

County of Roanoke, Virginia



Adopted Capital Improvement Program
Fiscal Years 2024—2033







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For the Fiscal Year Beginning

July 01, 2022

Christopher P. Morrell

Executive Director



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July 1, 2023

To the Honorable Chairwoman and Members of the Board of Supervisors, and the Citizens of Roanoke County, Virginia:

On May 23, 2023, the Roanoke County Board of Supervisors adopted the fiscal year 2024 – fiscal year 2033 Capital Improvement Program (CIP). The County Administrator's proposed fiscal year 2024 - fiscal year 2033 CIP and proposed operating budget were presented to the Board of Supervisors on March 28, 2023.

The Board of Supervisors made no changes to the proposed FY 2023-2024 CIP. Following discussions between the Roanoke County Board of Supervisors and the Roanoke County School Board, the 17-17-17 debt model was changed to a 20-20-20 debt model. This allows additional debt financing of projects for the County in FY 2026, FY 2029, and FY 2032. Use of these funds is planned for improvements to existing fire stations and possible new stations or replacements pending completion of an assessment of Fire & Rescue needs.

On April 20, 2023, the Roanoke County School Board approved the Schools fiscal year 2024- fiscal year 2033 CIP. This CIP reflects the Memorandum of Understanding approved by the Roanoke County Board of Supervisors and the Roanoke County School Board which provides \$130 million to fund the construction of the new Career and Technical Education (CTE) Center and renovations at WE Cundiff Elementary and Glen Cove Elementary schools. This CIP developed with the new 20-20-20 debt model also provides for improvements at Northside Middle, Hidden Valley Middle, Glenvar Elementary, Burlington Elementary, and Penn Forest Elementary, the Capital Maintenance Plan, and other minor capital expenditures.

As part of this section of the CIP document, the County Administrator's March 28, 2023 transmittal letter to the Board of Supervisors has been included, as it provides insight into the priorities of the ten-year CIP. The remainder of this document reflects the fiscal year 2024 – fiscal year 2033 CIP as adopted by the Board of Supervisors on May 23, 2023.

Sincerely,



Laurie L. Gearheart, CPA
Director of Finance & Management Services



Steven R. Elliott
Budget
Administrator



March 28, 2023

Dear Chairwoman Hooker and Members of the Board of Supervisors:

Attached for your consideration is the Proposed FY 2024 – FY 2033 Capital Improvement Program (CIP). This proposal for the FY 2024 – FY 2033 CIP totals \$147,135,212 in capital projects over the ten-year plan. The proposed FY 2024 – FY 2033 CIP is balanced with funding identified for all projects proposed and meets all criteria set forth within the County's Comprehensive Financial Policy.

The priorities of this 10-year plan include continued funding to support maintenance of facilities and technology infrastructure, funding for replacement/improvements to County facilities, and continuing progress on commitments to promote community and economic development in Roanoke County. There are several independent facility studies underway that will guide the strategic direction of the County's CIP priorities. These studies include a Comprehensive Facilities Study, a study for Fire and Rescue facilities, and a study for the Roanoke County Administration Center (RCAC).

In prior Capital Improvement Programs, projects were categorized by functional teams. In the FY 2024 – FY 2033 CIP, we have updated this methodology to present by categories that include Building and Facilities; Capital Maintenance Plans and Recurring Items; Transportation, Assessments and Studies; and Computer, Infrastructure, Software, and Hardware. We believe this organization will better serve the County in its ability to review and prioritize projects and funding sources.

Project planning will be funded through various sources, including capital reserves, future bond issuances, general government transfers, and other non-County funding avenues. Through conservative budgeting and greater-than-expected tax revenues, Roanoke County was able to set aside funding for capital reserve purposes. The FY 2024 use of capital reserve funding for County projects is proposed at \$5.9 million. The County's FY 2024 – 2033 CIP includes bond funding at a newly increased "20-20-20" borrowing starting in FY 2027. County bond issuances are planned every 3 years, which is included in FY 2026, FY 2029, and FY 2032.

Funding for this plan also includes the transfer from the general government fund in the amount of \$2.9 million. This funding is necessary to continue to fund ongoing capital maintenance programs and yearly increases assist with creating a sustainable funding model.



Funding for Replacement/Improvements of County Facilities

Buildings and Facilities

The Proposed Capital Improvement Program plans for replacement of other County facilities through bond and other funding sources in all three of the County's borrowing years, FY 2026, FY 2029, and FY 2032. Bond funding in FY 2026 of \$15.6 million is planned toward the replacement of the Hollins Library, \$16.0 million is planned in FY 2029 for the Hollins Fire Station Replacement and \$29.4 million is planned in the 10-year CIP to fund Fire Station Improvements/Replacements/Additions.

In FY 2024, the County plans to fund \$2.7 million through the use of capital reserves to fund Courthouse and Public Safety Center HVAC replacements, as well as the first phase of the Jail Roof Replacement. Other planned projects have been identified to address repairs and maintenance in regards to the Green Ridge Dehumidification Systems (FY 2026), Explore Park Enhancements (FY 2026), Athletic Field Lighting (FY 2029 - FY 2031), Bent Mountain and Mount Pleasant Libraries Renovation & Expansion (FY 2030 - FY 2031), and various HVAC updates.

Supporting Maintenance of Facilities and Technology Infrastructure

The FY 2024 – FY 2033 Capital Improvement Program provides adequate funding for ongoing programs that allow County departments to continue proper maintenance of facilities and technology infrastructure that are vital to operations.

Capital Maintenance Programs & Recurring Items

The FY 2024 – FY 2033 CIP includes \$41.2 million in funding for Capital Maintenance Programs (CMPs) and other recurring capital items over the next ten years. In FY 2024, \$2.7 million is proposed to adequately fund maintenance programs for General Services, Parks, Recreation & Tourism, Green Ridge Recreation Center, and the Sheriff's Office. Funding is a priority as these CMP programs ensure that County facilities will remain functional and safe for our citizens, visitors, and employees.

This category also includes a grant match for Stormwater Local Assistance Fund and required debt payments for the Broadband Authority and Wood Haven Technology Park. Debt payments for the Roanoke County Broadband Authority Infrastructure are proposed to receive \$1.5 million through FY 2027, when the term is complete. Debt payments for the Wood Haven Property Acquisition and Improvements are proposed to receive \$3.7 million in total through the 10-year plan, which will be completed in FY 2037.

Computer Infrastructure, Software and Hardware

Maintenance of technology equipment and infrastructure is vital to the ongoing operations of Roanoke County. In FY 2024 – FY 2033, \$17.7 million of funding is allocated for upgrades to computer infrastructure, software, and hardware. Of this amount, annual funding is allocated for both the County-Wide Computer Replacement Program (\$2.7 million) and the IT Infrastructure Replacement Capital Maintenance Program (\$8.1 million).

Additional funding is included for other upgrade and replacement projects for County technology equipment and software utilized throughout the County. In FY 2024, these



projects include a Genesis Operations Bridge project (\$0.2 million) which will correct issues experienced in the delivery of alarm messages to key service and management personnel and a Radio Systems Generator replacement project (\$0.1 million) which will replace back-up generators to maintain a reliable power source to the mountain top tower sites to ensure uninterrupted service. Further projects include an Enterprise GIS Maps and Apps Upgrade project (\$0.4 million) to upgrade the suite of GIS Maps & Apps suite of solutions used by citizens and employees of Roanoke County and the replacement of the current Email and Business Productivity Tools (\$0.2 million).

Further projects include \$1.0 million in funding for Global Payroll, which will replace the County's current payroll system and provide required platform changes for needed functionality. A Voting Machine Replacement project (\$0.4 million) will replace the County's existing voting equipment initially acquired in 2015 which will reach the end of their useful life. The recurring Public Computer Replacement project (\$0.8 million over the 10-year CIP period) allows the libraries to maintain the technological requirements needed to run current and future software, and security programs.

Commitments to Promote Community and Economic Development

The Proposed FY 2024 – FY 2033 Capital Improvement Plan supports various projects that will fulfill the County's commitment to economic development. It's imperative that Roanoke County continues to forge ahead with efforts to create future opportunities for economic and community development.

Assessments and Studies

Funding in FY 2024 has been set aside to evaluate several planning projects which include a study on the New Zoning Ordinance, Housing Study, East Roanoke River Greenway Feasibility Study, and the Williamson Road/Peters Creek Road Multimodal Safety Study. This funding category totals \$0.75 million.

Transportation

The proposed CIP has set aside funds in FY 2024 – FY 2033 to provide a match for the VDOT Revenue Sharing program. This support totals \$5.1 million over the 10-year CIP. Additionally, \$0.3 million has been allocated towards the East Roanoke River Greenway project which will provide funding for the local grant match for the Federal Lands Access Program.

Conclusion

As presented, the CIP is balanced and reflects the updated Board of Supervisors' "20-20-20" model starting in FY 2027. Each County project proposed for financing through debt issuance meets the approved debt ratios assigned in the financial policy. Projections for future debt include an assumption of \$20.0 million for Roanoke County Public Schools during the years that they are scheduled for funding. The Proposed FY 2024 – FY 2033 CIP reflects priorities to provide funding for replacement and improvements of County facilities, support of maintenance of facilities and technology infrastructure, and also continuing Roanoke County's commitment to community and economic development.



We would like to recognize the contributions of Deputy County Administrator Rebecca Owens, Assistant County Administrator Doug Blount; our Finance and Management Services Department staff, including Laurie Gearheart and Jessica Beemer; Budget Division staff, including Steve Elliott and Corey White; and Department Directors, Constitutional Officers and their staff in the development of this 10-year CIP. We appreciate the collaboration of all involved to develop a capital improvement plan that is financially sound and addresses the needs of our community.

Sincerely,

Richard L. Caywood, P.E.
Roanoke County Administrator



Capital Improvement Program Overview

The underlying strategy for the development of the Capital Improvement Program (CIP) is to plan for construction and maintenance of investments necessary to provide public services in compliance with the County's Comprehensive Plan and other adopted policies. It is a long-range planning tool used to schedule anticipated capital projects and coordinate capital financing in a way that manages future debt service requirements. By looking beyond the current year and projecting what, where, when and how capital investments should be made, capital programming enables the County to maintain an effective level of service for both the present and future population.

The CIP is a detailed listing of projects submitted to the Board of Supervisors for approval. For the purposes of the CIP, a capital project (or collection of projects) is defined as being beneficial to County citizens, generally costs in excess of \$100,000, and has a lifespan of over five years or, if funded by bonds, a lifespan at least equal to the length of the bond issue. This can include items such as reconstruction or replacement of buildings or equipment, new construction or development, and acquisition of property and equipment.

The CIP is a planning document and is subject to change each year as the needs of the community become more defined. The first year of the ten-year plan is the only formal appropriation of funding. The program is reviewed annually and revised based on current community needs, asset conditions, available resources, and funding opportunities.

The County Administrator established project priorities to align available resources with projects over the ten-year period. These priorities provided by the County Administrator for projects included in the ten-year plan include:

- Funding for fire stations that are strategically located to best meet citizen needs and efficiently respond to emergencies;
- Continuing support for Roanoke County's commitment to long term economic development strategies; and
- Prioritizing funding that was reduced in FY 2021 for ongoing projects that support the maintenance of existing facilities and equipment.

The CIP document is organized into three primary sections. These sections include:

- Summary of budget and financial information on all projects, funding sources, and additional operating impacts;
- Project descriptions with budget and funding information for each project organized by categories; and
- Appendices providing information on projects not funded in the ten-year plan and information regarding the County's outstanding debt and Board of Supervisors approved debt policies, and VDOT Transportation Projects.



Roanoke County Vision and Strategic Plan

Community Strategic Plan

In FY 2017, the County of Roanoke Board of Supervisors adopted the first-ever Community Strategic Plan. As part of the strategic planning process, the following vision statement was developed in January 2016.

Vision Statement:

“Roanoke County is a vibrant, innovative, and scenic community that values its citizens, heritage, and quality of life.”

The Community Strategic Plan was created to provide guidance and influence the development of annual budget planning including the Capital Improvement Program (CIP). The County’s CIP development process included review of the departmental requests for capital funds in light of the vision and strategic direction provided by the community through the civic engagement process.

Strategic Initiatives

- Connect Roanoke County to the World
- Position Roanoke County for Future Economic Growth
- Promote Neighborhood Connections
- Ensure Citizen Safety
- Be a Caring & Inclusive Community
- Promote Lifelong Learning
- Keep Roanoke County Healthy, Clean, and Beautiful

Data on the progress toward these initiatives will be collected, reviewed, reported and used to adjust County services and programs. Each year, an annual report is created to highlight the accomplishments related to the Community Strategic Plan from the prior year. The full Community Strategic Plan and annual reports can be found online at www.roanokecountyva.gov/CSP.

Organizational Strategic Plan

Roanoke County adopted an internal Organizational Strategic Plan, which identifies strategies to be used by departments and employees to deliver quality services with integrity and distinction in October 2017.

The following outcome areas were identified by staff as priorities within the Organizational Strategic Plan.

Outcome Areas:

- Responsive Service Delivery
- Branding and Marketing
- Workplace Culture and Being an Employer of Choice

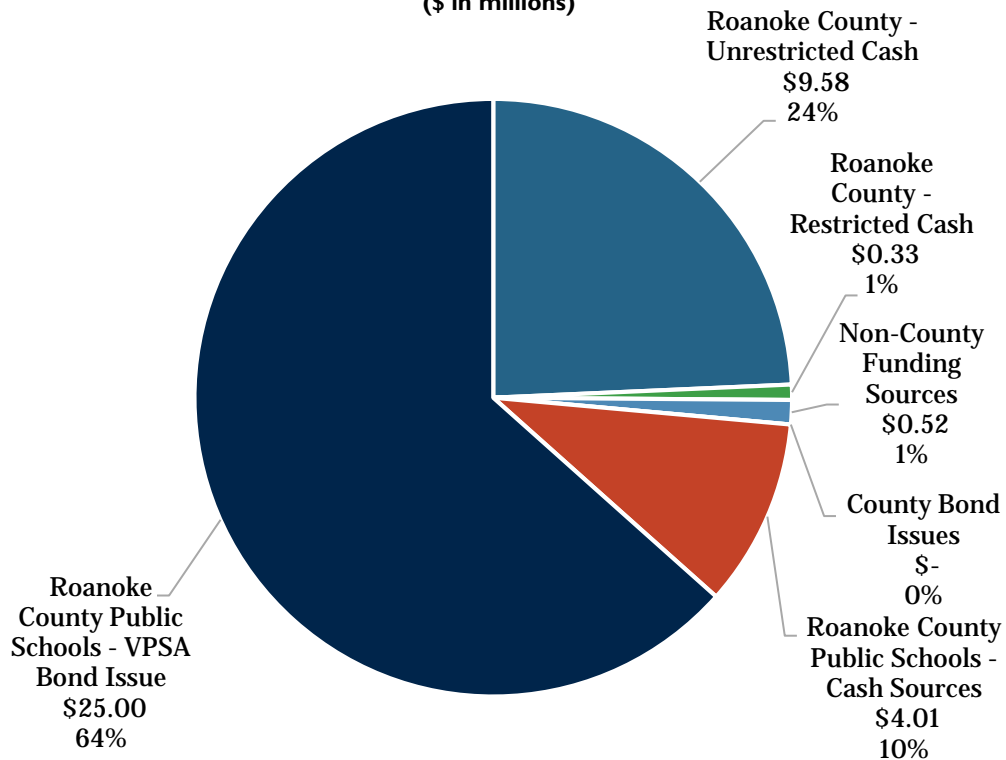
Staff continue to monitor progress toward and prioritize goals within each outcome area.



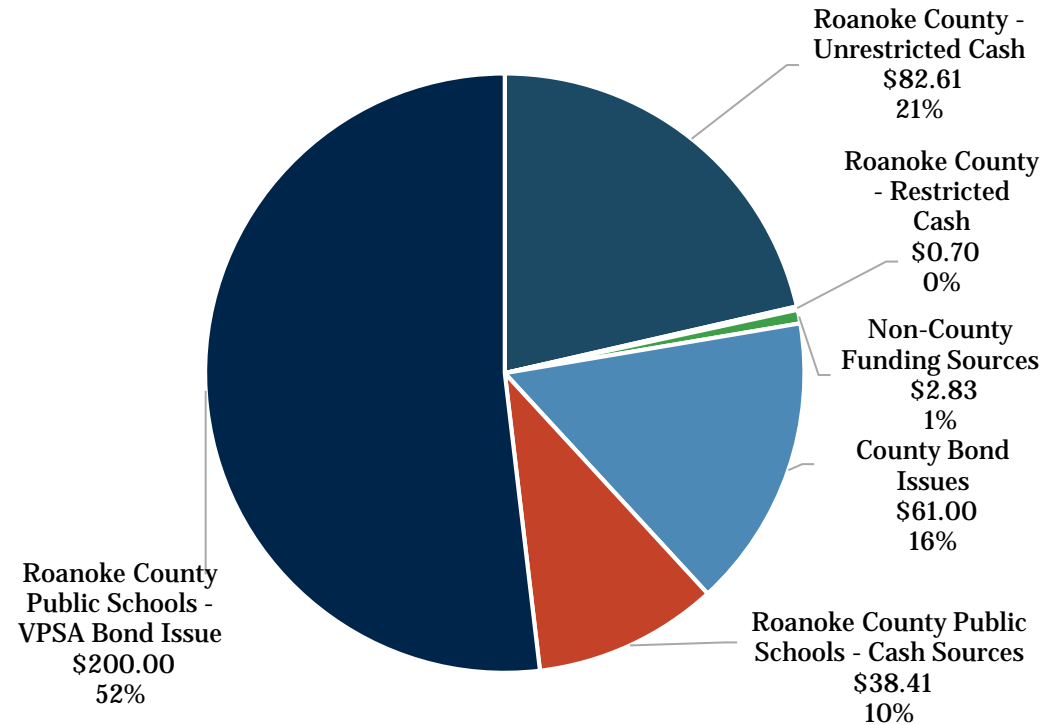


FY 2024 – FY 2033 Adopted Capital Improvement Program Summary of County & Schools Funding Sources

FY 2024
\$39,430,081
(\$ in millions)



FY 2024 - 2033
\$385,549,195
(\$ in millions)





County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Summary of County Funding

Roanoke County - Unrestricted Cash	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total
General Government Transfer	\$2,900,000	\$5,150,000	\$6,585,000	\$8,650,000	\$9,500,000	\$7,250,000	\$7,500,000	\$8,000,000	\$7,500,000	\$7,500,000	\$70,535,000
Capital Reserves	5,925,138	3,083,395	0	0	0	0	0	0	0	0	9,008,533
VPSA Refunding Bonds	167,625	124,750	124,125	125,931	122,831	82,944	82,631	82,631	82,631	82,631	1,078,730
Debt Fund - County	280,812	280,812	276,487	279,309	279,354	143,006	137,366	0	0	0	1,677,146
Reallocation of Completed or Cancelled Projects	306,503	0	0	0	0	0	0	0	0	0	306,503
Subtotal, Unrestricted Cash	\$9,580,078	\$8,638,957	\$6,985,612	\$9,055,240	\$9,902,185	\$7,475,950	\$7,719,997	\$8,082,631	\$7,582,631	\$7,582,631	\$82,605,912
Roanoke County - Restricted Cash	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total
CommIT Fund Transfer	\$125,000	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
CommIT Fund Balance	100,000	0	0	0	0	0	0	0	0	0	100,000
CommIT Communications Fund Balance	100,000	0	0	0	0	0	0	0	0	0	100,000
Subtotal, Restricted Cash	\$325,000	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$700,000
Non-County Funding Sources	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total
Stormwater Local Assistance Fund	\$0	\$0	\$250,000	\$0	\$0	\$375,000	\$0	\$0	\$375,000	\$0	\$1,000,000
Transfer from Schools	500,000	0	0	0	0	0	0	0	0	0	500,000
Contribution from the City of Salem	17,550	61,750	0	0	0	0	0	0	0	0	79,300
Contribution from the City of Roanoke	0	1,250,000	0	0	0	0	0	0	0	0	1,250,000
Subtotal, Non-County Funding Sources	\$517,550	\$1,311,750	\$250,000	\$0	\$0	\$375,000	\$0	\$0	\$375,000	\$0	\$2,829,300
Roanoke County - Bonds	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total
Lease / Revenue Bonds	\$0	\$0	\$21,000,000	\$0	\$0	\$20,000,000	\$0	\$0	\$20,000,000	\$0	\$61,000,000
Subtotal, Lease / Revenue Bonds	\$0	\$0	\$21,000,000	\$0	\$0	\$20,000,000	\$0	\$0	\$20,000,000	\$0	\$61,000,000
Total, All County Funding Sources	\$ 10,422,628	\$ 10,075,707	\$ 28,360,612	\$ 9,180,240	\$ 9,902,185	\$ 27,850,950	\$ 7,719,997	\$ 8,082,631	\$ 27,957,631	\$ 7,582,631	\$ 147,135,212

Capital Improvement Program FY 2024 – FY 2033



Summary of Funding Sources

Summary of County & Schools Funding Sources (Continued)

Roanoke County Public Schools (RCPS) - All Funding Sources	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total
Transfer from Schools General Fund	\$ 1,250,000	\$ 1,500,000	\$ 1,750,000	\$ 2,000,000	\$ 2,250,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 2,500,000	\$ 21,250,000
Major Capital Reserves	2,000,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	7,400,000
Debt Fund - Schools	640,703	676,244	700,833	725,424	752,750	644,694	0	0	0	0	4,140,648
Grant Funds	0	0	0	0	0	0	0	0	0	0	0
County transfer for cash in MOU	0	5,000,000	0	0	0	0	0	0	0	0	5,000,000
VPSA Refunding Credits	116,750	116,250	117,931	114,831	74,943	74,631	3,987	4,012	0	0	623,335
VPSA Bond Issue	25,000,000	95,000,000	0	0	20,000,000	0	20,000,000	20,000,000	0	20,000,000	200,000,000
Total, RCPS Funding Sources	\$29,007,453	\$102,892,494	\$3,168,764	\$3,440,255	\$23,677,693	\$3,819,325	\$23,103,987	\$23,104,012	\$3,100,000	\$23,100,000	\$238,413,983
Total, FY 24-33 County & RCPS Funding Sources	\$39,430,081	\$112,968,201	\$31,529,376	\$12,620,495	\$33,579,878	\$31,670,275	\$30,823,984	\$31,186,643	\$31,057,631	\$30,682,631	\$385,549,195



County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program All County Funding Sources with Projects

Funding Source/Category/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Contribution from City of Roanoke											
Computer Infrastructure, Software and Hardware											
Roanoke Valley Radio System Hardware Upgrade	0	1,250,000	0	0	0	0	0	0	0	0	1,250,000
Contribution from City of Roanoke Total	\$0	\$1,250,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,250,000
Contribution from City of Salem											
Buildings and Facilities											
Jail Roof Replacement	17,550	61,750	0	0	0	0	0	0	0	0	79,300
Contribution from City of Roanoke Total	\$17,550	\$61,750	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$79,300
Lease/Revenue Bonds											
Buildings and Facilities											
Hollins Fire Station Replacement	0	0	0	0	0	16,000,000	0	0	0	0	16,000,000
Hollins Library Replacement	0	0	15,600,000	0	0	0	0	0	0	0	15,600,000
Fire Station Improvements/Replacement/Additions	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
Lease/Revenue Bonds Total	\$0	\$0	\$21,000,000	\$0	\$0	\$20,000,000	\$0	\$0	\$20,000,000	\$0	\$61,000,000
Roanoke County - Unrestricted Cash											
Assessments and Studies											
New Zoning Ordinance	150,000	100,000	0	0	0	0	0	0	0	0	250,000
Housing Study	200,000	0	0	0	0	0	0	0	0	0	200,000
East Roanoke River Greenway Feasibility Study	200,000	0	0	0	0	0	0	0	0	0	200,000
Williamson Road/Peters Creek Road Multimodal Safety Study	200,000	0	0	0	0	0	0	0	0	0	200,000

Capital Improvement Program FY 2024 – FY 2033



All Funding Sources with Projects

All Funding Sources (continued)

Funding Source/Category/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Roanoke County - Unrestricted Cash (Continued)											
Buildings and Facilities											
Jail Roof Replacement	117,450	413,250	0	0	0	0	0	0	0	0	530,700
Hollins Fire Station Replacement	0	0	0	0	600,000	0	0	0	0	0	600,000
Explore Park (Phase II)	0	0	750,000	0	0	0	0	0	0	0	750,000
Courthouse HVAC Replacement	500,000	800,000		5,100,000	0	0	0	0	0	0	6,400,000
Commonwealth's Attorney Office Renovations	0	431,200	0	0	0	0	0	0	0	0	431,200
Public Safety Center HVAC and UPS Replacements	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Brambleton Center HVAC Equipment Replacement	0	0	525,000		0	0	0	0	0	0	525,000
RCAC HVAC Replacement	0	0	0		5,200,000	0	0	0	0	0	5,200,000
Hollins Library Replacement	0	500,000	0	0	0	0	0	0	0	0	500,000
Bent Mtn & Mount Pleasant Library Renovations & Expansion	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Green Ridge Dehumidification	0	0	740,000	0	0	0	0	0	0	0	740,000
Sports Field Lighting Replacement	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
Capital Maintenance Programs & Recurring											
Sheriff's Office Capital Maintenance Program	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
NPDES - MS4 BMP Construction	100,000	200,000	250,000	100,000	150,000	375,000	100,000	100,000	375,000	100,000	1,850,000
Storm Drainage Maintenance of Effort Program	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
Roanoke County Broadband Initiative	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Wood Haven Technology Park	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
Green Ridge Capital Maintenance Program	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
Parks and Recreation Capital Maintenance Program	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
General Services Capital Maintenance Program	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787

Capital Improvement Program FY 2024 – FY 2033



All Funding Sources with Projects

All Funding Sources (continued)

Funding Source/Category/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Roanoke County - Unrestricted Cash (Continued)											
Computer Infrastructure, Software and Hardware											
Genesis Operating Bridge	220,000	0	0	0	0	0	0	0	0	0	220,000
Radio Systems RF Sites Generator Replacement	120,000	0	0	0	0	0	0	0	0	0	120,000
Wave Critical Connect Upgrade	0	200,000	0	0	0	0	0	0	0	0	200,000
911 Phone and Radio Console Upgrade	0	125,000	0	0	0	0	0	0	0	0	125,000
OTek Console Encryption Keying Upgrade	0	100,000	0	0	0	0	0	0	0	0	100,000
Roanoke Valley Radio System Hardware Update	0	1,250,000	0	0	0	0	0	0	0	0	1,250,000
Voting Machine Replacement	425,000	0	0	0	0	0	0	0	0	0	425,000
County-Wide Cisco Phone Replacement Program	0	0	0	0	0	300,000	0	0	0	0	300,000
Email and Business Productivity Tools Replacement	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000
IT Infrastructure Replacement Plan	875,000	525,000	525,000	525,000	650,000	750,000	800,000	1,200,000	750,000	750,000	7,350,000
Enterprise GIS Maps and Apps Upgrade	400,000	300,000	0	0	0	0	0	0	0	0	700,000
County-Wide Computer Replacement Program	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
County-Wide Library Public Use Computer Replacement	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Global Payroll Modules	500,000	0	0	0	0	0	0	0	0	0	500,000
Transportation											
VDOT Revenue Sharing Projects (Small Projects & TBD)	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
East Roanoke River Greenway	250,000	0	0	0	0	0	0	0	0	0	250,000
Roanoke County - Unrestricted Cash Total	\$9,580,078	\$8,638,957	\$6,985,612	\$9,055,240	\$9,902,185	\$7,475,950	\$7,719,997	\$8,082,631	\$7,582,631	\$7,582,631	\$82,605,912

Capital Improvement Program FY 2024 – FY 2033



All Funding Sources with Projects

All Funding Sources (continued)

