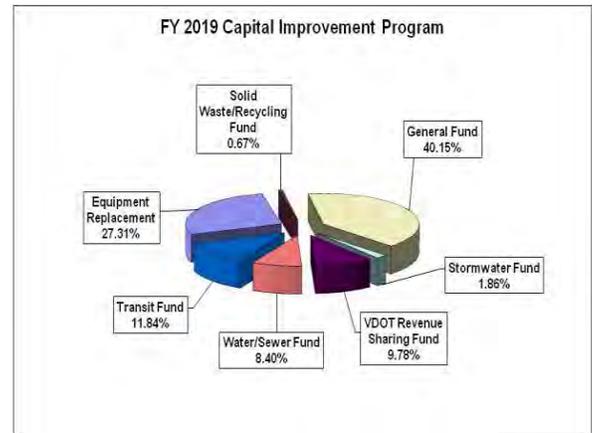
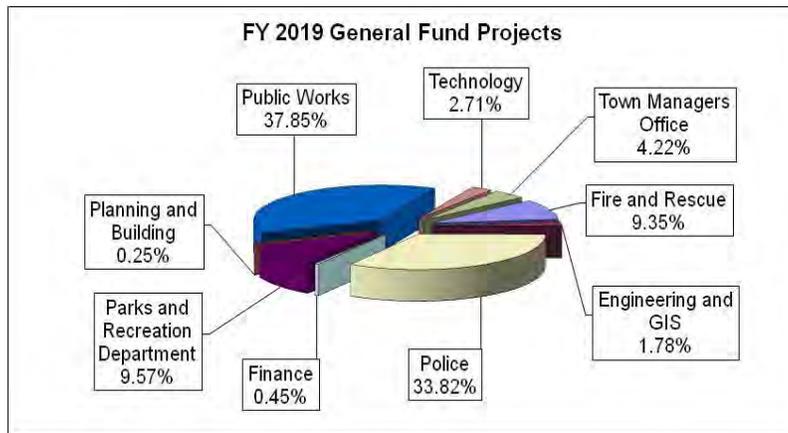
Capital Improvement Program Summary

Sources by Fund

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21 - FY 23	Total for 5 Yr CIP
Capital Project Funds						
General Obligation Bonds	\$ 29,302,750	\$ 240,000	\$ 3,107,000	\$ 16,700,000	\$ 9,255,750	\$ 29,062,750
General Funds	17,449,726	1,612,956	3,684,130	3,097,310	9,055,330	15,836,770
Donation	85,000	-	85,000	-	-	85,000
State - VDOT	1,838,000	-	393,000	455,000	990,000	1,838,000
Water/Sewer Funds	8,047,102	1,306,350	1,233,992	1,929,162	3,577,598	6,740,752
Stormwater Funds	2,448,000	655,000	336,000	438,000	1,019,000	1,793,000
Solid Waste/Recycling Funds	439,195	-	97,839	122,839	218,517	439,195
Replacement Funds	9,443,780	-	4,010,850	693,050	4,739,880	9,443,780
Transit Local Funds	939,969	-	173,906	318,290	447,773	939,969
State - DRPT	939,969	-	173,906	318,290	447,773	939,969
Federal - FTA	7,519,754	-	1,391,247	2,546,323	3,582,184	7,519,754
Total Capital Projects Funds	\$ 78,453,246	\$ 3,814,306	\$ 14,686,870	\$ 26,618,265	\$ 33,333,805	\$ 74,638,940

Uses by Capital Improvement Program Category

Category/Uses	Total Project Cost	Funded through 6/30/2018	FY19	FY20	FY21 - FY 23	Total for 5 Yr CIP
General Government	\$ 11,211,770	\$ 412,270	\$ 249,100	\$ 1,417,600	\$ 9,132,800	\$ 10,799,500
Finance	345,800	-	26,500	13,300	306,000	345,800
Fire and Rescue	3,119,415	-	551,083	523,583	2,044,749	3,119,415
Parks and Recreation	1,572,141	488,141	564,000	240,000	280,000	1,084,000
Planning and Buidling	15,000	-	15,000	-	-	15,000
Engineering and GIS	1,177,140	81,140	755,000	130,000	211,000	1,096,000
Police	18,867,125	162,000	1,994,025	15,494,025	1,217,075	18,705,125
Public Works	10,465,930	305,100	2,891,622	2,164,802	5,104,406	10,160,830
Technology	1,232,405	404,305	159,800	144,000	524,300	828,100
Water/Sewer	8,527,852	1,306,350	1,233,992	1,929,162	4,058,348	7,221,502
Stormwater	2,636,000	655,000	399,000	563,000	1,019,000	1,981,000
Transit	9,399,693	-	1,739,059	3,182,904	4,477,730	9,399,693
Solid Waste/Recycling	439,195	-	97,839	122,839	218,517	439,195
Equipment Replacement	9,443,780	-	4,010,850	693,050	4,739,880	9,443,780
Total Uses	\$ 78,453,246	\$ 3,814,306	\$ 14,686,870	\$ 26,618,265	\$ 33,333,805	\$ 74,638,940



Capital Improvement Program

Town Manager

TITLE: Emergency Preparedness Equipment

STATUS: In Progress

PROJECT DESCRIPTION:

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

OPERATING IMPACT: Minimal

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 307,270	\$ 37,270	\$ -	\$ 200,000	\$ 70,000	\$ -	\$ -	\$ 270,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 307,270	\$ 37,270	\$ -	\$ 200,000	\$ 70,000	\$ -	\$ -	\$ 270,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	307,270	37,270	-	200,000	70,000	-	-	270,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 307,270	\$ 37,270	\$ -	\$ 200,000	\$ 70,000	\$ -	\$ -	\$ 270,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 600,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	-							-	
Contractual Services	Continuing	Continuing	\$120,000	\$120,000	\$120,000	\$120,000	\$120,000	\$ 600,000	Continuing
Total Uses	Continuing	Continuing	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 120,000	\$ 600,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N./A						-

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, residential). The project funding for design and construction is limited to only a publicly funded parking garage. The possibility of other mixed uses and associated design and construction costs would be sought through a public/private partnership. The form and architectural aspects will also be studied with a focus on the appropriate interaction with the surrounding neighborhood and Progress Street streetscape.

OPERATING IMPACT: Long-term impact to be determined

GOAL ADDRESSED: Plan for additional downtown parking and future redevelopment

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 150,000	\$ 150,000						\$ -	
General Obligation Bonds	9,375,000	-		750,000		750,000	7,875,000	9,375,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 9,525,000	\$ 150,000	\$ -	\$ 750,000	\$ -	\$ 750,000	\$ 7,875,000	\$ 9,375,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,650,000	\$ 150,000		\$ 750,000		\$750,000		\$ 1,500,000	
Construction	7,875,000						7,875,000	7,875,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 9,525,000	\$ 150,000	\$ -	\$ 750,000	\$ -	\$ 750,000	\$ 7,875,000	\$ 9,375,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
TBD						-

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 that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2018	Summer 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	300,000			300,000				300,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 325,000	\$ 25,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	300,000			300,000				300,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 325,000	\$ 25,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ 300,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In Current Operating Budget						-

Capital Improvement Program

Housing and Neighborhood Services

TITLE: Progress Street Corridor Improvement Project (Visioning and Planning Phase)

STATUS: Previously Included

PROJECT DESCRIPTION:

The Housing and Neighborhood Services Office in partnership with various other Town departments will begin a visioning and planning phase for a neighborhood improvement project along the Progress Street corridor between Main Street and Jackson Street. Funding for this project will allow the initial visioning and planning process to begin with the identification of possible infrastructure and neighborhood improvements. The initial visioning and planning process will also define the scope and magnitude of the project and will build on the recommendations of the downtown planning study when it is complete in early 2018. Improvements may include streetscape, curb and gutter, sidewalks, storm water management, water, and sewer. This plan will be the foundation for a well thought out future capital plan along the Progress Street corridor.

OPERATING IMPACT: There will be no operating impact except for staff time associated with working on the visioning and planning phase.

GOAL ADDRESSED: Proactively plan for Virginia Tech's announced growth in enrollment; plan for the impacts of growth to maintain neighborhood quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2021	Spring 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
	-	-	-	-	-	-

Capital Improvement Program

Housing and Neighborhood Services

TITLE: Energy Efficiency Upgrades

STATUS: New

PROJECT DESCRIPTION:

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

- 1) Five Chimneys - \$16,500 - Insulation and air sealing in basement, crawlspace and attic; duct sealing.
- 2) Boatwright House - \$35,600 - Insulation and air sealing in basement and attic; duct air sealing.
- 3) Price House - \$11,600 - Insulation and air sealing in basement and attic.
- 4) Bennet House - \$26,000 - Insulation and air sealing in basement and attic.
- 5) Old Town Hall - \$26,200 - Insulation and air sealing in basement, attic, crawlspace, and exterior walls; duct air sealing.
- 6) Thomas Conner House - \$21,600 - Insulation and air sealing in basement and attic; duct replacement.

OPERATING IMPACT: The Sustainability Office will work with Public Works to determine a detailed scope of work to bid, based on recommendations from consultants. Public Works will also manage the construction for the upgrades. Work is coordinated with Public Works in a manner that doesn't effect building occupants.

GOAL ADDRESSED: These projects support the Town's environmental sustainability efforts and steps to implement the Town's Climate Action Plan by reducing emissions and energy costs.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 137,500	\$ -	\$ 52,100	\$ 37,600	\$ 47,800	\$ -	\$ -	\$ 137,500	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 137,500	\$ -	\$ 52,100	\$ 37,600	\$ 47,800	\$ -	\$ -	\$ 137,500	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	137,500	-	52,100	37,600	47,800	-	-	137,500	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 137,500	\$ -	\$ 52,100	\$ 37,600	\$ 47,800	\$ -	\$ -	\$ 137,500	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

Capital Improvement Program

Housing and Neighborhood Services

TITLE: Consulting Services for Future Efficiency Upgrades

STATUS: New

PROJECT DESCRIPTION:

The Public Works department is currently planning on large renovations of some of our facilities and their systems. In order to coordinate properly with Public Works a third party consultant is needed to ensure our practices are in coordination with our energy and emissions reductions goals in accordance with the Town of Blacksburg Climate Action Plan. Future projects include but aren't limited to: BMC renovations, Municipal Building renovations, and new HVAC systems at the Community Center.

OPERATING IMPACT: The Sustainability Office will work with Public Works to determine a detailed scope of work to bid, based on recommendations from consultants. Pulic Works will also manage the construction for the upgrades. Work is coordinated with Public Works in a manner that doesn't effect building occupants.

GOAL ADDRESSED: These projects support the Town's environmental sustainability efforts and steps to implement the Town's Climate Action Plan by reducing emissions and energy costs.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 50,000	\$ -	\$ 10,000	\$ 50,000	\$ -				

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	50,000	-	\$10,000	\$10,000	\$10,000	\$10,000	\$10,000	50,000	-
Total Uses	\$ 50,000	\$ -	\$ 10,000	\$ 50,000	\$ -				

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

Capital Improvement Program

Town Manager

TITLE: Downtown Kiosk Panel Replacement

STATUS: Previously Included

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ 17,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ 17,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ 17,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 17,000	\$ -	\$ 17,000	\$ -	\$ -	\$ -	\$ -	\$ 17,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 was replaced in FY 2012. 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
Summer 2018	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 26,500	\$ 13,300	\$ -	\$ -	\$ -	\$ 39,800	Continuing
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 26,500	\$ 13,300	\$ -	\$ -	\$ -	\$ 39,800	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	Continuing	Continuing	26,500	13,300				39,800	Continuing
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 26,500	\$ 13,300	\$ -	\$ -	\$ -	\$ 39,800	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget	-	-	-	-	-	-

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 at the end of FY 2010 and will be replaced in FY 2018. The I-Series has a useful life of five to seven years and is a stable and flexible platform for the integrated financial application. To ensure the Town can continue its excellent customer service to our citizens and Town departments, the I-Series will need to be replaced since it will be near the end of its useful life and to accommodate the growth of data history and new applications, such as analytical analysis tools.

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

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2023	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ -	\$ -	\$ -	\$ -	\$ 53,000	\$ 53,000	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ -	\$ -	\$ -	\$ -	\$ 53,000	\$ 53,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	-	-	-	-	53,000	53,000	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ -	\$ -	\$ -	\$ -	\$ 53,000	\$ 53,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget	-	-	-	-	-	-

TITLE: Grant Management Application

STATUS: Previously Included

PROJECT DESCRIPTION:

This project establishes funding for the acquisition of an integrated Grant Financial and Performance Management application. This application tracks grants with an easily accessible comprehensive repository that includes submitted and issued grants along with an audit trail conforming to the requirements of the issuing entity. This application will also help standardize the process for grant performance reporting that is becoming increasingly important in the current grant environment. This application should also integrate with a grant research tool to assist in the notification of grants the Town is eligible for. The Town needs more diverse revenue avenues and this application will identify more revenue sources and enable the efficient tracking and management without an increase in staff time.

OPERATING IMPACT: Annual support costs.

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
July, 2021	June, 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ 45,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ 45,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	45,000	-	-	-	-	45,000	-	45,000	-
Total Uses	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ 45,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Annual support cost	-	-	-	12,000	12,000	24,000

TITLE: Online Business License Application

STATUS: Previously Included

PROJECT DESCRIPTION:

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

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

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 43,000	\$ -	\$ -	\$ -	\$ -	\$ 43,000	\$ -	\$ 43,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 43,000	\$ -	\$ -	\$ -	\$ -	\$ 43,000	\$ -	\$ 43,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	22,500	-	-	-	-	22,500	-	22,500	-
Contractual Services	20,500	-	-	-	-	20,500	-	20,500	-
Total Uses	\$ 43,000	\$ -	\$ -	\$ -	\$ -	\$ 43,000	\$ -	\$ 43,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Annual support costs and credit card discount costs	-	-	-	7,500	7,500	15,000

Capital Improvement Program

Finance Department

TITLE: Time Entry Software and Equipment

STATUS: Previously Included

PROJECT DESCRIPTION:

This project establishes funding for the acquisition of hardware and a software application that integrates with the Town’s financial management system. This application is an effective option to electronically collect employee time and then directly interface it with the payroll application. This allows greater accountability and the ability to perform job costing without intense staff time. This will allow staff to spend more time analyzing information results rather than gathering it.

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 2022	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 165,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,000	\$ 165,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 165,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,000	\$ 165,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	\$ 165,000	-	-	-	-	-	\$ 165,000	\$ 165,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 165,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 165,000	\$ 165,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Annual support costs	-	-	-	-	\$ 18,500	\$ 18,500

Capital Improvement Program

Technology Department

TITLE: Technology Replacement

STATUS: Continuing

PROJECT DESCRIPTION:

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

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
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 69,800	\$ 54,000	\$ 58,100	\$ 57,400	\$ 65,800	\$ 305,100	Continuing
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 69,800	\$ 54,000	\$ 58,100	\$ 57,400	\$ 65,800	\$ 305,100	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	Continuing	Continuing	69,800	54,000	58,100	57,400	65,800	305,100	Continuing
Contractual Services	-							-	
Total Uses	Continuing	\$ -	\$ 69,800	\$ 54,000	\$ 58,100	\$ 57,400	\$ 65,800	\$ 305,100	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Technology Department

TITLE: Network Switch Equipment

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ 30,000	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ 30,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 60,000	\$ 30,000	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ 30,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	-	-	-	-	-	-	\$ -	-
Construction	-	-	-	-	-	-	-	-	-
Equipment	60,000	30,000	15,000	-	-	15,000	-	30,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 60,000	\$ 30,000	\$ 15,000	\$ -	\$ -	\$ 15,000	\$ -	\$ 30,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

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: Provides modern computer infrastructure for staff so they can perform their daily tasks.

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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 48,785	\$ 18,785	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 48,785	\$ 18,785	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	\$ 48,785	\$ 18,785	-	-	-	30,000	-	30,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 48,785	\$ 18,785	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Technology Department

TITLE: Wireless Replacement

STATUS: Previously Included

PROJECT DESCRIPTION:

This project funds the replacement of existing wireless systems every five years. Wireless systems allow staff to roam our 22 buildings and be seamlessly connected to the Town network. In addition service is available for key stakeholders of the Town, such as consultants, citizens and for other ad hoc wireless needs. Wireless controller replacement is evaluated every six - seven years.

