

County of Roanoke, Virginia



Adopted Capital Improvement Program
Fiscal Years 2019—2028





Roanoke County Board of Supervisors

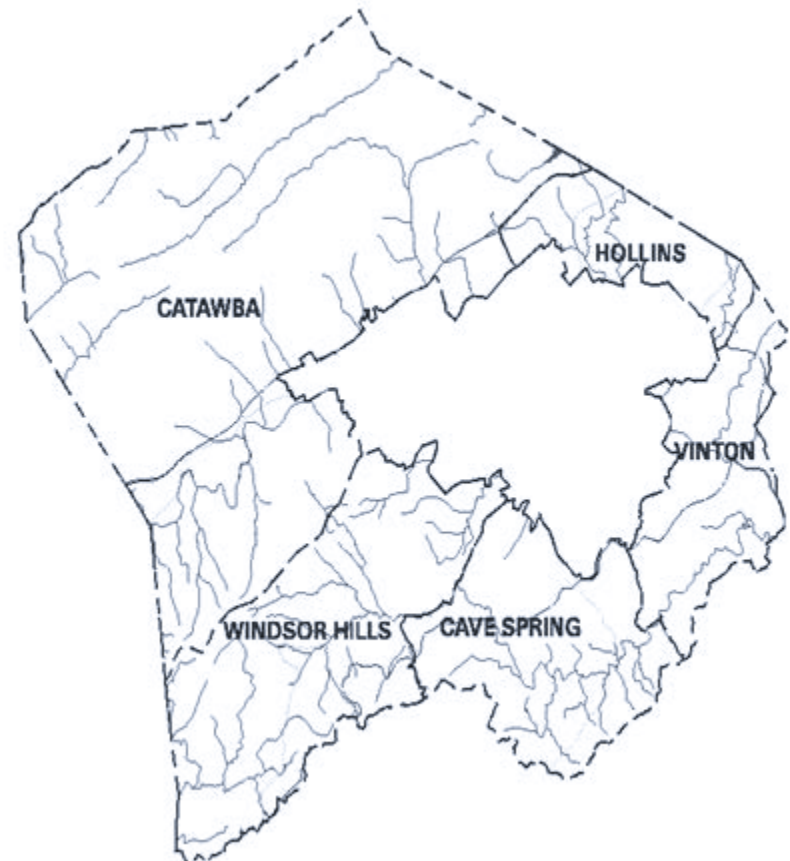
Joseph P. McNamara
Windsor Hills Magisterial District

Martha B. Hooker
Catawba Magisterial District

P. Jason Peters
Vinton Magisterial District

George C. Assaid
Cave Spring Magisterial District

Phil C. North
Hollins Magisterial District





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Virginia**

For the Fiscal Year Beginning

July 1, 2017

Christopher P. Morrill

Executive Director





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July 1, 2018

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

On May 22, 2018, the Roanoke County Board of Supervisors adopted the fiscal year 2019-2028 Capital Improvement Program (CIP). The County Administrator's proposed fiscal year 2019-2028 CIP was presented to the Board of Supervisors on January 23, 2018. The Board of Supervisors deliberated over projects and funding included in the CIP from January through May, culminating with the adoption of the ten-year CIP.

From the County Administrator's proposed CIP to the Board of Supervisors adopted CIP, the Board of Supervisors approved several changes to the ten-year capital plan. The majority of these changes revolved around the adoption of the Board of Supervisors' formal debt issuance policy, also known as the "10-10-10" debt model, limiting total borrowing to \$10.0 million annually. The model provides the County \$10.0 million maximum borrowing capacity once every three years. Roanoke County Public Schools (RCPS) receives a maximum of \$10.0 million annually every two out of three years. Board of Supervisors' approved changes to adhere with the "10-10-10" debt model are noted below.