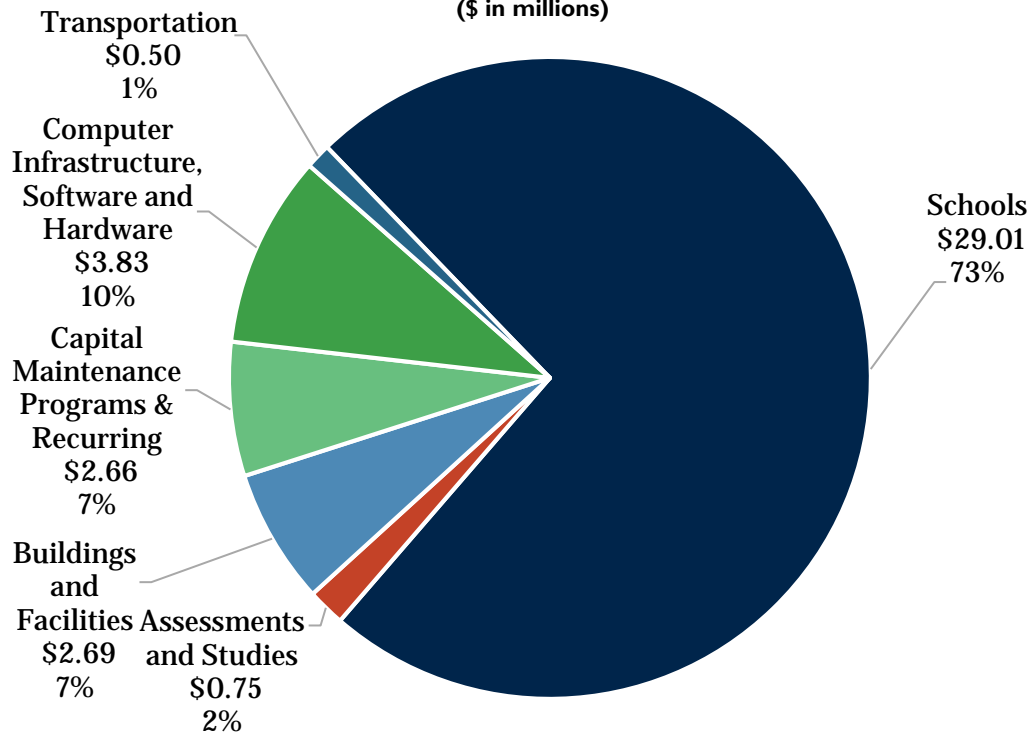
Funding Source/Category/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Transfer from Roanoke County Schools											
Computer Infrastructure, Software and Hardware											
Global Payroll Modules	500,000	0	0	0	0	0	0	0	0	0	500,000
Transfer from Roanoke County Schools Total	\$500,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000
Transfer from CommIT Fund											
Computer Infrastructure, Software and Hardware											
IT Infrastructure Replacement Program	325,000	125,000	125,000	125,000	0	0	0	0	0	0	700,000
Transfer from CommIT Fund Total	\$325,000	\$125,000	\$125,000	\$125,000	\$0	\$0	\$0	\$0	\$0	\$0	\$700,000
Stormwater Local Assistance Fund											
Capital Maintenance Programs & Recurring											
NPDES - MS4 BMP Construction	0	0	250,000	0	0	375,000	0	0	375,000	0	1,000,000
Stormwater Local Assistance Fund Total	\$0	\$0	\$250,000	\$0	\$0	\$375,000	\$0	\$0	\$375,000	\$0	\$1,000,000
Roanoke County - All Funding Sources	\$10,422,628	\$10,075,707	\$28,360,612	\$9,180,240	\$9,902,185	\$27,850,950	\$7,719,997	\$8,082,631	\$27,957,631	\$7,582,631	\$147,135,212
Roanoke County Schools - All Funding Sources											
Schools											
Transfer from Schools General Fund	1,250,000	1,500,000	1,750,000	2,000,000	2,250,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	21,250,000
Major Capital Reserves	2,000,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	7,400,000
Debt Fund - Schools	640,703	676,244	700,833	725,424	752,750	644,694	0	0	0	0	4,140,648
Grant Funds	0	0	0	0	0	0	0	0	0	0	0
County transfer for cash in MOU	0	5,000,000	0	0	0	0	0	0	0	0	5,000,000
VPSA Refunding Credits	116,750	116,250	117,931	114,831	74,943	74,631	3,987	4,012	0	0	623,335
VPSA Bond Issue	25,000,000	95,000,000	0	0	20,000,000	0	20,000,000	20,000,000	0	20,000,000	200,000,000
Roanoke County Schools - All Funding Sources	\$29,007,453	\$102,892,494	\$3,168,764	\$3,440,255	\$23,677,693	\$3,819,325	\$23,103,987	\$23,104,012	\$3,100,000	\$23,100,000	\$238,413,983
Total FY 24-33 County & Schools CIP	\$39,412,531	\$111,656,451	\$31,529,376	\$12,620,495	\$33,579,878	\$31,670,275	\$30,823,984	\$31,186,643	\$31,057,631	\$30,682,631	\$384,219,895



FY 2024 – FY 2033 Adopted Capital Improvement Program Summary of County & Schools Projects by Category

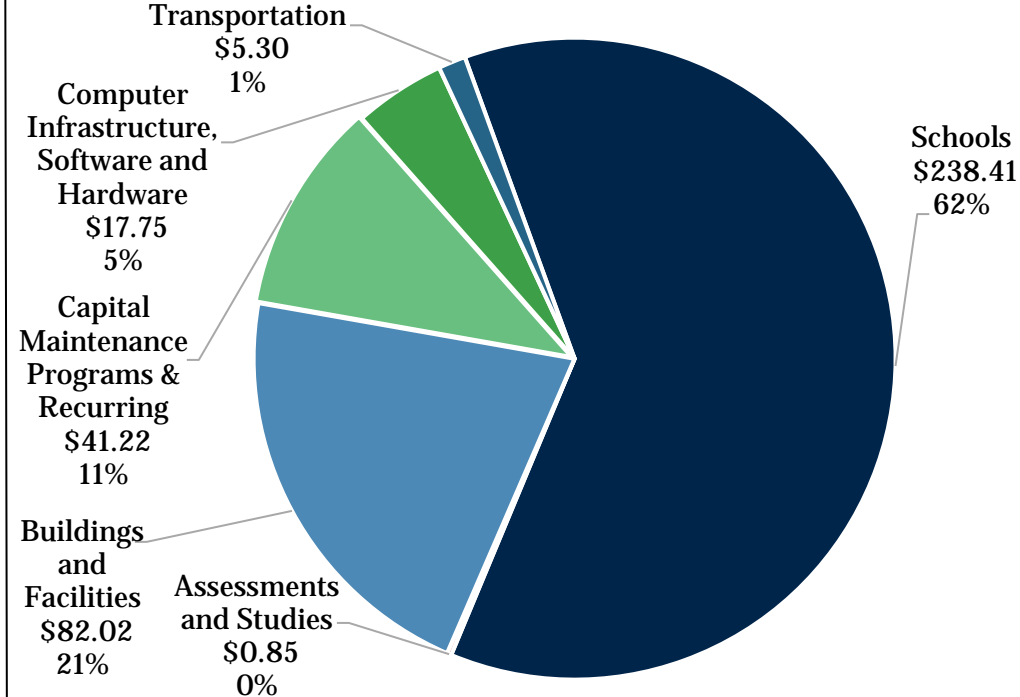
FY 2024
\$39,430,081

(\$ in millions)



FY 2024 - 2033
\$385,549,195

(\$ in millions)





County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Summary of County & Schools Projects by Category

Roanoke County Summary of Expenditures by Category & Department											
Category/Department	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24-33
Assessments and Studies											
Planning	\$750,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850,000
Subtotal, Assessments and Studies	750,000	100,000	0	0	0	0	0	0	0	0	850,000
Buildings and Facilities											
Library	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
Commonwealth's Attorney	0	431,200	0	0	0	0	0	0	0	0	431,200
Fire and Rescue	0	0	5,400,000	0	600,000	20,000,000	0	0	20,000,000	0	46,000,000
General Services	2,550,000	800,000	525,000	5,100,000	5,200,000	0	160,000	2,150,000	0	0	16,485,000
Parks and Recreation	0	0	1,490,000	0	0	500,000	250,000	150,000	0	0	2,390,000
Sheriff's Office	135,000	475,000	0	0	0	0	0	0	0	0	610,000
Subtotal, Buildings and Facilities	2,685,000	2,206,200	23,015,000	5,100,000	5,800,000	20,500,000	410,000	2,300,000	20,000,000	0	82,016,200
Capital Maintenance Programs & Recurring											
Development Services	100,000	440,000	1,010,000	100,000	390,000	1,070,000	530,000	440,000	1,100,000	460,000	5,640,000
Parks and Recreation	800,000	825,000	825,000	800,000	875,000	1,625,000	1,650,000	900,000	1,577,500	1,525,000	11,402,500
Economic Development	757,628	754,507	754,245	755,131	369,543	370,534	370,866	369,224	371,399	370,648	5,243,725
General Services	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
Sheriff's Office	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
Subtotal, Capital Maintenance Programs & Recurring	2,662,628	3,024,507	3,600,612	2,645,240	2,657,185	5,300,950	5,409,997	3,732,631	6,207,631	5,982,631	41,224,012
Computer Infrastructure, Software and Hardware											
Communications & IT	2,350,000	4,345,000	1,095,000	920,000	920,000	1,320,000	1,070,000	1,470,000	1,020,000	1,020,000	15,530,000
Finance & Mgmt Services/HR	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
Elections	425,000	0	0	0	0	0	0	0	0	0	425,000
Library	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Subtotal, Computer Infrastructure, Software and Hardware	3,825,000	4,445,000	1,195,000	985,000	995,000	1,400,000	1,150,000	1,550,000	1,100,000	1,100,000	17,745,000
Transportation											
Communications & IT	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
Parks and Recreation	250,000	0	0	0	0	0	0	0	0	0	250,000
Subtotal, Transportation	500,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,300,000
Roanoke County Public Schools											
All Schools Projects	29,007,453	102,892,494	3,168,764	3,440,255	23,677,693	3,819,325	23,103,987	23,104,012	3,100,000	23,100,000	238,413,983
Subtotal, Roanoke County Public Schools	29,007,453	102,892,494	3,168,764	3,440,255	23,677,693	3,819,325	23,103,987	23,104,012	3,100,000	23,100,000	238,413,983
Total, FY 24-33 Projects	\$39,430,081	\$112,968,201	\$31,529,376	\$12,620,495	\$33,579,878	\$31,670,275	\$30,823,984	\$31,186,643	\$31,057,631	\$30,682,631	\$385,549,195



County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program All County Projects

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Assessments and Studies											
Planning											
New Zoning Ordinance	\$150,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
Housing Study	200,000	0	0	0	0	0	0	0	0	0	200,000
East Roanoke River Greenway Feasibility Study	200,000	0	0	0	0	0	0	0	0	0	200,000
Williamson Road/Peters Creek Road Multimodal Safety Study	200,000	0	0	0	0	0	0	0	0	0	200,000
<i>Planning Total</i>	750,000	100,000	0	0	0	0	0	0	0	0	850,000
Assessments and Studies Total	\$750,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850,000
Buildings and Facilities											
Library											
Hollins Library Replacement	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
<i>Library Total</i>	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
Commonwealth's Attorney											
Commonwealth's Attorney Office Renovations	0	431,200	0	0	0	0	0	0	0	0	431,200
<i>Commonwealth's Attorney Total</i>	0	431,200	0	0	0	0	0	0	0	0	431,200
Fire and Rescue											
New Bonsack/460 Fire Station	0	0	0	0	0	0	0	0	0	0	0
Hollins Fire Station Replacement	0	0	0	0	600,000	16,000,000	0	0	0	0	16,600,000
Fire Station Improvements/Replacement/Additions	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
<i>Fire and Rescue Total</i>	0	0	5,400,000	0	600,000	20,000,000	0	0	20,000,000	0	46,000,000
General Services											
Bent Mtn & Mount Pleasant Library Renovations & Expansion	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Courthouse HVAC Replacement	500,000	800,000		5,100,000	0	0	0	0	0	0	6,400,000
Public Safety Center HVAC and UPS Replacements	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Brambleton Center HVAC Replacement	0	0	525,000	0	0	0	0	0	0	0	525,000
RCAC HVAC Replacement	0	0	0	0	5,200,000	0	0	0	0	0	5,200,000
Public Service Center Facility Replacement	0	0	0	0	0	0	0	0	0	0	0
<i>General Services Total</i>	2,550,000	800,000	525,000	5,100,000	5,200,000	0	160,000	2,150,000	0	0	16,485,000
Parks and Recreation											
Explore Park (Phase II)	0	0	750,000	0	0	0	0	0	0	0	750,000
Green Ridge Dehumidification	0	0	740,000	0	0	0	0	0	0	0	740,000
Sportsfield Lighting Program	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
<i>Parks and Recreation Total</i>	0	0	1,490,000	0	0	500,000	250,000	150,000	0	0	2,390,000

Capital Improvement Program FY 2024 – FY 2033



All County Capital Projects

All Projects (Continued)

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Buildings and Facilities (Continued)											
Sheriff's Office											
Jail Roof Replacement	135,000	475,000	0	0	0	0	0	0	0	0	610,000
<i>Sheriff's Office Total</i>	135,000	475,000	0	0	0	0	0	0	0	0	610,000
Buildings and Facilities Total	\$2,685,000	\$2,206,200	\$23,015,000	\$5,100,000	\$5,800,000	\$20,500,000	\$410,000	\$2,300,000	\$20,000,000	\$0	\$82,016,200

Capital Maintenance Programs & Recurring

Development Services											
NPDES-MS4 BMP Construction	\$100,000	\$200,000	\$500,000	\$100,000	\$150,000	\$750,000	\$100,000	\$100,000	\$750,000	\$100,000	\$2,850,000
Storm Drainage Maintenance of Effort	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
<i>Development Services Total</i>	100,000	440,000	1,010,000	100,000	390,000	1,070,000	530,000	440,000	1,100,000	460,000	5,640,000
Parks and Recreation											
Green Ridge Capital Maintenance Program	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
PRT Capital Maintenance Program	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
<i>Parks and Recreation Total</i>	800,000	825,000	825,000	800,000	875,000	1,625,000	1,650,000	900,000	1,577,500	1,525,000	11,402,500
Economic Development											
Roanoke County Broadband Authority Infrastructure	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Wood Haven Technology Park	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
<i>Economic Development Total</i>	757,628	754,507	754,245	755,131	369,543	370,534	370,866	369,224	371,399	370,648	5,243,725
General Services											
General Services Capital Maintenance Program	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
<i>General Services Total</i>	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
Sheriff's Office											
Sheriff's Office Capital Maintenance Program	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
<i>Sheriff's Office Total</i>	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
Capital Maintenance Programs & Recurring Total	\$2,662,628	\$3,024,507	\$3,600,612	\$2,645,240	\$2,657,185	\$5,300,950	\$5,409,997	\$3,732,631	\$6,207,631	\$5,982,631	\$41,224,012

Computer Infrastructure, Software and Hardware

Communications & IT											
Genesis Operations Bridge	\$220,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220,000
Radio Systems RF Sites Generator Replacement	120,000	0	0	0	0	0	0	0	0	0	120,000
Wave Critical Connect Upgrade	0	200,000	0	0	0	0	0	0	0	0	200,000
County-Wide Computer Replacement Program	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
County-Wide Cisco Phone Replacement Program	0	0	0	0	0	300,000	0	0	0	0	300,000
Email and Business Productivity Tools Replacement	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000
Enterprise GIS Maps and Apps Upgrade	400,000	300,000	0	0	0	0	0	0	0	0	700,000

Capital Improvement Program FY 2024 – FY 2033



All County Capital Projects

All Projects (Continued)

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Computer Infrastructure, Software and Hardware(Continued)											
Communications & IT											
IT Infrastructure Replacement Plan	1,200,000	650,000	650,000	650,000	650,000	750,000	800,000	1,200,000	750,000	750,000	8,050,000
911 Phone and Radio Console Upgrade	0	125,000	0	0	0	0	0	0	0	0	125,000
OTek Console Encryption Keying Upgrade	0	100,000	0	0	0	0	0	0	0	0	100,000
Roanoke Valley Radio System Hardware Upgrade	0	2,500,000	0	0	0	0	0	0	0	0	2,500,000
Rural Broadband Initiative	0	0	0	0	0	0	0	0	0	0	0
<i>CommIT Total</i>	2,350,000	4,345,000	1,095,000	920,000	920,000	1,320,000	1,070,000	1,470,000	1,020,000	1,020,000	15,530,000
Finance/Human Resources											
Global Payroll Module	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
<i>Finance/Human Resources Total</i>	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
Elections											
Voting Machine Replacement	425,000	0	0	0	0	0	0	0	0	0	425,000
<i>Elections Total</i>	425,000	0	0	0	0	0	0	0	0	0	425,000
Library											
Public Computer Replacement	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
<i>Library Total</i>	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Computer Infrastructure, Software and Hardware Total	\$3,825,000	\$4,445,000	\$1,195,000	\$985,000	\$995,000	\$1,400,000	\$1,150,000	\$1,550,000	\$1,100,000	\$1,100,000	\$17,745,000
Transportation											
Planning											
VDOT Revenue Sharing Program	\$250,000	\$300,000	\$550,000	\$450,000	\$450,000	\$650,000	\$750,000	\$500,000	\$650,000	\$500,000	\$5,050,000
Glade Creek Greenway at Vinyard Park West	0	0	0	0	0	0	0	0	0	0	0
Williamson Road Pedestrian Improvements	0	0	0	0	0	0	0	0	0	0	0
Buck Mountain/Starkey Rd Intersection	0	0	0	0	0	0	0	0	0	0	0
<i>Planning Total</i>	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
Parks and Recreation											
East Roanoke River Greenway	250,000	0	0	0	0	0	0	0	0	0	250,000
West Roanoke River Greenway	0	0	0	0	0	0	0	0	0	0	0
<i>Parks and Recreation Total</i>	250,000	0	0	0	0	0	0	0	0	0	250,000
Transportation Total	\$500,000	\$300,000	\$550,000	\$450,000	\$450,000	\$650,000	\$750,000	\$500,000	\$650,000	\$500,000	\$5,300,000
Subtotal, Roanoke County Projects	\$10,422,628	\$10,075,707	\$28,360,612	\$9,180,240	\$9,902,185	\$27,850,950	\$7,719,997	\$8,082,631	\$27,957,631	\$7,582,631	\$147,135,212

Capital Improvement Program FY 2024 – FY 2033



All County Capital Projects

All Projects (Continued)

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Roanoke County Public Schools											
Schools											
Burton Center for the Arts & Technology	27,257,453	53,864,255	0	0	0	0	0	0	0	0	\$81,121,708
Capital Maintenance Program	\$1,250,000	\$1,500,000	\$1,750,000	\$2,000,000	\$2,250,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$21,250,000
HR Payroll and Software System	500,000	0	0	0	0	0	0	0	0	0	\$500,000
WE Cundiff Elementary	0	23,764,119	0	0	0	0	0	0	0	0	\$23,764,119
Glen Cove Elementary	0	23,764,120	0	0	0	0	0	0	0	0	\$23,764,120
Northside Middle	0	0	1,418,764	1,440,255	21,427,693	1,319,325	13,537,963	0	0	0	\$39,144,000
Hidden Valley Middle	0	0	0	0	0	0	0	9,660,036	600,000	20,600,000	\$30,860,036
Glenvar Elementary	0	0	0	0	0	0	7,066,024	10,943,976	0	0	\$18,010,000
<i>Schools Total</i>	29,007,453	102,892,494	3,168,764	3,440,255	23,677,693	3,819,325	23,103,987	23,104,012	3,100,000	23,100,000	238,413,983
Total, Roanoke County Public Schools Projects	\$29,007,453	\$102,892,494	\$3,168,764	\$3,440,255	\$23,677,693	\$3,819,325	\$23,103,987	\$23,104,012	\$3,100,000	\$23,100,000	\$238,413,983
Total, FY 22-31 County & Schools Projects	\$39,430,081	\$112,968,201	\$31,529,376	\$12,620,495	\$33,579,878	\$31,670,275	\$30,823,984	\$31,186,643	\$31,057,631	\$30,682,631	\$385,549,195



County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Additional Operating Impacts

The table below provides summary information on the additional operating impacts that are associated with the projects included in the FY 2024 - FY 2033 Adopted Capital Improvement Program. Detailed information on the additional operating impacts can be found on each individual project page in the “Projects by Functional Team” section.

Additional operating impacts are defined as impacts that may increase or decrease operating costs as related to the most recently approved Operating Budget. Not all projects will have an additional operating impact, so not all projects are included in the table below. While the table below indicates that the project will have an impact on the Operating Budget (in some cases, it may save money in the Operating Budget), the decisions to include the costs in the Operating Budget have yet to be made. In some cases, additional costs associated with these projects may be offset with decreases in other parts of the Operating Budget as budget priorities change. In some cases where the additional operating impact is unknown until the final project scope is developed, the impacts are noted as “TBD”. The primary purpose of this table is to allow multi-year fiscal planning as relates to the implementation of capital projects included in this document.

Functional Team/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24-FY 33
Buildings and Facilities											
Hollins Branch Library Replacement	\$0	\$0	\$0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
New Bonsack/460 Fire Station	\$0	\$1,443,306	\$1,486,605	\$1,531,203	\$1,577,139	\$1,624,454	\$1,673,187	\$1,723,383	\$1,775,084	\$1,828,337	\$14,662,699
Hollins Fire Station Replacement	\$0	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD	TBD	TBD
Bent Mtn & Mount Pleasant Library Renovations & Expansion	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD
Courthouse HVAC Replacement	\$0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Sports Field Lighting Replacement	\$0	\$0	\$0	\$0	\$0	\$1,000	\$1,030	\$1,061	\$1,093	\$1,126	\$5,310
CMP & Recurring											
Roanoke County Broadband Authority Infrastructure	\$100,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	\$100,000

Capital Improvement Program FY 2024 – FY 2033



Additional Operating Impacts

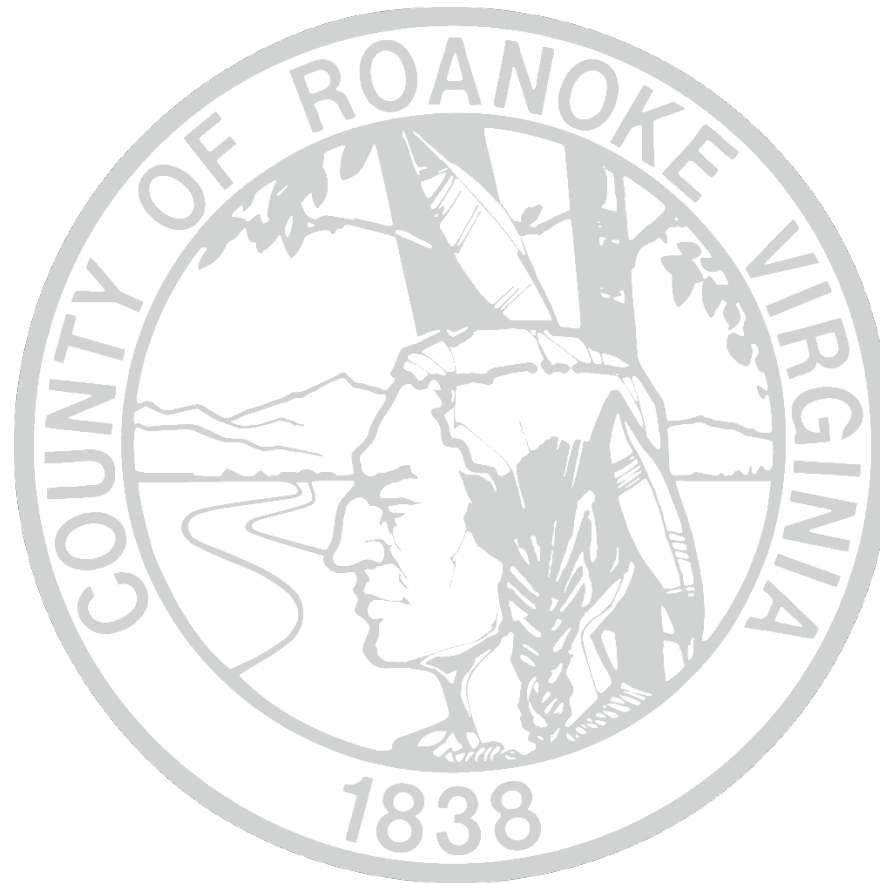
Additional Operating Impacts (continued)

Functional Team/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24-FY 33
Computer Infrastructure, Software and Hardware											
Email and Business Productivity Tools Replacement	\$0	\$553,000	\$569,590	\$586,678	\$604,278	\$622,406	\$641,078	\$660,310	\$680,119	\$700,523	\$5,617,982
Global Payroll Module	\$90,177	\$92,882	\$95,668	\$98,538	\$101,494	\$104,539	\$107,675	\$110,905	\$114,232	\$117,659	\$1,033,769
Voting Machine Replacement	\$0	\$18,100	\$18,643	\$19,202	\$19,778	\$20,371	\$20,982	\$21,611	\$22,259	\$22,927	\$183,873
911 Phone and Radio Console Upgrade	\$0	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$6,000	\$54,000
Roanoke Valley Radio System Hardware Upgrade	\$0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Transportation											
East Roanoke River Greenway	\$15,000	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,001	\$19,571	\$171,958
West Roanoke River Greenway	\$15,000	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,001	\$19,571	\$171,958





Assessments and Studies





County of Roanoke, Virginia FY 2024 – FY 2033 Proposed Capital Improvement Program Assessments and Studies Summary

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Assessments and Studies											
Planning											
New Zoning Ordinance	\$150,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$250,000
Housing Study	200,000	0	0	0	0	0	0	0	0	0	200,000
East Roanoke River Greenway Feasibility Study	200,000	0	0	0	0	0	0	0	0	0	200,000
Williamson Road/Peters Creek Road Multimodal Safety Study	200,000	0	0	0	0	0	0	0	0	0	200,000
<i>Planning Total</i>	750,000	100,000	0	0	0	0	0	0	0	0	850,000
Assessments and Studies Total	\$750,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$850,000



New Zoning Ordinance

Department: Planning

Location: Countywide

Magisterial District: Countywide

Category: Replacement

Est. Useful Life: 20 years

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	300,000	50,000	150,000	100,000	0	0	0	0	0	0	0	0	250,000
Funding Sources													
Roanoke County - Unrestricted Cash	300,000	50,000	150,000	100,000	0	0	0	0	0	0	0	0	250,000
Total Funding Sources	300,000	50,000	150,000	100,000	0	0	0	0	0	0	0	0	250,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

This project involves the development of a new Zoning Ordinance for Roanoke County as well as a comprehensive rezoning to implement the Roanoke County 200 Plan.



New Zoning Ordinance (continued)

Project Description and Justification:

As Roanoke County develops and adopts its new comprehensive plan – Roanoke County 200 Plan – staff will move towards implementing the Plan, which will include adopting a new Zoning Ordinance and comprehensively rezoning the County. After the Roanoke County 200 Plan is adopted, consultants will be hired to assist staff in the development of the new ordinance. After the draft ordinance has been developed (18-24 months), the process of comprehensively rezoning the County would then take place (6 – 12 months).

Roanoke County's current Zoning Ordinance was adopted in 1992, which included a comprehensive rezoning of the County. Over the last 29 years, the Zoning Ordinance has been amended on numerous occasions. A major overhaul of the ordinance is needed. The new ordinance and comprehensive rezoning will help implement the Roanoke County 200 Plan and provide economic development opportunities by providing additional commercial and industrial zoned land. Currently, commercial and industrial zoned land make up between 4 to 5 percent of the County.

Additional Operating Impacts:

There are no additional operating impacts identified at this time

Conformance with Plans, Policies, and Legal Obligations:

Developing a new zoning ordinance and comprehensively rezoning the County would be in conformance with the newly adopted Roanoke County 200 Plan (Roanoke County's Comprehensive Plan).

Project Highlights and Key Milestones:

- Late 2022/Early 2023 – Roanoke County 200 Plan anticipated to be adopted by Board of Supervisors
- Spring 2023 – Hire consultant to assist staff with developing New Zoning Ordinance

Community Strategic Plan

Promote Neighborhood Connections

Position Roanoke County for Future Economic Growth

Plan for Mixed-Use Development & Redevelopment Opportunities

Business-Friendly Development



Housing Study

Department: Planning

Location: Countywide

Magisterial District: Countywide

Category: New Facilities

Est. Useful Life: 20 years

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Total Funding Sources	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Develop a Housing Plan for Roanoke County to enhance housing alternatives across the County. A Roanoke County Housing Plan is included as a Strategic Priority in the Board of Supervisors' Strategic Planning Three-Year Work Plan.



Housing Study (continued)

Project Description and Justification:

The Roanoke County Housing Plan will build upon the 2021 RKG Associates, Inc. Housing Study and will include, at a minimum:

- Residential Market Study for the County to identify issues and needed housing alternatives now and in the future; and
- Recommendations to encourage development of these needed housing alternatives.

Additional Operating Impacts:

There are no additional operating impacts identified at this time

Conformance with Plans, Policies, and Legal Obligations:

This Strategic Priority is included in the County of Roanoke Strategic Planning document. Housing is also a priority in the 419 Town Center Plan, the Hollins Center Plan, the Oak Grove Center Plan and the 2005 Roanoke County Comprehensive Plan.