OPERATING IMPACT: Minimal

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	25,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	25,000	-	25,000	-	-	-	-	25,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Technology Department

TITLE: Network Core Switch Equipment

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 170,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 70,000	\$ -	70,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 170,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 70,000	\$ -	\$ 70,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	170,000	100,000	-	-	-	70,000	-	70,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 170,000	\$ 100,000	\$ -	\$ -	\$ -	\$ 70,000	\$ -	\$ 70,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget	5,700	5,700	5,700	5,700	600	23,400

Capital Improvement Program

Technology Department

TITLE: Microsoft Office Software Licensing

STATUS: Continuing

PROJECT DESCRIPTION:

This project will fund the acquisition of Microsoft Office software for staff desktop computers. This will purchase licensing for the newer versions of the server software that has been released since the last licensing update in FY 2017. This licensing is evaluated every four 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
Continuing	Continuing

Funding Sources

Sources	Project Funding	through	FY19	FY20	FY21	FY22	FY23	Year CIP	Required
General Fund	\$ 111,000	\$ 63,000	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ 48,000	\$ -
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 111,000	\$ 63,000	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ 48,000	\$ -

Planned Uses

Uses	Cost	through	FY19	FY20	FY21	FY22	FY23	Year CIP	Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	111,000	63,000	-	-	48,000	-	-	48,000	
Contractual Services	-							-	
Total Uses	\$ 111,000	\$ 63,000	\$ -	\$ -	\$ 48,000	\$ -	\$ -	\$ 48,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Year CIP
In current operating budget						-

Capital Improvement Program

Technology Department

TITLE: Licensing Update - Servers

STATUS: Previously Included

PROJECT DESCRIPTION:

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

OPERATING IMPACT: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 60,000	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	60,000	-	30,000	-	-	30,000	-	60,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 60,000	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ 60,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Technology Department

TITLE: Server Room UPS Replacement

STATUS: New

PROJECT DESCRIPTION:

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

OPERATING IMPACT: Minimal

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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ -	45,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ 45,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	45,000	-	-	-	45,000	-	-	45,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000	\$ -	\$ -	\$ 45,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 235,000	\$ 115,000	\$ -	\$ 90,000	\$ -	\$ 30,000	\$ -	120,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 235,000	\$ 115,000	\$ -	\$ 90,000	\$ -	\$ 30,000	\$ -	\$ 120,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	235,000	-	-	90,000	-	30,000	-	120,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 235,000	\$ -	\$ -	\$ 90,000	\$ -	\$ 30,000	\$ -	\$ 120,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

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
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -	30,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 60,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	60,000	30,000	-	-	-	30,000	-	30,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 60,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -	\$ 30,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

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: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 92,520	\$ 47,520	\$ -	\$ -	\$ -	\$ -	\$ 45,000	45,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 92,520	\$ 47,520	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ 45,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	92,520	47,520	-	-	-	-	45,000	45,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 92,520	\$ 47,520	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ 45,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Technology Department

TITLE: Second Firewall

STATUS: New

PROJECT DESCRIPTION:

This project will fund the purchase and installation of a second, fail-over firewall for our Internet connection. It is a best practice for security purposes, and was noted in our security audit to have a second firewall in the event that the primary firewall becomes inoperative. This system will further ensure the integrity of Internet connections that are now critical to all town IT operations.

OPERATING IMPACT: Minimal

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	20,000	-	20,000	-	-	-	-	20,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Police Department

TITLE: Police Department - New Building

STATUS: In Progress

PROJECT DESCRIPTION:

The building where the Police Department is located was constructed in 1981 with an addition completed in 1991. At the time of original construction, the department had 25 police officers. Today the department has more than 60 police officers and the current building is not able to absorb any additional personnel. The training room is no longer available as a community room due to having to be converted to a roll call room. Offices have two to three occupants in spaces that were designed for one. Personnel have used converted closet spaces for offices. The department completed a feasibility study in 2013/14. The results of the study showed the need for both additional space for personnel, spaces to meet the needs of today and the future of the Police Department, as well as community space. The study shows the potential need for additional land to accommodate all of the space needs.

OPERATING IMPACT: Long-term operating costs to be determined

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 40,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	16,550,000	50,000	1,500,000	15,000,000				16,500,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 16,590,000	\$ 90,000	\$ 1,500,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 16,500,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,590,000	\$ 90,000	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000	\$ -
Construction	15,000,000			15,000,000				15,000,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 16,590,000	\$ 90,000	\$ 1,500,000	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 16,500,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
TBD						-

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: Ensuring a safe community and provide an interconnected, multi-modal transportation system that is safe and efficient, serves a diverse population, and supports land used

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 447,000	\$ 72,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ 375,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 447,000	\$ 72,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ 375,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	447,000	75,000	125,000	125,000	125,000	-	-	375,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 447,000	\$ 75,000	\$ 125,000	\$ 125,000	\$ 125,000	\$ -	\$ -	\$ 375,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	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: Modular Vehicle Barriers

STATUS: New

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 65,000	\$ -	\$ 16,000	\$ 16,000	\$ 18,000	\$ 15,000	\$ -	\$ 65,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 65,000	\$ -	\$ 16,000	\$ 16,000	\$ 18,000	\$ 15,000	\$ -	\$ 65,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	65,000	-	16,000	16,000	18,000	15,000	-	65,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 65,000	\$ -	\$ 16,000	\$ 16,000	\$ 18,000	\$ 15,000	\$ -	\$ 65,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Fire Department

TITLE: Turnout Gear

STATUS: In Progress

PROJECT DESCRIPTION:

Purchase additional turnout gear for all active members. This project is needed to be able to wash, dry and decontaminate gear after fires to remove contaminants. Additional gear allows firefighters to switch to second gear as the wet/dirty gear is processed.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2016	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 75,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 75,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	75,000	25,000	25,000	25,000	-	-	-	50,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 75,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Fire Department

TITLE: Station 2 Bunk Room

STATUS: New

PROJECT DESCRIPTION:

Built in the 1980's, Fire Station 2 on Prices Fork Road was built with a large single bunk room to accommodate multiple firefighters. As the fire service has changed over the past 30 years, it has become necessary to provide accommodations suitable for male and female firefighters.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Fall 2018

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 27,500		\$ 27,500					\$ 27,500	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 27,500	\$ -	\$ 27,500	\$ -	\$ -	\$ -	\$ -	\$ 27,500	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 2,500		\$ 2,500					\$ 2,500	
Construction	\$25,000		25,000					25,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 27,500	\$ -	\$ 27,500	\$ -	\$ -	\$ -	\$ -	\$ 27,500	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Rescue Department

TITLE: Cardiac Monitors/Defibrillators

STATUS: Continuing

PROJECT DESCRIPTION:

Effective cardiac monitoring and intervention is a critical aspect of advanced pre-hospital life support. Cardiac monitors and defibrillators have been shown to significantly improve the chances of survival in heart attacks and sudden cardiac events. The devices currently used by rescue were purchased in 2017 and have an expected lifespan of five to seven years. As science and technology improve, maintaining high quality equipment and training ensures 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, 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) chase vehicle arrives. These include all marked rescue and support vehicles.

OPERATING IMPACT: Costs 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 395,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 395,000	\$ 395,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 395,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 395,000	\$ 395,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	395,000	-	-	-	-	-	395,000	395,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 395,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 395,000	\$ 395,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Rescue Department

TITLE: Chest Compression System

STATUS: New

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 76,000	\$ -	\$ 38,000	\$ 38,000	\$ -	\$ -	\$ -	\$ 76,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 76,000	\$ -	\$ 38,000	\$ 38,000	\$ -	\$ -	\$ -	\$ 76,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	76,000	-	38,000	38,000	-	-	-	76,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 76,000	\$ -	\$ 38,000	\$ 38,000	\$ -	\$ -	\$ -	\$ 76,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Rescue Department

TITLE: Ambulance Replacement

STATUS: New

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 1872 to 3150 calls per year (a 68% increase). We do not intend to increase our ambulance fleet size but simply can't rely on the uncertainty of an unscheduled reserve ambulance much longer.

OPERATING IMPACT: 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 268,000	\$ -	\$ -	\$ -	\$ 268,000	\$ -	\$ -	\$ 268,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 268,000	\$ -	\$ -	\$ -	\$ 268,000	\$ -	\$ -	\$ 268,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	268,000	-	-	-	268,000	-	-	268,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 268,000	\$ -	\$ -	\$ -	\$ 268,000	\$ -	\$ -	\$ 268,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Public Works Department

TITLE: Parking Lot Repaving, Sealing and Striping

STATUS: Continuing

PROJECT DESCRIPTION:

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

1. FY2018/19 Funding is reserved for Public Works Employee Lot.
2. FY2019/20 Funding is reserved for Public Works Back Lot.
3. FY2020/21 Funding is reserved for Caboose Park Parking Lot.
4. FY2021/22 Funding is reserved for Toms Creek Ballfield Parking Lot.
5. FY2022/23 Funding is reserved for Recreation Center and Community Center Parking Lots.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 35,000	\$ 140,000	\$ 75,000	\$ 50,000	\$ 120,000	\$ 420,000	Continuing
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 35,000	\$ 140,000	\$ 75,000	\$ 50,000	\$ 120,000	\$ 420,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	35,000	140,000	75,000	50,000	120,000	420,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 35,000	\$ 140,000	\$ 75,000	\$ 50,000	\$ 120,000	\$ 420,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 the past years include fire escape replacement, floor refinishing, interior and exterior painting, shutter replacement and porch repairs.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Roof Replacement

STATUS: Continuing

PROJECT DESCRIPTION:

This project funds the replacement of membrane, metal or shingle roofs on town-owned buildings that have exceeded their useful life. This project includes funding in FY 2018/2019 to replace the membrane roof on the Recreational Center Senior Center wing.

All funding requests include associated engineering fees where required to accomplish the roof replacement and all work will be performed by an outside contractor. All roof replacement projects will incorporate sustainable building techniques where practicable to enhance the energy performance of the new roof system and lower life cycle costs of the building.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 60,500	\$ -	\$ -	\$ -	\$ -	\$ 60,500	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 60,500	\$ -	\$ -	\$ -	\$ -	\$ 60,500	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ 3,000	Continuing
Construction	Continuing	Continuing	57,500	-	-	-	-	57,500	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ -	\$ -	\$ 60,500	\$ -	\$ -	\$ -	\$ -	\$ 60,500	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Town Building Masonry Repair

STATUS: In Progress

PROJECT DESCRIPTION:

This project funds the restoration of masonry and brick at Town buildings. Current funds are being allocated for the research on center nonstructural interior cracks. FY 2018/19 funding is reserved for Five Chimneys - exterior rehabilitation of mortar and exterior bricks. FY 2019/20 funding is reserved for exterior rehabilitation of mortar and exterior bricks at The Thomas Connor House.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 90,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 90,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	90,000	30,000	30,000	30,000	-	-	-	60,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 90,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Major Facilities Repair and Maintenance

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing
Construction	-							-	
Equipment	Continuing	Continuing	80,000	80,000	80,000	80,000	80,000	400,000	Continuing
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Transfer to Equipment Depreciation Fund

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 629,489	\$ 629,489	\$ 629,489	\$ 629,489	\$ 629,489	\$ 3,147,445	Continuing
Police	Continuing	Continuing	338,025	338,025	338,025	338,025	338,025	1,690,125	Continuing
Rescue	Continuing	Continuing	172,083	172,083	172,083	172,083	172,083	860,415	Continuing
Fire	Continuing	Continuing	288,500	288,500	288,500	288,500	288,500	1,442,500	Continuing
Water/Sewer Fund	Continuing	Continuing	289,512	289,512	289,512	289,512	289,512	1,447,560	Continuing
Storm Water Fund	Continuing	Continuing	3,000	3,000	3,000	3,000	3,000	15,000	Continuing
Solid Waste Fund	Continuing	Continuing	72,839	72,839	72,839	72,839	72,839	364,195	Continuing
Total Sources	Continuing	Continuing	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 8,967,240	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	8,967,240	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 1,793,448	\$ 8,967,240	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund							
402	FD-02	Truck-Ladder-Platform	1999	20	1,300,000	65,000	2019
891	FD-28	Sedan, Full Size	2009	10	35,000	3,500	2019
914	FD-29	SUV, Full Size, w/add ons	2009	10	62,000	6,200	2019
771	FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	62,000	4,133	2021
1092	FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	60,000	7,500	2021
1154	FD-13	Truck-Brush	2015	8	100,000	12,500	2023
1124	FD-14	Box Truck -Special Purpose	2014	10	90,000	9,000	2024
829	FD-03	Truck-Ladder	2007	20	900,000	45,000	2027
On Order	FD-09	Pumper	2017	10	700,000	70,000	2027
Will Be Ordered	FD-11	Truck-Brush	2018	15	85,000	5,667	2033
1117	FD-05	Mobile Air Unit (Chassis)	2013	20	500,000	25,000	2033
On Order	FD-10	Pumper	2018	20	700,000	35,000	2038
			Fund Total:		\$4,594,000	\$288,500	
General Fund							
955	AS-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
960	AS-503	Truck-Dump, 4WD, snow	2010	9	130,000	14,444	2019
893	AS-602	Asphalt Maintainer (new verison)	2009	15	154,000	10,267	2019
894	BD-405	Truck-Pickup, 1 ton 4WD, util bed	2009	10	55,000	5,500	2019
446	EO-901	Trailer, Low Boy	2001	18	100,000	5,556	2019
430	GC-805	Mower-Greens	1999	20	35,000	1,750	2019
750	GC-810	Sprayer	2006	13	30,000	2,308	2019
	PW-02	Mowers (2)	2012	7	25,000	3,571	2019
775	PW-401	Truck-Pickup, 1/2 ton 4WD	2007	12	25,000	2,083	2019
957	SD-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
959	SD-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
953	SW-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
1029	TE-901	Message Board, Solar Powered	2012	7	20,000	2,857	2019
1013	TM-101	SUV, Economy 4WD	2012	7	30,000	4,286	2019
941	CE-808	Gator Toolcat	2010	10	50,000	5,000	2020
447	MP-502	Truck-Dump, Tandem, snow	2007	13	135,000	10,385	2020
1015	SW-401	Truck-Pickup, 1 ton 4WD util bed	2012	8	50,000	6,250	2020
1035	TE-401	Truck, Bucket	2012	8	150,000	18,750	2020
1054	CC-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	50,000	6,250	2021
1053	CE-401	Truck-Pickup, 1 ton 4WD	2013	8	42,000	5,250	2021

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement		Recommended Replacement
					Cost	Depreciation	
General Fund - continued							
947	HT-405	Truck-F550 Flatbed	2009	12	50,000	4,167	2021
	PW-03	Mowers (2)	2014	7	25,000	3,571	2021
1044	RC-302	Van, 15-Passenger	2013	8	30,000	3,750	2021
1055	SD-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	50,000	6,250	2021
1121	AS-903	Asphalt Patching Equipment	2014	8	80,000	10,000	2022
1016	CE-701	Backhoe	2012	10	125,000	12,500	2022
	GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
1155	GC-811	Mower-Greens	2015	7	35,000	5,000	2022
1095	HT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
940	HT-801	Bobcat Toolcat	2010	12	50,000	4,167	2022
1116	HT-802	ATV	2014	8	15,000	1,875	2022
1101	MP-401	Truck-Pickup, F550 4WD, dump bed	2014	8	55,000	6,875	2022
1115	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
1098	PW-201	Sedan, Economy	2014	8	25,000	3,125	2022
807	SW-701	Backhoe	2007	15	125,000	8,333	2022
1162	AS-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
1147	BD-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2015	8	30,000	3,750	2023
1160	BD-402	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
1059	BD-601	Scissor Lift with Trailer	2013	10	20,000	2,000	2023
870	CH-101	SUV, Economy 2WD	2008	15	25,000	1,667	2023
1172	GC-601	Sand Trap Rake	2015	8	30,000	3,750	2023
1093	HT-501	Truck- Dump, Water	2013	10	110,000	11,000	2023
875	HT-702	Loader, Skid Steer	2008	15	45,000	3,000	2023
1194	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
1179	SW-601	Saw, Walk Behind	2015	8	27,000	3,375	2023
1125	PI-301	Van, Economy Cargo	2014	10	20,000	2,000	2024
1168	AS-606	Sweeper-Street	2016	8	300,000	37,500	2024
1025	AS-703	Loader	2012	12	175,000	14,583	2024
1087	CC-701	Excavator, Mini 50	2014	10	70,000	7,000	2024
1102	CC-901	Trailer, 28' Deckover Tilt	2014	10	20,000	2,000	2024
1108	EG-101	SUV, Economy 2WD	2014	10	25,000	2,500	2024
1084	EO-502	Truck, Service Crane	2014	10	180,000	18,000	2024

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund - continued							
1200 & 1201	GC-02	Blowers, Debris (2) GC-903 & GC-904	2016	8	15,000	1,875	2024
1199	GC-804	Utility Cart w/ bed lift	2016	8	15,000	1,875	2024
1023	GC-806	Mower-Fairway, 4WD	2012	12	50,000	4,167	2024
1126	GR-801	Tractor, Side Mower	2014	10	150,000	15,000	2024
1146	MP-503	Truck-Dump, Tandem, snow	2015	9	150,000	16,667	2024
	PW-06	Mowers (3)	2017	7	37,500	5,357	2024
1107	ST-101	SUV, Economy 4WD	2014	10	30,000	3,000	2024
1211	AS-501	Truck-Dump, Tandem, snow	2016	9	185,000	20,556	2025
1150	AS-704	Loader, Compact Track	2015	10	80,000	8,000	2025
697	EO-501	Road Tractor	2005	20	100,000	5,000	2025
1249	EG-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2017	8	30,000	3,750	2025
New Addition	GR-810	Mowing Tractor, Slope w/snow attach	2018	7	32,000	4,571	2025
1218	PK-809	Ballfield Rake 3 Wheel	2017	8	25,000	3,125	2025
1232	PS-403	Truck-Pickup, 1 ton 4WD, util bed	2017	8	55,000	6,875	2025
	PW-01	Mowers (2)	2018	7	25,000	3,571	2025
1233	TE-402	Truck-Pickup, 1 ton 4WD, util bed	2017	8	55,000	6,875	2025
New Addition	TE-902	Message Board	2018	7	17,000	2,429	2025
	TR-01	Trailers (7) - PW	2009	16	33,850	2,116	2025
Will Be Ordered	HT-403	Truck-Pickup, F550 4WD, flatbed	2018	7	55,000	7,857	2025
1169	AS-701	Backhoe w/attachments	2016	10	135,000	13,500	2026
Will Be Ordered	BD-403	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
Will Be Ordered	GC-04	5 Gang Mower	2018	8	35,000	4,375	2026
On Order	GR-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
On Order	HT-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
On Order	HT-404	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
1204	IN-102	SUV, Economy 4WD	2016	10	30,000	3,000	2026
1184	IN-105	SUV, Economy 4WD	2016	10	25,000	2,500	2026
Will Be Ordered	PK-401	Truck-Pickup, 1 ton 4WD	2018	8	42,000	5,250	2026
On Order	PK-403	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
1178	SD-701	Backhoe w/attachments	2016	10	135,000	13,500	2026
1265	CS-302	Van, Standard Cargo w/add-ons	2017	10	30,000	3,000	2027
1226	GC-901	Leaf Vac w/Hopper	2017	10	32,000	3,200	2027
Will Be Ordered	GS-101	Sedan, Economy Electric	2018	10	25,000	2,500	2028
On Order	IN-101	SUV, Economy 2WD	2018	10	25,000	2,500	2028
On Order	IN-104	SUV, Economy 4WD	2018	10	30,000	3,000	2028