- Funding for the Public Service Center project was moved to FY 2020 (\$10.0 million) and FY 2023 (\$2.204 million). The proposed CIP included funding in FY 2019 totaling \$11.5 million. Total project costs were increased by \$704,000 to account for inflation. These changes are consistent with the Board of Supervisors' "10-10-10" debt model.
- Several parks and recreation projects, along with the Bent Mountain Community Center that were proposed for funding in FY 2019 and FY 2022 were moved to FY 2023 in the adopted CIP. These changes adhere to the "10-10-10" debt model, with project costs increased to account for inflation. Future funding for these projects is dependent on the results of the County facilities assessment being conducted in summer 2018.
- Proposed construction funding for the replacement of Hollins Library was removed from the adopted CIP to adhere to the "10-10-10" debt model. Funding for the construction of Hollins Library may be considered in future CIPs. Additionally, funding for planning and design of the facility in the adopted CIP was moved back a year to begin in FY 2027.

As part of this section of the budget document, the County Administrator's January 23, 2018 transmittal letter to the Board of Supervisors has been included, as it provides details into the priorities of the ten-year CIP. The remainder of the document has been updated to reflect the fiscal year 2019-2028 CIP adopted by the Board of Supervisors on May 22, 2018.

The entire Capital Improvement Program document is available on-line at: <http://www.roanokecountyva.gov/index.aspx?NID=80>.

Sincerely,

Christopher R. Bever
Director, Roanoke County Office of Management and Budget



January 23, 2018

Chairwoman Martha Hooker
Members, Board of Supervisors
Roanoke County Administration Building
5204 Bernard Drive
Roanoke, Virginia 24018

Dear Chairwoman Hooker and Members of the Board of Supervisors:

Attached for your consideration is my Proposed FY 2019 – FY 2028 Capital Improvement Program (CIP). Included as part of this proposal is the Roanoke County Public Schools' ten-year Capital Improvement Program requests, as approved by the Roanoke County School Board on November 14, 2017.

This ten-year capital plan continues to seek balance between maintaining the public's investment in existing capital infrastructure while addressing the long-term service needs of several County facilities. The plan is fiscally balanced, adheres to all Board of Supervisors approved fiscal policies, and utilizes

sound, long-term financial planning principles. As presented, the Proposed FY 2019 – FY 2028 CIP totals \$157.5 million in capital projects over the life of the ten-year plan, with \$78.0 million attributable to County capital projects and \$79.5 million budgeted for requested Roanoke County Public Schools' capital projects.

Project Priorities

There are two primary focus areas for this ten-year CIP: maintain our existing assets and capabilities including replacement of technology infrastructure; and address the long-term viability of the Public Service Center, Hollins Library, and Cave Spring High School. Project priorities for Roanoke County Public Schools are established by the School Board and presented as requested.

Maintaining Existing Assets and Capabilities

Capital Maintenance Programs

As proposed, approximately \$15.4 million is committed to Capital Maintenance Program (CMP) funding during the next ten years. These funds ensure existing infrastructure in General Services, Parks, Recreation & Tourism, and the Sheriff's Office, remain functional and safe for our citizens, visitors, and employees. Replacement of computers and other information technology infrastructure is budgeted at \$8.3 million in the ten-year plan to ensure the County can continue delivering high quality services to the public. Roanoke County Public Schools has identified \$10.0 million in their requested CIP to be applied to CMP projects over the next ten years.



Transportation

The ten-year capital plan continues modest investments in our transportation infrastructure and leverages transportation infrastructure funding offered through the Virginia Department of Transportation (VDOT) Revenue Sharing program. It is prudent that the County maximize the use of Revenue Sharing dollars while these funds are available. County funds in FY 2019 and FY 2020 totaling \$1.0 million are anticipated to leverage \$1.0 in VDOT Revenue Sharing funds for the Buck Mountain / Starkey Road Intersection Improvements and Fallowater Lane Extension capital projects.

Stormwater Management

Federal mandates in the area of stormwater run-off and pollutant discharge continue to require the County to fund improvements to our current stormwater infrastructure and create new infrastructure where necessary. Over \$4.3 million is planned in the ten-year CIP for stormwater improvements, with \$1.2 million of the total planned from the competitive Commonwealth administered Stormwater Local Assistance Fund (SLAF).

Long-Term Facility Needs

Public Service Center

This ten-year CIP includes \$11.5 million directed to the replacement of the County's Public Service Center. The total project cost estimate is \$13.05 million, with \$1.55 million funded in previous fiscal years. This project will relocate the County's outdated and flood-prone Public Service Center located

on Kessler Mill Road. While some operations that are not impacted by the flooding may remain at the site, most General Services, Parks, Recreation & Tourism, and some Community Development operations will be moved to strategic locations in the County to provide efficient services for our citizens and a safe and secure working environment for our employees. The County has already acquired a property adjacent to the County's Fleet Service Center to support expanded operations at that site, and architectural and engineering work on the project is anticipated to begin in spring 2018.