Project Highlights and Key Milestones:

- 2021: A Countywide Housing Study was completed by RKG Associates, Inc. as part of a larger housing study undertaken by the Roanoke Valley-Alleghany Regional Commission.
- 2022: Roanoke County Board of Supervisors included the development of a County-specific Housing Plan as a Strategic Priority in the County of Roanoke Strategic Planning Three-Year Work Plan.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Plan for Mixed-Use Development & Redevelopment Opportunities



East Roanoke River Greenway Feasibility Study

Department: Planning

Category: Replacement

Location: Roanoke River vicinity between the City of Roanoke and the Blue Ridge Parkway

Est. Useful Life: 30 years

Magisterial District: Vinton Magisterial District

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Total Funding Sources	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The East Roanoke River Greenway Feasibility Study will consider alternative greenway alignments proposed by the community at a June 2022 community meeting, as well as alignments included in the 2003 East Roanoke River Greenway Master Plan.



East Roanoke River Greenway Feasibility Study (continued)

Project Description and Justification:

Completing the Roanoke River Greenway is not only a Roanoke County priority, but is also a high regional priority. Previous efforts to design, obtain right-of-way and construct the Roanoke River Greenway between the City of Roanoke and the Blue Ridge Parkway have been unsuccessful due to property owner opposition. The Virginia Department of Transportation (VDOT) offered to assist Roanoke County with this project in early 2022 in preparation for a SMART SCALE Round 5 application. A community meeting was held in June 2022 to review the new conceptual greenway alignment. Several property owners expressed their opposition to the greenway on their property and proposed alternative routes instead. A survey conducted as part of the outreach also included ideas for different greenway routes. The East Roanoke River Greenway Feasibility Study will consider these potential alternative routes and will also review routes identified in the 2003 East Roanoke River Greenway Master Plan. The study will include public engagement to help determine a preferred alignment. The chosen alignment will be conceptually designed with an estimate for use in grant applications.

Additional Operating Impacts:

There are no additional operating impacts identified at this time

Conformance with Plans, Policies, and Legal Obligations:

The proposed study is consistent with the 2018 Roanoke Valley Greenway Plan, the Explore Park Adventure Plan, the 2008 Mount Pleasant Community Plan and the 2005 Roanoke County Community Plan.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Business-Friendly Development

Promote Neighborhood Connections

Plan for Mixed-Use Development & Redevelopment Opportunities

Project Highlights and Key Milestones:

- Spring 2022: VDOT offered conceptual design services to prepare for a SMART SCALE Round 5 application for a segment of the greenway between the City of Roanoke and the VRFA property located at 3204 Highland Road where another segment of the greenway will start construction in November 2022.
- June 2022: Community meeting was held to review the new conceptual route; impacted property owners and survey respondents proposed alternative greenway routes.
- August 2022: Staff submitted a SMART SCALE Round 5 application for a small portion of the studied corridor, named “East Roanoke River Greenway Gap, Phase 2”



Williamson Road/Peters Creek Road Multimodal Safety Study

Department: Planning

Category: New Facilities

Location: Portions of Williamson Road and Peters Creek Road

Est. Useful Life: 30 years

Magisterial District: Hollins Magisterial District

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Funding Sources													
Roanoke County - Unrestricted Cash	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Total Funding Sources	200,000	0	200,000	0	0	0	0	0	0	0	0	0	200,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Conduct a Multimodal Safety Study for portions of Williamson Road and Peters Creek Road to develop at least one project to submit for grant funding.



Williamson Road/Peters Creek Road Multimodal Safety Study (continued)

Project Description and Justification:

Public engagement conducted as part of community planning over the last 14 years shows community support for improvements on Williamson Road and Peters Creek Road. Continuing congestion, high profile crashes and significant development planned for this area support the need for a multimodal safety study along portions of these roadways in the Hollins area. The proposed Multimodal Safety Study would include community engagement and the following components: 1) Analysis of crash history in the study area to determine potential safety improvements with a particular focus on the Williamson/Peters Creek, Williamson/Plantation and Peters Creek/Airport signalized intersections; 2) Prioritized locations for expansion of pedestrian and bicycle accommodations, to include pedestrian signals and crosswalks; and 3) At least one project conceptually designed with an estimate sufficient to submit for grant funding.

Additional Operating Impacts:

There are no additional operating impacts identified at this time

Conformance with Plans, Policies, and Legal Obligations:

The proposed study is consistent with the 2020 Hollins Center Plan, the 2008 Hollins Area Plan and community engagement efforts conducted as part of the Roanoke County 200 Plan.

Project Highlights and Key Milestones:

- 2012: Plantation Road Corridor Study completed for VDOT which included analysis of and recommendations for the Williamson/Plantation signalized intersection.
- 2020: Hollins Center Plan adopted recommending intersection improvements, pedestrian accommodations, bicycle accommodations and a transportation corridor study for Williamson Road.
- 2021: Sidewalk constructed along Williamson Road between Peters Creek Road and North Roanoke Assisted Living.
- 2022: Roanoke County 200 Plan meetings indicated strong support for studying improvements to Williamson Road and Peters Creek Road.
- 2022: Location for a new Career and Technical Education school on Peters Creek Road at Alpine Road.

Community Strategic Plan

Connect Roanoke County to the World

Promote Neighborhood Connections

Support Improvements to the Regional Transportation Network

Encourage a Multi-Modal Transportation Network





Buildings and Facilities





County of Roanoke, Virginia FY 2024 – FY 2033 Proposed Capital Improvement Program Buildings and Facilities Summary

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Buildings and Facilities											
Library											
Hollins Library Replacement	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
<i>Library Total</i>	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
Commonwealth's Attorney											
Commonwealth's Attorney Office Renovations	0	431,200	0	0	0	0	0	0	0	0	431,200
<i>Commonwealth's Attorney Total</i>	0	431,200	0	0	0	0	0	0	0	0	431,200
Fire and Rescue											
New Bonsack/460 Fire Station	0	0	0	0	0	0	0	0	0	0	0
Hollins Fire Station Replacement	0	0	0	0	600,000	16,000,000	0	0	0	0	16,600,000
Fire Station Improvements/Replacement/Additions	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
<i>Fire and Rescue Total</i>	0	0	5,400,000	0	600,000	20,000,000	0	0	20,000,000	0	46,000,000
General Services											
Bent Mtn & Mount Pleasant Library Renovations & Expansion	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Courthouse HVAC Replacement	500,000	800,000		5,100,000	0	0	0	0	0	0	6,400,000
Public Safety Center HVAC and UPS Replacements	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Brambleton Center HVAC Replacement	0	0	525,000	0	0	0	0	0	0	0	525,000
RCAC HVAC Replacement	0	0	0	0	5,200,000	0	0	0	0	0	5,200,000
Public Service Center Facility Replacement	0	0	0	0	0	0	0	0	0	0	0
<i>General Services Total</i>	2,550,000	800,000	525,000	5,100,000	5,200,000	0	160,000	2,150,000	0	0	16,485,000
Parks and Recreation											
Explore Park (Phase II)	0	0	750,000	0	0	0	0	0	0	0	750,000
Green Ridge Dehumidification	0	0	740,000	0	0	0	0	0	0	0	740,000
Sportsfield Lighting Program	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
<i>Parks and Recreation Total</i>	0	0	1,490,000	0	0	500,000	250,000	150,000	0	0	2,390,000
Sheriff's Office											
Jail Roof Replacement	135,000	475,000	0	0	0	0	0	0	0	0	610,000
<i>Sheriff's Office Total</i>	135,000	475,000	0	0	0	0	0	0	0	0	610,000
Buildings and Facilities Total	\$2,685,000	\$2,206,200	\$23,015,000	\$5,100,000	\$5,800,000	\$20,500,000	\$410,000	\$2,300,000	\$20,000,000	\$0	\$82,016,200



Hollins Library Replacement

Department: Library

Location: 6624 Peters Creek Road, Hollins, VA 24019

Magisterial District: Hollins

Category: Replacement

Est. Useful Life: 30 years

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	16,300,000	200,000	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
Funding Sources													
Lease/Revenue Bonds	15,600,000	0	0	0	15,600,000	0	0	0	0	0	0	0	15,600,000
Roanoke County - Unrestricted Cash	700,000	200,000	0	500,000	0	0	0	0	0	0	0	0	500,000
Total Funding Sources	16,300,000	200,000	0	500,000	15,600,000	0	0	0	0	0	0	0	16,100,000
Operating Impacts			0	0	0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD



Project Summary:

The Hollins Library Replacement Project, with planning and initial design beginning in FY 2023 and construction funding in FY 2026, is slated to replace the existing Hollins Library with a new 16,000 square foot, single level facility on a new site that is consistent with a service model already implemented at the South County, Glenvar, and Vinton locations. The new Hollins Library will be an inviting public space, less architectural in nature easing long term maintenance issues, focus on sight lines, and provide maker spaces and technology focus areas. The total project cost is estimated at \$16.3 million.



Hollins Library Replacement (continued)

Project Description and Justification:

Hollins Library is the only major branch in the Roanoke County library system that has not been replaced. An expansion 28 years ago retained the original building, but melding the old and new square footage was not completely successful. Much of the layout and infrastructure hamper service delivery. The replacement project proposes building a new technologically advanced library that may include enhanced security, a larger parking area, up-to-date electronic resources, 50+ public work stations, an improved children's area, scaled technology for children, a separate teen/tween room, meeting spaces, study rooms, a creativity workshop, and well-lit browsing areas.

After 50 years of heavy use, Hollins Library remains one of the busiest libraries in the Roanoke Valley and the western Virginia region. It is a mainstay of the Library system, averaging almost 700 visitors per day pre-pandemic. This branch supports educational and informational needs across a wide spectrum.

Additional Operating Impacts:

The planned replacement to the facility may increase citizen usage significantly. Higher demand may raise utility costs and staff costs. With increased usage, additional funds may be generated by rentals and events. Additional operating funding would not be required until completion of construction.

Conformance with Plans, Policies, and Legal Obligations:

Recommendations from the Library Regional Comprehensive Study (2004-05; 5:4-7) identified Hollins Library as an ideal "Full-Service Center Library."

Project Highlights and Key Milestones:

- The Hollins Library opened in 1971 and was expanded and remodeled in 1993.
- Through the CIP process and in various discussions, alternative solutions have been proposed, including the possibility of relocating the library to at least a 4+/- acre site.
- Phase I, funded by \$0.2 million in unrestricted cash in FY 2023 and \$0.5 million in FY 2025, will provide resources for potential land acquisition, Architectural and Engineering services, and future construction.
- Phase II project costs are funded by an additional \$15.6 million in bonds in FY 2026.

Community Strategic Plan

Promote Lifelong Learning

Position Roanoke County for Future Economic Growth

"K to Gray" Continuum of Educational Resources

Workforce Development/ Technical Education



Commonwealth's Attorney Renovations Project

Department: Commonwealth Attorney

Category: Replacement

Location: 305 E. Main Street #2, Salem, VA

Est. Useful Life: 8-10 Years

Magisterial District: City of Salem

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	431,200	0	0	431,200	0	0	0	0	0	0	0	0	431,200
Funding Sources													
Roanoke County - Unrestricted Cash	431,200	0	0	431,200	0	0	0	0	0	0	0	0	431,200
Total Funding Sources	431,200	0	0	431,200	0	0	0	0	0	0	0	0	431,200
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Commonwealth Attorney's office renovations are requested to accommodate the need for additional space for staff. The proposed renovations will occur within the existing Commonwealth Attorney's office footprint while creating a more efficient office layout.



Commonwealth's Attorney Renovations Project (continued)

Project Description and Justification:

The Commonwealth Attorney's office must provide accommodations for an Assistant Prosecutor and an administrative legal support person. These requested accommodations can be made within the existing office footprint by providing renovations that will make the office area more functional and efficient. The proposed work includes the relocation of existing offices, toilets, break room, and IT closet while adding offices for the Assistant Prosecutor and administrative legal support person. The work does not include a complete renovation to the suite; however, some carpet and ceiling tiles will need to be replaced as part of the project. The existing HVAC system will be retrofitted to accommodate the new office layout. Renovation work associated with this project is planned to occur in the evening and on weekends to minimize disruption to the courts and Commonwealth Attorney's office personnel.

Design and construction for the proposed renovations are planned for FY 2025, contingent upon at least one position being approved by the State and County; otherwise, this project will be deferred until this staff funding occurs.

Additional Operating Impacts:

There are no additional operating impacts identified at this time.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the Community Strategic Plan initiative to Ensure Citizen Safety, specifically the major component of Public Safety Facilities & Equipment.

Project Highlights and Key Milestones:

- In FY 2020, minor interior renovations were performed to create an additional office within the existing office suite.
- In FY 2021, security improvements and interior finishes to the Commonwealth Attorney's office were completed using CARES Act funds.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



New Bonsack/460 Fire Station

Department: Fire and Rescue

Location: Bonsack/Route 460 Area

Magisterial District: Hollins Magisterial District

Category: New Facilities

Est. Useful Life: 30 Years

Project Status: Active

Financial Summary

		Through											Total
	Total Cost	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33
Total Project Cost	10,325,000	10,325,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Lease/Revenue Bonds	6,825,000	6,825,000	0	0	0	0	0	0	0	0	0	0	0
Roanoke County -													
Unrestricted Cash	3,500,000	3,500,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	10,325,000	10,325,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	1,443,306	1,486,605	1,531,203	1,577,139	1,624,454	1,673,187	1,723,383	1,775,084	1,828,337	14,662,699



Project Summary:

The new Bonsack/460 Fire Station was funded for \$10.325 million in FY 2022 and FY 2023. This station would represent a new and enhanced service as the twelfth station, which would reduce reliance on other locality responses for emergencies. This station would replace services provided by the Read Mountain Fire Station, now owned by Botetourt County, and would reduce the demand on the City of Roanoke's Station #14. The station will be located in the Bonsack area.



New Bonsack/460 Fire Station (continued)

Project Description and Justification:

The new Bonsack/460 Fire Station was funded for \$10.325 million in FY 2022 and FY 2023. In FY 2022, \$1.0 million was funded with unrestricted cash for land acquisition and initial architectural and engineering work. Bond funding, in the amount of \$6.825 million and cash funding in the amount of \$2.5 million, was funded in FY 2023 to complete construction of the facility.

Additional Operating Impacts:

The addition of the new station will require additional staffing and equipment once the station becomes operational in FY 2025. Additional operating impacts are anticipated to include annual recurring salary/benefits for the additional staff, fleet and equipment purchases including a new ambulance and fire engine, and other ongoing maintenance costs. The recurring costs are estimated at \$14.62 million over the FY24- FY33 CIP.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the Community Strategic Plan initiative to Ensure Citizen Safety, specifically the major component of Public Safety Facilities & Equipment.

Project Highlights and Key Milestones:

- Will represent a new, enhanced service as Roanoke County's 12th station.
- Expected to improve response times for residents in the Bonsack area of Roanoke County.
- Reduces reliance on other localities who serve the area.
- Site availability challenging due to the need for signalized access and limited appropriate parcels in the corridor / cost.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Hollins Fire Station Replacement

Department: Fire and Rescue

Category: New Facilities

Location: Hollins

Est. Useful Life: 30 Years

Magisterial District: Hollins Magisterial District

Project Status: Planned

Financial Summary

		Through											Total
	Total Cost	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33
Total Project Cost	16,600,000	0	0	0	0	0	600,000	16,000,000	0	0	0	0	250,000
Funding Sources													
Lease/Revenue Bonds	16,000,000	0	0	0	0	0	0	16,000,000	0	0	0	0	16,000,000
Roanoke County - Unrestricted Cash	600,000	0	0	0	0	0	600,000	0	0	0	0	0	600,000
Total Funding Sources	16,600,000	0	0	0	0	0	600,000	16,000,000	0	0	0	0	16,600,000
Operating Impacts			0	0	0	0	0	0	TBD	TBD	TBD	TBD	TBD



Project Summary:

In FY 2028 and FY 2029, \$16.6 million in funding is proposed to replace the current Hollins Fire Station. By replacing this station with two smaller stations, response times can be improved to more adequately respond to emergencies. Further evaluation regarding site selection will be completed closer to the project date, but general locations being considered include the intersection of Plantation and Williamson Roads in the Hollins District and within the Hanging Rock area in the Catawba District. These locations are currently considered ideal due to their proximity to Interstate 81 and other main roadways.



Hollins Fire Station Replacement (continued)

Project Description and Justification:

In FY 2028 and FY 2029, \$16.6 million in funding is proposed to replace the current Hollins Fire Station. \$600,000 of unrestricted cash is proposed in FY 2028 and bond funding of \$16.0 million is planned for FY 2029 to complete construction of the facility.

Converting the Hollins Fire Station to two smaller stations would allow the Masons Cove Station to operate with a new 24/7 Advanced Life Support Ambulance Crew as well as volunteer fire personnel.

Additional Operating Impacts:

Additional operating impacts are anticipated to include annual recurring salary and benefits for the addition of the 24/7 Advanced Life Support Ambulance Crew, fleet and equipment purchases including a new ambulance with cardiac monitor, and other ongoing maintenance costs.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the Community Strategic Plan initiative to Ensure Citizen Safety, specifically the major component of Public Safety Facilities & Equipment.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment

Project Highlights and Key Milestones:

- Two new stations are planned to improve service in Hollins and Catawba areas of Roanoke County.
- Current locations under consideration:
 - Intersection of Plantation Road and Williamson Road.
 - Hanging Rock area near Interstate 81.
- Movement of current personnel and vehicles to the two new stations from both Masons Cove and the current Hollins station.
- Current Masons Cove Station will remain open with a new 24/7 Advanced Life Support Ambulance crew and Volunteer Fire personnel.



Fire Station Improvements/Replacement/Additions

Department: Fire and Rescue

Category: New Facilities

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	29,400,000	0	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
<u>Funding Sources</u>													
Lease/Revenue Bonds	29,400,000	0	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
Total Funding Sources	29,400,000	0	0	0	5,400,000	0	0	4,000,000	0	0	20,000,000	0	29,400,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Fire Station Improvements/Replacement/Additions project is planned for future bond funding to bring Roanoke County Fire Stations to current industry standards. Projects being planned are enclosing bunk rooms for gender separation, decontamination rooms for every fire station, and an additional fire station in the western portion of Roanoke County. The County is also completing a Fire Assessment that could provide additional project needs to optimize services for citizens.



Fire Station Improvements/Replacement/Additions (continued)

Project Description and Justification:

The industry standard for fire-house sleeping quarters has transitioned from open rooms where the entire crew sleeps, to smaller, individual bunk rooms for each firefighter to sleep. An additional benefit of private sleeping quarters is allowing personnel to receive higher-quality sleep, as rooms can be customizable and climate-controlled. This allows for gender separation, infectious disease control, and helps to assist with sleep deprivation for individuals.

Many studies have recently cited the prevalence of cancer in firefighters relating to toxic materials and chemicals that are being used in modern construction materials. A way to help prevent the spread of these carcinogens is to have decontamination rooms in fire stations. These are separate rooms that allow crews to decontaminate their personal protective equipment (PPE), as well as their station clothes, to prevent the spreading of carcinogens from their gear and clothes to other areas of station.

The Fort Lewis Fire station in West County is the most isolated fire station and takes the longest for a next-due fire truck or ambulance to reach when assistance is needed. With the growth of the Richfield retirement complex, the Western Virginia Regional Jail, and the growth of the industrial parks in West County, the call volume is increasing and causing the Masons Cove fire station to respond to the Fort Lewis area at an increasing rate.

Additional Operating Impacts:

No additional operating impacts are known at this time.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the Community Strategic Plan initiative to Ensure Citizen Safety, specifically the major component of Public Safety Facilities & Equipment.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment

Project Highlights and Key Milestones:

- Fire Assessment to be completed in FY 2024.
- Updates to Roanoke County Fire Stations will help bring fire facilities to current industry standards.



Bent Mountain & Mount Pleasant Library Renovations & Expansion

Department: General Services - Building Maintenance

Category: Replacement

Location: 2918 Jae Valley Road and 10148 Tinsley Lane, Roanoke, Virginia

Est. Useful Life: 25-30 years

Magisterial District: Vinton and Windsor Hills

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	2,483,579	173,579	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Funding Sources													
Private Capital Contributions	10,000	10,000	0	0	0	0	0	0	0	0	0	0	0
Roanoke County - Unrestricted Cash	2,473,579	163,579	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Total Funding Sources	2,483,579	173,579	0	0	0	0	0	0	160,000	2,150,000	0	0	2,310,000
Operating Impacts			0	0	0	0	0	0	0	0	TBD	TBD	TBD



Project Summary:

The Bent Mountain and Mount Pleasant Library Renovations & Expansion project provides further exterior aesthetic improvements to the Mount Pleasant Library and utilizes the adjacent vacant garage as additional programming and civic meeting space and will also address needs in future years at both the Bent Mountain and Mount Pleasant Libraries including various system upgrades.



Mount Pleasant Library Renovation (continued)

Project Description and Justification:

The proposed Mount Pleasant Library project provides long-term aesthetic improvements to the exterior facades of the existing library and vacant garage space to include new fenestration, architectural veneers, covered entries, and roof replacements.

Interior improvements include an evening vestibule for civic meetings, architectural interior finishes, and furniture in the garage area to supplement the ongoing library renovations, new accessible toilet facilities, audio-visual equipment, and chair/table storage.

Site improvements include accessible entrances, pedestrian pathways, illuminated paved parking lot, furnished patio area, and landscaped areas.

Design for the above improvements is planned for FY 2024 with construction beginning in FY 2025. These renovations will provide an attractive, useful, and functional library with a civic meeting space for the citizens of the Mount Pleasant community.

Additional improvements for the Mount Pleasant and Bent Mountain Libraries are planned in FY 2030 and FY 2031.

Additional Operating Impacts:

There are no additional operating cost impacts for this project. Replacement systems will continue to be maintained by General Services, and replacement windows, flooring, and furnishings will be selected to best provide for long term functionality and cost benefit.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets is necessary to maximize the potential of taxpayer funded buildings and facilities. The 2019 Facilities Condition Assessment includes multiple deficiencies that are also priorities of the project.

Community Strategic Plan

Promote Lifelong Learning

Position Roanoke County for Future Economic Growth

"K to Gray" Continuum of Educational Resources

Infrastructure & Site Development

Project Highlights and Key Milestones:

- Mount Pleasant Library opened in 2009 under lease agreement.
- In 2011, Roanoke County purchased the cinderblock building.
- Renovations were initially planned to address needs in the library building, including HVAC replacement, window replacement, interior painting, floor coverings, and sanitary sewer connection.
- The Bent Mountain Library is housed in the Bent Mountain Community Center which received improvements through a prior capital project.



Courthouse HVAC Replacement

Department: General Services/Building Maintenance

Category: Replacement

Location: 305 East Main Street, Salem, VA 24153

Est. Useful Life: 20-25 Years

Magisterial District: City of Salem

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	6,400,000	0	500,000	800,000	0	5,100,000	0	0	0	0	0	0	6,400,000
<u>Funding Sources</u>													
Roanoke County -													
Unrestricted Cash	6,400,000	0	500,000	800,000	0	5,100,000	0	0	0	0	0	0	6,400,000
Total Funding Sources	6,400,000	0	500,000	800,000	0	5,100,000	0	0	0	0	0	0	6,400,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Courthouse HVAC Replacement project is planned to replace major HVAC components that are original to the building, which have exceeded the end of their useful life. This project will replace obsolete systems and incorporate suggested component replacements identified in the FY 2022 Mechanical Systems Assessment. \$500,000 is planned for FY 2024 to replace the boilers, \$800,000 is planned for FY 2025 to replace the chillers and \$5.1 million is planned for FY 2027 to replace the remaining components of the HVAC system. The 2019 Facilities Condition Assessment identified the needs proposed in this project as deficiencies with equipment that is well past service life expectancy.



Courthouse HVAC Replacement (continued)

Project Description and Justification:

Heating for the Courthouse is provided by two firetube steam boilers. These boilers are original to the 71,530 square foot facility, which was completed in 1982. They have exceeded their life expectancy by over 10 years. In addition, recurring maintenance and obsolescence issues are increasing. The Courthouse cooling is provided by two 100 ton reciprocating water cooled liquid chillers and cooling tower that are also original to the facility.

This project will incorporate initial engineering analysis to identify the best type of replacement components to replace the current obsolete system. Detailed design and replacement will occur following analysis.

Additional Operating Impacts:

Recurring energy utilization should decrease with the engineered replacement of these systems. The estimated total impact is undetermined at this time pending initial engineering work and the fluctuations in energy unit costs.

Conformance with Plans, Policies, and Legal Obligations:

Heating, cooling and ventilation for the Courthouse is necessary for the continuity of operations for a significant facility. The 2019 Facilities Condition Assessment identified the needs proposed in this project as deficiencies with equipment that is well past service life expectancy.

Project Highlights and Key Milestones:

- Staff submitted CIP requests in both FY 2019 and FY 2020 for replacement of the chillers and cooling tower.
- The 2019 Facilities Condition Assessment indicates that these are deficiencies to be addressed.
- In FY 2022, a Mechanical Systems Assessment was completed that indicates deficiencies in the existing mechanical systems, provides recommendations for replacement and provides cost estimates for each recommended replacement system.
- In FY 2023, it was determined during a bi-annual inspection that the boiler housing is within one to two years of complete deterioration.

Organizational Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Public Safety Center HVAC and UPS Replacements

Department: General Services/Building Maintenance

Category: Replacement

Location: 5925 Cove Rd, Roanoke, VA 24019

Est. Useful Life: 20-25 Years

Magisterial District: Catawba Magesterial District

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	2,050,000	0	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Funding Sources													
Roanoke County - Unrestricted Cash	2,050,000	0	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Total Funding Sources	2,050,000	0	2,050,000	0	0	0	0	0	0	0	0	0	2,050,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Public Safety Center HVAC rooftop unit replacements are planned for an in-kind replacement of the existing units. Recent equipment failure and long lead times on receiving parts have been responsible for significant disruptions to the facility and personnel. The Uninterrupted Power Supply (UPS) system is at the end of its useful life and needs to be replaced with an in-kind system. Designs and replacements are planned for FY 2024.



Public Safety Center HVAC and UPS Replacements (continued)

Project Description and Justification:

The Public Safety Center needs the replacement of the HVAC rooftop units and UPS System, which are planned to be replaced with in-kind systems. Although the 2019 Facilities Condition Assessment did not identify these systems to have deficiencies, the number of system failures and length of repair times due to the obsolete system components have proven this project to be necessary for a 24/7 public safety facility.

This project is expected to provide the facility with continuous heating and cooling and an uninterrupted power supply for the 911 Center.

Additional Operating Impacts:

Recurring contractor costs for ongoing repairs to the existing HVAC systems and the 911 Center critical power backup for the UPS replacement.

Conformance with Plans, Policies, and Legal Obligations:

The HVAC rooftop unit replacements are integral for the occupancy of the Public Safety Center staff. The uninterrupted power supply must be fully functional and operational to help ensure citizen safety. The 2019 Facilities Condition Assessment did not identify deficiencies in the existing HVAC rooftop units or UPS system.

Project Highlights and Key Milestones:

- The 2019 Facilities Condition Assessment did not identify deficiencies in the HVAC rooftop units or the UPS system.
- Recurring maintenance requests, HVAC unit failures, and parts obsolescence.
- The UPS system is at the end of its useful life.

Organizational Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Brambleton Center HVAC Replacement

Department: General Services/Building Maintenance

Category: Replacement

Location: 3738 Brambleton Ave, Roanoke, VA

Est. Useful Life: 15-20 Years

Magisterial District: Cave Spring Magisterial District

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	525,000	0	0	0	525,000	0	0	0	0	0	0	0	525,000
Funding Sources													
Roanoke County - Unrestricted Cash	525,000	0	0	0	525,000	0	0	0	0	0	0	0	525,000
Total Funding Sources	525,000	0	0	0	525,000	0	0	0	0	0	0	0	525,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Brambleton Center HVAC Replacement replaces HVAC system components that were installed during the 1980's renovation and have exceeded their useful life expectancy. The 2019 Facilities Condition Assessment identified these system deficiencies.



Brambleton Center HVAC Replacement (continued)

Project Description and Justification:

The Brambleton Center HVAC Replacement replaces the condensing unit, air handling unit, variable frequency drive, and includes a hot water heating coil to serve the Parks, Recreation, and Tourism offices. New Direct Digital Controls (DDC) will replace pneumatic controls throughout the facility. These HVAC components were installed during the 1980's renovation and have exceeded their useful life expectancy.