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund - continued							
Will Be Ordered	PW-101	Sedan, Economy Electric	2018	10	25,000	2,500	2028
On Order	RC-101	SUV, Economy 2WD	2018	10	25,000	2,500	2028
Will Be Ordered	RC-303	Van, 23-Passenger	2018	10	80,000	8,000	2028
New Addition	SE-802A	Tractor, 4WD (Same as SE-802)	2018	10	42,500	4,250	2028
New Addition	VP-101	SUV, Economy 4WD	2018	10	30,000	3,000	2028
1224	GC-401	Truck-Pickup, 1 ton 4WD w/dump bed	2017	12	45,000	3,750	2029
1250	GC-801	Tractor, 40 HP	2017	13	70,000	5,385	2030
Will Be Ordered	SD-901	Vaxcavator	2018	12	90,000	7,500	2030
			Fund Total:		\$5,970,850	\$629,489	
Police Fund							
1010	PD-1102	SUV, Police Package-Marked, w/add ons	2011	8	50,000	6,250	2019
1012	PD-1104	SUV, Police Package-Marked, w/add ons	2011	8	50,000	6,250	2019
1014	PD-1105	Sedan, Full Size, unmarked	2011	8	30,000	3,750	2019
1024	PD-1201	Van - Jail	2012	8	50,000	6,250	2020
1063	PD-1301	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1064	PD-1302	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1065	PD-1303	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1066	PD-1304	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1067	PD-1305	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1068	PD-1306	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1071	PD-1307	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1072	PD-1308	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1061	PD-1309	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1048	PD-1310	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
1049	PD-1311	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
1050	PD-1312	SUV-Unmarked	2013	8	35,000	4,375	2021
1069	PD-1313	SUV, Standard-Marked w/add ons	2013	8	50,000	6,250	2021
1089	PD-1319	SUV, Standard-Marked w/add ons	2013	8	50,000	6,250	2021
1111	PD-1314	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1112	PD-1315	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1113	PD-1316	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1114	PD-1317	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1103	PD-1320	Motorcycle-Marked	2014	8	32,000	4,000	2022
1104	PD-1321	Motorcycle-Marked	2014	8	32,000	4,000	2022
1090	PD-1401	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement		Recommended Replacement
					Cost	Depreciation	
Police Fund - continued							
1091	PD-1402	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
1110	PD-1403	SUV, Standard-Marked w/add ons	2014	8	50,000	6,250	2022
1144	PD-1408	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
856	PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
1140	PD-1404	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1141	PD-1405	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1142	PD-1406	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1143	PD-1407	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1145	PD-1409	SUV, Standard 4WD, unmarked w/add	2015	8	35,000	4,375	2023
1173	PD-1601	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1174	PD-1602	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1175	PD-1603	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1176	PD-1604	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1177	PD-1605	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1180	PD-1606	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
1189	PD-1607	SUV, Full Size-Marked, w/add ons	2016	8	53,000	6,625	2024
1203	PD-1608	SUV, Standard 4WD, unmarked w/add	2016	8	35,000	4,375	2024
1220	PD-1701	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
1221	PD-1702	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
1228	PD-1703	Truck-Pickup, 1 ton 4WD, marked	2017	8	50,000	6,250	2025
1231	PD-1704	SUV, Standard 4WD, unmarked w/add	2017	8	35,000	4,375	2025
1234	PD-1705	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
1235	PD-1706	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
1236	PD-1707	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
1237	PD-1708	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
1238	PD-1709	SUV, Full Size-Marked, w/add ons	2017	8	53,000	6,625	2025
1254	PD-1609	Polaris Gem EZ Electric	2017	8	15,000	1,875	2025
On Order	PD-1003	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1004	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1005	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1006	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1007	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1008	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
On Order	PD-1009	SUV, Police Package-Marked, w/add ons	2018	8	50,000	6,250	2026
Fund Total:					\$2,728,000	\$338,025	

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Rescue Fund							
804	RS-R53	Truck-Pickup, 1 ton 4WD w/add ons	2007	12	70,000	5,833	2019
1094	RS-M53	Ambulance	2013	8	250,000	31,250	2021
1158	RS-C53	Tahoe 4WD	2015	8	60,000	7,500	2023
1156	RS-M56	Ambulance-Type II	2015	8	250,000	31,250	2023
1157	RS-R51	Tahoe 4WD	2015	8	60,000	7,500	2023
On Order	RS-M57	Ambulance, Type II	2018	8	250,000	31,250	2026
Will Be Ordered	RS-R52	Suburban, 4WD	2018	10	75,000	7,500	2028
1206	RS-S51	Rescue Crash Truck	2015	20	1,000,000	50,000	2035
			Fund Total:		\$2,015,000	\$172,083	
Stormwater Utility Fund							
1182	EG-103	SUV, Economy 4WD	2016	10	30,000	3,000	2026
			Fund Total:		\$30,000	\$3,000	
Waste Management Fund							
888	WM-201	Sedan, Economy Hybrid	2009	10	25,000	2,500	2019
958	WM-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
952	WM-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
938	WM-905	Leaf Machine	2009	12	35,000	2,917	2021
939	WM-906	Leaf Machine	2009	12	35,000	2,917	2021
1139	WM-802	Sweeper-Sidewalk	2015	8	36,000	4,500	2023
1192	WM-902	Leaf Machine	2016	8	35,000	4,375	2024
1193	WM-903	Leaf Machine	2016	8	35,000	4,375	2024
Will Be Ordered	LB-01	Leaf Boxes (6) - PW	2015	10	51,000	5,100	2025
1263	WM-904	Leaf Machine	2018	9	35,000	3,889	2027
	WM-503	Loader, Knuckle Boom	2018	10	156,000	15,600	2028
			Fund Total:		\$683,000	\$72,839	
Water & Sewer Fund							
897	SE-404	Truck-Pickup, 1 ton 4WD, util bed	2009	10	55,000	5,500	2019
822	SE-701	Backhoe	2007	12	125,000	10,417	2019
954	WA-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
956	WA-502	Truck-Dump, Tandem, snow	2010	9	130,000	14,444	2019
579	WA-601	Asphalt Milling Machine	2004	15	71,000	4,733	2019
698	PS-902	Sewer Pump	2005	15	74,000	4,933	2020
	SE-404A	Sewer TV System	2012	8	100,000	12,500	2020
1051	UT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2013	8	30,000	3,750	2021
1099	SE-401	Truck-Pickup, 1 ton 4WD util bed	2014	8	50,000	6,250	2022

TRANSFER TO EQUIPMENT DEPRECIATION FUND

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement		Recommended Replacement
					Cost	Depreciation	
Water & Sewer Fund - continued							
1096	UB-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
1097	UT-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
1163	PS-401	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
1062	SE-502	Sewer Truck-Combo Washer/Vax	2013	10	400,000	40,000	2023
1106	SE-703	Loader, Heavy Track	2013	10	300,000	30,000	2023
1159	WA-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
1041	WA-706	Excavator, Mint with Trailer	2013	10	70,000	7,000	2023
1190	SE-901	Light Tower	2016	8	22,000	2,750	2024
1262	SE-907	Sewer Washer w/Trailer	2017	7	45,000	6,429	2024
1204	UB-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2016	8	30,000	3,750	2024
1251	SE-405	Truck-Pickup, F550 4WD, util bed	2017	8	55,000	6,875	2025
1210	SE-503	Truck-Dump, 4WD, non-snow	2016	9	185,000	20,556	2025
1148	WA-704	Loader, Skid Steer w/attachments	2015	10	80,000	8,000	2025
Will Be Ordered	PS-402	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
Will Be Ordered	SE-403	Truck-Pickup, 1 ton 4WD, util bed	2018	8	55,000	6,875	2026
1186	WA-702	Excavator, Heavy Track and Trailer	2016	10	275,000	27,500	2026
On Order	WA-602	Roller, Utility Trench Compactor	2017	10	35,000	3,500	2027
Will Be Ordered	SE-702	Excavator, Mini with Trailer	2018	10	70,000	7,000	2028
New Addition	SE-802	Tractor, 4WD (same as SE-802A)	2018	10	42,500	4,250	2028
1242	WA-701	Backhoe	2017	12	125,000	10,417	2029
Fund Total:					\$2,774,500	\$289,512	
Grand Total:					\$18,795,350	\$1,793,448	

Capital Improvement Program

Public Works Department

TITLE: Transfers to Building Systems Depreciation Fund

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 776,565	Continuing
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 776,565	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	Continuing	Continuing	155,313	155,313	155,313	155,313	155,313	776,565	Continuing
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 155,313	\$ 776,565	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

Aquatic Center	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	Heat Exchanger - Spa	2005	20	\$13,200	\$660	2025
	Heat/cool roof top package unit - Lobby Area	2005	15	\$11,000	\$733	2020
	Z pack duct energy recovery system heat w/ duct heater	2018	20	\$60,000	\$3,000	2038
	1 gas fired domestic water heater	2015	20	\$20,000	\$1,000	2035
	1 gas fired boiler	1992	27	\$75,000	\$2,778	2019
	Energy Recovery Unit/ heat-air-dem-Pool Area (Dectron)	2003	16	\$330,000	\$20,625	2019
	A - Heat Exchangers - Pool	2015	20	\$8,000	\$400	2035
	B - Heat Exchangers - Pool	2018	20	\$8,000	\$400	2038
	Spa Pumps - Heat - A	2017	20	\$2,772	\$139	2037
	Spa Pumps - Heat - B	2017	20	\$2,772	\$139	2037
	Pool Pumps - Heat - A	1992	28	\$3,500	\$125	2020
	Pool Pumps - Heat - B	1992	28	\$3,500	\$125	2020
	Building Pump - Heat - A	1992	30	\$5,740	\$191	2022
	Building Pump - Heat - B	1992	30	\$5,740	\$191	2022
				\$549,224	\$30,506	

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

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

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

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

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

Golf Course Maintenance Shop	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	3 Gas Furnace	2011	20	\$9,000	450	2031
				\$9,000	\$450	

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

Municipal Building	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	1 A/C ductless split system computer room	2012	15	\$11,000	\$733	2027
	1 A/C ductless split system computer room	2012	15	\$11,000	\$733	2027
	roof top package HVAC, 1st and 2nd floor	2012	20	\$145,000	\$7,250	2032
	VRF A/C system w/ ERV 3rd floor	2012	15	\$75,000	\$5,000	2027
	A/C split system Town Hall Conference Room, 1st floor	2017	15	\$4,000	\$267	2032
	Roof top package w/ gas heat council chambers	2017	20	\$22,000	\$1,100	2037
	Roof top A/C unit council chambers	2017	20	\$4,000	\$200	2037
	A/C condenser split system court offices	2001	18	\$7,700	\$428	2019
	Indoor air handler court offices	1992	27	\$5,000	\$185	2019
	Indoor duct heater court offices	1992	27	\$9,000	\$333	2019
	control system court offices	1992	27	\$5,000	\$185	2019
	Packaged Terminal Heat Pump break room, 1st floor	2017	10	\$1,500	\$150	2027
	Domestic water heater 1st floor	2007	15	\$12,100	\$807	2022
	Elevator	2012	30	\$98,000	\$3,267	2042
				\$410,300	\$20,638	

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

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

Police Department Building	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	roof top cooling & heating unit - Chief Area	2003	20	\$15,000	\$750	2023
	roof top cooling & heating unit - Training Room	2003	20	\$10,000	\$500	2023
	1 roof top cooling & heat unit - Jail	1999	20	\$12,000	\$600	2019
	1 pneumatic control system	1982	37	\$16,500	\$446	2019
	1 gas fired boiler	1982	37	\$27,500	\$743	2019
	2 a/c condenser split systems	1998	21	\$8,800	\$419	2019
	1 VAV Controller	1992	27	\$8,800	\$326	2019
	2 custom built air handler w/hot water heat	1982	37	\$12,000	\$324	2019
	a/c system heat w/electric furnace - evidencne area	2000	20	\$4,000	\$200	2020
	1 A/C Ductless Split Sys. - record room/IT	2013	20	\$7,200	\$360	2033
	1 A/C Ductless Split Sys. - Fusion Center	2017	20	\$10,578	\$529	2037
				\$132,378	\$5,197	

Police Storage Building	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	1 gas fired furnace	1999	20	\$3,850	\$193	2019
				\$3,850	\$193	

Police Communication Building - Clay Street	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	4 a/c units w/electric heat	1997	22	\$24,000	\$1,091	2019
				\$24,000	\$1,091	

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

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
Price House					
2 a/c split ductless heat pumps	2009	15	\$20,000	\$1,333	2024
			\$20,000	\$1,333	
Price's Fork Rd. Fire House					
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
2 split a/c systems	2005	15	\$17,600	\$1,173	2020
2 forced air furnaces	1991	29	\$8,800	\$303	2020
2 infrared tube heaters	1991	30	\$8,800	\$293	2021
2 a/c & heat pump systems (LG)	2014	15	\$12,500	\$833	2029
			\$47,700	\$2,603	
Progress St. Fire House					
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
1 pneumatic control system	1986	33	\$16,500	\$500	2019
1 gas fired boiler - main level and basement	1986	33	\$38,500	\$1,167	2019
1 gas fired boiler - Bay area	1986	33	\$35,000	\$1,061	2019
3 roof top a/c package units	1991	28	\$33,000	\$1,179	2019
2 split a/c systems	1996	23	\$17,600	\$765	2019
ductless heat pump dual zone unit	2007	20	\$6,000	\$250	2027
2 hanging air handler - bay area	1983	36	\$10,000	\$278	2019
Exterior Vertical Lift	2012	15	\$15,000	\$1,000	2027
			\$170,600	\$6,199	
Purchasing Warehouse					
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
Horizontal Furnace forced gas	2018	21	\$1,650	\$79	2039
1 split a/c system	2018	10	\$8,800	\$880	2028
Exhaust Fan warehouse area	1997	21	\$880	\$42	2018
2 large gas fired hanging heater - carpenter shop	2011	15	\$15,000	\$1,000	2026
Mechanical Pit leveler	2017	30	\$7,560	\$252	2047
Edge of Dock leveler	2015	30	\$2,100	\$70	2045
ductless split system - technology	2006	20	\$5,000	\$250	2026
small unit gas fired hanging heater - meter room	1999	20	\$4,000	\$200	2019
2 large gas fired hanging heater - warehouse	2012	20	\$10,000	\$500	2032
A/C ductless split sys. (controlled temperature room)	2016	15	\$3,000	\$200	2031
			\$57,990	\$3,472	
PW Administration Building					
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
1 forced air gas fired furnace - training	2004	16	\$4,950	\$309	2020
1 split a/c system - training	2004	16	\$3,300	\$206	2020
1 forced air gas horizontal furnace admin	1998	21	\$3,300	\$157	2019
1 split a/c system - admin	1998	21	\$4,950	\$236	2019
1 forced air gas fired furnace - lunchroom	2000	19	\$3,300	\$174	2019
1 split a/c system - lunchroom	2000	19	\$4,950	\$261	2019
			\$24,750	\$1,343	
PW Storage Buildings					
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
1 gas fired furnace - sign shop	2011	15	\$3,200	\$213	2026
1 gas fired unit heat - green shed	2012	15	\$3,200	\$213	2027
1 gas fired unit heat - New PW shed	2012	15	\$3,200	\$213	2027
1 gas fire unit heat - landscape shed	2000	19	\$3,200	\$168	2019
			\$12,800	\$808	

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

Recreation Center	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	6 hot water air handlers - gym & locker room	1981	38	\$132,000	\$3,474	2019
	1 pneumatic temperature control system	1981	38	\$16,500	\$434	2019
	3 gas fired boiler	2005	30	\$33,000	\$1,100	2035
	1 roof top a/c package unit computer lab & office	2012	20	\$8,500	\$425	2032
	1 ERV computer & office area	2012	20	\$9,000	\$450	2032
	2 roof top package unit gas - art room & senior	2018	20	\$20,000	\$1,000	2038
	4 LG Split Systems - multipurpose room	2013	20	\$21,000	\$1,050	2033
	1 ERV multipurpose room	2013	20	\$13,000	\$650	2033
	1 roof top package - program room	2014	20	\$13,000	\$650	2034
	1 roof top package - social room	2014	20	\$8,100	\$405	2034
	1 ERV program and social room	2014	20	\$9,000	\$450	2034
	1 roof top package with dehumidifier weight/exercise room	2009	20	\$12,000	\$600	2029
	1 ERV in weight/exercise room	2009	20	\$4,000	\$200	2029
				\$299,100	\$10,888	

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

PW - Town Garage	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	1 waste oil fired furnace	2006	20	\$8,800	\$440	2026
	4 gas fired tube heaters	2004	20	\$9,900	\$495	2024
	2 window a/c unit	2016	10	\$1,200	\$120	2026
	5 infrared heating units	1997	22	\$9,000	\$409	2019
	2 electric heating units ceiling	2000	20	\$1,200	\$60	2020
	Air compressor w dryer	2008	11	\$25,000	\$2,273	2019
	2 post heavy duty lift - 12000	2017	15	\$7,530	\$502	2032
	2 post heavy duty lift - 18000	2017	15	\$19,301	\$1,287	2032
	2 post heavy duty lift - 18000	2006	15	\$20,000	\$1,333	2021
	Hot water pressure washer	2007	10	\$5,000	\$500	2017
	Exhaust evacuation system	2012	20	\$50,000	\$2,500	2032
	Portable Lift system	2017	15	\$74,900	\$4,993	2032
				\$231,832	\$9,919	