Additional Operating Impacts:

Recurring energy utilization should decrease with the engineered replacement of this system. The estimated total impact is undetermined at this time, pending initial engineering work and the fluctuations in energy unit costs.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets are necessary to maximize the potential of taxpayer-funded buildings and facilities and adhere to the 2019 Facility Condition Assessment Study findings.

Project Highlights and Key Milestones:

- The 2019 Facility Condition Assessment identified these systems deficiencies.
- Recurring operational, functional, and obsolescence issues.
- CARES Act funding was used in FY 2020 to replace the gym's air rotation unit.
- Capital Maintenance Program funding was used in FY 2022 for the facility's boiler replacement.

Organizational Strategic Plan

Responsive Service Delivery

Environmental Stewardship



Roanoke County Administration Center HVAC Replacement

Department: General Services/Building Maintenance

Category: Replacement

Location: 5204 Bernard Drive, Roanoke, VA 24018

Est. Useful Life: 10-15 Years

Magisterial District: Cave Spring Magisterial District

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	5,200,000	0	0	0	0	0	5,200,000	0	0	0	0	0	5,200,000
Funding Sources													
Roanoke County - Unrestricted Cash	5,200,000	0	0	0	0	0	5,200,000	0	0	0	0	0	5,200,000
Total Funding Sources	5,200,000	0	0	0	0	0	5,200,000	0	0	0	0	0	5,200,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Roanoke County Administration Center HVAC Replacement replaces major HVAC components, improves systems for large meeting spaces with variable occupancy loads, and improves control over occupied spaces' temperatures. Many of the HVAC components are original to the approximately 61,380 square foot facility, constructed in 1981. The 2019 Facilities Condition Assessment recommended that energy and system loads be analyzed to ascertain a course of action. This suggested analysis was included in the 2017 Assessment and subsequently analyzed in FY 2022 and updated in FY 2023 to include revised cost estimates.



Roanoke County Administration Center HVAC Replacement (continued)

Project Description and Justification:

Heating for the Administration Center is produced by a gas-fired boiler and is distributed by small zone pumps to a system of convectors or radiators which have reached the end of their service life. Cooling is provided by an air-cooled chiller installed in 2018 and is in excellent condition. Air handling units deliver cooling and ventilation to zones as required. The pneumatic control system is obsolete, difficult to maintain, and is a primary source of energy waste.

The scope of work includes replacing the boiler and pump package, add branch lines for new VAV boxes, refurbishing the air handler units, providing new fresh air dampers, the replacement of the pneumatic controls with digital controls. Variable Air Volume (VAV) boxes with reheat coils will be replaced and added throughout the building. This project will replace all VAV boxes in the 3rd floor and 4th floor training rooms and Board room with hot water reheat VAVs to control humidity.

As these changes are implemented, and with the replacement of the boiler and recent replacement of the chiller, the central components of the systems become modernized, and minimum service life of ten years is achieved. It is also noted that the improvements can be utilized with future building renovations.

Additional Operating Impacts:

Recurring energy consumption should decrease with the replacement of the main components of the antiquated HVAC systems and pneumatic controls. An estimated total cost impact is undetermined until the engineering design has commenced and the fluctuations in energy unit costs.

Conformance with Plans, Policies, and Legal Obligations:

Heating, cooling, and ventilation for the Roanoke County Administration Center are necessary for the continuity of operations for the County's primary administration building. The 2017 Mechanical Systems Assessment identified deficiencies of the HVAC systems and made recommendations for replacement.

Project Highlights and Key Milestones:

- Recurring operational, functional, and obsolescence issues.
- In FY 2017, a Mechanical Systems Assessment was performed.
- In FY 2018, a new chiller was installed to replace the cooling tower.
- In FY 2022, a supplement to the 2017 Mechanical Systems Assessment was performed.
- In FY 2023, the FY 2022 supplemental analysis was reviewed and updated to include scope revisions and updated project cost estimates.

Organizational Strategic Plan

Responsive Service Delivery

Environmental Stewardship



Public Service Center Facility Replacement

Department: General Services

Category: Replacement

Location: 5305 Hollins Road, Roanoke VA 24019

Est. Useful Life: 30 years

Magisterial District: Hollins Magisterial District

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	20,170,000	20,170,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Fleet Center Fund	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Transfer from Capital	1,345,000	1,345,000	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds	15,775,000	15,775,000	0	0	0	0	0	0	0	0	0	0	0
Roanoke County Unrestricted													
Cash	3,000,000	3,000,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	20,170,000	20,170,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Public Service Center Facility Replacement Project implements a strategy that blends efficiencies with overall cost effectiveness based on a comprehensive Building Planning Study completed in FY 2017. This project was initiated to address the multiple issues related to the current facility/site to include the condition of the facility, significant storm water challenges, location within the Federal Emergency Management Agency (FEMA) designated 100-year flood plain, and the cumulative resulting feasibility limitations for long term use of the site for existing County functions. In FY 2020, \$11.0 million in bond funds were appropriated for the construction of Phase I of the project. In FY 2021, \$1.345 million was transferred from capital to cover bids from the Center for Research and Technology project (\$1.045 million) and Edward Rose project (\$0.3 million). These funds were then reinstated with FY 2020 year-end funds. Phase II of the project was funded in FY 2023 with \$4.775 million in bonds and \$2.5 million in unrestricted cash.



Public Service Center Facility (continued)

Project Description and Justification:

The Public Service Center Facility Replacement Project began in FY 2017 with the completion of a Building Planning Study. In FY 2018, a contract for acquisition on or before July 2019 was executed on a key piece of property necessary for expansion of the existing County Fleet Service Center.

In FY 2019, Architectural and Engineering services for Phase I of the project were contracted and commenced. Phase I included expansion of the existing Fleet Services Center for all General Services department functions, renovation of a section of the facility adjacent to the Fleet Service Center for relocation of the Communications Shop and site management functions for Communications & Information Technology, utilization of the existing Public Service Center site not located within the flood plain for Stormwater Operations, and the relocation a district shop for the Parks, Recreation, and Tourism Department to Green Hill Park.

In FY 2020, the County purchased two additional properties on Hollins Road for the future relocation of Parks, Recreation and Tourism offices and warehouse needs as Phase II of the project. Phase II is underway.

Additional Operating Impacts:

Maintenance costs for the building will likely decrease with the completion of multiple phases of the project. Non-deferrable short and long-term maintenance needs for the existing facility can be redirected for other facility infrastructure operating or maintenance needs.

Conformance with Plans, Policies, and Legal Obligations:

The Public Service Center is a core facility that provides support to all departments and direct delivery of major services/programs to citizens.

Project Highlights and Key Milestones:

- The building, originally constructed in 1950, is located in a flood plain, and flooded in 1985 and 2004.
- The facility is regularly impacted by water entering both office and operational space during periods of heavy rain due to inadequate drainage.
- In FY 2017, a Building Planning Study was commissioned to identify a replacement strategy.
- In FY 2019, Architectural and Engineering design services for Phase I were completed.
- In FY 2020, the County contracted for the acquisition of property to facilitate the relocation of Parks, Recreation & Tourism, currently planned for FY 2023 construction.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, and Beautiful

Outdoor Recreation & Natural Resources

Solid Waste & Recycling



Explore Park

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: 56 Roanoke River Pkwy, Roanoke, VA 24014

Est. Useful Life: Varies

Magisterial District: Vinton

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	0	0	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Lease/Revenue Bonds	5,800,000	5,800,000	0	0	0	0	0	0	0	0	0	0	0
Virginia Department of Conservation Grant	323,484	323,484	0	0	0	0	0	0	0	0	0	0	0
Roanoke County - Unrestricted Cash	1,886,030	1,000,000	0	0	750,000	0	0	0	0	0	0	0	750,000
Total Funding Sources	8,009,514	7,123,484	0	0	750,000	0	0	0	0	0	0	0	750,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The first phase of the Explore Park Adventure Plan is projected to be spread over 10 years. The plan provides funds for the development of Explore Park infrastructure to support private-public partnerships and to implement different aspects of the Adventure Plan. This project will support park operations for Roanoke County citizens, and market the facility for economic development. The first phase of this project, (\$5.7 million from FY 2016 – FY 2018) primarily focused on master planning, infrastructure implementation and repairs. Future infrastructure improvements (\$1.4 million in FY 2023) supports additional growth of public-private partnerships through expansion of water and sewer, road connections, building renovations, and trail enhancements. Additional funding is requested in FY 2026 in the amount of \$750,000 to expand parking capacity at the park.



Explore Park (continued)

Project Description and Justification:

This project provides funds for the development of Explore Park infrastructure and implementation of the Explore Park Adventure Plan. The first phase of the project funds water and sewer connections, design of internal park water and sewer systems, design of the road system, bike skills park, building repairs, land studies, broadband connections, land purchase, and road paving. These infrastructure projects were necessary to attract private development. In 2018, Blue Mountain Adventures and Don's Cab-Inns opened their businesses at Explore Park. Treetop Quest's aerial adventure course opened in 2019.

The second round of request for proposals were issued in November of 2018 for additional outdoor adventure themed services and food and beverage for Brugh Tavern. Roanoke County awarded a contract in the first half of calendar year 2019 to expand services by private vendors at Explore Park. Funding in FY 2023, (\$1.4 million), provided for additional infrastructure based on public-private partnership needs. The additional funding in FY 2026 will focus on expanding parking at Explore Park.

Additional Operating Impacts:

The improvements planned in the current CIP will not have an impact on the operating budget. In FY 2019, the Board of Supervisors approved the addition of a Recreation Programmer position to support Explore Park activities, which is offset by revenues collected in the Fee Class Fund. Future operating impacts are anticipated to be offset by revenue received from public-private partnerships.

Conformance with Plans, Policies, and Legal Obligations:

This project is consistent with the general goals, objectives, and policies of the 1998 Roanoke County Community Plan, Mount Pleasant Comprehensive Plan and the 2007 Department of Parks, Recreation and Tourism Comprehensive Master Plan for Parks and Facilities.

Project Highlights and Key Milestones:

- Roanoke County signed 99-year lease of Explore Park in 2013.
- The development of the Explore Park Master Plan (\$200,000) was completed in FY2016.
- The Explore Park Adventure Plan adopted by the Board of Supervisors in FY 2017.
- Water and Sewer construction completed in early 2019.
- Three vendors opened their businesses at Explore Park in 2018.
- Cabin campground and bath house construction completed in 2018.
- In FY 2019, County awarded \$323,484 grant for improvements to mountain bike trail system.
- Twin Creeks Brewing Co opened Brugh Tavern in 2019.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Keep Roanoke County Healthy, Clean and Beautiful

Infrastructure & Site Development

Outdoor Recreation & Natural Resources



Green Ridge Dehumidification

Department: Parks, Recreation & Tourism

Category: Replacement

Location: Green Ridge Recreation Center

Est. Useful Life: 15-20 Years

Magisterial District: Hollins

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	740,000	0	0	0	740,000	0	0	0	0	0	0	0	740,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	740,000	0	0	0	740,000	0	0	0	0	0	0	0	740,000
Total Funding Sources	740,000	0	0	0	740,000	0	0	0	0	0	0	0	740,000
*Operating Impacts			0	0	0	0	0	0	0	0	0	0	0

*Operating impacts have already been accounted for in the annual operating budget.



Project Summary:

The Green Ridge Dehumidification Units Replacement project will replace two dehumidification units that are reaching the end of their useful life. These units have had numerous components replaced and service calls administered since their installation in 2009. They are first generation units that are no longer in production and the ability to access replacement parts is becoming a challenge. Replacement is planned for FY 2026.



Green Ridge Dehumidification (continued)

Project Description and Justification:

The Green Ridge Recreation Center is a major county facility of over 76,000 square feet for health-centered recreational programs. The dehumidification units are reaching the end of their useful lives and are planned to be replaced with an updated version. Given that the existing units have undergone numerous compressor, coil, and computer replacements and repairs throughout their years of service. Replacement is planned for FY 2026.

Additional Operating Impacts:

There are no additional operating impacts anticipated with this project. Replacement of these units will help to reduce repair and maintenance costs.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets is necessary to maximize the potential of taxpayer funded buildings and facilities and to adhere to the findings of the 2019 Facility Condition Assessment Study.

Project Highlights and Key Milestones:

- Green Ridge Recreation Center opened in 2009, and Splash Valley waterpark has operated for 12 seasons.
- From 2014 to 2020, the compressors, coils, and computers have been replaced in both dehumidification units.
- The replacement is planned for FY 2026 for a total of \$740,000.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, & Beautiful

Outdoor Recreation & Natural Resources



Sports Field Lighting Program

Department: Parks, Recreation & Tourism

Category: Replacement

Location: Countywide

Est. Useful Life: 30 years

Magisterial District: Countywide

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	900,000	0	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	900,000	0	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
Total Funding Sources	900,000	0	0	0	0	0	0	500,000	250,000	150,000	0	0	900,000
Operating Impacts			0	0	0	0	0	1,000	1,030	1,061	1,093	1,126	5,309



Project Summary:

The Sports Field Lighting Program project includes \$900,000 in funding, beginning in FY 2028 to replace lighting systems to allow for increased athletic field usage. Sports field lighting allows for youth adult sports to have more access to and use of Roanoke County fields outside of daylight hours. Sports field lighting allows more daily uses on a field and minimizes the need for additional athletic fields in the park system. This project will allow the replacement of two of the oldest lighting systems in the County's park system while also adding an additional light system to Merriman field 4 located at Starkey Park to support lacrosse, soccer and flag football.



Sports Field Lighting Program (continued)

Project Description and Justification:

Clearbrook and Whispering Pines lighting systems are over 30 years of age and have passed their useful life. Clearbrook is essential for lacrosse, soccer and softball. Without lights, these three programs would need additional fields to be able to play in South Roanoke County, and lacrosse would not have fields to play on during March of each year until day light savings time. Clearbrook is also used each year by RCPS middle school, JV and Varsity teams. Whispering Pines fields support men's softball tournaments as well as recreation baseball and travel baseball practices. By adding LED light systems, Roanoke County will reduce energy consumption and have a 10-year warranty on the units.

Additional Operating Impacts:

Funding will be required to maintain the field lighting. An estimate of \$1,000 annually beginning in FY 2029 is included for planning purposes, increasing yearly for inflation.

Conformance with Plans, Policies, and Legal Obligations:

This project was identified as a need in the Facility Conditions Assessment completed in 2019.

Project Highlights and Key Milestones:

- Sports Field Lighting Program project was included in prior year CIPs but was removed in FY 2020 – FY 2029 CIP pending results of the 2019 Facility Conditions Assessment.
- This project was identified as a need in the Facility Conditions Assessment completed in 2019.
- \$900,000 in funding planned beginning in FY 2028 to replace two of the oldest light systems in Roanoke County's parks.
- Clearbrook field lights are approximately 32 years of age.
- Whispering Pines field lights are approximately 34 years of age.

Community Strategic Plan

Keep Roanoke County Healthy, Clean and Beautiful

Outdoor Recreation & Natural Resources



Jail Roof Replacement

Department: Sheriff's Office

Location: 401 E. Main Street, Salem, VA

Magisterial District: City of Salem

Category: Replacement

Est. Useful Life: 20-25 Years

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	610,000	0	135,000	475,000	0	0	0	0	0	0	0	0	610,000
Funding Sources													
Roanoke County - Unrestricted Cash	530,700	0	117,450	413,250	0	0	0	0	0	0	0	0	530,700
Contribution from City of Salem	79,300	0	17,550	61,750	0	0	0	0	0	0	0	0	79,300
Total Funding Sources	3,472,410	0	135,000	475,000	0	0	0	0	0	0	0	0	610,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Roanoke County Jail Roof Replacement is planned to replace the existing roof comprised of a single-ply roof cover. Additionally, the concrete decks at each outdoor exercise area need to be repaired and waterproofed. The 2019 Facilities Condition Assessment identified that a portion of the existing roof needs replacement and the concrete decks need repairing and waterproofing. Design, replacement, and repairs are planned for FY 2024 and FY 2025. The City of Salem is anticipated to contribute \$79,300 to this project.



Jail Roof Replacement (continued)

Project Description and Justification:

The Roanoke County Jail Roof Replacement is planned to replace the existing single-ply roof cover along with repairs and waterproofing of the outdoor exercise area's concrete deck. There are several locations throughout the building where the roof has exhibited numerous leaks. After further investigation, it was determined that the entire roof should be replaced as it is reaching the end of its useful life. The replacement roof will be a preferred 30-year warranty if the existing structural system allows; otherwise, a 20-year warranty roof system will be provided. The new roof system will be comprised of new insulation, a TPO single-ply membrane, flashing, parapet coping, and roof drains.

The concrete decks at the outdoor exercise areas need repairs to correct surface cracks and then waterproofing. These repairs are intended to prevent water penetration through the concrete decks and damage to the below structure and finished areas. A design professional will be consulted to provide recommendations for the repairs.

Design, replacement, and repairs are planned for FY 2024 and FY 2025. The City of Salem will be responsible for a portion of the total cost of this project.

Additional Operating Impacts:

There are no additional operating impacts identified at this time.

Conformance with Plans, Policies, and Legal Obligations:

A roof system and waterproof concrete decks that prevent water from infiltrating the building reduce mold risk and damage to the interior structure and finishes. The 2019 Facilities Condition Assessment identified a portion of the existing roof system needs to be replaced and repairs and waterproofing of the concrete decks at the outdoor exercise areas.

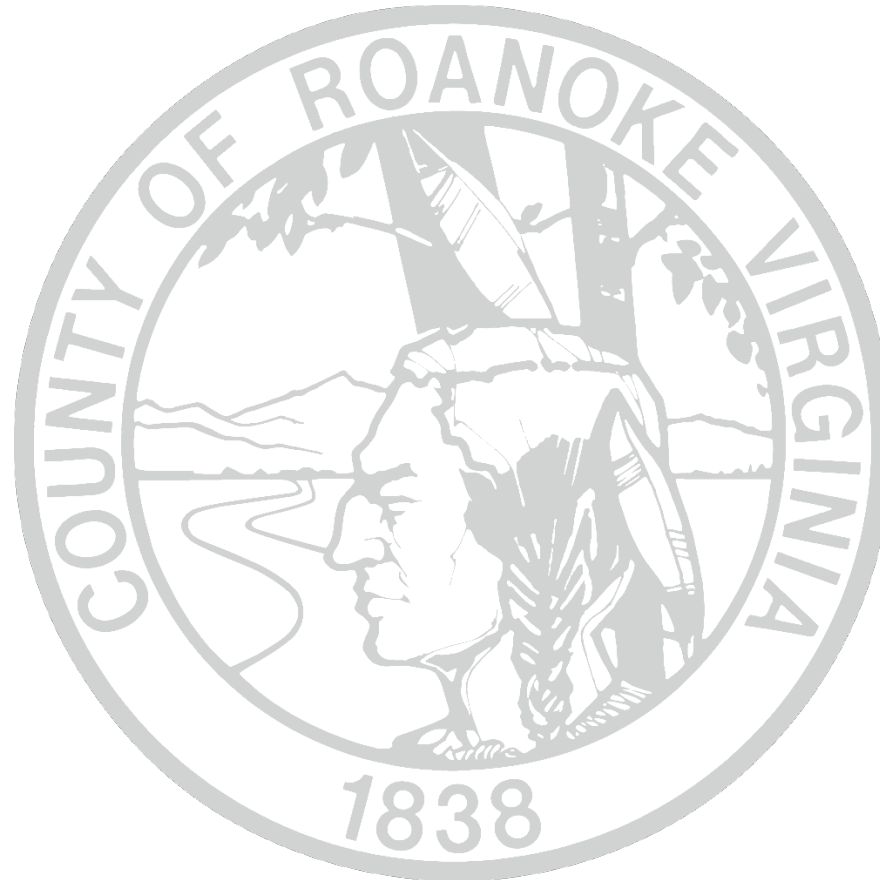
Project Highlights and Key Milestones:

- The 2019 Facilities Condition Assessment identified that a portion of the roof system needed replacement, and the concrete decks at the outdoor exercise areas needed repairs and waterproofing.
- Recurring maintenance costs and damage to interior finishes.
- The existing roof is approaching the end of its useful life.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment





Capital Maintenance Plans and Recurring





County of Roanoke, Virginia FY 2024 – FY 2033 Proposed Capital Improvement Program Capital Maintenance Plans and Recurring Summary

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Capital Maintenance Programs & Recurring											
Development Services											
NPDES-MS4 BMP Construction	\$100,000	\$200,000	\$500,000	\$100,000	\$150,000	\$750,000	\$100,000	\$100,000	\$750,000	\$100,000	\$2,850,000
Storm Drainage Maintenance of Effort	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
<i>Development Services Total</i>	100,000	440,000	1,010,000	100,000	390,000	1,070,000	530,000	440,000	1,100,000	460,000	5,640,000
Parks and Recreation											
Green Ridge Capital Maintenance Program	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
PRT Capital Maintenance Program	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
<i>Parks and Recreation Total</i>	800,000	825,000	825,000	800,000	875,000	1,625,000	1,650,000	900,000	1,577,500	1,525,000	11,402,500
Economic Development											
Roanoke County Broadband Authority Infrastructure	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Wood Haven Technology Park	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
<i>Economic Development Total</i>	757,628	754,507	754,245	755,131	369,543	370,534	370,866	369,224	371,399	370,648	5,243,725
General Services											
General Services Capital Maintenance Program	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
<i>General Services Total</i>	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
Sheriff's Office											
Sheriff's Office Capital Maintenance Program	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
<i>Sheriff's Office Total</i>	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
Capital Maintenance Programs & Recurring Total	\$2,662,628	\$3,024,507	\$3,600,612	\$2,645,240	\$2,657,185	\$5,300,950	\$5,409,997	\$3,732,631	\$6,207,631	\$5,982,631	\$41,224,012



NPDES-MS4 BMP Construction

Department: Development Services

Category: Replacement and New Facilities

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	3,419,776	569,776	100,000	200,000	500,000	100,000	150,000	750,000	100,000	100,000	750,000	100,000	2,850,000
<u>Funding Sources</u>													
Roanoke County -													
Unrestricted Cash	2,419,776	569,776	100,000	200,000	250,000	100,000	150,000	375,000	100,000	100,000	375,000	100,000	1,850,000
Stormwater Local Assistance Fund	1,000,000	0	0	0	250,000	0	0	375,000	0	0	375,000	0	1,000,000
Total Funding Sources	3,419,776	569,776	100,000	200,000	500,000	100,000	150,000	750,000	100,000	100,000	750,000	100,000	2,850,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The National Pollutant Discharge Elimination System (NPDES)-MS4 BMP Construction project, provides resources for the design and construction of Best Management Practices (BMPs) to address sediment, bacteria, and PCBs (Polychlorinated Biphenyl) discharge in the County. Roanoke County has a Municipal Separate Storm Sewer System (MS4) permit with Total Maximum Daily Load (TMDL) requirements. This project helps the County to meet these requirements by lowering discharge of these pollutants toward its numeric waste load allocations. Project funding is supplemented with anticipated Virginia Stormwater Local Assistance Fund grants, for which the County anticipates applying every third year.



NPDES-MS4 BMP Construction (continued)

Project Description and Justification:

The National Pollutant Discharge Elimination System (NPDES)-MS4 BMP Construction project funds the design and construction of Best Management Practices (BMPs) to address sediment, bacteria, and PCBs discharge in the County. Roanoke County has a Municipal Separate Storm Sewer System (MS4) permit with Total Maximum Daily Load (TMDL) requirements. This project helps the County meet these requirements by lowering discharge of these pollutants toward its numeric waste load allocations. These facilities provide stormwater treatment for development in the County that occurred prior to stormwater regulations. These project activities are required to comply with the MS4 permit.

This project may also be used to fund studies pertaining to our MS4 permit compliance.

Additional Operating Impacts:

Existing County staff will be utilized for this effort, so there will not be an additional operating impact. However, as the County constructs additional BMPs as required by the MS4 permit, staffing levels may need to be analyzed to ensure proper maintenance of the BMPs.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to Roanoke County's MS4 Program Plan which describes how Roanoke County will comply with its MS4 permit.

Project Highlights and Key Milestones:

- Latest MS4 permit was issued in November 2018.
- BMP construction helps keep Roanoke County in compliance with State permit requirements.
- Restoration of Glade Creek in Vinyard Park, Phase II completed in FY 2019.
- Restoration of Wolf Creek in Goode Park completed in August 2021.
- SLAF funding awarded in February 2022.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, and Beautiful

Environmental Stewardship

Outdoor Recreation & Natural Resources



Storm Drainage Maintenance of Effort Program

Department: Development Services

Category: Replacement

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	4,322,062	1,532,062	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	4,122,062	1,332,062	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
VDOT Reimbursement	200,000	200,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	4,322,062	1,532,062	0	240,000	510,000	0	240,000	320,000	430,000	340,000	350,000	360,000	2,790,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Storm Drainage Maintenance of Effort Program project addresses public drainage problems through repairs and system upgrades to County-owned storm drainage systems that cannot be addressed through the operating budget. At times, project funds may be used for emergency repairs that are caused by significant storm events. For projects that involve public streets, participation by VDOT is sought.



Storm Drainage Maintenance of Effort Program (continued)

Project Description and Justification:

As public drainage problems are identified, they are ranked based on severity and cost-effectiveness of repair. Projects are constructed based on their ranking, availability of funding, and other project specific issues. Where possible, the County's drainage crew is used to perform this work. When this is done, the labor and equipment costs are funded through the operating budget and the material costs are funded through this program. Where necessary or appropriate, the work is performed by contractors.

Additional Operating Impacts:

There are no additional operating costs associated with this project. The County currently funds two work crews that will provide maintenance on these facilities. As additional stormwater drainage facilities are added to the inventory, additional staff to support on-going maintenance may need to be added to the operating budget.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to the Board of Supervisor's past support of providing maintenance and replacement services for County-owned storm drainage infrastructure.

Project Highlights and Key Milestones:

- Maintenance of Effort projects are by nature on-going.
- Completed 11 Interdepartmental projects in FY 2022
- Completed 9 large projects and 4 small projects in FY 2022.
- Completed 6 emergency repairs in FY 2022.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Keep Roanoke County Healthy, Clean and Beautiful

Infrastructure & Site Development

Environmental Stewardship



Green Ridge Capital Maintenance Program

Department: Parks, Recreation & Tourism

Location: Green Ridge Recreation Center

Magisterial District: Hollins

Category: Capital Maintenance Program

Est. Useful Life: 50 Years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	2,455,000	155,000	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	2,455,000	155,000	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
Total Funding Sources	2,455,000	155,000	75,000	100,000	100,000	75,000	125,000	375,000	400,000	150,000	400,000	500,000	2,300,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Green Ridge Capital Maintenance Program (CMP) funds ongoing maintenance and repair of various systems within the recreation facility. The facility is over 10 years of age and requires a dedicated funding stream for overall facility maintenance. The facility continues to cover its direct operating costs through revenue generation, but capital maintenance funding assistance is needed for the long-term future. Annual funding to the Green Ridge CMP will fund repairs and maintenance maximizing the life of the building and waterpark.



Green Ridge Capital Maintenance Program (continued)

Project Description and Justification:

The 2019 Facility Condition Assessment study identified the facility as underfunded for current repair needs. The Green Ridge Capital Maintenance Program (CMP) funds ongoing maintenance and repair of various systems within the recreation facility. The facility is over 10 years of age and requires a dedicated funding stream for overall facility maintenance. The facility continues to cover its direct operating costs through revenue generation, but capital maintenance funding assistance is needed for the long-term future. Annual funding to the Green Ridge CMP will fund repairs and maintenance maximizing the life of the building and waterpark.

Additional Operating Impacts:

Direct impact to the operating budget from the Capital Maintenance Program primarily comes from the additional staff time necessary to assess and implement repairs and maintenance. While repair and maintenance projects can have significant upfront costs, the long-term effect is a reduction in overall total cost and an increase in departmental efficiency. Over time, it is expected that ongoing preventive maintenance will actually reduce operating costs or cost avoidance and enhance service levels.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets is necessary to maximize the potential of taxpayer funded buildings and facilities and to adhere to the findings of the 2019 Facility Condition Assessment Study.