Blacksburg Motor Company	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	14 Water Source Heat Pumps	2008	20	\$56,000	\$2,800	2028
	1 Geothermal Loop	2008	30	\$90,000	\$3,000	2038
	4 Building Sump Pumps	2008	11	\$4,200	\$382	2019
	5 Ductless Split A/C Units	2008	15	\$12,500	\$833	2023
	1 Subsurface Ventilation System	2011	10	\$5,000	\$500	2021
	1 Engine Generator	2008	20	\$55,000	\$2,750	2028
	1 elevator system	2008	40	\$95,000	\$2,375	2048
				\$317,700	\$12,640	

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

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

Odd Fellows Hall and Annex						
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement	
1 Daikin heat pump with 2 indoor fan coils	2009	15	\$10,000	\$667	2024	
1 split system heat pump with electric heat	2009	15	\$6,000	\$400	2024	
			\$16,000	\$1,067		
Alexander Black House						
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement	
2 Heat Pump systems	2014	20	\$25,000	\$1,250	2034	
1 HVAC Dehumidifier	2014	15	\$5,000	\$333	2029	
			\$30,000	\$1,583		
Fire House III						
Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement	
4 Gas Furnaces w/ AC	2009	20	\$44,000	\$2,200	2029	
4 Tube type gas heat	2008	15	\$16,000	\$1,067	2023	
1 VFR system (12 indoor units & 2 outdoor units)	2015	15	\$100,000	\$6,667	2030	
1 ERV unit	2015	15	\$30,000	\$2,000	2030	
1 Elevator	2015	30	\$65,000	\$2,167	2045	
1 Compressor/Dryer	2008	11	\$10,500	\$955	2019	
			\$265,500	\$15,055		

Transfers to Building Systems Depreciation Fund, 2018/19-2022/23

New Rescue	Description	Installation Date	Life	Replacement Cost	Depreciation	FY Replacement
	Air Handler Unit-1/Heat Pump-1	2016	20	\$7,850	\$393	2036
	Air Handler Unit-2/Heat Pump-2	2016	20	\$7,850	\$393	2036
	Air Handler Unit-3/Heat Pump-3	2016	20	\$7,850	\$393	2036
	Air Handler Unit-4/Heat Pump-4	2016	20	\$7,850	\$393	2036
	Air Handler Unit-5/Heat Pump-5	2016	20	\$7,850	\$393	2036
	Air Handler Unit-6/Heat Pump-6	2016	20	\$7,850	\$393	2036
	Air Handler Unit-7/Heat Pump-7	2016	20	\$7,850	\$393	2036
	Air Handler Unit-8/Heat Pump-8	2016	20	\$7,850	\$393	2036
	Unit Heater-1 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Unit Heater-2 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Unit Heater-3 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Unit Heater-4 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Unit Heater-5 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Unit Heater-6 Apparatus Bay	2016	20	\$3,000	\$150	2036
	Exhaust Fan-1 131-Bio Storage	2016	25	\$4,200	\$168	2041
	Exhaust Fan-2 132 - O2 Storage	2016	25	\$4,200	\$168	2041
	Exhaust Fan-3 133 - Storage RM #1	2016	25	\$4,200	\$168	2041
	Exhaust Fan-4 134 - Med Storage	2016	25	\$4,200	\$168	2041
	Exhaust Fan-5 135 - Med Restock	2016	25	\$4,200	\$168	2041
	Exhaust Fan-6 138 - Linen Laundry	2016	25	\$4,200	\$168	2041
	Exhaust Fan-7 140 - Dirty Laundry	2016	25	\$4,200	\$168	2041
	Exhaust Fan-8 Apparatus Bay	2016	25	\$4,200	\$168	2041
	Exhaust Fan-9 Apparatus Bay	2016	25	\$4,200	\$168	2041
	Exhaust Fan-10 137 - Jan. Closet	2016	25	\$4,200	\$168	2041
	Outside Air Unit-1/Outside Air Condensor Unit-1	2016	20	\$150,000	\$7,500	2036
	Variable Refrig. Unit-1.1 125 - Bunk	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.2 126 - Bunk	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.3 127 - Bunk	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.4 128 - Bunk	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.5 Gen. Off/114-Comm	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.6 111 - 2nd Lt.	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.7 110 - Chief	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.8 107,108,109-Capt.&1st Lt.	2016	15	\$4,200	\$280	2031
	Variable Refrig. Unit-1.9 106 - Conf	2016	15	\$4,200	\$280	2031
	Variable Heat Pump-1	2016	15	\$4,500	\$300	2031
	Variable Refrig. Unit-2.1/Variable Heat Pump-2	2016	15	\$4,700	\$313	2031
	Variable Refrig. Unit-3.1/Variable Heat Pump-3	2016	15	\$4,700	\$313	2031
	Kitchen range hood (KRH)	2016	10	\$10,000	\$1,000	2026
	KRH Supply Fan	2016	10	\$1,500	\$150	2026
	KRH Exhaust Fan	2016	10	\$1,500	\$150	2026
				\$337,500	\$17,967	

Total Existing Equipment in Program

\$3,197,277

\$155,313

Capital Improvement Program

Public Works Department

TITLE: Infill Curb, Gutter and Sidewalk Construction Projects

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: Trail repairs and maintenance

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	\$ -	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Minimal						-

Capital Improvement Program

Public Works Department

TITLE: Pavement Condition Index Update

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides funding to perform a town wide asphalt pavement evaluation that will objectively prioritize maintenance/repair efforts. The Public Works Department will accept proposals from qualified engineering firms to score all town streets, analyze the data using the 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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 220,000	\$ 40,000	\$ 60,000	\$ -	\$ 60,000	\$ -	\$ 60,000	\$ 180,000	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 220,000	\$ 40,000	\$ 60,000	\$ -	\$ 60,000	\$ -	\$ 60,000	\$ 180,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 220,000	\$ 40,000	\$ 60,000	\$ -	\$ 60,000	\$ -	\$ 60,000	\$ 180,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 220,000	\$ 40,000	\$ 60,000	\$ -	\$ 60,000	\$ -	\$ 60,000	\$ 180,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Public Works Lot Master Plan

STATUS: In Progress

PROJECT DESCRIPTION:

This project provides funding for the development of a conceptual master plan for the ten plus acres of the existing Public Works lot and facilities. The master plan will be divided into phased projects that can be implemented in a controlled fashion over time horizons of five, ten and twenty years to allow the Public Works operation to grow in a manageable and efficient manner. This project will develop a master plan that can be used to efficiently utilize space on the property and allow for the flexibility of the space for future expansions. This request also allows the master planning process to incorporate the design and placement for the street sweeping dewatering station and truck washing facility.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 66,600	\$ 16,600	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 66,600	\$ 16,600	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 66,600	\$ 16,600	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 66,600	\$ 16,600	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	20,000	20,000	20,000	20,000	20,000	100,000	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: ADA Transition Plan

STATUS: In Progress

PROJECT DESCRIPTION:

This project provides funding to address the ADA Facilities Transition Plan and to partially fulfill the requirements set forth in Title II of the Americans with Disabilities Act (ADA). The ADA states that a public entity must reasonably modify its policies, practices or procedures to avoid discrimination against people with disabilities. This report will assist the Town of Blacksburg in identifying physical barriers to accessibility and in developing barrier removal solutions that will facilitate the opportunity of access to all individuals.

OPERATING IMPACT: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 70,000	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 70,000	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 40,000	\$ 40,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	30,000	10,000	20,000	-	-	-	-	20,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 70,000	\$ 50,000	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Bucket Truck
STATUS: Previously Included
PROJECT DESCRIPTION:

This project funds the replacement of the bucket truck used for tree maintenance, hanging of seasonal decorations, seasonal lights, parking lot lighting systems, building lights and response to emergency call-outs from storm related events. The existing equipment is 17+ years old and requires annual maintenance costs in excess of \$5,000 to keep the equipment running at a reliable level of service.

OPERATING IMPACT: Fleet maintenance cost

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Summer 2018

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 138,000	\$ -	\$ 138,000	\$ -	\$ -	\$ -	\$ -	\$ 138,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 138,000	\$ -	\$ 138,000	\$ -	\$ -	\$ -	\$ -	\$ 138,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	138,000	-	138,000	-	-	-	-	138,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 138,000	\$ -	\$ 138,000	\$ -	\$ -	\$ -	\$ -	\$ 138,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Fuel and maintenance	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000

Capital Improvement Program

Public Works Department

TITLE: Municipal Building Envelope Waterproofing Project

STATUS: New

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	500,000	-	-	500,000	-	-	-	500,000	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 500,000	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 20,000	\$ -	\$ -	\$ 20,000	\$ -	\$ -	\$ -	\$ 20,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	480,000	-	-	480,000	-	-	-	480,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 500,000	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Blacksburg Motor Company Envelope Waterproofing Project

STATUS: In Progress

PROJECT DESCRIPTION:

The project provides funding to address historical water intrusion issues on the exterior of the Blacksburg Motor Company Building. This project was recommended in the condition assessments and building exterior studies that were performed by engineering and architect firms in 2017.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	255,000		255,000					255,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 305,000	\$ 50,000	\$ 255,000	\$ -	\$ -	\$ -	\$ -	\$ 255,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 75,000	\$ 50,000	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -
Construction	230,000		230,000					230,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 305,000	\$ 50,000	\$ 255,000	\$ -	\$ -	\$ -	\$ -	\$ 255,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Community Center Building HVAC Installation

STATUS: New

PROJECT DESCRIPTION:

The project will fund the replacement of the heating and ventilating systems in the gym and locker Rooms. The project goal is to provide a cost-effective solution to add air conditioning, improve the serviceability, and incorporate energy efficiency measures in an air conditioning system to cool the facility that has never had air conditioning. This project was 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 existing equipment that is in the building systems depreciation fund.

OPERATING IMPACT: Maintenance costs

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2019	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 148,500	\$ 148,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	552,000		552,000					552,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 700,500	\$ 148,500	\$ 552,000	\$ -	\$ -	\$ -	\$ -	\$ 552,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 51,000	\$ 51,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	649,500	97,500	552,000					552,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 700,500	\$ 148,500	\$ 552,000	\$ -	\$ -	\$ -	\$ -	\$ 552,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Electricity	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 1,000	\$ 5,000

Capital Improvement Program

Public Works Department

TITLE: Facilities Management Building Life Cycle Inventory System

STATUS: New

PROJECT DESCRIPTION:

The project funds the purchase of a facilities condition assessment database system to optimize the operations and renewal of Town buildings based upon industry defined preventative maintenance schedules. The staff will be able to align annual maintenance and replacement schedules with capital and operational budgets.

Also included is funding for a facilities management company to perform a condition assessment of all of the Town’s 300,000 square feet of buildings and structures and develop a preventative maintenance program based upon industry standardized building life cycles. The staff will be able to assess the overall condition of Town facilities and assemble an annual strategic plan for the maintenance and renewal of Town owned facilities.

This funding will allow the staff to assess, prioritize, plan, execute and maintain public facilities in a strategic lifecycle based approach.

OPERATING IMPACT: Minimal

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Summer 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 51,000	\$ -	\$ 51,000	\$ -	\$ -	\$ -	\$ -	\$ 51,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 51,000	\$ -	\$ 51,000	\$ -	\$ -	\$ -	\$ -	\$ 51,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	15,000	-	15,000	-	-	-	-	15,000	-
Contractual Services	36,000	-	36,000	-	-	-	-	36,000	-
Total Uses	\$ 51,000	\$ -	\$ 51,000	\$ -	\$ -	\$ -	\$ -	\$ 51,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Special Events Fencing

STATUS: New

PROJECT DESCRIPTION:

This project funds the crowd control fencing for several seasonal and downtown events and socials associated with the Alexander Black House, Mingle at the Market, Steppin' Out, Summer Solstice and Downtown events. Currently snow fencing is used for the management of patrons and participants. This request would be used to purchase reusable event fence panels that are faster to set up in hard surface areas and more effective in managing crowds within larger sized events.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensuring a safe community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Summer 2018

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	15,000	-	15,000	-	-	-	-	15,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Traffic Signal Poles and Mast Arms Painting

STATUS: New

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 225,000		\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 225,000	\$ -	\$ 45,000	\$ 225,000	\$ -				

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	225,000		45,000	45,000	45,000	45,000	45,000	225,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 225,000	\$ -	\$ 45,000	\$ 225,000	\$ -				

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Building System Additions

STATUS: New

PROJECT DESCRIPTION:

This project provides for the addition of major building systems equipment to the depreciation list. This equipment was not on the replacement list but will need to be replaced and the replacements will be added to the Major System Building Replacement after purchase.

OPERATING IMPACT: Maintenance fees already included in operating budget on old equipment.

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Summer 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	65,820	\$ -	\$ 65,820	\$ -	\$ -	\$ -	\$ -	\$ 65,820	\$ -
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 65,820	\$ -	\$ 65,820	\$ -	\$ -	\$ -	\$ -	\$ 65,820	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	65,820		65,820					65,820	
Contractual Services	-							-	
Total Uses	\$ 65,820	\$ -	\$ 65,820	\$ -	\$ -	\$ -	\$ -	\$ 65,820	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already included in operating budget.						-

Capital Improvement Program

Public Works Department

TITLE: Field Operations Vehicles

STATUS: Previously Included

PROJECT DESCRIPTION:

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

FY 2018/2019: Truck-Pickup, 1 ton 4WD, with hauler - \$60,000

FY 2019/2020: Truck-Pickup, 1 ton 4WD – \$40,000

FY 2020/2021: Asphalt Roller Replacement - \$50,000

FY 2021/2022: Unloader – \$60,000

OPERATING IMPACT: Maintenance costs already in operating budget

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 210,000	\$ -	\$ 60,000	\$ 40,000	\$ 50,000	\$ 60,000	\$ -	\$ 210,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 210,000	\$ -	\$ 60,000	\$ 40,000	\$ 50,000	\$ 60,000	\$ -	\$ 210,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	210,000	-	60,000	40,000	50,000	60,000	-	210,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 210,000	\$ -	\$ 60,000	\$ 40,000	\$ 50,000	\$ 60,000	\$ -	\$ 210,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Parks and Recreation

TITLE: Picnic Shelter Replacement/Expansion

STATUS: In Progress

PROJECT DESCRIPTION:

This is an ongoing 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 in our park system and are reserved and rented which provides additional revenue and cost recovery in our recreation system.

OPERATING IMPACT: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 175,000	\$ 100,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 75,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 175,000	\$ 100,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 75,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 175,000	\$ 100,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 75,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 175,000	\$ 100,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ -	\$ -	\$ 75,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Parks and Recreation

TITLE: Park Restrooms

STATUS: In Progress

PROJECT DESCRIPTION:

Restrooms in our major parks have been a high priority amenity to serve our users, especially families. Older facilities are winterized due to lack of heat in the buildings. New facilities are designed to be open year round as well as designed to improve the efficiency of maintenance and cleaning. The buildings are modular concrete buildings built off site and include design features to make them attractive and fit into a park environment. Funding is included to replace existing facilities as well as add a new facility to the newly created South Point Park.

Restrooms will be installed at the following parks:

FY 2018 – Municipal Park

FY 2019 – South Point Park

FY 2020 – Nellie’s Cave Park

FY 2021 – Tom’s Creek Park

OPERATING IMPACT: Utility costs for new restrooms

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	600,000	150,000	150,000	150,000	150,000	-	-	450,000	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 600,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ 450,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	600,000	150,000	150,000	150,000	150,000	-	-	450,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 600,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ 150,000	\$ -	\$ -	\$ 450,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Utilities		\$ 2,000	\$ 2,100	\$ 2,200	\$ 2,300	\$ 8,600

Capital Improvement Program

Parks and Recreation

TITLE: Recreation and Aquatic Centers – Campus Master Plan

STATUS: Previously Included

PROJECT DESCRIPTION:

The plan is to evaluate the current Municipal Park, located on Patrick Henry Drive, as well as potential expansion across the street to the Old Blacksburg High School Property to provide a recreation campus master plan to include a new recreation center and the renovation/expansion options for the current recreation center and aquatic center. This would include potential layouts, major park amenities, cost estimates and implementation schedules.

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 2018	Winter 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Parks and Recreation

TITLE: Transfers to Playground Depreciation Fund

STATUS: Continuing

PROJECT DESCRIPTION:

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

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

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -							-	
Construction	-							-	
Equipment	Continuing	Continuing	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	175,000	Continuing
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 35,000	\$ 175,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Parks and Recreation

TITLE: South Point Picnic Shelter and Playground

STATUS: New

PROJECT DESCRIPTION:

Through the town’s public-private partnership with Smith-Packet, the developer has agreed to fund the construction of a picnic shelter and playground at the South Point Park property. These amenities will complement the town’s investment in the property, which includes two full size soccer fields, bathroom facilities, and a greenway trail. The developer is also building the parking lot to serve the park as part of the construction of their second building.

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 2018	Winter 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Donation	85,000		85,000					85,000	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 85,000	\$ -	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 85,000	\$ -	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ -
Construction	-							-	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 85,000	\$ -	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Parks and Recreation

TITLE: Heritage Park Parking Expansion

STATUS: In Progress

PROJECT DESCRIPTION:

This project provides funding to construct a porous paver type parking area for overflow parking at the Heritage Park trail head located off Glade Road. There is an existing 0.25 acre area next to the current parking for where this project will be evaluated. A low impact development approach using a porous pavement system is being evaluated to determine its application as an alternative to be used at this park site.