Project Highlights and Key Milestones:

- Green Ridge Recreation Center opened in 2009, and Splash Valley waterpark has operated for 12 seasons.
- The Green Ridge CMP addresses ongoing maintenance and repairs to maximize the life of the building and waterpark.
- The program began in FY 2022 at \$100,000.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, & Beautiful

Outdoor Recreation & Natural Resources



Parks and Recreation Capital Maintenance Program

Department: Parks, Recreation & Tourism

Category: Capital Maintenance Program

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	14,397,500	5,295,000	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
Funding Sources													
Roanoke County -													
Unrestricted Cash	13,147,500	4,045,000	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
Fee Class Fund	1,000,000	1,000,000	0	0	0	0	0	0	0	0	0	0	0
FEMA Reimbursement	250,000	250,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	14,397,500	5,295,000	725,000	725,000	725,000	725,000	750,000	1,250,000	1,250,000	750,000	1,177,500	1,025,000	9,102,500
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Parks and Recreation Capital Maintenance Program (CMP) is the vehicle in which County assets are programmed to receive regular maintenance and repair. Annual funding to the Parks and Recreation CMP will fund repairs and maintenance maximizing the life of County parks, playgrounds, sports fields, courts, restrooms, and other recreational buildings.



Parks & Recreation Capital Maintenance Program (continued)

Project Description and Justification:

The Capital Maintenance Program (CMP) is the vehicle in which County assets are programmed to receive regular maintenance and repair. Ongoing preventive maintenance helps to ensure the safety and value of County assets while avoiding potentially large costs resulting from lack of proper maintenance. The CMP dedicates \$725,000 in FY 2024 through FY 2027, with a planned increase in FY 2028. Annual funding to the Parks and Recreation CMP will fund repairs and maintenance maximizing the life of County parks, playgrounds, sports fields, courts, restrooms, and other recreational buildings.

Additional Operating Impacts:

Direct impact to the operating budget from the Capital Maintenance Program primarily comes from the additional staff time necessary to assess and implement repairs and maintenance. While repair and maintenance projects can have significant upfront costs, the long-term effect is a reduction in overall total cost and an increase in departmental efficiency. Over time, it is expected that ongoing preventive maintenance will actually reduce operating costs or cost avoidance and enhance service levels.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets is necessary to maximize the potential of taxpayer funded buildings and facilities. The 2019 Facility Conditions Assessment identified Capital Maintenance Programs as a resource to fund minor facility needs.

Project Highlights and Key Milestones:

- In FY 2016, the Parks & Recreation CMP expanded to a 10-year funding schedule and is included in the Capital Improvement Program (CIP).
- The Parks and Recreation CMP includes replacing playgrounds, bleachers, resurfacing courts, repaving trails in County parks, maintaining greenways, adding water service to shelters, repairing restrooms and facilities, and addressing any drainage issues.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, & Beautiful

Outdoor Recreation & Natural Resources



Roanoke County Broadband Authority Infrastructure

Department: Economic Development

Category: New Facilities

Location: Countywide

Est. Useful Life: Varies

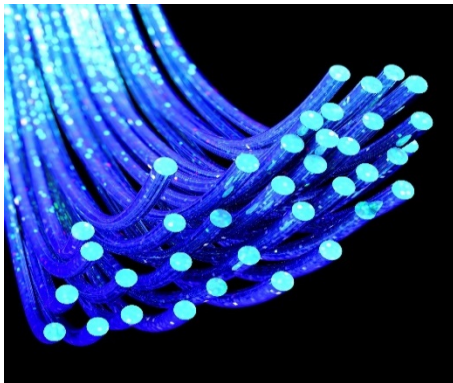
Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	3,899,769	2,360,309	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Funding Sources													
Roanoke County -													
Unrestricted Cash	1,953,912	414,452	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Contribution from EDA	1,152,758	1,152,758	0	0	0	0	0	0	0	0	0	0	0
Economic Development													
Funds	793,099	793,099	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	3,899,769	2,360,309	387,149	383,664	383,664	384,983	0	0	0	0	0	0	1,539,460
Operating Impacts			100,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

*Operating impacts have already been accounted for in the annual operating budget.



Project Summary:

The Roanoke Valley Broadband Authority (RVBA) Infrastructure project promotes economic development by providing affordable, high speed broadband services in the Roanoke Valley. The Roanoke Valley Broadband Authority (RVBA) on behalf of Roanoke County and as part of a multi-jurisdictional effort constructed a 25-mile core fiber network in Roanoke County. An additional 10 plus miles has been built during the last two years bringing the total mileage in Roanoke County to over 35 plus miles.

The County's portion of the installation joins previous installations in the cities of Salem and Roanoke, ultimately providing a system with over 110 miles of fiber for commercial, business and governmental use. Construction of the core fiber network in the County was completed in October 2017. Annual funding remains in the CIP to support debt service payments for the financing of the project.



Roanoke County Broadband Authority Infrastructure (continued)

Project Description and Justification:

The Roanoke Valley Broadband Authority (RVBA), formed by the County of Roanoke, City of Roanoke, City of Salem and Botetourt County, constructed a core fiber network of approximately 25 miles to serve Roanoke County. In order to support continued commercial growth and development, the proposed network aligns with major transportation corridors of the County and targets commercial and industrial activity centers. Capital construction costs are financed for ten years, and the County will provide annual principal and interest payments on the debt. The project including the design, engineering, construction costs, and interest payments totals \$3.9 million over the ten-year period. Recently, the RVBA added Carilion Clinic to its list of mission critical customers. Work has commenced within Roanoke County to support the strategic expansion of Carilion Clinic. In addition, the RVBA has been awarded four (4) VATI grants in support of Roanoke County's goal to address the need for Rural Broadband.

Additional Operating Impacts:

The Broadband Authority Infrastructure project will impact the Operating Budget due to annual operating expenses, which are expected to be around \$150,000 until such time as the RVBA is financially self-sufficient.

Conformance with Plans, Policies, and Legal Obligations:

The project is consistent with Roanoke County's efforts to support commercial growth and development.

Project Highlights and Key Milestones:

- 25 miles of core fiber network constructed to serve Roanoke County was lit in October 2017.
- RVBA expects to be financially self-sufficient in approximately 6 to 8 years from its operations in-service date of July 1, 2016. COVID-19 impacted the RVBA as well as the rest of the telecommunications industry
- Expansion of broadband network may be considered in future years but is currently not funded in the CIP. (Projects are in the fund acquisition phase in order to obtain the necessary funding sources to start expansion on the broadband network).

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Connect Roanoke County to the World

Infrastructure & Site Development

Workforce Development/Technical Education

Improve Communication and Data Technology in Both the Business Sector & in Residential Settings



Wood Haven Property Acquisition and Improvements

Department: Economic Development

Category: New Facilities

Location: Wood Haven Road / Interstate 81 / Interstate 581

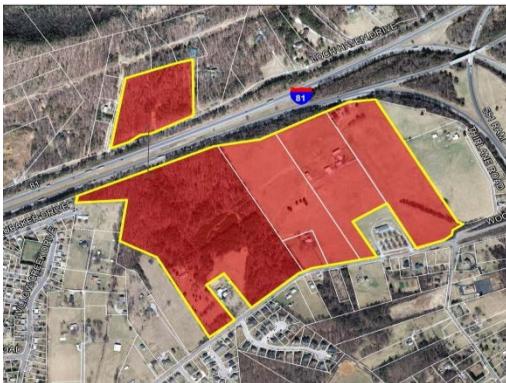
Est. Useful Life: Varies

Magisterial District: Catawba Magisterial District

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	4,394,819	690,554	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
Funding Sources													
Roanoke County -													
Unrestricted Cash	4,192,189	487,924	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
Economic Development Funds	383,874	383,874	0	0	0	0	0	0	0	0	0	0	0
Contribution from EDA	306,680	306,680	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	4,192,189	487,924	370,479	370,843	370,581	370,148	369,543	370,534	370,866	369,224	371,399	370,648	3,704,265
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Wood Haven Road Properties Under Contract

Project Summary:

This project will create a 100+ acre business park, which will be owned and developed by the Western Virginia Regional Industrial Facility Authority (WVRIFA). Roanoke County, along with the Cities of Roanoke and Salem are jointly financing this effort. The project aims to increase the amount of marketable property in the Roanoke Valley available for business development. Roanoke County's total share of the project is expected to be approximately \$4.5 million (\$3.7 million accounted for in current CIP), financed through the WVRIFA over 20 years. A total of \$3.7 million in project financing is budgeted in the FY 2024 – FY 2033 CIP.



Wood Haven Property Acquisition and Improvements (continued)

Project Description and Justification:

The Western Virginia Regional Industrial Facility Authority (WVRIFA) was formed in 2013 to enhance economic growth for member localities by developing, owning, and operating one or more facilities on a cooperative basis. The WVRIFA is a voluntary cost and revenue sharing model, whereby multiple jurisdictions can jointly acquire and develop property and share in the revenues generated from new development. There are six-member localities in the WVRIFA - Roanoke County, Botetourt County, Franklin County, Roanoke City, Salem City, and the Town of Vinton. Roanoke County and the Cities of Roanoke and Salem are the only participants in the Wood Haven project.

The properties collectively referred to as the Wood Haven Technology Park consist of over 100 acres. Specific project and development plans were produced in conjunction with a community engagement process in 2017 and 2018. Structures on the property were demolished and Roanoke Gas made system improvements on the property in 2018. Additional property was acquired and rezoned in 2019/2020 to improve the development. Water and sewer utilities were extended and an entrance road was built in FY 2020. Grading of a 20-acre pad (of a designed and permitted 53-acre pad) is 90% complete.

Additional Operating Impacts:

No operating impacts expected.

Conformance with Plans, Policies, and Legal Obligations:

The project is consistent with Roanoke County's efforts to support commercial growth and development.

Project Highlights and Key Milestones:

- 2013: WVRIFA formed by the localities of Roanoke County, Botetourt County, Franklin County, Roanoke City, Salem City, and the Town of Vinton.
- 2015: a site analysis study was completed by Timmons Engineering.
- September 2016: Resolution approving a "Participation Agreement" between members of the WVRIFA.
- Contribution proportions are: Roanoke County 44%, City of Roanoke 44%, City of Salem 12% of project costs.
- Community meetings held in 2017 and 2018.
- Demolition of structures on property completed in 2018.
- Roanoke Gas made system improvements on the property in 2018.
- Water and sewer extended into property in 2020.
- Additional property (2 acres) were acquired and rezoned in 2019/2020.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Connect Roanoke County to the
World

Infrastructure & Site Development

Business-Friendly Development
Process

Regional Cooperating & Marketing



General Services Capital Maintenance Program

Department: General Services

Location: Countywide

Magisterial District: Countywide

Category: Capital Maintenance Program

Est. Useful Life: 10-15 years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	24,018,285	6,545,498	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787

Funding Sources

Highway Safety Improvement Program	23,658,285	6,185,498	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
Regional Surface Transportation Program	360,000	360,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	24,018,285	6,545,498	880,000	880,000	886,367	865,109	872,642	2,060,416	2,704,131	1,868,407	2,983,732	3,471,983	17,472,787
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The General Services Capital Maintenance Program (CMP) is the vehicle in which County assets are programmed to receive regular maintenance and repair. Dedicating funding each year to the General Services CMP will fund repairs and maintenance maximizing the life of County facilities, lots, electrical systems, and plumbing systems. A comprehensive, independent Facility Conditions Assessment was completed in 2019 and will be utilized as a resource for developing current and future needs. An update to this assessment is planned for FY 2024.



Capital Maintenance Program (continued)

Project Description and Justification:

The Capital Maintenance Program (CMP) is the mechanism that provides funding for applicable facilities maintenance and repair expenses. Ongoing preventive maintenance of facilities will ensure the safety and value of County assets while avoiding repair costs from lack of proper maintenance.

The program, administered by General Services, incorporates strategic evaluation and planning to maintain County infrastructure to provide for both the short and long-term operational needs. The FY 2024 CMP plan will continue to focus on the core facility needs of the County while also continuing to prioritize and address long-term component investment in areas such as parking lots and roofs at a stage that mitigates additional expenditures that would be realized if deferred. CMP funding is also necessary to address projects related to service delivery needs for Departments.

Additional Operating Impacts:

Direct impact to the operating budget from the Capital Maintenance Program primarily comes from the additional staff time necessary to assess and implement repairs and maintenance. While repair and maintenance projects can have significant upfront costs, the long-term effect is a reduction in overall total cost and an increase in departmental efficiency. Over time, it is expected that ongoing preventive maintenance will reduce operating costs and enhance service levels.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of assets is necessary to maximize the potential of buildings and facilities, which directly and indirectly supports all of the County's Community Strategic Plan Initiatives. The Facility Conditions Assessment helps inform overall General Services CMP planning needs.

Organizational Strategic Plan

Responsive Service Delivery

Develop a Strategy to Streamline Processes and Services

Project Highlights and Key Milestones:

- In FY 2016, CMP expanded to 10-year funding schedule and is included in the current CIP.
- The General Services CMP services County facilities, replacing HVAC units, electrical and lighting systems, heaters, renovating buildings, upgrading building automated security systems, and repairing asphalt.
- A comprehensive Facility Conditions Assessment study was completed in 2019 and is utilized to inform overall CMP planning needs.
- The FY 2021 Budget Amendment contributed \$360,000 towards CMP.



Sheriff's Office Capital Maintenance Program

Department: Sheriff

Location: 401 E Main St., Salem, VA 24153

Magisterial District: City of Salem

Category: Capital Maintenance Program

Est. Useful Life: 10-15 years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	2,214,000	749,000	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	2,214,000	749,000	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
Total Funding Sources	2,214,000	749,000	125,000	125,000	125,000	125,000	150,000	175,000	155,000	155,000	175,000	155,000	1,465,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Capital Maintenance Program (CMP) is the vehicle in which County assets are programmed to receive regular maintenance and repair. Dedicating resources each year to the Sheriff CMP will fund repairs and maintenance maximizing the life of the County Jail and Courthouse.



Capital Maintenance Program (continued)

Project Description and Justification:

Ongoing preventive maintenance of all facilities will help ensure the safety and value of these facilities while avoiding potentially large costs resulting from lack of proper maintenance. Dedicating resources each year to the Sheriff CMP will fund repairs and maintenance maximizing the life of the County Jail and Courthouse. Funding is planned at \$125,000 in FY 2024 with similar amounts through FY 2027 and increasing thereafter based on facility needs and availability of funding sources.

Additional Operating Impacts:

Direct impact to the operating budget from the Capital Maintenance Program primarily comes from the additional staff time necessary to assess and implement repairs and maintenance. While repair and maintenance projects can have significant upfront costs, the long-term effect is a reduction in overall total cost and an increase in departmental efficiency. Over time, it is expected that ongoing preventive maintenance will actually reduce operating costs and enhance service levels.

Conformance with Plans, Policies, and Legal Obligations:

Maintenance and upkeep of County assets is necessary to maximize the potential of taxpayer funded buildings and facilities.

Project Highlights and Key Milestones:

- The Sheriff's Office received no dedicated funding for capital maintenance of facilities until FY 2016.
- In FY 2016, the CMP expanded to a 10-year funding schedule and first included in the Capital Improvement Program.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment





Computer Infrastructure, Software and Hardware





County of Roanoke, Virginia FY 2024 – FY 2033 Proposed Capital Improvement Program Computer Infrastructure, Software and Hardware Summary

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Computer Infrastructure, Software and Hardware											
Communications & IT											
Genesis Operations Bridge	\$220,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$220,000
Radio Systems RF Sites Generator Replacement	120,000	0	0	0	0	0	0	0	0	0	120,000
Wave Critical Connect Upgrade	0	200,000	0	0	0	0	0	0	0	0	200,000
County-Wide Computer Replacement Program	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
County-Wide Cisco Phone Replacement Program	0	0	0	0	0	300,000	0	0	0	0	300,000
Email and Business Productivity Tools Replacement	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000
Enterprise GIS Maps and Apps Upgrade	400,000	300,000	0	0	0	0	0	0	0	0	700,000
IT Infrastructure Replacement Plan	1,200,000	650,000	650,000	650,000	650,000	750,000	800,000	1,200,000	750,000	750,000	8,050,000
911 Phone and Radio Console Upgrade	0	125,000	0	0	0	0	0	0	0	0	125,000
OTek Console Encryption Keying Upgrade	0	100,000	0	0	0	0	0	0	0	0	100,000
Roanoke Valley Radio System Hardware Upgrade	0	2,500,000	0	0	0	0	0	0	0	0	2,500,000
Rural Broadband Initiative	0	0	0	0	0	0	0	0	0	0	0
CommIT Total	2,350,000	4,345,000	1,095,000	920,000	920,000	1,320,000	1,070,000	1,470,000	1,020,000	1,020,000	15,530,000
Finance/Human Resources											
Global Payroll Module	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
Finance/Human Resources Total	1,000,000	0	0	0	0	0	0	0	0	0	1,000,000
Elections											
Voting Machine Replacement	425,000	0	0	0	0	0	0	0	0	0	425,000
Elections Total	425,000	0	0	0	0	0	0	0	0	0	425,000
Library											
Public Computer Replacement	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Library Total	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Computer Infrastructure, Software and Hardware Total	\$3,825,000	\$4,445,000	\$1,195,000	\$985,000	\$995,000	\$1,400,000	\$1,150,000	\$1,550,000	\$1,100,000	\$1,100,000	\$17,745,000



Genesis Operations Bridge

Department: Communications & Information Technology

Location: Public Safety Center, 5925 Cove Rd, Roanoke, VA 24019

Magisterial District: Catawba Magisterial District

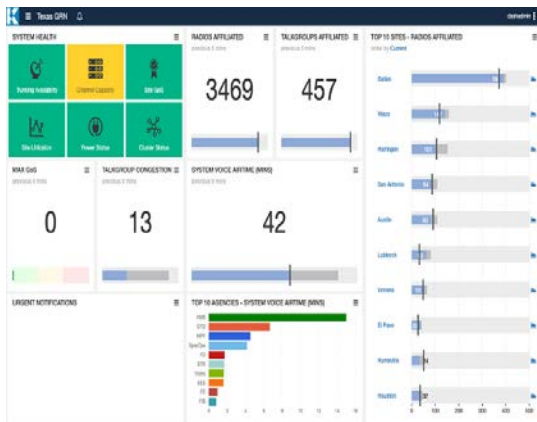
Category: Equipment Replacement

Est. Useful Life: 5 years for hardware

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33	Total
Total Project Cost	220,000	0	220,000	0	0	0	0	0	0	0	0	0	220,000	
Funding Sources														
Roanoke County - Unrestricted Cash	220,000	0	220,000	0	0	0	0	0	0	0	0	0	220,000	
Total Funding Sources	220,000	0	220,000	0	0	0	0	0	0	0	0	0	220,000	
Operating Impacts			0	14,554	15,282	16,046	16,848	17,690	18,575	19,504	20,479	21,503	160,481	



Project Summary:

The Genesis Operations Bridge project and equipment will provide visualizations that quickly convey key information on the Public Safety radio network to service personnel responsible for repair and maintenance of the public safety network. Operations Bridge from Genesis Integrates with SMS, email, and ticketing systems for escalation and prioritization. The bridge will put all fault & performance data in one place, allowing operators to have better visibility of the entire network. The Operations Bridge will filter and correlate all information allowing system managers and technicians to be able to quickly identify the root cause of failures, allowing quicker responses with providing service for the actual failure.



Genesis Operations Bridge (continued)

Project Description and Justification:

The Genesis Operations Bridge provides event correlation, which minimizes outbound emails and alerts to a single failure, providing the alert to the service personnel and management. Today we lack the ability to analyze and report from a single pane of glass, the Operations Bridge will consolidate the data from multiple sources and will allow the County to gain efficiency.

The Genesis Operations Bridge will also pre-build & customize correlation rules to enhance monitoring abilities, which improves notification and escalation to the service personnel and management. This allows email messages of site losses, commercial power outages and successful transition to backup power while continuing to provide text messages of only urgent notifications, for example low fuel alarms, high temp alarms, etc. This integration allows for service now ticket creation & email notifications of site trunking alarms after 5 minutes and generator failures.

Additional Operating Impacts:

There is an initial cost of \$220,000 to purchase this product and an additional operating cost of \$14,554 for the 2nd year and 5% increase each year after.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the stated mission of the Board of Supervisors to provide high quality services at reasonable costs to the citizens of Roanoke County.

Project Highlights and Key Milestones:

- The Genesis Operations Bridge will provide the Roanoke Valley Radio system real-time awareness & reporting, resulting in savings of \$ 15,000 to 20,000 annually.
- This project will remove the email post office overload that has occurred at least 10 times over the last several years causing catastrophic email failure in Roanoke County, meaning it has prevented the system from delivering alarm messages via email and SMS, text messages to key service & management personnel.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Radio Systems RF Sites Generator Replacement

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: 5 – 10 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	120,000	0	120,000	0	0	0	0	0	0	0	0	0	120,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	120,000	0	120,000	0	0	0	0	0	0	0	0	0	120,000
Total Funding Sources	120,000	0	120,000	0	0	0	0	0	0	0	0	0	120,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Roanoke County has RF Transmitter sites on Fort Lewis Mountain, Poor Mountain and Crowell's Gap. These sites are essential to providing radio communications and require power service at all times. Current generators are over 23 years old and are requiring more frequent maintenance and replacement parts are scarce. This project will replace the generators at those sites to ensure continuity of service.



Radio Systems RF Sites Generator Replacement (continued)

Project Description and Justification:

In the event of a power outages caused by snow, ice, wind, human error or terrorist attacks a reliable power source is needed at all mountain top sites to maintain uninterrupted service. Currently the generators are over 23 years old. Repairs are being required more often and supply of replacement parts are diminished.

Additional Operating Impacts:

Propane fuel cost and yearly maintenance cost that are already included in current operating budgets.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the stated mission of the Board of Supervisors to provide high quality services at reasonable costs to the citizens of Roanoke County.

Project Highlights and Key Milestones:

- Site generators are over twenty-three (23) years old.
- Replacement / spare parts are starting to become an issue to obtain.
- Service calls for repairs have increased over recent years.
- Average Usage is currently 1800 hrs. per site.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment

Infrastructure & Site Development



Wave Critical Connect Upgrade

Department: CommIT – 9-1-1

Location: Public Safety Center, 5925 Cove Rd, Roanoke VA 24019

Magisterial District: Catawba

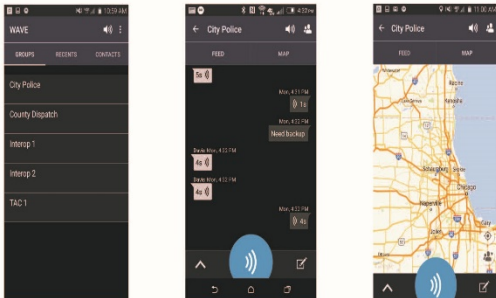
Category: Replacement

Est. Useful Life: No End of Life

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33	Total
Total Project Cost	200,000	0	0	200,000	0	0	0	0	0	0	0	0	200,000	
Funding Sources														
Roanoke County - Unrestricted Cash	200,000	0	0	200,000	0	0	0	0	0	0	0	0	200,000	
Total Funding Sources	200,000	0	0	200,000	0	0	0	0	0	0	0	0	200,000	
Operating Impacts			0	0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	



Project Summary:

The Wave Critical Connect will replace the, end of life, Wave 5000 platform. The Wave enables ASTRO 25-Radio System to-broadband PTT communications, leveraging the latest broadband LTE and Wi-Fi nationwide coverage to support public safety communications. Upgrading Wave from the 5000 platform to the Critical Connect will eliminate communication barriers between agencies by enabling virtual connections, on-demand fleet-maps to provide flexible communications that adapt to changing needs. Wave offers inter-agency group voice communication between ASTRO 25 radios and broadband mobile devices.



Wave Critical Connect Upgrade (continued)

Project Description and Justification:

Motorola's announced end of expansion on Wave 5000 in 2020 and continues to support Wave through infrastructure until 2023. Roanoke County, Roanoke City, and Franklin County utilize Wave today for Fire & Rescue, Police, Sheriff, and Administration. Wave can also be used to monitor and communicate when traveling, for off duty personnel, and volunteers that are not assigned a radio.

Additional Operating Impacts:

Increase in SUAll annual cost for maintenance as well as reoccurring annual software and maintenance for Motorola.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the stated mission of the Board of Supervisors to provide high quality services at reasonable costs to the citizens of Roanoke County.

Project Highlights and Key Milestones:

- Current Wave system was part of the Franklin County system in 2015 adding this to the Roanoke Valley Regional Radio System
- Expected end of life for current system is 2023
- Wave extends PTT and Radio functionality to anywhere that 4g LTE coverage exists today
- Upgrading Wave to Critical Connect will allow the system to grow exponentially beyond the public safety radio subscriber that everyone associates to the 1st responder

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment

Public Safety Staffing



County-Wide Computer Replacement Program

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: 5 – 10 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	3,743,000	1,053,000	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
Funding Sources													
Roanoke County - Unrestricted Cash	2,960,000	270,000	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
CommIT Fund Transfer	783,000	783,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	3,743,000	1,053,000	260,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	270,000	2,690,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Beginning in FY 2018, the County-Wide Computer Replacement program became part of the ten-year CIP. The program is necessary to ensure that employees have adequate computing power and that the latest security measures are always met by maintaining computer systems. With this program, Communications & Information Technology will streamline the specification, acquisition, and deployment of new equipment and disposal of old equipment. This program assures that appropriate computing resources are available for departments to support the needs of Roanoke County's business processes.



County-Wide Computer Replacement Program (continued)

Project Description and Justification:

The Computer Replacement Program operates on a five-year replacement cycle that keeps County workstations with the most up-to-date operating systems and internal hardware. Beginning in FY 2018, the County-Wide Computer Replacement program became part of the ten-year CIP. While the project was originally planned for future funding by transferring \$233,000 annually from the CommIT Fund, County staff are expecting an increase in machines needing to be replaced due to machines purchased with CARES Act funding in FY21 and rugged tablets purchased by Fire & Rescue in FY22. Therefore, \$260,000 is planned in FY 2024 and \$270,000 is planned annually from FY 2025 through FY 2033.

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

Proper computer resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- Program became part of the ten year CIP beginning in FY 2018.
- Computer Replacement Program will replace all computers on a five-year rotation.
- Program will improve disposal of old/outdated equipment.
- Program scheduled to receive \$260,000 in FY 2024 and \$270,000 from FY 2025 through FY 2033.

Community Strategic Plan

Connect Roanoke County to the World

Improve Communications and Data Technology in both the Business Sector & in Residential Settings



County-Wide Phone Replacement Program

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: 5 – 10 years

Magisterial District: Countywide

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33	Total
Total Project Cost	300,000	0	0	0	0	0	0	300,000	0	0	0	0	300,000	
Funding Sources														
Roanoke County - Unrestricted Cash	300,000	0	0	0	0	0	0	300,000	0	0	0	0	300,000	
Total Funding Sources	300,000	0	0	0	0	0	0	300,000	0	0	0	0	300,000	
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0	



Project Summary:

The County, Town of Vinton, RCACP, and RVRA primarily use the Cisco Unified Communications Manager (CUCM) for the phone system. As the CUCM (phone system) needs to be upgraded to remain in support, phone sets will need to be replaced in order to function with the new version of CUCM. In the past, Information Technology has utilized some year-end operating funds to purchase bulk groups of phones to have as replacements for departments whose phone sets are obsolete or broken. This project is to request a set level of funding to replace these phones as they become obsolete with the phone system upgrades.



County-Wide Phone Replacement Program (continued)

Project Description and Justification:

The phone system is the primary means to conduct County business. Upgrades are typically scheduled for every five years, when the physical servers need to be replaced. If there are any big repairs to the phone system version or if there are new features that the County could use, upgrades may occur before five years. Cisco comes out with security updates for the phones that connect to CUCM to update the firmware to prevent hacks and security breaches into the network. When these phones go “end of life”, the vendor no longer provides these security updates, which can put the County’s network at risk or exposed. By replacing the phones as they are no longer supported by the vendor, we can ensure the County is not at risk.

There are currently over 1000 phones on the County phone system. The goal is to replace a percentage of phone sets every year over the course of five years.

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

Proper phone resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- The phone sets that Cisco recommends purchasing in place of the older model phones that the County uses are Cisco IP 8841 & Cisco IP 8851 phone models.
- The cost is \$150-\$175 per phone.