OPERATING IMPACT: Maintenance of existing area in current operating budget.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2017	Summer 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 84,000	\$ 15,000	\$ 69,000	\$ -	\$ -	\$ -	\$ -	\$ 69,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 84,000	\$ 15,000	\$ 69,000	\$ -	\$ -	\$ -	\$ -	\$ 69,000	

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	15,000	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	69,000	-	69,000	-	-	-	-	69,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 84,000	\$ 15,000	\$ 69,000	\$ -	\$ -	\$ -	\$ -	\$ 69,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

Capital Improvement Program

Parks and Recreation

TITLE: Municipal Park Asphalt Trails

STATUS: Previously Included

PROJECT DESCRIPTION:

This project will repave the existing trails throughout the Municipal Park as well as add new trails to serve additional amenities within the park. This will provide a much better surface for all users to safely access amenities.

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 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

Capital Improvement Program

Parks and Recreation

TITLE: Park Fencing Upgrades

STATUS: Previously Included

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	30,000	-	-	30,000	-	-	-	30,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 30,000	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Parks and Recreation

TITLE: Re-plumb of Aquatic Showers

STATUS: New

PROJECT DESCRIPTION:

This project will update the plumbing serving the shower facilities in both lockers rooms. The on-going maintenance needs have reached the point in the 20-year old building that necessitates the upgrades. This will provide a shower system that is individually controlled by our patrons rather than a single temperature system, which has limited ability to adjust to the desired temperature of the user.

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
Summer2018	Winter 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 50,000	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A				-		-

Capital Improvement Program

Engineering & GIS

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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	-							-	
Contractual Services	Continuing	Continuing	5,000	5,000	5,000	5,000	5,000	25,000	Continuing
Total Uses	Continuing	Continuing	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 25,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Engineering & GIS

TITLE: Aerial and Base Map/GIS update

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Proactively plan for Virginia Tech’s announced growth in enrollment and update the Comprehensive Plan and Zoning Ordinance to reflect a changing community.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2020	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 178,140	\$ 81,140	\$ -	\$ -	\$ 60,000	\$ -	\$ 37,000	\$ 97,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 178,140	\$ 81,140	\$ -	\$ -	\$ 60,000	\$ -	\$ 37,000	\$ 97,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	178,140	81,140	-	-	60,000	-	37,000	97,000	-
Total Uses	\$ 178,140	\$ 81,140	\$ -	\$ -	\$ 60,000	\$ -	\$ 37,000	\$ 97,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Industrial Park Trail and Sidewalk System Design

STATUS: New

PROJECT DESCRIPTION:

This project is intended to design a sidewalk and multiuse trail system adjacent to the Industrial park road network and its connection to existing networks. Currently there are several sections of sidewalk in place but with very little connectivity. With the recent approval of developments, like the Commerce St. 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 St. 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: None Identified - Design Only

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	84,000	\$ -	\$ -	\$ 50,000	\$ -	\$ 34,000	\$ -	\$ 84,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 84,000	\$ -	\$ -	\$ 50,000	\$ -	\$ 34,000	\$ -	\$ 84,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 84,000	\$ -	\$ -	\$ 50,000	\$ -	\$ 34,000	\$ -	\$ 84,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 84,000	\$ -	\$ -	\$ 50,000	\$ -	\$ 34,000	\$ -	\$ 84,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Engineering & GIS

TITLE: Mid-term Aerial Ortho Update

STATUS: New

PROJECT DESCRIPTION:

Blacksburg's ortho imagery historically has been updated every four years. Oblique Pictometry is on a two year schedule. Funds are being requested to add three inch orthos to the planned and budgeted Oblique update in the winter of 2019. These orthos will assist in keeping up with the rapid changes Blacksburg is experiencing and facilitates the accuracy of mapping of new impervious surfaces for our storm water utility. Funding in part could be justified out of the storm water utility fund. If approved future funding will be requested as part of our four year update budget and will include the two year update.

OPERATING IMPACT: None

GOAL ADDRESSED: Proactively plan for Virginia Tech's announced growth in enrollment and update the Comprehensive Plan and Zoning Ordinance to reflect a changing community

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	10,000	\$ -	\$ 10,000	\$ -	\$ 10,000	\$ -	\$ -	\$ 30,000	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	10,000		10,000		10,000			30,000	
VDOT Revenue Sharing	-							-	
Total Sources	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ -	\$ 60,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	
Equipment	-							-	
Contractual Services	60,000		20,000		20,000		20,000	60,000	
Total Uses	\$ 60,000	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ -	\$ 20,000	\$ 60,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Glade Road Pipe Arch Repairs

STATUS: New

PROJECT DESCRIPTION:

Per Federal Highway Administration and VDOT regulations, the Town is required to inspect bridge and culvert structures that meet span requirement of twenty feet or longer. These structures are inspected every two years. Glade Road Pipe Arch is a corrugated metal steel plate structure and is located near the intersection of Glade Road and Meadowbrook Drive. This structure carries Toms Creek underneath Glade Road and was inspected in June 2017. The inspection report listed several areas where the corrugated steel plates are experiencing extensive corrosion. The report recommends repairs should be made to these areas. The structure was installed forty years ago in 1977 and the service life is expected to be 50 years. Therefore, the Town anticipates having to replace this structure in ten years. These areas are corroded through 90% to 100% of the steel and require repairs before the end of the service life. These interim repairs are the more economical manner to address the corrosion issues until such a time as the service life is met. This project will fund hiring the appropriate firm to develop a scope of work and contract to have the repairs completed.

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

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 10,000	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000	\$ -
Construction	35,000	-	35,000	-	-	-	-	35,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 45,000	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ -	\$ 45,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

TITLE: North Main Street Box Culvert Repairs

STATUS: New

PROJECT DESCRIPTION:

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

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

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 60,000	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 60,000	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 10,000	\$ -	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000	\$ -
Construction	50,000	-	-	50,000	-	-	-	50,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 60,000	\$ -	\$ -	\$ 60,000	\$ -	\$ -	\$ -	\$ 60,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget						-

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: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2018	Spring 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	-	
Construction	Continuing	Continuing	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000	\$ 75,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
TBD						-

Capital Improvement Program

Engineering & GIS

TITLE: Electronic Plan Review Equipment

STATUS: New

PROJECT DESCRIPTION:

The EGIS Department is moving towards performing electronic plan review for site plan and subdivision plans submitted by private developers. Having the capability to perform electronic plan review will aid the department in providing improved customer service by enabling more efficient plan review. Large screen computer monitors are required in order to begin the process of performing electronic plan reviews. These monitors, in conjunction with the appropriate software packages, will allow the engineers to review drawings at full scale and mark-up drawing revisions to provide to the customer along with the comment letters. There are four engineers on staff and each engineer will require a monitor.

OPERATING IMPACT: None

GOAL ADDRESSED: Proactively plan for Virginia Tech’s announced growth in enrollment and update the Comprehensive Plan and Zoning Ordinance to reflect a changing community.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Fall 2018

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 30,000	\$ -	\$30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 30,000	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	30,000	-	30,000	-	-	-	-	30,000	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 30,000	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ -	\$ 30,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Engineering and GIS

TITLE: Draper Road Streetscape Improvements

STATUS: Previously Included

PROJECT DESCRIPTION:

This project funds the preliminary/programmatic design of 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. Upon completion of the preliminary/programmatic design, the cost of the final design will be determined. As a part of the final design, a construction estimate will be prepared and can be used to develop 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 requirements.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 100,000	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
TBD after construction						-

Capital Improvement Program

Planning & Building Department

TITLE: Way-finding Sign Update

STATUS: New

PROJECT DESCRIPTION:

The Town created a standard way-finding sign template and has installed a number of way-finding signs at key locations over the years. Periodically this program needs to be revisited to ensure the sign content is current. This project will allow for the updating of signs where a new sign panel is needed and possibly some new way-finding signs (pole and panel). New sign panels are estimated at approximately \$500 per panel and new signs at \$4,000-\$5,000. The Planning and Building Department maintains the inventory of the location and content of the signs. Changes to sign panels or the installation of new signs is handled by the Public Works Department.

OPERATING IMPACT: Minimal

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Fall 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 15,000	\$ -	\$ 15,000	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Housing and Neighborhood Services

TITLE:

STATUS:

STATUS DESCRIPTION:

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

OPERATING IMPACT:

GOAL ADDRESSED:

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -							\$ -	
General Obligation Bonds	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	-							-	
Total Sources	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -							\$ -	
Construction	-							-	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

Capital Improvement Program

Public Works Department

TITLE: Roadway Full Depth Reconstruction (FDR)

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: Already in the Operating Budget.

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	100,000	100,000	100,000	100,000	100,000	500,000	Continuing
Total Sources	Continuing	Continuing	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	200,000	200,000	200,000	200,000	200,000	1,000,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 1,000,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

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: Already in the Operating Budget.

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	15,000	15,000	15,000	15,000	15,000	75,000	Continuing
Total Sources	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 150,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

Capital Improvement Program

Public Works Department

TITLE: Sidewalk Trip Hazard Removal

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: None

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	12,500	12,500	12,500	12,500	12,500	62,500	Continuing
Total Sources	Continuing	Continuing	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -							\$ -	
Construction	Continuing	Continuing	25,000	25,000	25,000	25,000	25,000	125,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Public Works Department

TITLE: Right-of-Way Tree Trimming

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: Already in Operating Budget

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
Total Sources	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	20,000	20,000	20,000	20,000	20,000	100,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 100,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

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 the Operating Budget.

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	30,000	30,000	30,000	30,000	30,000	150,000	Continuing
Total Sources	Continuing	Continuing	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	60,000	60,000	60,000	60,000	60,000	300,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 60,000	\$ 300,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

Capital Improvement Program

Public Works Department

TITLE: Major Roadway Repaving

STATUS: Continuing

PROJECT DESCRIPTION:

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

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

OPERATING IMPACT: Already in the Operating Budget.

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	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	-							-	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	Continuing	Continuing	325,000	325,000	325,000	325,000	325,000	1,625,000	Continuing
Total Sources	Continuing	Continuing	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 3,250,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	650,000	650,000	650,000	650,000	650,000	3,250,000	Continuing
Equipment	-							-	
Contractual Services	-							-	
Total Uses	Continuing	Continuing	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 650,000	\$ 3,250,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

Capital Improvement Program

Engineering & GIS

TITLE: Main Street Streetscapes Improvements

STATUS: Previously Included

PROJECT DESCRIPTION:

This project is intended to implement the streetscaping features adopted for the downtown section of Main Street in the 100 Block of South Main Street between Roanoke Street & Lee Street. This includes widened sidewalks with a full brick surface, street lamps with hanging baskets and flag attachments, street trees, and associated fixtures such as benches and trash cans. This is the final segment of the downtown that has not been completed. The full downtown streetscape project extends from the Prices Fork traffic circle to Miller Street.

The project will be evaluated for funding through the General Fund as well as other grant opportunities through VDOT.

OPERATING IMPACT: Annual Sidewalk Maintenance and Planting and Foliage Maintenance.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Fall 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	\$ 325,000		\$ 325,000					325,000	
Water/Sewer Fund	-							-	
Storm Water Fund	-							-	
VDOT Revenue Sharing	325,000		325,000					325,000	
Total Sources	\$ 650,000	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 650,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 85,000	\$ -	\$ 85,000	\$ -	\$ -	\$ -	\$ -	\$ 85,000	\$ -
Construction	565,000		565,000					565,000	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 650,000	\$ -	\$ 650,000	\$ -	\$ -	\$ -	\$ -	\$ 650,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Maintenance included in Operating Budget						-

Capital Improvement Program

Storm Water Fund

TITLE: Hemlock and Church Street Storm Water Improvements

STATUS: New

PROJECT DESCRIPTION:

This project will upgrade the storm drainage, direct the drainage away from the residential structure and eliminate surface flooding from the storm drainage system. These funds will only be used to construct this replacement storm drainage system.

This project will be submitted for funding under the VDOT Revenue Sharing Program.

OPERATING IMPACT: This projects will result in additional storm drainage structures (i.e., pipes, manholes, and inlets) for the public works department to maintain.

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Fall 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	63,000	-	63,000	-	-	-	-	63,000	-
VDOT Revenue Sharing	63,000	-	63,000	-	-	-	-	63,000	-
Total Sources	\$ 126,000	\$ -	\$ 126,000	\$ -	\$ -	\$ -	\$ -	\$ 126,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	126,000	-	126,000	-	-	-	-	126,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 126,000	\$ -	\$ 126,000	\$ -	\$ -	\$ -	\$ -	\$ 126,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in the Operating Budget						-

Capital Improvement Program

Storm Water Fund

TITLE: Harding Avenue Storm Water Improvements

STATUS: New

PROJECT DESCRIPTION:

This project will upgrade the existing storm drainage, provide for curb and gutter (where necessary) and eliminate surface flooding from the storm drainage system. These funds will only be used for both design and construction of this replacement storm drainage system.

The project will be evaluated for funding through the General Fund as well as other grant opportunities through VDOT.

OPERATING IMPACT: This projects will result in additional storm drainage structures (i.e., pipes, manholes and inlets) for the public works department to maintain.

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens to provide a high quality of life for current and future generations.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Fall 2023

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	125,000	-	-	125,000	-	-	-	125,000	-
VDOT Revenue Sharing	125,000	-	-	125,000	-	-	-	125,000	-
Total Sources	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 40,000	\$ -	\$ -	\$ 40,000	\$ -	\$ -	\$ -	\$ 40,000	\$ -
Construction	210,000	-	-	210,000	-	-	-	210,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 250,000	\$ -	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in operating budget						-

Capital Improvement Program

Storm Water Fund

TITLE: Stormwater Improvements Design

STATUS: Continuing

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 time sensitive components to the project, labor and equipment will be covered by this funding source. Funding in FY 2019 through 2023 is maintained at an appropriate level to address the design and right of way acquisition for the proposed projects below. 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. The design for these projects was initiated in FY 2017/18 and will continue down through the storm water projects list. Once the engineering and right of way have been completed, the construction for these projects will continue as the 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. 1. Penn Street Flooding 2. Webb Street Flooding 3. Harding Avenue Drainage Improvements 4. Clay Street and Willard Drive Intersection 5. Toms Creek Flooding

OPERATING IMPACT: These projects typically will result in additional storm drainage structures (i.e., pipes, manholes, and inlets) to maintain.

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	1,365,000	355,000	150,000	200,000	210,000	220,000	230,000	1,010,000	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 1,365,000	\$ 355,000	\$ 150,000	\$ 200,000	\$ 210,000	\$ 220,000	\$ 230,000	\$ 1,010,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 1,365,000	\$ 355,000	\$ 150,000	\$ 200,000	\$ 210,000	\$ 220,000	\$ 230,000	\$ 1,010,000	-
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 1,365,000	\$ 355,000	\$ 150,000	\$ 200,000	\$ 210,000	\$ 220,000	\$ 230,000	\$ 1,010,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in operating budget						-

Capital Improvement Program

Storm Water Fund

TITLE: Storm Water Small Improvements and Minor Repairs

STATUS: Continuing

PROJECT DESCRIPTION:

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

OPERATING IMPACT: These projects typically will result in additional storm drainage structures (i.e., pipes, manholes, and inlets) to maintain.

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	Continuing	10,000	10,000	10,000	10,000	10,000	10,000	50,000	Continuing
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	10,000	10,000	\$10,000	\$10,000	10,000	10,000	50,000	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 10,000	\$ 50,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in operating budget						-

Capital Improvement Program

Storm Water Fund

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, storm water facility retrofits to enhance water quality benefits, watershed studies to determine long term improvements to address TMDL requirements. There may be instances where professional services or contracted labor and equipment will be required depending on the need for a specialist or time sensitivity of the proposed project.

Funding in FY 2019 through 2023 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. 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.

1. Scott Alan Circle Stream Restoration
2. Maple Ridge Storm water Pond Improvements
3. Study and Construction of Stormwater Retrofits for TMDL Requirements
4. Stream Restoration in the Toms Creek Basin
5. Other Small Water Quality Projects

OPERATING IMPACT: These projects typically will result in additional storm drainage structures (i.e., pipes, manholes, and inlets) to maintain.

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	Continuing	290,000	100,000	100,000	100,000	100,000	100,000	500,000	Continuing
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	\$ 290,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	Continuing	\$ 50,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000	Continuing
Construction	Continuing	240,000	75,000	75,000	75,000	75,000	75,000	375,000	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ -	\$ 290,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ 500,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Already in operating budget						-

TITLE: Meter Maintenance and Replacement

STATUS: Continuing

PROJECT DESCRIPTION:

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

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

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	Continuing	Continuing	170,000	170,000	170,000	170,000	170,000	850,000	Continuing
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 850,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	170,000	170,000	170,000	170,000	170,000	850,000	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 170,000	\$ 850,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget	-	-	-	-	-	-

Captial 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 was replaced at the end of FY 2012. 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 public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Summer 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	Continuing	Continuing	35,000					35,000	Continuing
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	35,000					35,000	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
In current operating budget	-	-	-	-	-	-

TITLE: Neil Street Water Pump Station

STATUS: In Progress

PROJECT DESCRIPTION:

A study dated August 9, 2011 on the Town of Blacksburg high-pressure water system concluded that additional storage in the southern region of this pressure zone was not feasible. The FAA determined proposed sites for storage tanks would be considered hazardous obstructions to air navigation and therefore unacceptable. The study concluded that instead of additional storage for the high system, the demand could be met by assuring the low system could deliver to the high system when needed. The Town has significantly increased the low system storage, which provides a larger reservoir of storage for the high system. An emergency generator was added to allow the Highland Park pump station to remain operable if a power outage occurred.

Even with the additional storage and emergency generator, high system outages can occur if the single feed from the low system (Highland Park) is lost. An additional pump station at the Neil Street water tank would provide redundancy to reduce outages if the feed from Highland Park 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.

This project may be delayed while a town wide water system study is completed, which could impact design of a new pump station. The requested study is in response to new demands on the water system, including increased student population and potential new developments utilizing the high pressure zone.

OPERATING IMPACT: Maintenance and utility costs

GOAL ADDRESSED: Proactively plan for Virginia Tech’s announced growth in enrollment and provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2019	Fall 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	480,750				125,000	355,750		480,750	
Water/Sewer Fund	50,000	50,000							
Storm Water Fund	-								
VDOT Revenue Sharing	-								
Total Sources	\$ 530,750	\$ 50,000	\$ -	\$ -	\$ 125,000	\$ 355,750	\$ -	\$ 480,750	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 175,000	\$ 50,000		\$ -	\$ 125,000			\$ 125,000	
Construction	355,750					355,750		355,750	
Equipment	-							-	
Contractual Services	-							-	
Total Uses	\$ 530,750	\$ 50,000	\$ -	\$ -	\$ 125,000	\$ 355,750	\$ -	\$ 480,750	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Utility costs					\$ 5,000	\$ 5,000

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 FY 2019 includes design and construction costs for relocation of a sewer line near Edgewood Lane. This sewer has sections that are in poor condition and it can therefore not be rehabilitated in place and must be relocated. Design for a sewer relocation at Scott Allen Circle is also included, which is the sewer line in the eroded urban stream bed. This relocation will be coordinated with a storm water project that already has design funded.

The funding for FY 2020 includes design and construction costs for relocation of sewer lines on Roanoke Street and construction costs for the Scott Allen Circle relocation. The funding for FY21 includes construction costs for relocation of sewer lines on McBryde Drive and Dunton Drive.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2017	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	849,500	201,100	182,800	271,100	194,500	-	-	648,400	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 849,500	\$ 201,100	\$ 182,800	\$ 271,100	\$ 194,500	\$ -	\$ -	\$ 648,400	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 175,800	\$ 39,200	\$ 79,000	\$ 21,700	\$ 35,900	\$ -	\$ -	\$ 136,600	\$ -
Construction	673,700	161,900	103,800	249,400	158,600	-	-	511,800	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 849,500	\$ 201,100	\$ 182,800	\$ 271,100	\$ 194,500	\$ -	\$ -	\$ 648,400	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

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 Water Tank:** The cost to address some of the identified issues was covered in a prior allocation. The report also recommends repainting the interior and exterior within the next six years. Because the evaluation identified new structural deficiencies which will require the tank to be drained, it would be a practical time to repaint the interior and exterior surfaces. The additional costs to repaint and repair all deficiencies identified is \$455,000.

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.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Fall 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	1,395,350	810,000	-	585,350	-	-	-	585,350	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 1,395,350	\$ 810,000	\$ -	\$ 585,350	\$ -	\$ -	\$ -	\$ 585,350	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 50,000	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000	\$ -
Construction	1,345,350	785,000	-	560,350	-	-	-	560,350	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 1,395,350	\$ 810,000	\$ -	\$ 585,350	\$ -	\$ -	\$ -	\$ 585,350	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Draper Road Sewer Capacity Improvements

STATUS: In Progress

PROJECT DESCRIPTION:

The Draper Road sewer capacity study was completed to determine the capacity of the existing sewer infrastructure along Draper Road. This main collects flow from Roanoke Street, Clay Street, and South Main Street, including the Old BMS site. A 1,200 linear foot section of sewer line was determined to have inadequate capacity for both the current and future growth scenarios. The costs to upgrade this sewer line is estimated to be \$401,900, and the previous funding request only provided \$245,250. This request is to fully fund the project so it can move forward.

OPERATING IMPACT: No significant impact. Potential decrease in personnel time to respond to overflow events.

GOAL ADDRESSED: Proactively plan for Virginia Tech’s announced growth in enrollment and provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Winter 2016	Winter 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	401,900	\$245,250	\$156,650	-	-	-	-	156,650	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 401,900	\$ 245,250	\$ 156,650	\$ -	\$ -	\$ -	\$ -	\$ 156,650	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 87,000	\$87,000	\$0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	314,900	158,250	156,650	-	-	-	-	156,650	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 401,900	\$ 245,250	\$ 156,650	\$ -	\$ -	\$ -	\$ -	\$ 156,650	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Downtown I&I Removal

STATUS: New

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 public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Fall 2018	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	900,000	-	60,000	200,000	200,000	200,000	240,000	900,000	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 900,000	\$ -	\$ 60,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 240,000	\$ 900,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 180,000	\$ -	\$60,000	\$ 120,000	\$ -	\$ -	\$ -	\$ 180,000	\$ -
Construction	720,000	-	-	\$80,000	\$200,000	200,000	240,000	720,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 900,000	\$ -	\$ 60,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 240,000	\$ 900,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Engineering & GIS

TITLE: Prices Fork Waterline Replacement

STATUS: New

PROJECT DESCRIPTION:

The existing twelve inch water main in Prices Fork Road between the intersection of Toms Creek Road and West Campus Drive is of substandard condition resulting in numerous leaks and maintenance issues. Replacing the main to current Town of Blacksburg Water Standards would improve water quality and reliability, while also reducing maintenance calls and water interruptions for the Public Works Department.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Spring 2020	Summer/Fall 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	340,675	-	-	30,000	310,675	-	-	340,675	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 340,675	\$ -	\$ -	\$ 30,000	\$ 310,675	\$ -	\$ -	\$ 340,675	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 30,000	\$ -	\$ -	30,000	\$ -	\$ -	\$ -	30,000	\$ -
Construction	310,675	-	-	-	310,675	-	-	310,675	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 340,675	\$ -	\$ -	\$ 30,000	\$ 310,675	\$ -	\$ -	\$ 340,675	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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.

No additional money is being requested in FY 2018/19 due to the back log of work that is scheduled to be done and the limited staff available.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	Continuing	Continuing		30,000	30,000	30,000	30,000	120,000	Continuing
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 120,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing		30,000	30,000	30,000	30,000	120,000	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	\$ -	\$ -	\$ 30,000	\$ 30,000	\$ 30,000	\$ 30,000	\$ 120,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	Continuing	Continuing	250,000	250,000	250,000	250,000	250,000	1,250,000	Continuing
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	-	-	-	-	-	-	\$ -	-
Construction	-	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	Continuing	Continuing	250,000	250,000	250,000	250,000	250,000	1,250,000	Continuing
Total Uses	Continuing	Continuing	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 1,250,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
General Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	Continuing	Continuing	90,030	103,200	150,887	63,000	TBD	407,117	Continuing
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ -	\$ -	\$ 90,030	\$ 103,200	\$ 150,887	\$ 63,000	\$ -	\$ 407,117	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	Continuing	Continuing	90,030	103,200	150,887	63,000	TBD	407,117	Continuing
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 90,030	\$ 103,200	\$ 150,887	\$ 63,000	\$ -	\$ 407,117	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

**Water Main Replacement Projects
FY 2019 -2023**

Streets to be Effectuated	From	To	(feet) Length	Cost	Comments
FY 2018/2019 Greenwood Drive Palmer Dr. Cranwell Circle	Forest Hills Cohee Grissom Lane	Shelor Lane Country Club Cul-da-sac	935 570 625 2130	\$39,270 \$24,510 <u>\$26,250</u> \$90,030	
FY 2019/2020 Harding Ave Alleghany St. Piedmount St.	Appartment Heights 414 Alleghany Knob Hill Dr.	from Harding Ave 519 Alleghany Jefferson St.	450 1000 950 2400	\$19,350 \$43,000 \$40,850 \$103,200	Replace 2" line
FY 2020/2021 Eheart St. Wellesly Ct. Hearthstone Dr	Main St Cambrige Rd Giles Rd	Willard Dr Tall Oaks Dr Dickerson Ln	1850 375 1284 3509	<u>\$79,550</u> \$16,125 \$55,212 \$150,887	
FY 2021/2022 Neillies Cave Road	Shelor Lane	Town Limits	1500	\$63,000	
FY 2022/2023 TBD				<u>TBD</u>	
TOTAL FY 2018 - 2023:				\$407,117	

Capital Improvement Program

Transit Department

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 local, state and federal regulations that govern public safety and replacement guidelines. The proposed schedule for bus replacement/expansion per fiscal year is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	None Scheduled		
FY2020	40' Bus	3	Replacement
	60' Bus	2	Replacement
	60' Bus	1	Expansion
FY2021	40' Bus	10	Replacement
	60' Bus	1	Expansion
FY2022	40' Bus	11	Replacement
	60' Bus	1	Expansion
FY2023	60' Bus	2	Replacement
	60' Bus	1	Expansion

Each bus purchase includes a spare parts package and other required components. Changes in service may alter future capital improvement needs and vehicle sizes.

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

OPERATING IMPACT: Expansion buses will add to future fuel and maintenance costs.

GOAL ADDRESSED: Proactively plan for Virginia Tech's announced growth in enrollment and provide an interconnected, multi-modal transportation system that is safe and efficient, serves a diverse population, and supports land use.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ -	\$ 3,899,568	\$ 5,675,497	\$ 6,357,381	\$ 3,301,133	\$ 19,233,579	Continuing
State Funds	Continuing	Continuing	-	487,446	709,437	794,673	412,642	2,404,198	Continuing
Local Funds	Continuing	Continuing	-	487,446	709,437	794,673	412,641	2,404,197	Continuing
Total Sources	Continuing	Continuing	\$ -	\$ 4,874,460	\$ 7,094,371	\$ 7,946,727	\$ 4,126,416	\$ 24,041,974	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	Continuing	Continuing	-	4,874,460	7,094,371	7,946,727	4,126,416	24,041,974	Continuing
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ -	\$ 4,874,460	\$ 7,094,371	\$ 7,946,727	\$ 4,126,416	\$ 24,041,974	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

TITLE: BT Access Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a replacement/expansion program for its paratransit body on chassis buses (BOC-50 Series), which meets local, state and federal regulations that govern public safety and replacement guidelines. The proposed schedule for paratransit bus replacement/expansion per fiscal year is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	Body on Chassis	1	Replacement
FY2020	None Scheduled		
FY2021	Body on Chassis	2	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	5	Replacement

BT may extend the replacement schedule for certain BT Access vehicles if warranted, based on a periodic review of the following factors: 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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 86,344	\$ -	\$ 177,868	\$ -	\$ 485,902	\$ 750,114	Continuing
State Funds	Continuing	Continuing	10,793	-	22,233	-	60,738	93,764	Continuing
Local Funds	Continuing	Continuing	10,793	-	22,234	-	60,738	93,765	Continuing
Total Sources	Continuing	Continuing	\$ 107,930	\$ -	\$ 222,335	\$ -	\$ 607,378	\$ 937,643	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	107,930	-	222,335	-	607,378	937,643	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 107,930	\$ -	\$ 222,335	\$ -	\$ 607,378	\$ 937,643	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

TITLE: Christiansburg Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit (BT) began service in the Town of Christiansburg in 2009. BT has developed a replacement/expansion program for the bus fleet associated with this service which meets local, state and federal regulations that govern public safety and replacement guidelines. The proposed schedule for paratransit bus replacement/expansion per fiscal year is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	None Scheduled		
FY2020	Body on Chassis	1	Replacement
FY2021	Body on Chassis	4	Replacement
FY2022	None Scheduled		
FY2023	Body on Chassis	1	Replacement

BT may extend the replacement schedule for certain vehicles if warranted, based on a periodic review of the following factors: 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 an interconnected, multi-modal transportation system that is safe and efficient, serves a diverse population, and supports land use.

Significant Dates

<u>ESTIMATED START</u>	<u>ESTIMATED COMPLETION</u>
Continuing	Continuing

Funding Sources

<u>Sources</u>	<u>Total Required Project Funding</u>	<u>Funded through 6/30/2018</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>Total for Five Year CIP</u>	<u>Future Funds Required</u>
Federal Funds	Continuing	Continuing	\$ -	\$ 100,683	\$ 414,816	\$ -	\$ 110,019	\$ 625,518	Continuing
State Funds	Continuing	Continuing	-	12,586	51,852	-	13,752	\$ 78,190	Continuing
Local Funds	Continuing	Continuing	-	12,585	51,852	-	13,753	\$ 78,190	Continuing
Total Sources	Continuing	Continuing	\$ -	\$ 125,854	\$ 518,520	\$ -	\$ 137,524	\$ 781,898	Continuing

Planned Uses

<u>Uses</u>	<u>Total Project Cost</u>	<u>Expended through 6/30/2018</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>Total for Five Year CIP</u>	<u>Future Project Cost</u>
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	Continuing	Continuing	-	125,854	518,520	-	137,524	781,898	Continuing
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ -	\$ 125,854	\$ 518,520	\$ -	\$ 137,524	\$ 781,898	Continuing

Operating Impact

<u>Expense Category</u>	<u>FY19</u>	<u>FY20</u>	<u>FY21</u>	<u>FY22</u>	<u>FY23</u>	<u>Total for Five Year CIP</u>
N/A						-

Capital Improvement Program

Transit Department

TITLE: Regional Bus Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a replacement/expansion program for the bus fleet associated with this service which meets local, state and federal regulations that govern public safety and replacement guidelines. The proposed schedule for bus replacement per fiscal year is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	None Scheduled		
FY2020	Body on Chassis	2	Replacement
FY2021	None Scheduled		
FY2022	None Scheduled		
FY2023	None Scheduled		

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

OPERATING IMPACT: Negligible impact on operating budget.

GOAL ADDRESSED: Provide an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ -	\$ 223,019	\$ -	\$ -	\$ -	\$ 223,019	Continuing
State Funds	Continuing	Continuing		27,877				27,877	Continuing
Local Funds	Continuing	Continuing		27,877				27,877	Continuing
Total Sources	Continuing	Continuing	\$ -	\$ 278,773	\$ -	\$ -	\$ -	\$ 278,773	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-								
Equipment	Continuing			278,773				278,773	Continuing
Contractual Services	-							-	
Total Uses	Continuing	\$ -	\$ -	\$ 278,773	\$ -	\$ -	\$ -	\$ 278,773	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

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 local, state and federal regulations that govern public safety and replacement guidelines. The proposed schedule for support vehicle replacement/expansion per fiscal year is as follows:

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>	<u>Category</u>
FY2019	Operations Vehicles	1	Replacement	1 Light Duty
FY2020	Operations Vehicles	3	Replacement	1 Light Duty 2 Heavy Duty
FY2021	Operations Vehicles	1	Replacement	5 Heavy Duty
	Maintenance Vehicles	4	Replacement	
FY2022	Operations Vehicles	2	Replacement	2 Light Duty
FY2023	Administrative Vehicles	6	Replacement	6 Light Duty

BT may extend the replacement schedule for some vehicles if warranted, based on a periodic review of the following factors: mileage, condition and age. The standard replacement schedule has been extended to six years for all light duty support vehicles and eight years for heavy duty trucks (previously four years).

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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 28,803	\$ 131,687	\$ 241,673	\$ 62,946	\$ 194,502	\$ 659,611	Continuing
State Funds	Continuing	Continuing	3,600	16,462	30,209	7,868	24,313	82,452	Continuing
Local Funds	Continuing	Continuing	3,600	16,462	30,209	7,868	24,313	82,452	Continuing
Total Sources	Continuing	Continuing	\$ 36,003	\$ 164,611	\$ 302,091	\$ 78,682	\$ 243,128	\$ 824,515	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	Continuing	Continuing	36,003	164,611	302,091	78,682	243,128	824,515	Continuing
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 36,003	\$ 164,611	\$ 302,091	\$ 78,682	\$ 243,128	\$ 824,515	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

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>
FY2019	A/C unit replacement, bus lift replacement, storage container, shelving, vehicle diagnostic scanning tool.
FY2020	A/C unit replacement, fuel system control unit, tire changer, air operated axle grease pump, shop equipment cabinets, large ceiling fans, fluid reels.
FY2021	Heavy duty precision drill press and other projects to be selected from the facility assessment plan.
FY2022	Projects to be selected from the facility assessment plan.
FY2023	Projects to be selected from the facility assessment plan.

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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 158,710	\$ 240,400	\$ 180,082	\$ 185,484	\$ 191,048	\$ 955,724	Continuing
State Funds	Continuing	Continuing	19,839	30,050	22,510	23,186	23,881	119,466	Continuing
Local Funds	Continuing	Continuing	19,839	30,050	22,510	23,185	23,881	119,465	Continuing
Total Sources	Continuing	Continuing	\$ 198,388	\$ 300,500	\$ 225,102	\$ 231,855	\$ 238,810	\$ 1,194,655	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	Continuing	Continuing	198,388	300,500	225,102	231,855	238,810	1,194,655	Continuing
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 198,388	\$ 300,500	\$ 225,102	\$ 231,855	\$ 238,810	\$ 1,194,655	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

TITLE: Technology Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

In conjunction with the Technology Department, Blacksburg Transit has developed a replacement and expansion program for computers, laptops, software, and infrastructure related technology. Infrastructure includes such components as servers, storage area network (SAN) back-up systems, Voice Over Internet Protocol (VOIP) equipment, networking devices, cabling, power supply/surge protectors, wiring, peripherals, and storage cases. The proposed schedule for technology replacement per fiscal year is as follows:

<u>Year</u>	<u>Description</u>
FY2019	One laptop, twelve computers, three tablets and five network switch replacements.
FY2020	One laptop, twelve computers, three tablets, five wireless data system replacements and back-up system upgrades.
FY2021	One laptop, twelve computers, three tablets, five wireless data system replacements, ten VOIP phone replacements and a Core Network switch replacement.
FY2022	One laptop, twelve computers, three tablets, five wireless data system replacements, ten VOIP phone replacements, and SAN upgrades
FY2023	One laptop, twelve computers, three tablets, six printers, ten VOIP phone replacements, and SAN upgrades.