Community Strategic Plan

Connect Roanoke County to the World

Improve Communications and Data Technology in both the Business Sector & in Residential Settings



Email and Business Productivity Tools Replacement

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

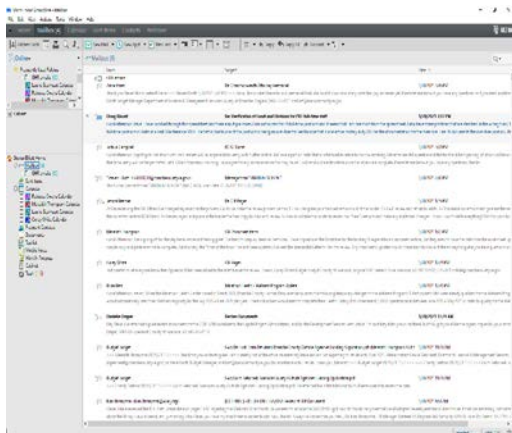
Est. Useful Life: Ongoing

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33	Total
Total Project Cost	1,050,000	525,000	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000	
Funding Sources														
Roanoke County - Unrestricted Cash	1,050,000	525,000	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000	
Total Funding Sources	1,050,000	525,000	150,000	200,000	175,000	0	0	0	0	0	0	0	525,000	
Operating Impacts			0	553,000	569,590	586,678	604,278	622,406	641,078	660,310	680,119	700,523	5,617,982	



Project Summary:

Groupwise, Roanoke County's current email platform, is gradually becoming less supported. A move to Microsoft's M365 platform is the preferred option to move forward. Assessment of current business activities and email usage occurred during FY 2022, to provide information for planning time, cost and phase estimates for the interrelated Microsoft modules.

The corporate direction of Microsoft is to move all of their products to the continuing revenue stream of Software as a Service (SaaS), in the cloud, forcing customers to move based on feature differences between cloud and on-premises versions, offering shorter or substandard support options, and eventually, sunsetting on-premises versions. For this reason, improved security, One-drive and SharePoint to the cloud are included as phases of the project. Funding is planned for FY 2023-2026, in multiple project phases.



Email and Business Productivity Tools Replacement (continued)

Project Description and Justification:

The County has been fortunate to keep email and business productivity costs down as carefully as possible, by continuing to use an older email platform with lower ongoing costs and maintaining older MS Office versions for longer time periods. However, these older platforms are higher risk and are not realistic for meeting Roanoke County's business needs in the very near future. Email and business productivity products offered have changed business models to the continuing revenue stream of Software as a Service (SaaS), in the cloud, forcing customers to move to cloud-based options. This project includes phases to deploy a new Microsoft government cloud tenant with several security tools in place, followed by a move of the current D365 environment from the commercial to the government tenant, migration of email and archive to Outlook with advanced archiving tools to meet FOIA. Etc., then a move of P: drives to OneDrive, followed by SharePoint re-design and migration from on-prem to the cloud, and various tools available in Microsoft Teams (videoconferencing, messaging and collaboration. Given the specific needs of each phase, there may be multiple deployment partners chosen for the project.

Additional Operating Impacts:

The annual licensing costs projected for the current year for 1400 M365 full users is \$553K. This could increase slightly as we may not contract for production usage in FY 2023 and the price could increase. If additional support is needed for the products- in the form of a management contract- that could also be an additional cost (we cannot predict if these services will be needed until we do the project).

Conformance with Plans, Policies, and Legal Obligations:

Proper information technology resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- M365 Assessment process completed (April-August 2022)
- RFP/Deployment partner selection (September 2022-February 2023) – current state-requirements development

Community Strategic Plan

Connect Roanoke County to the World

Establish strong communication and engagement strategies for all employees up, down and sideways

Responsive Service Delivery

Improve Communications and Data Technology in Both the Business Sector & in Residential Settings



Enterprise GIS Maps and Apps Upgrade

Department: Communications & Information Technology

Category: Replacement

Location: 5925 Cove Road, Roanoke, VA 24019

Est. Useful Life: 10 years

Magisterial District: Catawba

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33
Total Project Cost	700,000	0	400,000	300,000	0	0	0	0	0	0	0	0	700,000
Funding Sources													
Roanoke County - Unrestricted Cash	700,000	0	400,000	300,000	0	0	0	0	0	0	0	0	700,000
Total Funding Sources	700,000	0	400,000	300,000	0	0	0	0	0	0	0	0	700,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Enterprise GIS Maps and Apps Upgrade project will upgrade the GIS Applications used by the citizens and employees of the County of Roanoke. These applications empower end users to make better decisions by accessing the latest data using currently supported technology on any device. The proposed upgrade is dictated by the technical trajectory of the software vendor and a requirement to upgrade to ArcGIS Enterprise 11.0. The suite of applications is built on legacy technology and will not be supported into the future, requiring the applications to be updated.



Enterprise GIS Maps and Apps Upgrade (continued)

Project Description and Justification:

GIS Services launched the GIS Maps & Apps suite of solutions nearly 10 years ago with the introduction of the flagship OneView and Property Report applications, which were deeply integrated with an expanding set of thematically/functionally focused solutions designed to deliver targeted capabilities and support County business process. These solutions have been sustained for nearly a decade, a true achievement given the dynamics of the ever-changing technology landscape, but the underlying technical structure is now capped by diminished support and deprecation. Further, the ArcGIS Enterprise software supporting the GIS applications has advanced and evolved in new directions that require adjustments to both technology and workflow to persist the established capabilities, which will not be supported as currently deployed. The proposed approach will leverage a highly configurable Esri platform, which did not exist a decade ago, with complementary customizations to accommodate County requirements and user expectations.

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

Proper computer resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- A Planning & Analysis phase will launch the project lifecycle through communication centric activities in FY 2024.
- The Design phase will result in a document of functionality and architecture requirements prior to initiating application development in FY 2024.
- The Application Development phase will result in a fully-functional version of the applications that have undergone rigorous, incremental testing and Quality Assurance (QA) in FY 2025.
- GIS Services will complete testing and quality assurance for the applications in FY 2025.
- Upon successful completion of testing and QA phase, GIS Services will begin the implementation phase in FY 2025.

Community Strategic Plan

Connect Roanoke County to the World

Improve Communications and Data Technology in both the Business Sector & in Residential Settings



IT Infrastructure Replacement Plan

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	10,992,257	2,942,257	1,200,000	650,000	650,000	650,000	650,000	750,000	800,000	1,200,000	750,000	750,000	8,050,000
Funding Sources													
Roanoke County													
Unrestricted Cash	8,055,000	705,000	875,000	525,000	525,000	525,000	650,000	750,000	800,000	1,200,000	750,000	750,000	7,350,000
CommIT Fund Transfer	2,275,000	1,575,000	325,000	125,000	125,000	125,000	0	0	0	0	0	0	700,000
Communications Shop Fund													
Balance	225,000	225,000	0	0	0	0	0	0	0	0	0	0	0
FY 2019 Year End Allocation	250,000	250,000	0	0	0	0	0	0	0	0	0	0	0
FY 2021 Budget Amendment	187,257	187,257	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	10,992,257	2,942,257	1,200,000	650,000	650,000	650,000	650,000	750,000	800,000	1,200,000	750,000	750,000	8,050,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Beginning in FY 2018, the IT Infrastructure Replacement Plan became part of the 10-year CIP. The IT Infrastructure Replacement Plan supports maintenance and repairs to Roanoke County's network infrastructure, which are vital to supporting business operations. This system, comprised of thousands of individual components representing a multi-million-dollar investment, connects to every department throughout multiple County facilities, and supports Public Safety systems 24 hours a day / 7 days a week.



IT Infrastructure Replacement Plan (continued)

Project Description and Justification:

Maintaining this infrastructure life cycle is crucial to supporting our citizens and staff. Possible adverse effects of delaying this network infrastructure upgrade cycle include slowdown of 9-1-1 response times, the inability to store or back up critical business information, the reduction of security effectiveness, and the possible delayed or unavailable citizen or employee access to systems and data.

Additional funding has been included in FY 2024 and FY 2031 for Enterprise Storage Backup, which will replace the existing Compellent Storage Area Network and Rapid Recovery backup systems currently in place which have reached end of life. The Storage Area Network is the repository for all County electronic data. This system supports all applications and departments including public safety, revenue and tax systems, social services, email and all user electronic files. This replacement is scheduled for every seven years due to the ever-changing nature of technology and security.

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

Proper information technology resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- Program became part of the ten-year CIP beginning in FY 2018.
- Network infrastructure is a vital component for everyday business functions for all departments.
- Program will replace network infrastructure as necessary.
- Program received \$250,000 in FY 2019 year-end funds in addition to \$225,000 appropriated in FY 2020.
- FY 2021 Budget Amendment contributed \$187,257 to the project.

Community Strategic Plan

Connect Roanoke County to the World

Improve Communications and Data Technology in both the Business Sector & in Residential Settings



911 Phone and Radio Console Upgrade

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: No end of life

Magisterial District: Countywide

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33
Total Project Cost	125,000	0	0	125,000	0	0	0	0	0	0	0	0	125,000
Funding Sources													
Roanoke County Unrestricted Cash	125,000	0	0	125,000	0	0	0	0	0	0	0	0	125,000
Total Funding Sources	125,000	0	0	125,000	0	0	0	0	0	0	0	0	125,000
Operating Impacts			0	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	54,000



Project Summary:

The Phone/Radio Console expansion will extend the Emergency Communications Center “E911” Motorola MCC7500 Radio and Intrado Vyper 911 Phone Console system. The expansion will allow the communication of all 911 phone and radio traffic into the Astro 25 & Mobile Data networks. The expansion will provide E911 the ability to use external regional agencies and our partners as a backup. This will enable the public safety responders, aiding Roanoke County citizens and adjacent localities. The current hardware, VPM-Voice processing module, is now limited with only hardware support and repair through 2028 or while remaining inventory of parts are available. The newest generation radio & phone consoles do not have an end of life date.



911 Phone and Radio Console Upgrade (continued)

Project Description and Justification:

The Motorola MCC7500 and Intrado Vyper console systems have provided outstanding service and return on investment. The level of expectation in the mind of the citizen and the radio user is ever growing and the industry is rising to meet those demands. Phone and Radio Console positions must be computer based, up to date and capable of integrating and expanding to meet the challenges created by technology growth and be compatible with the commercial communication industry and its communication devices. The equipment will be called upon to receive greater amounts of data, such as pictures, text, video, interpret and display this data, and relay this data to units in the field. It will need to be compatible with other communication equipment, such as digital voice loggers, interoperable radio equipment and analog radio equipment.

Additional Operating Impacts:

Increase of SUA II to accommodate MCC7500E Console Expansion at \$6000 annually.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the stated mission of the Board of Supervisors to provide high quality services at reasonable costs to the citizens of Roanoke County.

Project Highlights and Key Milestones:

- Motorola MCC7500 Radio Consoles purchased in 2013 and Phone Intrado Phone positions in 2021 with the expected end of life to be FY 2028.
- Intrado Phone system was upgraded in 2021.
- Building out the last 2 positions will fully populate the remaining quad to allow City of Salem and City of Roanoke physical positions at our location as a backup.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



OTЕК Console Encryption Keying Upgrade

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

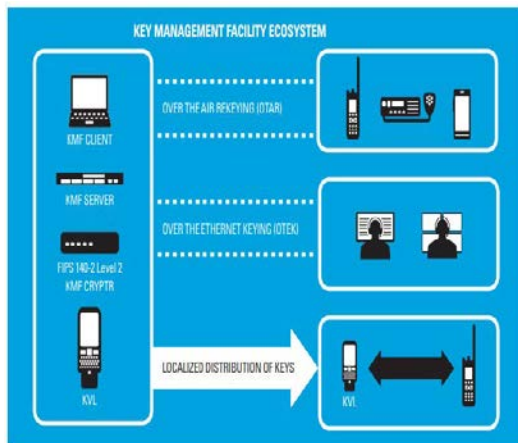
Est. Useful Life: 5 – 10 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33
Total Project Cost	100,000	0	0	100,000	0	0	0	0	0	0	0	0	100,000
Funding Sources													
Roanoke County - Unrestricted Cash	100,000	0	0	100,000	0	0	0	0	0	0	0	0	100,000
Total Funding Sources	100,000	0	0	100,000	0	0	0	0	0	0	0	0	100,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

This project will upgrade Emergency Communications “E911” Center radio consoles, allowing Ethernet keying, and will automatically update encryption keys in the radio consoles allowing operability with Roanoke City. The Motorola MCC7500 & MCC7500E console Radio system expansion allows communication radio traffic into the Astro 25 radio network. The 21-position upgrade provides Roanoke County Emergency Communications Center the ability to directly communicate with Roanoke City first responders and allows the County to be an operational back up for Roanoke City and other external regional agencies. The services of this system are used routinely in the daily operations providing 911 radio services.



OTЕК Console Encryption Keying Upgrade (continued)

Project Description and Justification:

Upgrading existing Motorola consoles and VPM's-voice processing modules will allow Roanoke County to be a backup Dispatch Center to communicate directly with Roanoke City's first responders directly and as a backup without interruption or manually trying to update encryption keys that will be done in a rotation cycle. MCC7500 stopped shipping in 2019 and service support ends December 2028. MCC7500E does not have a intend to cancel or end of life. Radio Console positions must be computer based, up to date, and capable of integrating and expanding to meet the challenges created by technology growth and be compatible with the commercial communication industry and its communication devices. The equipment will be called upon to receive greater amounts of data, such as pictures, text and video, interpret and display this data, and relay this data to units in the field. It will be compatible with other communication equipment, such as digital voice loggers, interoperable radio equipment and analog radio equipment

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

Proper computer resources are necessary to the functions of all Roanoke County departments.

Project Highlights and Key Milestones:

- Current Radio Consoles purchased in 2013
- Expected end of life for current system is FY 2028
- MCC7500E does not have a current end of life is the latest full feature inclusive public safety phone and radio console
- Adding OTEK will automatically to allow Salem and City of Roanoke Physical positions at our location as a backup as in our MOU with Salem & Roanoke City allows Roanoke County fully functionality additional operation positions without impairment to our needs based on full staffing during an emergency

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Roanoke Valley Radio System Hardware Upgrade

Department: CommIT – 9-1-1

Category: Replacement

Location: Countywide

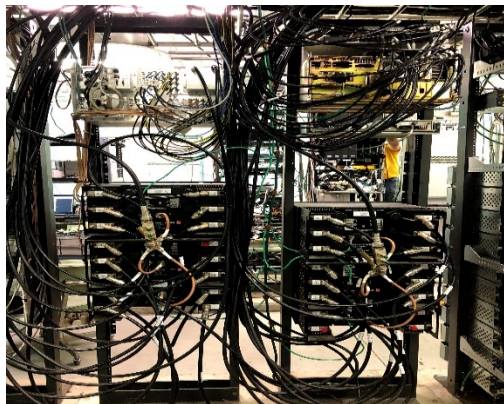
Est. Useful Life: 20 years

Magisterial District: Countywide

Project Status: New

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	2,500,000	0	0	2,500,000	0	0	0	0	0	0	0	0	2,500,000
Funding Sources													
Roanoke County													
Unrestricted Cash	1,250,000	0	0	1,250,000	0	0	0	0	0	0	0	0	1,250,000
Contribution from City of Roanoke	1,250,000	0	0	1,250,000	0	0	0	0	0	0	0	0	1,250,000
Total Funding Sources	2,500,000	0	0	2,500,000	0	0	0	0	0	0	0	0	2,500,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Roanoke County and the City of Roanoke share the voice and data infrastructure referred to as the Roanoke Valley Radio System. The tower site mountain top RF equipment for the P25 voice infrastructure is located in the Public Safety Building in Roanoke County. There are four repeater sites for the P25 voice infrastructure including: Fort Lewis Mountain, Poor Mountain, Crowell's Gap and Mill Mountain. There are 5800 active users on the twenty-two-channel voice-radio system as of today. The City of Roanoke is expanding the current system from 22 to 28 channels by bringing the remaining analog users onto the digital platform. The analog designed TX RX infrastructure is long overdue to be updated and replaced with a design and material to match the newer P25 digital technology that we are using today.



Roanoke Valley Radio System Hardware Upgrade (continued)

Project Description and Justification:

The RF transmit and receive antennas, transmit combiners, and receive multi couplers technology was designed and installed in 1992 & 1996 with Motorola's SmartNet analog equipment. Transmit antennas have been installed since 1992 and have had a couple of failures over the last few years. Tower top amps are of the old fixed gain variety and nonadjustable. Mill Mountain was installed in 1996. The transmit antennas at Crowell's Gap, Poor Mountain, and Fort Lewis were replaced with 3 new antennas per site rated for 25 kW of Peak Instantaneous Power (PIP). Expansion will provide for the capability of future growth and the addition of channels and frequencies.

This project will update and replace all transmit & receive antennas, transmission lines at the four RF sites; replace the tower top amps, multi couplers and receive cabling with the latest design. It will also ensure compliance with the latest standards in hardware, manufacturing and system designed components. This would enable the Roanoke Valley Radio System to operate the replaced fixed RF additional TXRX equipment for an additional 15-20 years. Upgrading the 4 towers to accommodate and meet the latest version will ensure that the towers comply with the latest standards.

Additional Operating Impacts:

There will be additional operating impacts related to the Motorola Annual Maintenance after the upgrade; however, the amount is unknown at this time. Also, the cost would be divided amongst the other radio partners.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the stated mission of the Board of Supervisors to provide high quality services at reasonable costs to the citizens of Roanoke County.

Project Highlights and Key Milestones:

- 1992 Transmit antennas installed.
- 1996 Mill Mountain Transmit antenna installed.
- The system is beginning to fail periodically.
- Parts for the system are no longer being produced.

Community Strategic Plan

Ensure Citizen Safety

Public Safety Facilities & Equipment



Rural Broadband Initiative

Department: Communications & Information Technology

Category: New Facilities

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	6,112,819	6,112,819	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County Unrestricted Cash	400,000	400,000	0	0	0	0	0	0	0	0	0	0	0
Allocation of FY 2019 Year End													
Funding	200,000	200,000	0	0	0	0	0	0	0	0	0	0	0
FY21 Unallocated General Funds	1,886,030	1,886,030	0	0	0	0	0	0	0	0	0	0	0
Fast Track Broadband Program Grant	976,380	976,380	0	0	0	0	0	0	0	0	0	0	0
Transfer from Capital	200,000	200,000	0	0	0	0	0	0	0	0	0	0	0
ARPA Funds	2,450,409	2,450,409	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	6,112,819	6,112,819	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Rural Broadband Initiative project improves communication and data technology in both the business sector and in residential settings. The County collected survey data to identify areas where citizens either do not have or have inadequate internet service. The County has used this data to seek public-private partnerships and grants.



Rural Broadband Initiative (continued)

Project Description and Justification:

The Rural Broadband Initiative project improves communication and data technology in both the business sector and in residential settings. Using survey data to identify areas where citizens either do not have or have inadequate internet service, the County developed a multi-year plan, using funding from sources such as the Virginia Telecommunications Initiative (VATI) Grant, Coronavirus Aid, Relief, and Economic Security (CARES) Act, American Rescue Plan Act (ARPA) and the Governor's Fast Track Funding to complete broadband projects throughout the County. The County was awarded 4 VATI Grants in 2022 and is currently working to complete projects in the identified areas, using grant funding along with both vendor and local matching funds that include ARPA funding.

With the demand for broadband connectivity higher than ever these investments have a significant impact on economic development by increasing options for residents to engage in virtual learning, access to telehealth, and telework. These projects also allow opportunities for more home-based businesses to thrive.

Additional Operating Impacts:

No additional operating impacts are anticipated.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to the Community Strategic Plan's Initiative to Connect Roanoke County to the World. Improving broadband availability to the business community and improving wireless connectivity in residential areas will be pursued to ensure Roanoke County's economic future.

Community Strategic Plan

Connect Roanoke County to the World

Improve Communications and Data Technology in Both the Business Sector and in Residential Settings

Project Highlights and Key Milestones:

- Roanoke County began collecting survey data in December 2019 to identify areas that are under-served and not served by high-speed internet.
- In December 2019, the Board of Supervisors allocated \$200,000 from FY 2019 year-end funds.
- CIP funding of \$100,000 in FY 2021 and \$300,000 in FY 2022 increased the amount for a grant match.
- Roanoke County received \$976,380 from the Governor's Fast Track Broadband Program in November 2020 and completed two projects.
- Using CARES Act funding, five projects are in progress with two projects completed.
- Partnering with Franklin County, Roanoke County pledged \$40,000 towards a 2022 VATI Submission
- Partnered with Cox Communications, B2X On-line, Craig Botetourt Electric Coop, and Shentel on a 2022 VATI Application, which was approved.



Global Payroll Module

Department: Human Resources and Finance and Management Services

Category: Replacement

Location: Countywide

Est. Useful Life: 15 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24 - FY 33	Total
Total Project Cost	3,514,809	2,514,809	1,000,000	0	0	0	0	0	0	0	0	0	0	1,000,000
<u>Funding Sources</u>														
Roanoke County -														
Unrestricted Cash	1,856,789	1,356,789	500,000	0	0	0	0	0	0	0	0	0	0	500,000
Transfer from Schools	1,658,020	1,158,020	500,000	0	0	0	0	0	0	0	0	0	0	500,000
Total Funding Sources	3,514,809	2,514,809	1,000,000	0	0	0	0	0	0	0	0	0	0	1,000,000
Operating Impacts			90,177	92,882	95,669	98,539	101,495	104,540	107,676	110,906	114,234	117,661		1,033,778



Project Summary:

The Human Resources (HR) and Payroll project, with funding from prior years and in FY 2024, will further invest in the current Human Resources and Payroll system, Infor/Lawson. This project will also migrate the current modules utilized by the County of Roanoke, Roanoke County Schools, and the Western Virginia Regional Jail Authority to the new platform, Infor/Lawson CloudSuite HCM and Payroll. The current HR and Payroll systems will be decommissioned in the near future and require migration to the new platform. Project costs are shared with Roanoke County Schools.



Global Payroll Module (continued)

Project Description and Justification:

The Human Resources (HR) & Payroll project, will require an additional investment in the Infor/Lawson HR and Payroll systems. The HR and Payroll systems will be decommissioned and require migration to a new platform. These systems also require compatibility with the Dynamics D365 financial system. Infor/Lawson CloudSuite HCM and Payroll will provide required platform changes and needed functionality. The modules that will be acquired with this project include Global HR, Performance and Goals, Talent Acquisition, and Global Payroll. HR and Payroll will be upgraded to the Global HR module with this project. Project costs are shared with Roanoke County Public Schools.

Additional Operating Impacts:

This project will migrate Infor/Lawson from a hosted solution to software as a service and will impact the operating budget. There will be an estimated recurring impact on the County's operating budget of \$90,177, with inflation added for future years.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms with the Board of Supervisors stated mission to provide high quality delivery of services to the citizens of Roanoke County. It will provide daily support to the operations and functions of all County departments and will allow County Administration to have real time financial data available which is instrumental in making informed decisions while anticipating future needs.

Project Highlights and Key Milestones:

- The County has been using the current human resources and payroll software since 1999.
- Current platform of Infor/Lawson is being decommissioned.
- Initial planning began in FY 2017 for the HR and Payroll Modules.
- The first phase of implementation of the HR and Payroll system began in September 2018 and was completed in Spring 2020.
- Talent Acquisition phase began in FY 2022.
- Migration to Infor's CloudSuite payroll platform planned to begin in 2024.
- Costs are shared with Roanoke County Schools.

Organizational Strategic Plan

Responsive Service Delivery

Develop a Strategy to Streamline Processes and Services



Voting Machine Replacement

Department: Elections
Location: Countywide
Magisterial District: Countywide

Category: Replacement
Est. Useful Life: 5-10 years
Project Status: Planned

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	425,000	0	425,000	0	0	0	0	0	0	0	0	0	425,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	425,000	0	425,000	0	0	0	0	0	0	0	0	0	425,000
Total Funding Sources	425,000	0	425,000	0	0	0	0	0	0	0	0	0	425,000
Operating Impacts			0	18,100	18,643	19,202	19,778	20,372	20,983	21,612	22,261	22,929	183,880



Project Summary:

The Voting Machine Replacement project, planned in FY 2024, will replace Roanoke County's existing voting equipment, the Unisyn OpenElect Voting Optical Scan (OVO) and OpenElect Voting Optical Interface (OVI), initially acquired in 2015. These machines will reach the end of their useful life within 10 years of use. Funding required to replace these systems is anticipated to be \$425,000, and equipment needs will be evaluated closer to the planned funding year.



Voting Machine Replacement (continued)

Project Description and Justification:

The Voting Machine Replacement project, planned in FY 2024, will replace Roanoke County's existing voting equipment, the Unisyn OpenElect Voting Optical Scan (OVO) and OpenElect Voting Optical Interface (OVI), initially acquired in 2015. These machines will reach the end of their useful life within 10 years of use. Funding required to replace these systems is anticipated to be \$425,000, and equipment needs will be evaluated closer to the planned funding year. Any new equipment purchased would require to be certified by the US Election Assistance Commission (EAC) and the Virginia Department of Elections.

Additional Operating Impacts:

The department currently spends \$18,080 on hardware warranties and firmware for voting equipment. Potential savings or increases will be determined closer to the planned year of funding.

Conformance with Plans, Policies, and Legal Obligations:

Equipment must be certified by the U.S. Election Assistance Commission, meet requirements set forth in Virginia Code, and by the Virginia Department of Elections/State Board of Elections.

Project Highlights and Key Milestones:

- Roanoke County's existing voting equipment was acquired in 2015, with a maximum useful life of 10 years.
- Replacement of systems is planned for FY 2024 with \$425,000 in funding.
- Any new equipment would be certified by the EAC and the Virginia Department of Elections.

Community Strategic Plan

Responsive Service Delivery

Enhance Partnerships with citizens that promote shared responsibility

Promote Neighborhood Connections

Accessibility of Services for All Populations



County-wide Library Public Computer Replacement Plan

Department: Library

Category: Replacement

Location: County-wide

Est. Useful Life: 5 years

Magisterial District: County-wide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	1,006,000	216,000	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Funding Sources													
Roanoke County - Unrestricted Cash	1,006,000	216,000	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Total Funding Sources	1,006,000	216,000	50,000	100,000	100,000	65,000	75,000	80,000	80,000	80,000	80,000	80,000	790,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

As public use library computers reach the end of their life spans, the County-wide Library Public Computer Replacement Plan ensures that adequate computer resources are available to the community. This plan established a five-year public computer replacement cycle, allowing the Library to maintain the technological requirements needed to run current and future software, and security programs. On a rotating five-year cycle, all public use computers will be replaced by branch. Funding for this project has been extended through the ten-year plan and will be evaluated annually based on technology and individual branch needs.



County-wide Library Public Use Computer Replacement Plan (continued)

Project Description and Justification:

The County-wide Library Public Computer Replacement Plan will replace aging public computers at all six branch libraries over a five-year cycle. As computers reach the end of their life span, funding is required for replacement.

This plan will replace all library public use computers with planned replacement at various branches each year. Under this program, the Library will streamline specification, acquisition, and deployment of new equipment and disposal of old equipment. Software and hardware will be updated to the most recent versions ensuring the public will have adequate computing power to meet the requirements of future software and security programs.

Additional Operating Impacts:

There are no anticipated operating impacts.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to the Roanoke County Community Strategic Plan to promote lifelong learning and to position the County for future economic growth. It also ensures equipment is up to date.

Project Highlights and Key Milestones:

- Implements replacement plan to match anticipated 5-year useful life.
- Improves acquisition and disposal of outdated equipment.
- Plan ensures public computers will run up-to-date security and software programs.
- Plan includes funding for Microsoft Office on each computer.
- Plan includes funding for additional software packages.

Community Strategic Plan

Promote Lifelong Learning

Position Roanoke County for Future Economic Growth

"K to Gray" Continuum of Educational Resources

Workforce Development/ Technical Education





Transportation





County of Roanoke, Virginia FY 2024 – FY 2033 Proposed Capital Improvement Program Transportation Summary

Note: Projects with \$0 in FY 2024-2033 are active projects that have been fully funded in prior fiscal years.

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Transportation											
Planning											
VDOT Revenue Sharing Program	\$250,000	\$300,000	\$550,000	\$450,000	\$450,000	\$650,000	\$750,000	\$500,000	\$650,000	\$500,000	\$5,050,000
Glade Creek Greenway at Vinyard Park West	0	0	0	0	0	0	0	0	0	0	0
Williamson Road Pedestrian Improvements	0	0	0	0	0	0	0	0	0	0	0
Buck Mountain/ Starkey Rd Intersection	0	0	0	0	0	0	0	0	0	0	0
<i>Planning Total</i>	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
Parks and Recreation											
East Roanoke River Greenway	250,000	0	0	0	0	0	0	0	0	0	250,000
West Roanoke River Greenway	0	0	0	0	0	0	0	0	0	0	0
<i>Parks and Recreation Total</i>	250,000	0	0	0	0	0	0	0	0	0	250,000
Transportation Total	\$500,000	\$300,000	\$550,000	\$450,000	\$450,000	\$650,000	\$750,000	\$500,000	\$650,000	\$500,000	\$5,300,000



VDOT Revenue Sharing Program

Department: Planning

Location: Countywide

Magisterial District: Countywide

Category: Replacement

Est. Useful Life: Varies

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	6,015,000	965,000	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	6,015,000	965,000	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
Total Funding Sources	6,015,000	965,000	250,000	300,000	550,000	450,000	450,000	650,000	750,000	500,000	650,000	500,000	5,050,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Revenue Sharing Program provides additional funding for use by Roanoke County to construct, reconstruct, improve or maintain the VDOT secondary or primary highway system. Locality funds are matched with 50 percent state funds. The program is administered by VDOT in cooperation with participating localities. Construction may be accomplished by VDOT, or by Roanoke County under agreement with VDOT. The VDOT Revenue Sharing Program is on a two-year cycle with the next applications due in Summer 2023.