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

OPERATING IMPACT: None

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Continuing	Continuing

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 49,955	\$ 99,534	\$ 115,537	\$ 104,364	\$ 82,973	\$ 452,363	Continuing
State Funds	Continuing	Continuing	6,245	12,442	14,442	13,045	10,372	56,546	Continuing
Local Funds	Continuing	Continuing	6,245	12,442	14,442	13,045	10,372	56,546	Continuing
Total Sources	Continuing	Continuing	\$ 62,445	\$ 124,418	\$ 144,421	\$ 130,454	\$ 103,717	\$ 565,455	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	62,445	124,418	144,421	130,454	103,717	565,455	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 62,445	\$ 124,418	\$ 144,421	\$ 130,454	\$ 103,717	\$ 565,455	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

TITLE: ITS System Replacement and Expansion Program

STATUS: In Progress

PROJECT DESCRIPTION:

Blacksburg Transit has made extensive investments in Intelligent Transportation Systems (ITS) over the past decade. Blacksburg Transit has deployed a variety of systems including: Computer Aided Dispatch, Automatic Vehicle Location, Customer Information / Mobile App, Demand Response Scheduling\Dispatching and Data collection systems. These systems are vital to our customer facing information systems. FY19 upgrades were developed in a consultant led customer communication and ITS needs assessment that is currently underway. More information on FY 2020 through FY 2022 projects will be produced in the final report.

Year Description

FY2019 Voice Annunciator Upgrade on 26 buses, Upgrade to GTFS-RT feed, Upgrade Route Match features; Improvements to database systems in Operations

FY2020 Voice Annunciator Upgrade on 26 buses; MMTF Passenger Information system, other investments guided by study.

FY2021 Projects to be selected from the ITS Assessment Plan

FY2022 Projects to be selected from the ITS Assessment Plan

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

OPERATING IMPACT: Will require software maintenance agreements.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2022

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 257,389	\$ 400,000	\$ 400,000	\$ 400,000	\$ -	\$ 1,457,389	Continuing
State Funds	Continuing	Continuing	32,174	50,000	50,000	50,000	-	182,174	Continuing
Local Funds	Continuing	Continuing	32,174	50,000	50,000	50,000	-	182,174	Continuing
Total Sources	Continuing	Continuing	\$ 321,737	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ 1,821,737	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-								
Equipment	-								
Contractual Services	Continuing	Continuing	321,737	500,000	500,000	500,000		1,821,737	Continuing
Total Uses	Continuing	Continuing	\$ 321,737	\$ 500,000	\$ 500,000	\$ 500,000	\$ -	\$ 1,821,737	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Contractual Services		\$ 16,660	\$ 25,451	\$ 26,215	\$ 27,001	\$ 95,327

Capital Improvement Program

Transit Department

TITLE: Fleet Camera System

STATUS: New

PROJECT DESCRIPTION:

This project includes purchase and installation of cameras for all fixed route buses and associated hardware and software and replacement of cameras on certain body-on-chassis vehicles. BT currently has cameras only on the body-on-chassis vehicles that are used primarily for paratransit service. This project will provide on-board camera capability for the entire revenue fleet. Since over 80% of the miles of service are provided with fixed route buses, this project will greatly improve safety, and allow more effective investigations of collisions, customer complaints, and other incidents. It will also be a useful tool for operator training. Selected newer body-on-chassis vehicles will be retrofitted but older vehicles will utilize the current equipment until they are replaced by a new vehicle.

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	Fixed Route Buses	52	New installation
FY2020	Body-on-Chassis Vehicles	9	Retrofit vehicles that will not be replaced until after FY 2022

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

OPERATING IMPACT: Will require additional staff support.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2019

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	\$ 568,073		\$ 504,410	\$ 63,663	\$ -	\$ -	\$ -	\$ 568,073	\$ -
State Funds	71,009		63,051	7,958	-	-	-	71,009	-
Local Funds	71,009		63,051	7,958	-	-	-	71,009	-
Total Sources	\$ 710,091	\$ -	\$ 630,512	\$ 79,579	\$ -	\$ -	\$ -	\$ 710,091	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	710,091		630,512	79,579	-	-	-	710,091	-
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	\$ 710,091	\$ -	\$ 630,512	\$ 79,579	\$ -	\$ -	\$ -	\$ 710,091	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Personnel	\$ 12,343	\$ 12,713	\$ 13,095	\$ 13,488	\$ 13,892	\$ 65,531

Capital Improvement Program

Transit Department

TITLE: Fare Automation System

STATUS: New

PROJECT DESCRIPTION:

Virginia Tech is moving its identification system (Hokie Passport) to a new technology platform. The fare automation system project will cover purchase and installation of equipment on revenue vehicles to integrate with the new “smart” Hokie Passport. The equipment will allow electronic fare verification of Virginia Tech faculty, staff and student IDs with the new technology. In future years, BT will develop and implement an automated fare collection system for customers not affiliated with Virginia Tech. This project will greatly reduce the potential for use of expired IDs and offer more options for fare-paying customers. It will also provide more detailed data for use in route/ schedule planning, and reporting.

<u>Year</u>	<u>Description</u>	<u>Number</u>
FY2019	On-vehicle fare verification equipment (including 3 spares), system hardware and software	73
FY2020	Automated Fare Collection System – Planning	
FY2021	Automated Fare Collection System- Implementation	

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

OPERATING IMPACT: Will require additional staff support.

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

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2021

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	\$ 400,534		\$ 244,534	\$ 24,000	\$ 132,000	\$ -	\$ -	\$ 400,534	\$ -
State Funds	50,067		30,567	3,000	16,500	-	-	50,067	
Local Funds	50,067		30,567	3,000	16,500	-	-	50,067	
Total Sources	\$ 500,668	\$ -	\$ 305,668	\$ 30,000	\$ 165,000	\$ -	\$ -	\$ 500,668	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	470,668		305,668	-	165,000	-	-	470,668	
Contractual Services	30,000		-	30,000	-	-	-	30,000	
Total Uses	\$ 500,668	\$ -	\$ 305,668	\$ 30,000	\$ 165,000	\$ -	\$ -	\$ 500,668	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
Personnel & Contractual Services	\$ 12,343	\$ 24,350	\$ 25,081	\$ 25,833	\$ 26,608	\$ 114,215

Capital Improvement Program

Transit Department

TITLE: Radio Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed a maintenance and expansion program for radios which includes updating the equipment to meet federal digital standards. The proposed schedule for radio replacement per fiscal year is as follows:

<u>Year</u>	<u>Description</u>
FY2019	One repeater with pre-selector and installation, one uninterrupted power supply and one radio recorder.
FY2020	Nine portable radios with battery upgrades, three remote speaker microphones and one multi-unit charger.
FY2021	Eight portable radios with battery upgrades, three mobile radios, two desk tray speakers and microphones, one RoIP unit, three power supplies, three uninterrupted power supplies for mobiles and one for the repeater.
FY2022	Four mobile radios, one radio power supply, one uninterrupted power supply, ten portable radios with battery upgrades, seven remote speaker microphones, one multi-unit charger, one desk tray speaker, microphone, one power supply, one uninterrupted power supply, one antenna and installation.
FY2023	Eleven portable radios with battery upgrades and remote speaker microphones.

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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 16,389	\$ 6,763	\$ 10,405	\$ 12,055	\$ 8,876	\$ 54,488	Continuing
State Funds	Continuing	Continuing	2,049	846	1,301	1,507	1,109	6,812	Continuing
Local Funds	Continuing	Continuing	2,049	846	1,301	1,507	1,109	6,812	Continuing
Total Sources	Continuing	Continuing	\$ 20,487	\$ 8,455	\$ 13,007	\$ 15,069	\$ 11,094	\$ 68,112	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-								
Equipment	Continuing	Continuing	20,487	8,455	13,007	15,069	11,094	68,112	Continuing
Contractual Services	-								
Total Uses	Continuing	Continuing	\$ 20,487	\$ 8,455	\$ 13,007	\$ 15,069	\$ 11,094	\$ 68,112	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
						-

TITLE: Shelter and Amenity Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed an improvement program for bus stops identified in the Bus Stop Safety and Accessibility Study. This project provides funding for bus stop improvements in Blacksburg. The program includes items such as replacement shelters, new concrete pads and selected sidewalk connections, bike racks and trash receptacles, based on prioritized needs. Outsourcing of installation has been included into the cost per shelter.

Year	Description	Number	Type
FY2019	4’x12’ solar shelters for Newman Library	2	Replacement
	Bus Stop Improvements: #1404 – Giles & Northview NB	1	Improvement
	Bus Stop Improvements: #1405 – Giles & Heights NB	1	Improvement
FY2020	4’x12’ solar shelter for #1121 - I-Lot/Cage	1	Replacement
	4’x12’ solar shelter for #1120 - Overflow Lot EB	1	Replacement
	Bus Stop Improvements: #1220 – Heather & Plymouth SB	1	Improvement
FY2021	4’x12’ solar shelter for #1123 - McComas Hall	1	Replacement
	4’x12’ solar shelter for #1103 West Campus/Perry NB	1	Replacement
	Bus Stop Improvements: #1210 – Tall Oaks & Fox Ridge NB	1	Improvement
FY2022	Bus Stop Improvements: #1327 – Progress & Univ. Terrace SB	1	Improvement
FY2023	Evaluate shelter and sidewalk improvement options along the Progress St. corridor between Broce Dr. and Patrick Henry Dr.		Improvement

This project also includes funds for miscellaneous replacement parts and glass for existing shelters.

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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 28,603	\$ 28,944	\$ 22,155	\$ 10,400	\$ 31,200	\$ 121,302	Continuing
State Funds	Continuing	Continuing	3,575	3,618	2,770	1,300	3,900	15,163	Continuing
Local Funds	Continuing	Continuing	3,575	3,618	2,770	1,300	3,900	15,163	Continuing
Total Sources	Continuing	Continuing	\$ 35,753	\$ 36,180	\$ 27,695	\$ 13,000	\$ 39,000	\$ 151,628	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-		-	-	-	-	-	-	-
Equipment	Continuing	Continuing	35,753	36,180	27,695	13,000	39,000	151,628	Continuing
Contractual Services	-		-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 35,753	\$ 36,180	\$ 27,695	\$ 13,000	\$ 39,000	\$ 151,628	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Capital Improvement Program

Transit Department

TITLE: Christiansburg Shelter and Amenity Replacement and Expansion Program

STATUS: Continuing

PROJECT DESCRIPTION:

Blacksburg Transit has developed an improvement program for the needs of riders. The project provides funding for amenities in Christiansburg and includes items such as bus shelters and associated improvements, based on prioritized needs. Outsourcing of installation has been included into the cost per shelter.

<u>Year</u>	<u>Description</u>	<u>Number</u>	<u>Type</u>
FY2019	4’x8’ solar shelter & pad: #2116 – Roanoke/Hungate WB	1	Improvement
	4’x8’ solar shelter & pad: #2201 – Farmview/Ridinger EB	1	Improvement
FY2020	4’x8’ solar shelter & pad: #2152 – Radford St/ College St EB	1	Improvement
	4’x8’ solar shelter & pad: #2111 – Roanoke/Evans EB	1	Improvement
FY2021	4’x12’ solar shelter: #2120 - Christiansburg Town Hall	1	Improvement
FY2022	None scheduled		
FY2023	None scheduled		

This project also includes funds for miscellaneous replacement parts and glass for existing shelters.

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 an interconnected, multi-modal transportation system that is safe and 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	Continuing	Continuing	\$ 16,108	\$ 16,450	\$ 7,878	\$ -	\$ -	\$ 40,436	Continuing
State Funds	Continuing	Continuing	2,014	2,055	985			5,054	Continuing
Local Funds	Continuing	Continuing	2,014	2,055	985			5,054	Continuing
Total Sources	Continuing	Continuing	\$ 20,136	\$ 20,560	\$ 9,848	\$ -	\$ -	\$ 50,544	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-							-	-
Equipment	Continuing	Continuing	20,136	20,560	9,848			50,544	Continuing
Contractual Services	-							-	-
Total Uses	Continuing	Continuing	\$ 20,136	\$ 20,560	\$ 9,848	\$ -	\$ -	\$ 50,544	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Transit Facility Improvement Project

STATUS: New

PROJECT DESCRIPTION:

The existing BT 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, BT’s service level has increased by 40%, and the number of full-time staff necessary to support these services has increased by 71%. The result is crowded and inefficient configuration of available space, especially in the operations and administration area. Based on the results of the 2017 Space Planning Study, it is estimated that BT has about a 20% deficiency in office space at the present time. Compounding this space issue are aging fixed building components as documented in the 2015 Facilities Assessment Report and outdated security/building access systems.

The project includes the following major activities: (1) replacement and/or updates to building components that have exceeded their useful economic life, (2) repurposing of underutilized spaces for office space, (3) renovation of men’s and women’s restrooms, (4) consolidation of divisional staff offices, and (5) new security system. The footprint of the building will not change. Design/Engineering will be completed in FY 18.

The project will resolve existing issues and provide adequate space to handle projected growth in staffing for the next ten years in the operations and administration areas. A separate study will be undertaken to assess maintenance needs to be able to accommodate a growing bus fleet and associated building and site requirements.

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 an interconnected, multi-modal transportation system that is safe and efficient, serves a diverse population, and supports land use.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2019	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Federal Funds	\$ 1,211,180	\$ -	\$ -	\$ 1,211,180	\$ -	\$ -	\$ -	\$ 1,211,180	\$ -
State Funds	151,397	-	-	151,397	-	-	-	151,397	-
Local Funds	151,397	-	-	151,397	-	-	-	151,397	-
Total Sources	\$ 1,513,974	\$ -	\$ -	\$ 1,513,974	\$ -	\$ -	\$ -	\$ 1,513,974	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	-	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	1,322,474	-	-	1,322,474	-	-	-	1,322,474	-
Equipment	125,500	-	-	125,500	-	-	-	125,500	-
Contractual Services	66,000	-	-	66,000	-	-	-	66,000	-
Total Uses	\$ 1,513,974	\$ -	\$ -	\$ 1,513,974	\$ -	\$ -	\$ -	\$ 1,513,974	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

TITLE: Major Equipment Purchases

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 that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Equipment Replacement Fund	Continuing	Continuing	\$ 3,447,000	\$ 609,000	\$1,339,000	\$1,176,000	\$2,108,000	\$ 8,679,000	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 3,447,000	\$ 609,000	\$1,339,000	\$1,176,000	\$2,108,000	\$ 8,679,000	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	-	3,447,000	609,000	1,339,000	1,176,000	2,408,000	8,979,000	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	\$ -	\$ 3,447,000	\$ 609,000	\$1,339,000	\$1,176,000	\$2,408,000	\$ 8,979,000	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

Deferred Replacement									
Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement		
CDGB Fund									
791	HD-101	SUV, Economy 2WD	2007	10	25,000	0	2017		
858	HD-201	Sedan, Economy Hybrid	2008	10	25,000	0	2018		
			Fund Total:		\$50,000	\$0			
General Fund									
511	MP-104	SUV, Economy 2WD	2002	7	25,000	0	2009		
676	PN-101	SUV, Economy 2WD	2005	10	25,000	0	2015		
850	EG-102	SUV, Economy 2WD	2008	8	25,000	0	2016		
849	MP-101	SUV, Economy 2WD	2008	8	25,000	0	2016		
93	MP-402	Truck-Pickup w/Traffic Message Board	2001	16	45,000	0	2017		
846	IN-103	SUV, Economy 4WD	2008	10	30,000	0	2018		
877	MP-102	SUV, Economy 2WD	2008	10	25,000	0	2018		
859	RC-201	Sedan, Economy	2008	10	20,000	0	2018		
878	RC-306	Van, Mini Passenger	2008	10	30,000	0	2018		
			Fund Total:		\$250,000	\$0			
Water & Sewer Fund									
455	WA-703	Loader	2000	15	175,000	0	2015		
428	WA-902	Air Compressor	2001	15	20,000	0	2016		
			Fund Total:		\$195,000	\$0			
			Total Deferred Replacement		\$495,000				

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

FY Replacement 2019		Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund									
		402	FD-02	Truck-Ladder-Platform	1999	20	1,300,000	65,000	2019
		891	FD-28	Sedan, Full Size	2009	10	35,000	3,500	2019
		914	FD-29	SUV, Full Size	2009	10	62,000	6,200	2019
			Fund Total:				\$1,397,000	\$74,700	
General Fund									
		955	AS-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		960	AS-503	Truck-Dump, 4WD, snow	2010	9	130,000	14,444	2019
		893	AS-602	Asphalt Maintainer (new verison)	2009	15	154,000	10,267	2019
		894	BD-405	Truck-Pickup, 1 ton 4WD, util bed	2009	10	55,000	5,500	2019
		446	EO-901	Trailer, Low Boy	2001	18	100,000	5,556	2019
		430	GC-805	Mower-Greens	1999	20	35,000	1,750	2019
		750	GC-810	Sprayer	2006	13	30,000	2,308	2019
			PW-02	Mowers (2)	2012	7	25,000	3,571	2019
		775	PW-401	Truck-Pickup, 1/2 ton 4WD	2007	12	25,000	2,083	2019
		957	SD-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		959	SD-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		953	SW-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		1029	TE-901	Message Board, Solar Powered	2012	7	20,000	2,857	2019
		1013	TM-101	SUV, Economy 4WD	2012	7	30,000	4,286	2019
			Fund Total:				\$1,084,000	\$105,955	
Police Fund									
		1010	PD-1102	SUV, Police Package-Marked, w/add ons	2011	8	50,000	6,250	2019
		1012	PD-1104	SUV, Police Package-Marked, w/add ons	2011	8	50,000	6,250	2019
		1014	PD-1105	SUV, Full Size, unmarked	2011	8	30,000	3,750	2019
			Fund Total:				\$130,000	\$16,250	
Rescue Fund									
		804	RS-R53	Truck-Pickup, 1 ton 4WD w/add ons	2007	12	70,000	5,833	2019
			Fund Total:				\$70,000	\$5,833	
Waste Management Fund									
		888	WM-201	Sedan, Economy Hybrid	2009	10	25,000	2,500	2019
		958	WM-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		952	WM-502	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
			Fund Total:				\$265,000	\$29,167	
Water & Sewer Fund									
		897	SE-404	Truck-Pickup, 1 ton 4WD, util bed	2009	10	55,000	5,500	2019
		822	SE-701	Backhoe	2007	12	125,000	10,417	2019
		954	WA-501	Truck-Dump, Standard, snow	2010	9	120,000	13,333	2019
		956	WA-502	Truck-Dump, Tandem, snow	2010	9	130,000	14,444	2019
		579	WA-601	Asphalt Milling Machine	2004	15	71,000	4,733	2019
			Fund Total:				\$501,000	\$48,428	
			Total FY 2019 Replacement				\$3,447,000	\$280,333	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

FY Replacement 2020

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund							
941	CE-808	Gator Toolcat	2010	10	50,000	5,000	2020
447	MP-502	Truck-Dump, Tandem, snow	2007	13	135,000	10,385	2020
1015	SW-401	Truck-Pickup, 1 ton 4WD util bed	2012	8	50,000	6,250	2020
1035	TE-401	Truck, Bucket	2012	8	150,000	18,750	2020
			Fund Total:		\$385,000	\$40,385	
Police Fund							
1024	PD-1201	Van - Jail	2012	8	50,000	6,250	2020
			Fund Total:		\$50,000	\$6,250	
Water & Sewer Fund							
698	PS-902	Sewer Pump	2005	15	74,000	4,933	2020
	SE-404A	Sewer TV System	2012	8	100,000	12,500	2020
			Fund Total:		\$174,000	\$17,433	
		Total FY 2020 Replacement			\$609,000	\$64,068	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

FY Replacement 2021

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund							
771	FD-17	Truck-Pick-up, F-550 4WD, w/add ons	2006	15	62,000	4,133	2021
1092	FD-21	Truck-Pickup, 1/2 ton 4WD w/add ons	2013	8	60,000	7,500	2021
			Fund Total:		\$122,000	\$11,633	
General Fund							
1054	CC-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	50,000	6,250	2021
1053	CE-401	Truck-Pickup, 1 ton 4WD	2013	8	42,000	5,250	2021
947	HT-405	Truck-F550 Flatbed	2009	12	50,000	4,167	2021
1044	PW-03	Mowers (2)	2014	7	25,000	3,571	2021
1055	RC-302	Van, 15-Passenger	2013	8	30,000	3,750	2021
	SD-401	Truck-Pickup, 1 ton 4WD util bed	2013	8	50,000	6,250	2021
			Fund Total:		\$247,000	\$29,238	
Police Fund							
1063	PD-1301	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1064	PD-1302	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1065	PD-1303	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1066	PD-1304	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1067	PD-1305	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1068	PD-1306	SUV, Police Package-Marked, w/add ons	2013	8	50,000	6,250	2021
1071	PD-1307	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1072	PD-1308	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1061	PD-1309	SUV, Standard, K9, w/ add ons	2013	8	50,000	6,250	2021
1048	PD-1310	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
1049	PD-1311	SUV, Standard 4WD, unmarked w/add	2013	8	35,000	4,375	2021
1050	PD-1312	SUV-Unmarked	2013	8	35,000	4,375	2021
1069	PD-1313	SUV, Standard-Marked w/add ons	2013	8	50,000	6,250	2021
1089	PD-1319	SUV, Standard-Marked w/add ons	2013	8	50,000	6,250	2021
			Fund Total:		\$655,000	\$81,875	
Rescue Fund							
1094	RS-M53	Ambulance	2013	8	215,000	26,875	2021
			Fund Total:		\$215,000	\$26,875	
Waste Management Fund							
938	WM-905	Leaf Machine	2009	12	35,000	2,917	2021
939	WM-906	Leaf Machine	2009	12	35,000	2,917	2021
			Fund Total:		\$70,000	\$5,833	
Water & Sewer Fund							
1051	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		\$1,339,000	\$159,204	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

FY Replacement 2022

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
General Fund							
1121	AS-903	Asphalt Patching Equipment	2014	8	80,000	10,000	2022
1016	CE-701	Backhoe	2012	10	125,000	12,500	2022
	GC-01	Mowers (2) - Golf Course	2015	7	25,000	3,571	2022
1155	GC-811	Mower-Greens	2015	7	35,000	5,000	2022
1095	HT-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
940	HT-801	Bobcat Toolcat	2010	12	50,000	4,167	2022
1116	HT-802	ATV	2014	8	15,000	1,875	2022
1101	MP-401	Truck-Pickup, F550 4WD, dump bed	2014	8	55,000	6,875	2022
1115	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
1098	PW-201	Sedan, Economy	2014	8	25,000	3,125	2022
807	SW-701	Backhoe	2007	15	125,000	8,333	2022
			Fund Total:		\$632,000	\$68,018	
Police Fund							
1111	PD-1314	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1112	PD-1315	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1113	PD-1316	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1114	PD-1317	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
1103	PD-1320	Motorcycle-Marked	2014	8	32,000	4,000	2022
1104	PD-1321	Motorcycle-Marked	2014	8	32,000	4,000	2022
1090	PD-1401	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
1091	PD-1402	SUV, Standard 4WD, unmarked w/add	2014	8	35,000	4,375	2022
1110	PD-1403	SUV, Standard-Marked w/add ons	2014	8	50,000	6,250	2022
1144	PD-1408	SUV, Police Package-Marked, w/add ons	2014	8	50,000	6,250	2022
			Fund Total:		\$434,000	\$54,250	
Water & Sewer Fund							
1099	SE-401	Truck-Pickup, 1 ton 4WD util bed	2014	8	50,000	6,250	2022
1096	UB-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
1097	UT-402	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2014	8	30,000	3,750	2022
			Fund Total:		\$110,000	\$13,750	
		Total FY 2022 Replacement			\$1,176,000	\$136,018	

MAJOR EQUIPMENT REPLACEMENT PURCHASES FY 2019-2023

FY Replacement 2023

Equip. #	Ref. #	Description	FY Acquired	Life	Replacement Cost	Depreciation	Recommended Replacement
Fire Fund							
1154	FD-13	Truck-Brush	2015	8	100,000	12,500	2023
			Fund Total:		\$100,000	\$12,500	
General Fund							
1162	AS-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
1147	BD-401	Truck-Pickup, 1/2 ton 4WD w/tow pkg	2015	8	30,000	3,750	2023
1160	BD-402	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
1059	BD-601	Scissor Lift with Trailer	2013	10	20,000	2,000	2023
870	CH-101	SUV, Economy 2WD	2008	15	25,000	1,667	2023
1172	GC-601	Sand Trap Rake	2015	8	30,000	3,750	2023
1093	HT-501	Truck- Dump, Water	2013	10	110,000	11,000	2023
875	HT-702	Loader, Skid Steer	2008	15	45,000	3,000	2023
1194	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
1179	SW-601	Saw, Walk Behind	2015	8	27,000	3,375	2023
			Fund Total:		\$466,000	\$52,060	
Police Fund							
856	PD-085	Van - Rapid Deployment w/add ons	2008	15	51,000	3,400	2023
1140	PD-1404	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1141	PD-1405	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1142	PD-1406	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1143	PD-1407	SUV, Police Package-Marked, w/add ons	2015	8	50,000	6,250	2023
1145	PD-1409	SUV, Standard 4WD, unmarked w/add	2015	8	35,000	4,375	2023
			Fund Total:		\$286,000	\$32,775	
Rescue Fund							
1158	RS-C53	Tahoe 4WD	2015	8	60,000	7,500	2023
1156	RS-M56	Ambulance-Type II	2015	8	250,000	31,250	2023
1157	RS-R51	Tahoe 4WD	2015	8	60,000	7,500	2023
			Fund Total:		\$370,000	\$46,250	
Waste Management Fund							
1139	WM-802	Sweeper-Sidewalk	2015	8	36,000	4,500	2023
			Fund Total:		\$36,000	\$4,500	
Water & Sewer Fund							
1163	PS-401	Truck-Pickup, 1 ton 4WD, util bed	2015	8	55,000	6,875	2023
1062	SE-502	Sewer Truck-Combo Washer/Vax	2013	10	400,000	40,000	2023
1106	SE-703	Loader, Heavy Track	2013	10	300,000	30,000	2023
1159	WA-401	Truck-Pickup, F550 4WD, CC, util bed	2015	8	60,000	7,500	2023
1041	WA-706	Excavator, Mini with Trailer	2013	10	70,000	7,000	2023
			Fund Total:		\$885,000	\$91,375	
		Total FY 2023 Replacement			\$2,143,000	\$239,460	

Capital Improvement Program

Public Works Department

TITLE: Major Building System Replacement

STATUS: Continuing

PROJECT DESCRIPTION:

This project provides for the systematic replacement of major building systems equipment at the end of their useful life. Funds will be set aside each year based on the projected replacement cost and useful life just like we do for vehicles and equipment. The building systems listed on the attached schedule are only those systems due for replacement in the next five years. The implementation of this building system replacement program will eliminate the need to use operational funds to replace system equipment which fail unexpectedly during the fiscal year.

OPERATING IMPACT: None

GOAL ADDRESSED: Ensure a sustainable community that balances economic vitality, maintenance of assets, environmental stewardship, and the well-being of citizens 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 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Building System Replacement Fund	Continuing	Continuing	\$ 563,850	\$ 84,050	\$ 33,800	\$ 23,580	\$ 59,500	\$ 764,780	Continuing
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	Continuing	Continuing	\$ 563,850	\$ 84,050	\$ 33,800	\$ 23,580	\$ 59,500	\$ 764,780	Continuing

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Construction	-	-	-	-	-	-	-	-	-
Equipment	Continuing	Continuing	563,850	84,050	33,800	23,580	59,500	764,780	Continuing
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	Continuing	Continuing	\$ 563,850	\$ 84,050	\$ 33,800	\$ 23,580	\$ 59,500	\$ 764,780	Continuing

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-

Major Building System Replacement, FY 2018/19 to 2022/23

Deferred Replacement

Location	Description	Installation Date	Life	Replacement Cost	Depreciation
Municipal Building	A/C condenser split system court offices	2001	18	\$7,700	\$428
Municipal Building	Indoor air handler court offices	1992	27	\$5,000	\$185
Municipal Building	Indoor duct heater court offices	1992	27	\$9,000	\$333
Municipal Building	control system court offices	1992	27	\$5,000	\$185
Police Department Building	1 pneumatic control system	1982	37	\$16,500	\$446
Police Department Building	1 gas fired boiler	1982	37	\$27,500	\$743
Police Department Building	2 a/c condenser split systems	1998	21	\$8,800	\$419
Police Department Building	1 VAV Controller	1992	27	\$8,800	\$326
Police Department Building	2 custom built air handler w/hot water heat	1982	37	\$12,000	\$324
Police Communication Building	4 a/c units w/electric heat	1997	22	\$24,000	\$1,091
Progress St. Fire House	1 pneumatic control system	1986	33	\$16,500	\$500
Progress St. Fire House	1 gas fired boiler - main level and basement	1986	33	\$38,500	\$1,167
Progress St. Fire House	1 gas fired boiler - Bay area	1986	33	\$35,000	\$1,061
Progress St. Fire House	3 roof top a/c package units	1991	28	\$33,000	\$1,179
Progress St. Fire House	2 split a/c systems	1996	23	\$17,600	\$765
Progress St. Fire House	2 hanging air handler - bay area	1983	36	\$10,000	\$278
Purchasing Warehouse	Exhaust Fan warehouse area	1997	22	\$880	\$40
PW Administration Building	1 forced air gas horizontal furnace admin	1998	21	\$3,300	\$157
PW Administration Building	1 split a/c system - admin	1998	21	\$4,950	\$236
PW Administration Building	1 forced air gas fired furnace - lunchroom	2000	19	\$3,300	\$174
PW Administration Building	1 split a/c system - lunchroom	2000	19	\$4,950	\$261
PW Storage Buildings	1 gas fire unit heat - landscape shed	2000	19	\$3,200	\$168
Recreation Center	6 hot water air handlers - gym & locker room	1981	38	\$132,000	\$3,474
Recreation Center	1 pneumatic temperature control system	1981	38	\$16,500	\$434
PW - Town Garage	5 infrared heating units	1997	22	\$9,000	\$409
PW - Town Garage	Air compressor w dryer	2008	11	\$25,000	\$2,273
Blacksburg Motor Company	4 Building Sump Pumps	2008	11	\$4,200	\$382
Fire House III	1 Compressor/Dryer	2008	11	\$10,500	\$955
TOTAL:				\$492,680	\$18,391

Major Building System Replacement, FY 2018/19 to 2022/23

FY to be Replaced: 2019

Location	Description	Installation Date	Life	Replacement Cost	Depreciation
Aquatic Center	Z pack duct energy recovery system heat w/ duct heater	2018	20	\$60,000	\$3,000
Aquatic Center	B - Heat Exchangers - Pool	2018	20	\$8,000	\$400
Aquatic Center	1 gas fired boiler	1992	27	\$75,000	\$2,778
Aquatic Center	Energy Recovery Unit/ heat-air-dem-Pool Area (Dectron)	2003	16	\$330,000	\$20,625
Municipal Building	A/C split system Town Hall Conference Room 1st floor	2017	15	\$4,000	\$267
Municipal Building	Roof top package w/ gas heat council chambers	2017	20	\$22,000	\$1,100
Municipal Building	Roof top A/C unit council chambers	2017	20	\$4,000	\$200
Parks & Rec Administration	3 forced air furnaces	2018	15	\$9,900	\$660
Parks & Rec Administration	3 split a/c systems	2018	20	\$16,500	\$825
Purchasing Warehouse	Horizontal Furnace forced gas	2018	21	\$1,650	\$79
Purchasing Warehouse	1 split a/c system	2018	10	\$8,800	\$880
Recreation Center	2 roof top package unit gas - art room & senior	2018	20	\$20,000	\$1,000
Thomas Conner House	2 a/c units window	2018	15	\$4,000	\$267
TOTAL:				\$563,850	\$32,080

FY to be Replaced: 2020

Location	Description	Installation Date	Life	Replacement Cost	Depreciation
Aquatic Center	Heat/cool roof top package unit - Lobby Area	2005	15	\$11,000	\$733
Aquatic Center	Pool Pumps - Heat - A	1992	28	\$3,500	\$125
Aquatic Center	Pool Pumps - Heat - B	1992	28	\$3,500	\$125
Old Town Hall	1 forced air gas furnace	2005	15	\$6,600	\$440
Old Town Hall	1 split a.c system / heat pump	2005	15	\$6,600	\$440
Police Department Building	a/c system heat w/electric furnace - evidencne area	2000	20	\$4,000	\$200
Police Communication Building - N	2 a/c units w/electric heat	2000	20	\$13,000	\$650
Price's Fork Rd. Fire House	2 split a/c systems	2005	15	\$17,600	\$1,173
Price's Fork Rd. Fire House	2 forced air furnaces	1991	29	\$8,800	\$303
PW Administration Building	1 forced air gas fired furnace - training	2004	16	\$4,950	\$309
PW Administration Building	1 split a/c system - training	2004	16	\$3,300	\$206
PW - Town Garage	2 electric heating units ceiling	2000	20	\$1,200	\$60
TOTAL:				\$84,050	\$4,766

Major Building System Replacement, FY 2018/19 to 2022/23

FY to be Replaced: 2021

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

FY to be Replaced: 2022

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

FY to be Replaced: 2023

Location	Description	Installation Date	Life	Replacement Cost	Depreciation
Police Department Building	roof top cooling & heating unit - Chief Area	2003	20	\$15,000	\$750
Police Department Building	roof top cooling & heating unit - Training Room	2003	20	\$10,000	\$500
Blacksburg Motor Company	5 Ductless Split A/C Units	2008	15	\$12,500	\$833
Kipps Restroom	3-ceiling mounted unit heaters	2013	10	\$6,000	\$600
Fire House III	4 Tube type gas heat	2008	15	\$16,000	\$1,067
TOTAL:				\$59,500	\$3,750

Capital Improvement Program

Public Works Department

TITLE: Brush, Leaf and Debris Management Planning

STATUS: New

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 our current disposal site at Virginia Tech. This project will also support the department emergency debris management program.

OPERATING IMPACT: None

GOAL ADDRESSED: Provide safe and reliable public and private utilities meeting the demand needs in a customer service-oriented manner that promotes economic opportunity and a high quality of life.

Significant Dates

ESTIMATED START	ESTIMATED COMPLETION
Summer 2018	Spring 2020

Funding Sources

Sources	Total Required Project Funding	Funded through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Funds Required
Solid Waste Fund	\$ 75,000	\$ -	\$ 25,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 75,000	\$ -
General Obligation Bonds	-	-	-	-	-	-	-	-	-
Water/Sewer Fund	-	-	-	-	-	-	-	-	-
Storm Water Fund	-	-	-	-	-	-	-	-	-
VDOT Revenue Sharing	-	-	-	-	-	-	-	-	-
Total Sources	\$ 75,000	\$ -	\$ 25,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 75,000	\$ -

Planned Uses

Uses	Total Project Cost	Expended through 6/30/2018	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP	Future Project Cost
Design/Engineering	\$ 25,000	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000	\$ -
Construction	50,000	-	-	50,000	-	-	-	50,000	-
Equipment	-	-	-	-	-	-	-	-	-
Contractual Services	-	-	-	-	-	-	-	-	-
Total Uses	\$ 75,000	\$ -	\$ 25,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 75,000	\$ -

Operating Impact

Expense Category	FY19	FY20	FY21	FY22	FY23	Total for Five Year CIP
N/A						-



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