VDOT Revenue Sharing Program (continued)

Project Description and Justification:

The Revenue Sharing Program provides additional funds which expedite needed roadway and safety improvements. Locality funds are matched with 50% state funds. An annual allocation of funds for this program is designated by the Commonwealth Transportation Board. Application for program funding must be made by resolution of the Board of Supervisors. Projects are classified and prioritized for funding: Priority 1 – Construction projects that have previously received Revenue Sharing funding; Priority 2 – Construction projects that meet a transportation need identified in the Statewide Transportation Plan (VTRANS) or projects that will be in a locality's Capital Plan; Priority 3 – Projects that address deficient pavement resurfacing and bridge rehabilitation; Priority 4 – Other eligible projects that do not fall into the other priorities. One or more potential projects for application in 2023 include: Roanoke River Greenway through Explore Park; Orange Market Park and Ride/Parking Lot Improvements; West Roanoke River Greenway, Phase 2; Glade Creek Greenway, Phase 5; Railroad Crossing Elimination Grant Program Match for Construction of a Grade-Separated Crossing in the Bonsack Area; Carson Road Safety Improvements; Brambleton Avenue Pedestrian Safety Improvements.

Additional Operating Impacts:

This program is administered by existing County staff, so there are no additional operating costs associated with administration. Maintenance costs for future projects are unknown until the scope of the project is finalized.

Conformance with Plans, Policies, and Legal Obligations:

The Revenue Sharing Program is identified in Chapter 4 of the Roanoke County Community (Comprehensive) Plan. One of the objectives of the Plan is to continue to maintain and update Secondary and Primary road improvement plans based on consistent policies and criteria.

Project Highlights and Key Milestones:

- The County has leveraged tens of millions of state dollars for roadway and drainage improvements since 1988.

Recent projects completed include:

- Fallowater Lane Extension
- West Main Street Pedestrian Improvements
- Huffman Lane Reconstruction

Project(s) Underway Include:

- Buck Mountain Rd/Starkey Rd Intersection Improvements*

Construction Anticipated in 2025:

- Dry Hollow Road Safety Improvements

*Denotes a stand-alone project included in this document

Community Strategic Plan

Promote Neighborhood Connections

Encourage a Multi-Modal Transportation Network



Glade Creek Greenway at Vineyard Park West

Department: Planning

Category: New Facilities Est.

Location: Vineyard Park West

Useful Life: 30 Years Project

Magisterial District: Vinton Magisterial District

Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	130,275	130,275	0	0	0	0	0	0	0	0	0	0	0
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	130,275	130,275	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	130,275	130,275	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

This project provides a twenty (20) percent local match to construct Phase 4 of the Glade Creek Greenway along Glade Creek through Vineyard Park West, from the Berkley Road parking lot to the western edge of the park located in the Town of Vinton.



Glade Creek Greenway at Vineyard Park West (continued)

Project Description and Justification:

The ten-foot-wide asphalt bicycle and pedestrian trail will begin at the parking lot adjacent to Berkley Road and will continue west for approximately one-half mile along Glade Creek past athletic fields and another parking lot to the edge of the park, which is located in the Town of Vinton.

Additional Operating Impacts:

Once constructed, the Glade Creek Greenway will need to be maintained as an additional facility in Vinyard Park West.

Conformance with Plans, Policies, and Legal Obligations:

The Glade Creek Greenway is identified in the 2018 Roanoke Valley Greenway Plan, the 2005 Roanoke County Comprehensive Plan, the 2010 Vinton Area Corridors Plan and other regional plans.

Project Highlights and Key Milestones:

- Two separate Glade Creek Stream Restoration projects have been completed which created a bench for the proposed greenway
- The Town of Vinton opened Phase I of the Glade Creek Greenway in 2018 and Phase 2A in 2021.
- Transportation Alternatives funding was awarded in June 2022.

Community Strategic Plan

Keep Roanoke County Healthy, Clean, and Beautiful

Promote Neighborhood Connections

Outdoor Recreation & Natural Resources

Encourage a Multi-Modal Transportation Network



Williamson Road Pedestrian Improvements

Department: Planning

Location: Williamson Road, Roanoke, VA

Magisterial District: Hollins Magisterial District

Category: New Facilities

Est. Useful Life: 30 years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	275,000	275,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Corridor Improvement Fund	55,000	55,000	0	0	0	0	0	0	0	0	0	0	0
Transportation Alternatives Grant	220,000	220,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	275,000	275,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Williamson Road Pedestrian Improvement project will complete a vital missing link in the pedestrian network between existing and planned accommodations in the Hollins area including the Plantation Road Bicycle, Pedestrian and Streetscape Improvement Project. This project connects to existing pedestrian crosswalks and signals at the Williamson Road/Plantation Road intersection, existing sidewalk on the north side from Plantation Road to Marson Road, existing sidewalk on the south side from Plantation Road to Hollins Court Drive, proposed pedestrian crosswalks and signals at the Peters Creek Road intersection, and pedestrian safety improvements in design for the west side of Williamson Road between Peters Creek Road and North Roanoke Assisted Living.



Williamson Road Pedestrian Improvements (continued)

Project Description and Justification:

The Williamson Road Pedestrian Improvement project will construct sidewalks along the north side of Williamson Road between Peters Creek Road and Plantation Road. This project will complete a vital missing link in the pedestrian network between existing and planned accommodations in the Hollins area. The original project cost was \$275,000, which was funded by \$55,000 in Corridor Improvement Project funds and \$220,000 in a Transportation Alternatives Grant in FY 2018. Transportation Alternatives Grant projects are locally administered, however, after surveying this project and an adjoining project to the south, VDOT will administer both projects. Total project costs increased to \$1.9 million due to ADA requirements and Roanoke County applied for SMART SCALE funds of \$1.66 million, which was awarded in June 2019.

Funding for this project reflects amounts appropriated and may not match actual amounts reflected in Appendix D: VDOT Transportation Projects. At the completion of the project, any remaining funding will be distributed per the County's Comprehensive Financial Policy.

Operating Budget, Cost, and Efficiency Impact:

Roanoke County will see minimal operating impact limited to routine maintenance of the sidewalk facility once constructed which is anticipated to be absorbed within the existing operating budget.

Conformance with Plans, Policies, and Legal Obligations:

This project continues to implement the Hollins Area Plan (2008) and the Hollins Center Plan (2020), which are both components of the 2005 Roanoke County Community Plan. This project is also identified as a high priority in the 2015 Regional Pedestrian Vision Plan.

Project Highlights and Key Milestones:

- Project identified as a high priority in the 2015 Regional Pedestrian Vision Plan.
- Transportation Alternatives Set-Aside funding awarded in June 2017.
- VDOT agreed to administer the project in 2018.
- SMART SCALE funding awarded in June 2019.
- Preliminary Engineering phase began in Summer 2019.
- Construction is anticipated to begin in FY 2024.

Community Strategic Plan

Promote Neighborhood Connections

Connect Roanoke County to the World

Plan for Mixed Use Development and Redevelopment Opportunities

Encourage a Multi-Modal Transportation Network

Support Improvements to the Regional Transportation Network



Buck Mountain Rd / Starkey Rd Intersection Improvements

Department: Planning

Category: New Facilities

Location: Buck Mountain Road / Starkey Road

Est. Useful Life: 30 years

Magisterial District: Cave Spring

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	580,000	580,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Private Capital Contributions	80,000	80,000	0	0	0	0	0	0	0	0	0	0	0
Roanoke County - Unrestricted Cash	450,000	450,000	0	0	0	0	0	0	0	0	0	0	0
Prior VDOT Revenue Sharing Funds	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	580,000	580,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Buck Mountain Road and Starkey Road Intersection Improvements will reconstruct the existing intersection from a "T" to a roundabout with pedestrian accommodations. The need for this improvement project is based on a Traffic Analysis Report conducted by the Virginia Department of Transportation (VDOT) in April 2013. A survey of the intersection was completed in 2017. VDOT is administering this project and the Preliminary Engineering phase began in 2019 with \$3.2 million in project funds. The project estimate increased in 2020 to approximately \$5.9 million. \$2.6 million in SMART SCALE funding was awarded in 2021 to eliminate the project deficit. As this is a VDOT-administered project, VDOT funding does not require appropriation.



Buck Mountain Rd / Starkey Rd Intersection Improvements (continued)

Project Description and Justification:

The project includes reconstruction of the existing three-way, un-signalized intersection at Buck Mountain Road and Starkey Road. A 2013 VDOT traffic analysis recommended improvements to the intersection if traffic conditions changed as a result of land development. With the development of property near this intersection, the County is now pursuing options to improve traffic flow.

The cost estimate for the project is currently \$5.9 million and the project is administered by VDOT. In January 2017, the Board of Supervisors accepted a rezoning proffer in the amount of \$80,000, to help offset potential traffic impacts from new development. Revenue Sharing Program funds (\$573,278) were allocated in FY 2019 and FY 2020, with a County match of \$500,000. In FY 2020, Regional Surface Transportation Program funds (\$2.1 million) were allocated. \$2.6 million in SMART SCALE funding was awarded in 2021 to eliminate the remaining project deficit. \$13,000 will be allocated in FY 2023 through the VDOT Secondary Six Year Plan.

Funding for this project reflects amounts appropriated and may not match actual amounts reflected in Appendix D: VDOT Transportation Projects. At the completion of the project, any remaining funding will be distributed per the County's Comprehensive Financial Policy.

Additional Operating Impacts:

The proposed improvements are to the VDOT Secondary System. VDOT will assume maintenance of any new intersection improvements when complete.

Conformance with Plans, Policies, and Legal Obligations:

This project is in conformance with the Roanoke County Comprehensive Plan (2005). The Transportation element of the plan includes long range plans for highway improvements. Both Buck Mountain Road and Starkey Road, through their intersection, are listed for improvements.

Project Highlights and Key Milestones:

- A rezoning cash proffer of \$80,000, to improve the intersection, was accepted by the Board of Supervisors in January 2017.
- A survey of the area was completed in August 2017.
- Preliminary engineering phase began in September 2019.
- Project estimate increase necessitated submitting a SMART SCALE application in August 2020.
- VDOT initiated virtual public engagement and posted a Willingness to Hold a Public Hearing in October 2020.
- Right of Way phase began in Spring 2021 with utility relocation following in 2022.
- Construction began in 2023.

Community Strategic Plan

Promote Neighborhood Connections

Position Roanoke County for Future Economic Growth

Encourage a Multi-Modal Transportation Network

Infrastructure & Site Development



East Roanoke River Greenway Extension

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: Roanoke City to Explore Park

Est. Useful Life: 25-50 years

Magisterial District: Vinton

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	12,477,754	12,227,754	250,000	0	0	0	0	0	0	0	0	0	250,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	853,000	603,000	250,000	0	0	0	0	0	0	0	0	0	250,000
Federal Lands Access Program													
Grant	1,387,000	1,387,000	0	0	0	0	0	0	0	0	0	0	0
Regional Surface Transportation													
Program Grant	8,878,148	8,878,148	0	0	0	0	0	0	0	0	0	0	0
Prior Federal Transportation													
Funds	773,000	773,000	0	0	0	0	0	0	0	0	0	0	0
Transportation Alternatives	566,606	566,606	0	0	0	0	0	0	0	0	0	0	0
Private Capital Contributions	20,000	20,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	12,477,754	12,227,754	250,000	0	0	0	0	0	0	0	0	0	250,000
Operating Impacts			13,261	13,659	14,069	14,491	14,925	15,373	15,834	16,309	16,799	17,303	152,023



Project Summary:

The East Roanoke River Greenway project constructs an additional 6 miles of greenways and trails within Roanoke County's Parks system. The Roanoke River Greenway is identified as the number one priority in the Roanoke Valley Greenway Plan. The Roanoke River Greenway is the region's #1 greenway, a 10' paved, bicycle/pedestrian accessible shared use trail, with over 14 miles completed in the Roanoke Valley. Construction of these off-road sections will significantly improve safety for bicyclists, pedestrians and motorists and will connect the urbanized areas in the Roanoke Valley to the Blue Ridge Parkway and Explore Park in eastern Roanoke County. In addition to the Roanoke River Greenway being the priority greenway for the region, it is considered a critical component of economic development and tourism initiatives. This project addresses the community desire to increase the number of accessible and conveniently located greenways and trails available to citizens. The project will provide a safe and healthy environment for walkers, joggers, hikers, strollers and bike riders of all ages.



East Roanoke River Greenway Extension (continued)

Project Description and Justification:

The extension of the Roanoke River Greenway from Roanoke City to Explore Park will add approximately 6 miles to the Roanoke Valley greenway network. The project is broken into four sections and is funded through federal and state funding programs: VDOT UPC # 91191, VDOT UPC # 113356, VDOT UPC # 110155 and VDOT UPC #113567. These sections are further detailed in Appendix D: VDOT Transportation Projects.

Additional Operating Impacts:

After project completion, funding will be required to maintain the greenway. An estimate of \$13,261 annually is included for planning purposes, increasing annually based on inflation and increased material costs.

Conformance with Plans, Policies, and Legal Obligations:

Completion of the Roanoke River Greenway is the top regional priority identified in the 1995 Roanoke Valley Greenway Plan, updated in 2007 and 2018. This project is consistent with the 2007 Comprehensive Master Plan for Park and Facilities.

Project Highlights and Key Milestones:

- In 2013, Roanoke County entered a 99-year lease agreement with the VRFA for operation and development of Explore Park.
- In 2014, Roanoke County reopened 14 miles of trail and river access at Explore Park.
- In 2017, Roanoke County received \$1.38 million in Federal Lands Access Program (FLAP) funding from Eastern Federal Lands Highway Division (EFLHD) to design and construct the East Roanoke River Greenway.
- Roanoke County has been awarded over \$8.8 million from VDOT through the Regional Surface Transportation Program to extend the Roanoke River Greenway through Explore Park to Rutrough Road.

Community Strategic Plan

Promote Neighborhood Connections

Keep Roanoke County Healthy, Clean and Beautiful

Encourage a Multi-Modal Transportation Network

Outdoor Recreation & Natural Resources



West Roanoke River Greenway Extension

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: Green Hill Park to Riverside Park

Est. Useful Life: 25-50 years

Magisterial District: Catawba Magisterial District, City of Salem

Project Status: Active

Financial Summary

	Total Cost	Through FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	Total FY 24 - FY 33
Total Project Cost	8,032,031	8,032,031	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Highway Safety Improvement													
Program	499,166	499,166	0	0	0	0	0	0	0	0	0	0	0
Regional Surface Transportation													
Program	2,990,760	2,990,760	0	0	0	0	0	0	0	0	0	0	0
SMART Scale Funding	4,542,105	4,542,105	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	8,032,031	8,032,031	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			10,300	10,609	10,927	11,255	11,593	11,941	12,299	12,668	13,048	13,439	118,078



Project Summary:

The West Roanoke River Greenway Extension Projects includes the addition of approximately 1.4 miles to the Roanoke Valley greenway network from Green Hill Park in Roanoke County to Riverside Park in the City of Salem. Roanoke County is responsible for administration of the project with oversight from the Virginia Department of Transportation (VDOT) and collaboration with the City of Salem. The project is financed by federal and state funding for design and construction of the project. Preliminary engineering for the project is complete, pending approval of environmental permits from federal and state agencies. Right-of-way negotiations are underway with landowners.



West Roanoke River Greenway Extension (continued)

Project Description and Justification:

The West Roanoke River Greenway project constructs 1.4 miles of Roanoke River Greenway in Roanoke County and the City of Salem, from Green Hill Park upstream of Diuguids Lane to Riverside Park, downstream of Mill Lane. The Roanoke River Greenway is a 10' paved, bicycle/pedestrian, shared use trail, with over 14 miles completed. Construction of this off-road section will significantly improve safety for bicyclists, pedestrians and motorists and will connect residential areas to an industrial center. As a priority greenway for the region, the Roanoke River Greenway is considered a critical component of economic development initiatives.

This section of greenway will include two bridges across the Roanoke River, a separated grade crossing at Diuguids Lane, an at-grade crossing at Mill Lane, and a retaining wall structure along the Roanoke River below West Riverside Drive. VDOT has completed a Value Engineering Analysis of the project. The Pathfinders for Greenways, a non-profit supporting regional trails and greenways, have approved up to \$350,000 in private donations for the right-of-way phase of the project.

Additional Operating Impacts:

After project completion, funding will be required to maintain the greenway. Staff has calculated a rough estimate of \$10,000 for maintenance increasing annually by inflation. The City of Salem and Roanoke County have agreed to share the maintenance and inspection costs of the two bridges that will span the Roanoke River.

Conformance with Plans, Policies, and Legal Obligations:

Completion of the Roanoke River Greenway is the top regional priority identified in the 1995 Roanoke Valley Greenway Plan, updated in 2007 and 2018. This project is consistent with the goals, objectives, and policies of the 2007 Comprehensive Master Plan for Park and Facilities and the 2012 Glenvar Community Plan. Support of the greenway is also incorporated into several regional strategic and transportation plans.

Project Highlights and Key Milestones:

- In 2010, the Board of Supervisors approved the appropriation of \$3,499,166 in federal Open Container funds; \$3,000,000 of the funds were transferred to another project.
- In 2015, the Board of Supervisors approved the appropriation of \$2,990,760 in Regional Surface Transportation Program funds.
- In 2015, the Board of Supervisors supported a regional grant application requesting \$4,542,105 in SMART SCALE funds that was approved in 2016.
- Pathfinders for Greenways approved \$350,000 in private donations to complete the right-of-way phase of this project.
- In 2022, VDOT approved phasing the project to advance Phase I to construction in 2023-2024.

Community Strategic Plan

Position Roanoke County for Future Economic Growth

Keep Roanoke County Healthy, Clean and Beautiful

Infrastructure & Site Development

Outdoor Recreation & Natural Resources





Roanoke County Public Schools





County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Roanoke County Public Schools Summary

Category/Department/Project	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 24-33 Total
Roanoke County Public Schools											
Schools											
Burton Center for the Arts & Technology	27,257,453	53,864,255	0	0	0	0	0	0	0	0	\$81,121,708
Capital Maintenance Program	\$1,250,000	\$1,500,000	\$1,750,000	\$2,000,000	\$2,250,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$2,500,000	\$21,250,000
HR Payroll and Software System	500,000	0	0	0	0	0	0	0	0	0	\$500,000
WE Cundiff Elementary	0	23,764,119	0	0	0	0	0	0	0	0	\$23,764,119
Glen Cove Elementary	0	23,764,120	0	0	0	0	0	0	0	0	\$23,764,120
Northside Middle	0	0	1,418,764	1,440,255	21,427,693	1,319,325	13,537,963	0	0	0	\$39,144,000
Hidden Valley Middle	0	0	0	0	0	0	0	9,660,036	600,000	20,600,000	\$30,860,036
Glenvar Elementary	0	0	0	0	0	0	7,066,024	10,943,976	0	0	\$18,010,000
Schools Total	29,007,453	102,892,494	3,168,764	3,440,255	23,677,693	3,819,325	23,103,987	23,104,012	3,100,000	23,100,000	238,413,983
Total, Roanoke County Public Schools Projects	\$29,007,453	\$102,892,494	\$3,168,764	\$3,440,255	\$23,677,693	\$3,819,325	\$23,103,987	\$23,104,012	\$3,100,000	\$23,100,000	\$238,413,983



Roanoke County Public Schools

FY 2024 – FY 2033 Capital Improvement Program Overview

As part of the Adopted FY 2024-2033 Capital Improvement Program (CIP), projects approved by the Roanoke County Public Schools (RCPS) School Board are included in the ten-year plan. This section contains summary information on the RCPS ten-year CIP. The Roanoke County School Board approved their ten-year CIP on April 20, 2023. Additional RCPS CIP information can be found on the RCPS website as part of the April 20, 2023 School Board meeting.

Roanoke County Public Schools Projects Summary

The RCPS adopted fiscal year 2024-2033 CIP includes \$238.41 million in projects and funding sources. The plan includes \$21.25 million (\$1.25 million in FY 2024) for the RCPS Capital Maintenance Program to address smaller capital needs across all RCPS facilities. The plan also includes \$0.50 million for the RCPS share of an updated Human Resources and Payroll system (FY 2024). The balance of funding (\$216.66 million) is planned for projects at specific facilities throughout the County. These projects include:

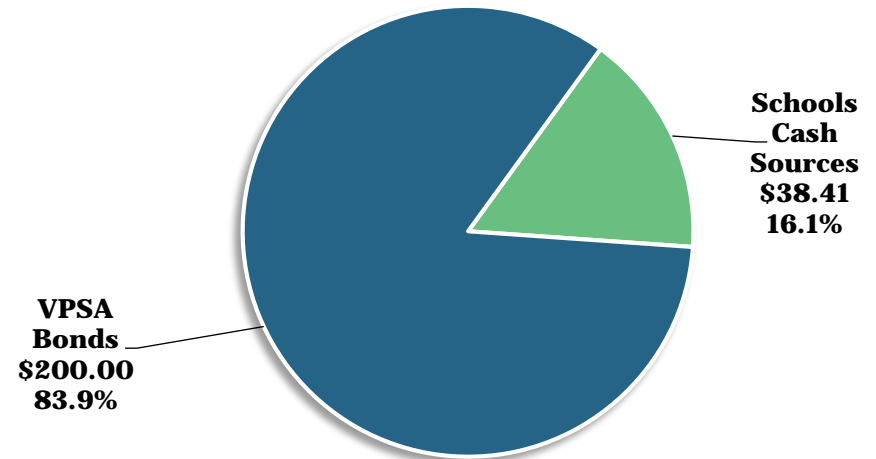
Project/Facility	Fiscal Year(s) Funding	FY 24-33 Funding
WE Cundiff Elementary	FY 2025	\$23.76 million
Glen Cove Elementary	FY 2025	\$23.76 million
Burton Center for Arts & Technology	FY 2024-2025	\$81.12 million
Northside Middle	FY 2026-2030	\$39.14 million
Hidden Valley Middle	FY 2031-2033	\$30.86 million
Glenvar Elementary	FY 2030-2031	\$18.01 million

Projects requested in the RCPS fiscal year 2024-2033 CIP are evaluated on an annual basis. The ten-year plan is updated annually to account for changes in project funding, School Board priorities, project costs, and project timing.

Roanoke County Public Schools Funding Summary

RCPS capital projects are funded by two primary sources: cash and bonds. RCPS cash sources total \$38.41 million over the ten-year plan. Bonds utilized by RCPS are Virginia Public Schools Authority (VPSA) bonds and total \$200.00 million over the ten-year plan.

**FY 2024 - FY 2033 RCPS Requested CIP
Summary of Funding Sources
\$238.41 Million**



Cash sources comprise 16.1% of all funding sources, while VPSA bonds comprise 83.9% of total funding in the RCPS ten-year CIP.

Similar to the capital projects, capital funding is evaluated on an annual basis based on updated School Board priorities, new funding opportunities, and project timing as relates to planned bond issuances.



RCPS Capital Maintenance Program

The School Board operates the largest networked organization in the Roanoke Valley with connections to/from 32 physical buildings, totaling approximately 2.6 million square feet with a current average age of 52 years. Included in that total are sixteen elementary schools, five middle schools, five high schools, and one specialty high school. Other facilities include administration, transportation, warehouse, technology, and maintenance buildings.

As part of the RCPS CIP, \$1.25 million is budgeted in FY 2024 and \$20.00 million is budgeted from FY 2025 through FY 2033 for capital maintenance projects at RCPS facilities. This funding will provide for the completion of projects including but not limited to HVAC improvements, roofing repairs, window replacements, and other infrastructure improvements and preventative maintenance which will extend the useful life of RCPS facilities and help avoid costly as-needed repairs which are often more expensive than providing planned infrastructure improvements. These projects are funded with \$21.25 million in RCPS cash sources over the life of the ten-year plan.

Human Resources and Payroll Module/Financial System

RCPS will be contributing funding to the County for a shared Human Resources and Payroll module. This system will connect to the current Integrated Financial System project being implemented through the County's Department of Finance and Management Services, and will provide an upgrade to Human Resources and Payroll modules. The RCPS portion of this project is estimated at \$0.50 million to be allocated in FY 2024.

Renovation and Modernization Projects – Facilities Use and Condition Assessment & Demographic Study

During fiscal year 2016, the RCPS School Board funded a facilities use and conditions assessment study to help identify and plan for future facility



renovation and modernization projects. The study reviewed all major systems in the facilities (HVAC, electrical, roofing, lighting, etc.) and identified the scope of renovations needed to restore the building to optimum operating condition. This

assessment has helped inform some of the prioritization of projects in the FY 2024-2033 CIP.

Additionally, a demographics study to determine future projected enrollment for each educational facility was also completed in fiscal year 2016. School buildings are used today in vastly different ways than they were over 40 years ago. Some programs did not exist then (certain special education services, technology, lab space, etc.) and older buildings may not be providing efficient program space. Likewise, the space needed for today's programs impacts the student capacity in each building. The study indicated how RCPS is using school space for current programs and projected student and population trends by school and grade. With the information from this study, the School Board is able to better predict building renovations required based on programming and student enrollment.

Information from both the Facility Use and Condition Assessment Study and the demographics study, along with School Board project prioritization were utilized in developing the RCPS fiscal year 2024-2033 Capital Improvement Program.





Appendices





County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Prior Year Projects Removed

A number of projects that were listed in the prior year Capital Improvement Program (CIP) no longer appear in the FY 2024 – FY 2033 CIP. In some cases, this is due to the completion of a project; in others, a project may no longer be part of the County's plan for future capital investments.

Appendix A: Prior Year Projects Removed

Functional Team/Project	Description
Assessments and Studies	
Fire & Rescue Assessment	This Project received funding in FY 2023 in order to assess current fire facilities, future placement of facilities, apparatus needs and fire staffing. The project is fully funded.
RCAC Building Evaluation	This Project received funding in FY 2023 to perform site and building assessments on the Roanoke County Administration Center. The project is fully funded.
Facilities Assessment	This Project received funding in FY 2023 to update the 2019 Facilities Conditions Assessment Study. The project is fully funded.
Computer Infrastructure, Software and Hardware	
Digital Microwave Ring Replacement	This project was fully funded in prior years to replace the County's 14 microwave radios. This project has been completed and therefore removed from the CIP.
Public Safety Communications Infrastructure	This project was fully funded in prior years to replace the mountaintop routers located at all of the Roanoke Vaey Radio System sites. This project has been completed and therefore removed from the CIP.
Emergency Medical Dispatch	This project was fully funded in prior years to replace the Emergency Medical Dispatch Guide Cards that have been in use since 2006. This project has been completed and therefore removed from the CIP.
Fire & Rescue Messaging System	The Fire & Rescue Messaging System project was requested for funding in FY 2024 to replace the current messaging system. Further evaluation is needed to estimate costs and project scope.



Appendix A: Prior Year Projects Removed

Transportation

Fallowater Lane Extension	This project was fully funded in prior years to reconstruct an existing private driveway, improving access to future development in the area designated as "The Ridges".
Plantation Road Phase II	This project was fully funded in prior years to continue the pedestrian accommodations from the first phase of the Plantation Road project.

Speciality Equipment

Replacement of Firearms	This Project received funding in FY 2023 in order to replace the current department issued firearms that were at the end of their life cycle. The project is fully funded.
Fire and Rescue Ballistic Body Armor	This Project received funding in FY 2020 and FY 2021 in order to purchase ballistic body armor for all Fire & Rescue personnel. The project is fully funded.



County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program Unfunded Projects

The following represent projects that were not funded in the FY 2024 – FY 2033 Capital Improvement Program (CIP), proposed to the Board of Supervisors on March 28, 2023. Some ongoing projects did not receive funding in FY 2024 but are not considered unfunded as they have planned funding within the ten-year CIP.

<i>Functional Team/Project</i>	<i>Description</i>	<i>Estimated Cost</i>
Specialty Equipment		
Second Set of Turnout Gear	The Second Set of Turnout Gear was requested for funding in FY 2024 to supply Firefighters with an additional set of turnout gear to provide fresh equipment while their first set is being decontaminated from a prior response to a fire. This project is anticipated to be funded with grant funding to provide the necessary equipment thus eliminating the need for CIP funds.	\$630,000
Total, Unfunded Requests		\$630,000



Board of Supervisors' Adopted Debt Ratios

In April 2018, the Board of Supervisors approved a comprehensive financial policy which establishes guidelines and limitations for the issuance of debt. The documentation of these procedures gives rating agencies and County citizens the assurance that the issuance of debt is a well-planned program. The debt policy also states that the Capital Improvement Plan will include a ten-year projection of the County debt ratios. This projection of ratios can be used to determine the County's ability to issue new debt and ensures adherence to the policy over the ten-year timeframe.

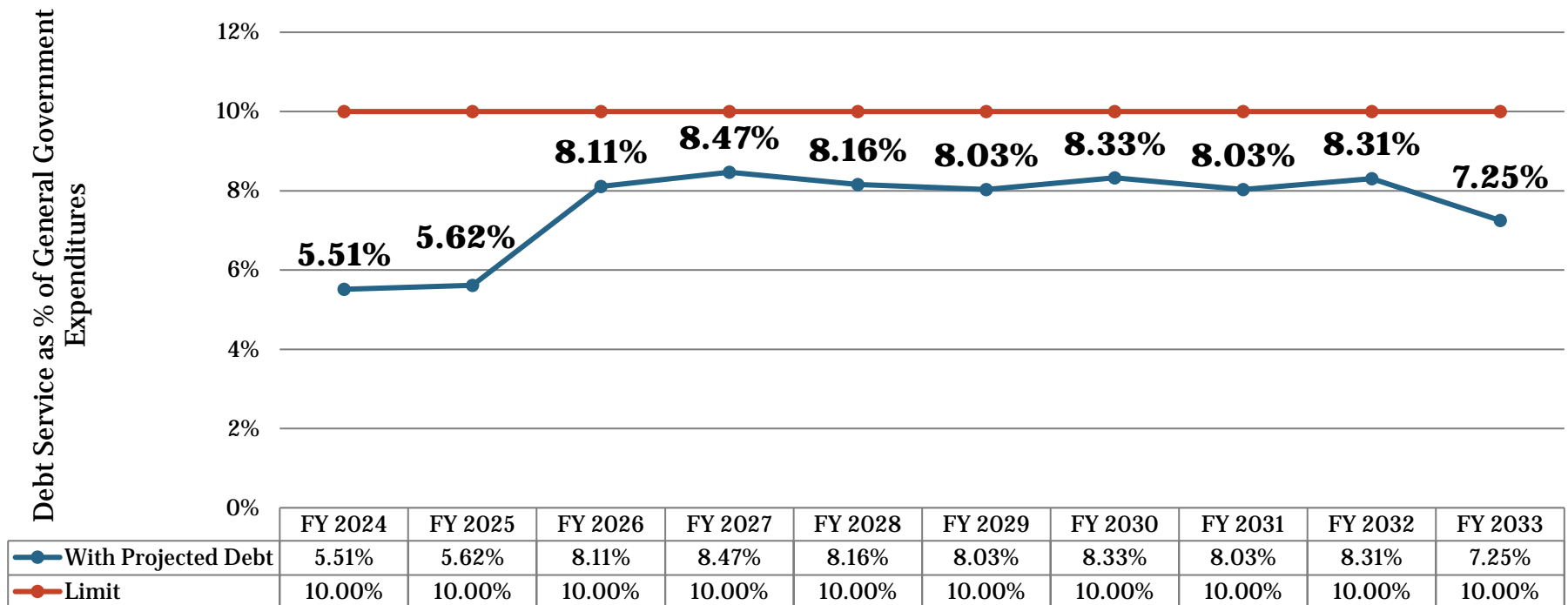
Ratio	Limit	FY 2022 (Actual)	FY 2023 (Projected)	FY 2024 (Projected)
Debt Service as a Percentage of General Government Expenditures	10.0%	5.60%	5.47%	5.51%
Debt as a Percentage of Taxable Assessed Value	3.0%	1.46%	1.34%	1.42%



Debt Service as a Percentage of General Government Expenditures

Debt as a percentage of general government expenditures is calculated by taking the debt service (principal and interest) paid in a year divided by total general County and School expenditures. The County's debt policy states that the debt service to General Government expenditures ratio should not exceed 10%. Adhering to this policy limit allows for a more favorable bond rating and ensures that the County's debt spending is sustainable relative to its overall expenditures.

**Debt Services as a Percentage of General Government Expenditures
FY 2024 - FY 2033**

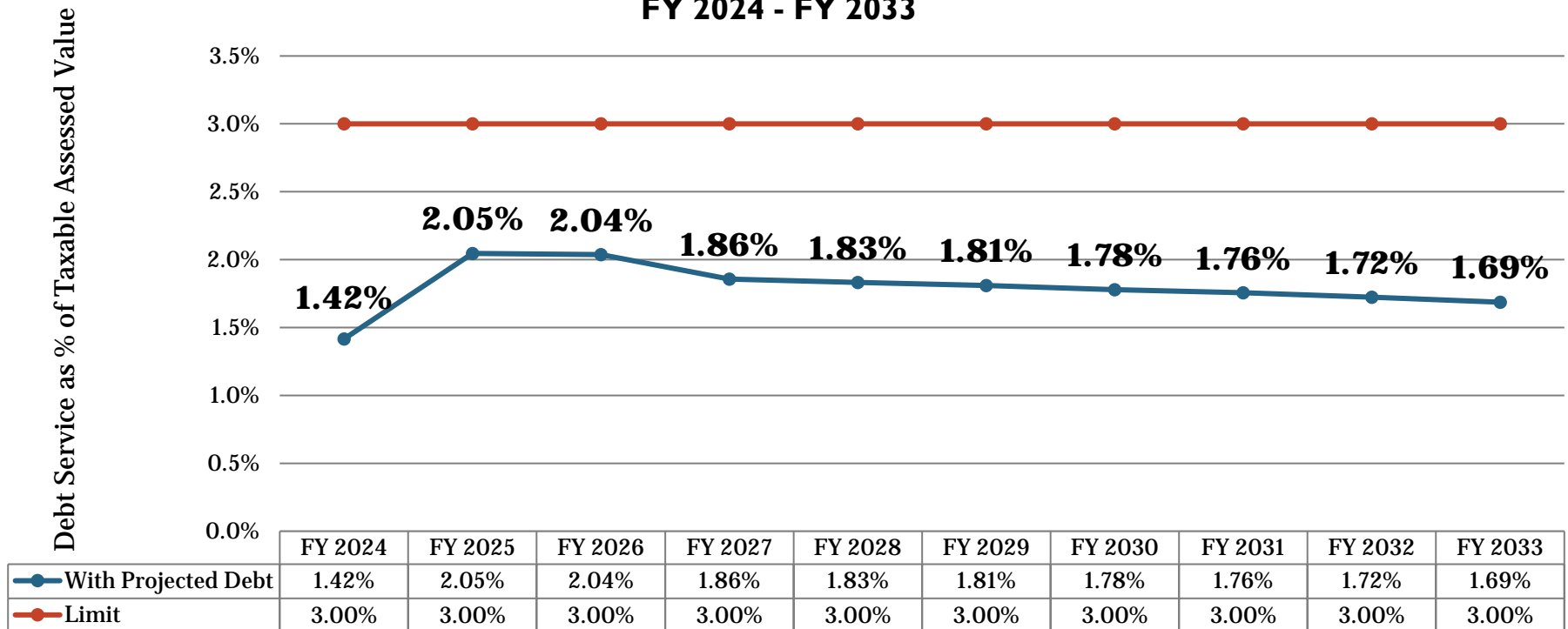




Debt as a Percentage of Taxable Assessed Value

Debt as a percentage of taxable assessed value is the outstanding debt principal divided by the market value assessment of all real and personal property located in the County. The County's debt policy states that the debt as a percentage of taxable assessed value ratio should not exceed 3%. Adhering to this policy limit allows for a more favorable bond rating and ensures that the County's debt load is sustainable relative to its taxable base.

**Debt Services as a Percentage of Taxable Assessed Value
FY 2024 - FY 2033**

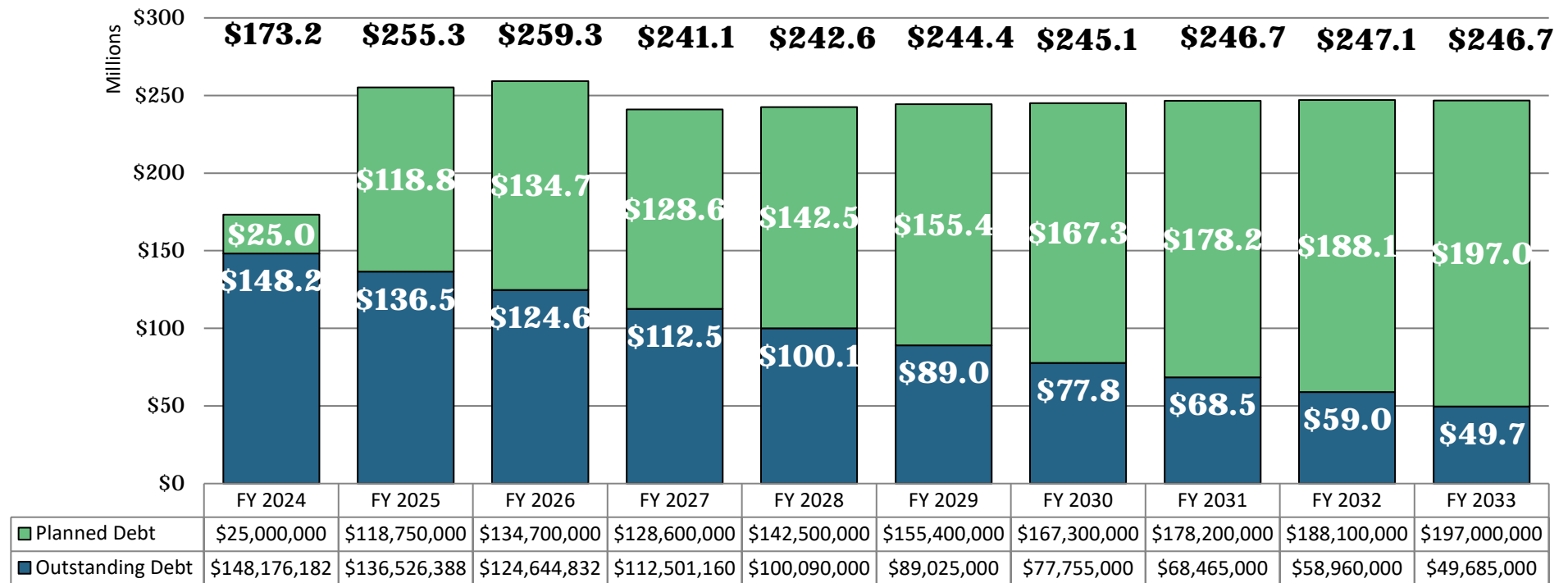




Outstanding Debt

The below chart outlines the level of outstanding debt for County and Schools from FY 2024 through FY 2033 based on the assumed debt issuance in the FY 2024 – FY 2033 Capital Improvement Program.

Existing and Planned Outstanding Debt FY 2024 - FY 2033

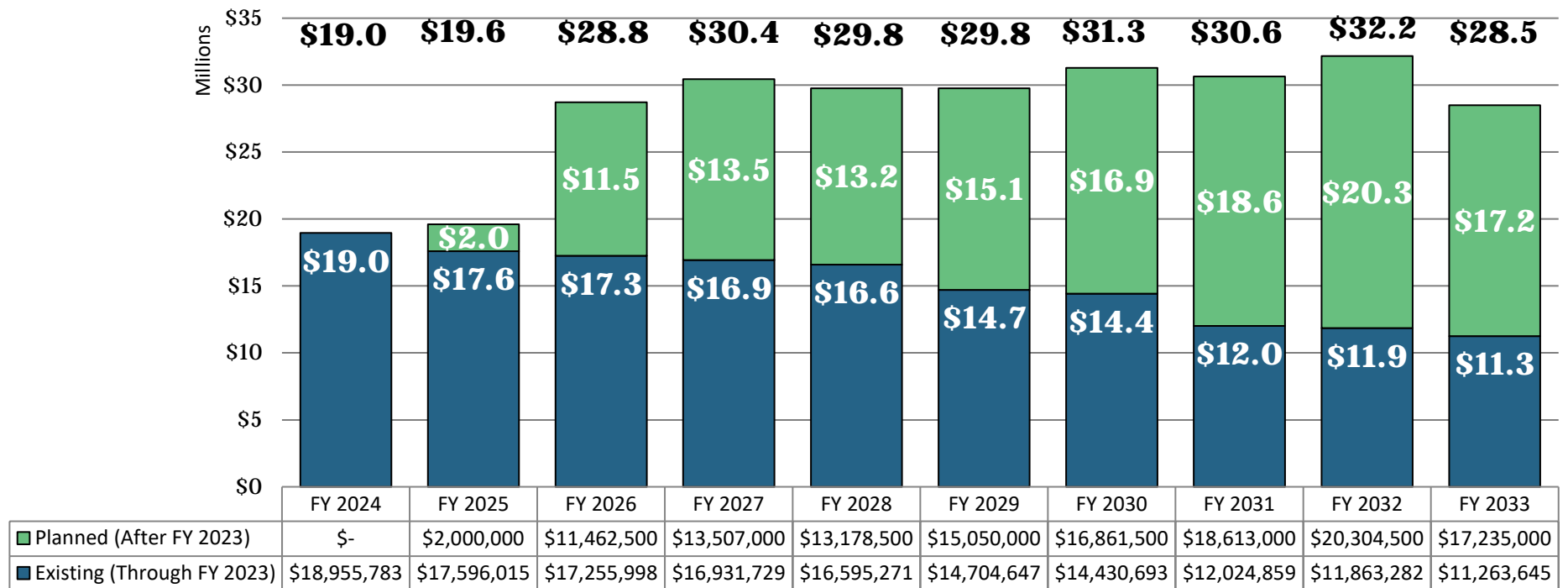




Projected Debt Service

The below chart outlines the level of projected debt service for County and Schools from FY 2024 through FY 2033 based on the assumed debt issuance in the FY 2024– FY 2033 Capital Improvement Program.

Projected Debt Service FY 2024 - FY 2033





Comparative Jurisdictions

The below table provides a comparison of established debt ratios for three localities that are comparable to Roanoke County in size and/or service delivery. In addition, debt policies for four Virginia localities with AAA ratings (the highest available) are provided for informative purposes. The County's debt policies are very similar to comparative jurisdictions and compare favorably to the listed AAA rated localities. This is indicative of sound financial management and shows that the Board of Supervisors' established ratio limits are consistent with best practices.

Debt Ratio	Roanoke County	Comparative Jurisdictions			AAA Rated Jurisdictions			
		Roanoke City	Lynchburg City	Hanover County	Arlington	Alexandria	Charlottesville	Virginia Beach
Debt Service as a % of General Government Expenditures Limit	10%	10%	10%	10%	10%	10%	10%	10%
Debt as a % of Taxable Assessed Value Limit	3%	4%	4.5%	2.5%	3%	1.6%	N/A	3.5%

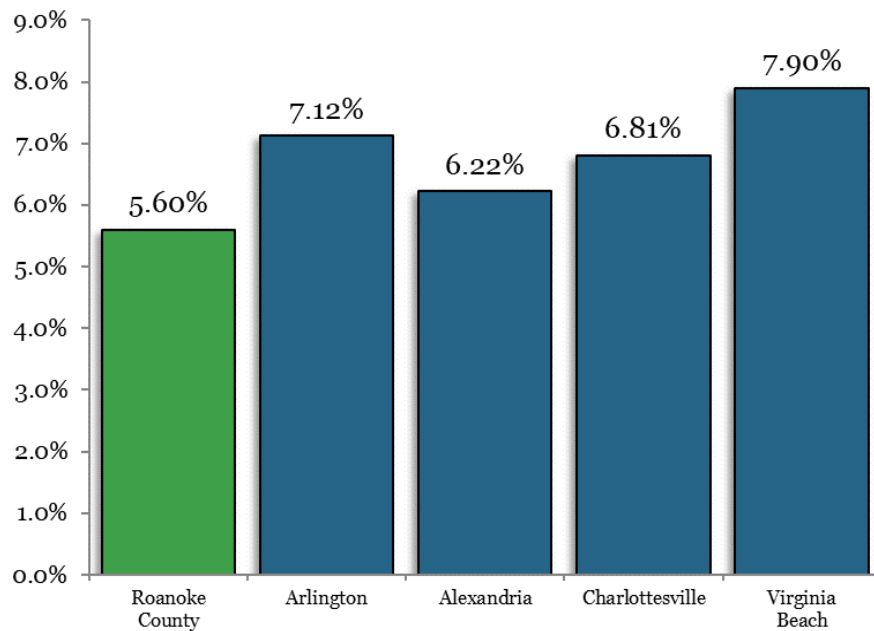
All information is from each locality's 2022 Annual Report, FY 2023 Adopted Budget Documents, or Adopted Financial Policies.



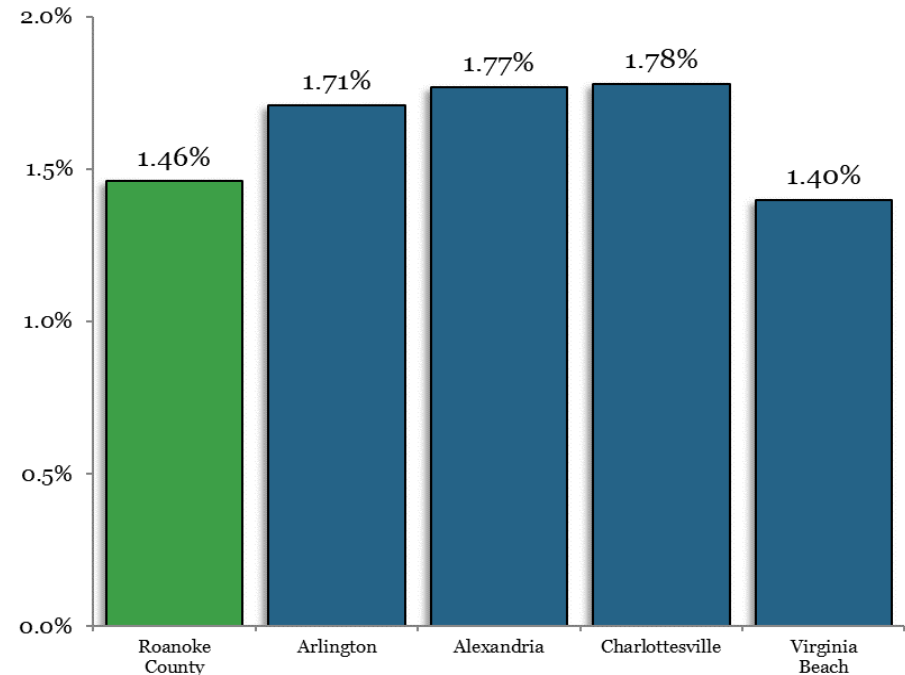
Comparative Jurisdictions (continued)

Roanoke County is currently rated AA+ by the three major ratings agencies. The below charts compare the County's actual debt ratios to four AAA rated localities in Virginia. Roanoke County's ratios compare quite favorably to each of the comparative jurisdictions. This positive comparison shows that the County's current debt load relative to its expenditures, assessed value, and population is consistent with the levels necessary to acquire AAA rated status. All data below is based on data as of June 30, 2022.

Debt Service as a % of General Government Expenditures



Debt as a % of Taxable Assessed Value



All information is from each locality's 2022 Annual Comprehensive Financial Report (ACFR).



County of Roanoke, Virginia FY 2024 – FY 2033 Adopted Capital Improvement Program VDOT Transportation Projects

A number of projects within the FY 2024 – FY 2033 Capital Improvement Program (CIP) receive funding from and/or are administered by the Virginia Department of Transportation. Details on VDOT Transportation Projects in the CIP can be found below.

Project Name:	Fallowater Lane Extension / Ridge Top Road				
Funding Sources:		VDOT UPC:	112304	Project Status:	
County Revenue Sharing	\$1,422,297	Administered By:	Roanoke County	Preliminary Engineering	Complete
VDOT Revenue Sharing ¹	\$1,422,297	County-Funded Portion:	32.77%	Right of Way	Complete
SSYP ⁵	\$1,495,521			Construction	Under Construction
Total Project Estimate:	\$4,340,115				
Project Description:	Beginning at Route 419, this project upgrades the private driveway of Chuck E. Cheese to public road standards and constructs a new section between the end of the private driveway and Almond Road, an existing private road. Almond Road has been rebuilt to public standards to the intersection of Chevy Road, an existing public road. Final quality control items are being addressed with the contractor.				
Project Name:	East Roanoke River Greenway - Water Treatment Plant to Blue Ridge Parkway				
Funding Sources:		VDOT UPC:	91191	Project Status:	
County Match	\$193,250	Administered By:	Roanoke County	Preliminary Engineering	Complete
TE/TAP ²	\$773,000	County-Funded Portion:	7.82%	Right of Way	Underway
RSTP/STBG ³	\$1,505,371			Construction	Underway in FY 2023 (Phase I)
Local Funds	\$0				
Total Project Estimate:	\$2,471,621				
Project Description:	Project scope has been reduced due to right-of-way acquisition issues. Phase I is construction of a 0.40-mile section of the greenway across Explore Park property owned by the Virginia Recreational Facilities Authority adjacent to the Blue Ridge Parkway. A trailhead/parking lot is proposed on Highland Road. Roanoke County Planning submitted a FY 24 CIP request in the amount of \$200,000 for a East Roanoke River Greenway Feasibility Study between Roanoke City and Phase I.				



Project Name:	East Roanoke River Greenway - Blue Ridge Parkway Crossing along Highland Road				
Funding Sources:		VDOT UPC:	113356	Project Status:	
County Match	\$159,181	Administered By:	Roanoke County	Preliminary Engineering	Complete
TE/TAP ²	\$636,720	County-Funded Portion:	22.91%	Right of Way	Complete
Local Funds	\$29,999			Construction	Anticipated in FY 2024
Total Project Estimate:	\$825,900				
Project Description:	Construction of 0.3 miles of the East Roanoke River Greenway along Highland Road that will cross beneath the Blue Ridge Parkway through an existing overpass.				
Project Name:	West Roanoke River Greenway - Riverside Park (City of Salem) to Green Hill Park (Roanoke County)				
Funding Sources:		VDOT UPC:	97171	Project Status:	
RSTP/STBG ³	\$7,343,229	Administered By:	Roanoke County	Preliminary Engineering	Complete
SMART SCALE ⁴	\$4,542,105	County-Funded Portion:	0.00%	Right of Way	Complete (Phase I)
Open Container	\$499,166			Construction	Anticipated in FY 2024 (Phase I)
Total Project Estimate:	\$12,384,500				
Project Description:	Project scope has been phased due to right-of-way acquisition issues and accessibility requirements. Phase I is a 0.60-mile section of greenway proposed with a trailhead parking lot on West Riverside Drive and will extend east along the Roanoke River to the existing greenway in the City of Salem across from Kingsmill Drive. Phase 2 is a 0.80-mile section of greenway proposed with two bridges across the Roanoke River and a separated grade crossing underneath Diuguidds Lane. It will provide connectivity between Green Hill Park and the proposed trailhead parking lot on West Riverside Drive. There is no funding appropriated for Phase 2.				
Project Name:	Williamson Road Pedestrian Improvements, Peters Creek to Plantation				
Funding Sources:		VDOT UPC:	111317	Project Status:	
County match	\$54,356	Administered By:	VDOT	Preliminary Engineering	Complete
TE/TAP ²	\$217,424	County-Funded Portion:	2.81%	Right of Way	Complete
SMART SCALE ⁴	\$1,662,220			Construction	Anticipated in FY 2024
Total Project Estimate:	\$1,934,000				
Project Description:	Construct sidewalk between new pedestrian signals at Peters Creek Road and the existing shared use path on Plantation Road.				



Project Name: Dry Hollow Road Safety Improvements

Funding Sources:

County Revenue Sharing \$1,865,618
VDOT Revenue Sharing¹ \$1,865,618
SSYP⁵ \$930,217

VDOT UPC:

107309

Administered By:

VDOT

County-Funded Portion:

40.02%

Project Status:

Preliminary Engineering Underway

Right of Way Anticipated in FY 2024

Construction Anticipated in FY 2025

Total Project Estimate: \$4,661,453

Project Description: Improve safety by widening roadway under railroad trestle near the intersection of West River Road.

Project Name: Starkey Road/Buck Mountain Road Intersection Improvements

Funding Sources:

County Revenue Sharing \$573,278
VDOT Revenue Sharing¹ \$573,278
SSYP⁵ \$13,444
RSTP/STBG³ \$2,098,115
SMART SCALE⁴ \$2,583,365

VDOT UPC:

113144

Administered By:

VDOT

County-Funded Portion:

9.81%

Project Status:

Preliminary Engineering Complete

Right of Way Complete

Construction Under Construction

Total Project Estimate: \$5,841,480

Project Description: This project will convert the unsignalized "T" intersection at Starkey Road and Buck Mountain Road to a single lane roundabout. Pedestrian accommodations are included in the design to extend along each leg and to the Branderwood subdivision.

Project Name: East Roanoke River Greenway - Explore Park to Rutrough Road

Funding Sources:

RSTP/STBG³ \$3,020,308
Total Project Estimate: \$3,020,308

VDOT UPC:

113567

Administered By:

Roanoke County

County-Funded Portion:

0.00%

Project Status:

Preliminary Engineering Underway

Right of Way N/A

Construction Anticipated in FY 2024

Project Description: Construction of 1.50 miles of the greenway through Explore Park to Rutrough Road.



Project Name:		East Roanoke River Greenway - Blue Ridge Parkway to Explore Park			
Funding Sources:		VDOT UPC:	110155	Project Status:	
County Match	\$546,750	Administered By:	Roanoke County	Preliminary Engineering	Complete
FLAP ⁶	\$2,187,000	County-Funded Portion:	19.56%	Right of Way	Complete
Private Contributions	\$20,000			Construction	Anticipated in FY 2024
RVRA and VRFA Easement Value*	\$42,000				
Total Project Estimate:		\$2,795,750			
Project Description:		This project will construct an approximately 1.8 mile section of the Roanoke River Greenway from the 3400 block of Highland Road near the intersection with Rutrough Road, through property owned by the Roanoke Valley Resource Authority, connecting to a Federal overlook, passing underneath the Roanoke River Parkway, crossing properties owned by the National Park Service and ending at Explore Park. A trailhead/parking lot is proposed on Rutrough Road. *The RVRA and VRFA Easement Value is a non-cash match to receive FLAP funds and is not reflected in County financial system.			

Project Name:		Glade Creek Greenway through Vinyard Park West			
Funding Sources:		VDOT UPC:		Project Status:	
County Match	\$130,275	Administered By:		Preliminary Engineering Underway	
TE/TAP ²	\$521,100	County-Funded Portion:		Right of Way	N/A
Total Project Estimate:				Construction	Anticipated in FY 2026
Project Description:		Construct a segment of the Glade Creek Greenway along Glade Creek through Vinyard Park West.			



Description of Funding Sources:

If a project contains Roanoke County funding or a match provided by the County, it is shown in the first row of funding sources and reflected in *Italics*.

¹**Revenue Sharing:** 50/50 County/VDOT funding; call for applications in odd years; next due date October 1, 2023

²**Transportation Alternatives (TE/TAP):** 80/20 VDOT/County funding; call for applications in odd years; next due date October 1, 2023 for FY 2025/2026

³**Surface Transportation Block Grant (STBG)** previously named Regional Surface Transportation Program (**RSTP**): 100% funding awarded through the Roanoke Valley Transportation Planning Organization; applications due September 2023

⁴**SMART SCALE previously named House Bill 2 (HB2):** 100% funding awarded through the Commonwealth Transportation Board; call for applications in even years; pre-application window opens March 2024 with final applications due August 2024 with awards June 2025 for funding at least five years out

⁵**Secondary Six-Year Program (SSYP):** 100% VDOT funding to improve secondary routes (number 600 and higher); Telefees and District Grant funds (for unpaved roads) available annually; Board of Supervisors adoption required prior to June 30 every year

⁶**FLAP:** Federal Lands Access Program, supplements State and local resources for public roads, transit systems, and other transportation facilities, with an emphasis on high-use recreation sites and economic generators.