Hollins Library

A project that has been included in prior year ten-year plans is the renovation / replacement of the Hollins Library. In the Proposed FY 2019 – FY 2028 CIP, funding for the construction of the facility appears in FY 2028. While the full scope of the project will be developed over the coming years, programming the funding for the construction allows staff to strategically consider the use of debt funding to finance this project. Architectural and engineering work is planned to begin in FY 2026, and planned location of the updated facility will be finalized before full-scale project planning begins.

Catalyst Economic Development Projects

During Fiscal Year 2016, the Board authorized three "catalyst" economic development projects intended to foster the economic growth of the County and region. Significant progress has been made on all three of these projects since last year's CIP.



Bond funding in the amount of \$4.4 million was issued to support capital infrastructure at Explore Park, with the first public-private partnership contracts expected to be approved in January 2018. Installation of 25 miles of fiber for the County's Broadband Initiative was completed in the fall of 2017, connecting the County to the rest of the Roanoke Valley Broadband Authority network. And citizen engagement meetings have been held to discuss the future of the Woodhaven property. Funding in the amount of \$6.4 million is included in this ten-year plan for committed costs associated with Broadband and Woodhaven, and \$1.3 million is planned in FY 2022 for additional infrastructure at Explore Park to support future public-private partnerships.

Roanoke County Public Schools

Roanoke County Public Schools requests as approved by the Roanoke County School Board total \$79.5 million from FY 2019-2028. The most significant capital initiative that will be managed by the Schools is the renovation of Cave Spring High School. This \$37.5 million project - fully funded in prior CIPs - is anticipated to begin in June 2018 with completion tentatively scheduled for July 2020. After completion of Cave Spring High School, a \$22.8 million renovation at William Byrd High School is planned. Additional information on the capital requests as approved by the School Board can be found in the Schools section of this document.

Conclusion

The Proposed FY 2019 – FY 2028 CIP reflects our continued prioritization of public asset maintenance and strategic investment to meet long-term County service delivery

requirements. The CIP is fiscally balanced, achievable, and reflects the Board of Supervisors preference for limiting long-term debt obligations by utilizing cash sources to provide for 40% of all County and Schools project expenditures.

Projects which were submitted for consideration but not included in this proposal are included in Appendix B. While many of these projects are needed and merit inclusion in the plan, the lack of available resources and prioritization of other needs over those projects excludes them from this ten-year plan.

As you consider this plan over the coming months, County staff will facilitate work sessions and provide budget memoranda on the projects contained in (or excluded from) this plan as requested. County staff dedicates numerous hours to prepare the CIP for your review. I would like to recognize the hard work of our Budget Office, Department Directors, Constitutional Officers, and their staff in the development of this ten-year CIP. I appreciate the role that they play in creating a fiscally responsible plan to address our County's capital infrastructure needs for the next decade.

Sincerely,

Thomas C. Gates
Roanoke County Administrator



Capital Improvement Program Overview

The underlying strategy for the development of the FY 2019 – FY 2028 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, has a cost in excess of \$100,000, and a has 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.

With many capital needs identified by County staff, 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:

- Providing effective and efficient governmental services to citizens;
- Protecting existing investment in facilities and infrastructure vital to delivering fundamental services to our citizens;
- Continuation of funding of the County's catalyst economic development projects;
- Safeguarding the environment and natural beauty for present and future generations;
- Complying with applicable state and federal mandates.

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 County Functional Teams; 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.



Roanoke County Vision and 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.

The broadly defined goals of the Community Strategic Plan are the result of the public input received, and have been developed into Strategic Initiatives that will guide the County over the next several years.

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 performance measures will be collected, reviewed, reported and used to make adjustments to County services and programs. Roanoke County will also prepare an annual report on the progress to achieving the vision set forth in the Community Strategic Plan. The full Community Strategic Plan can be found at www.roanokecountyva.gov/CSP.

Organizational Strategic Plan

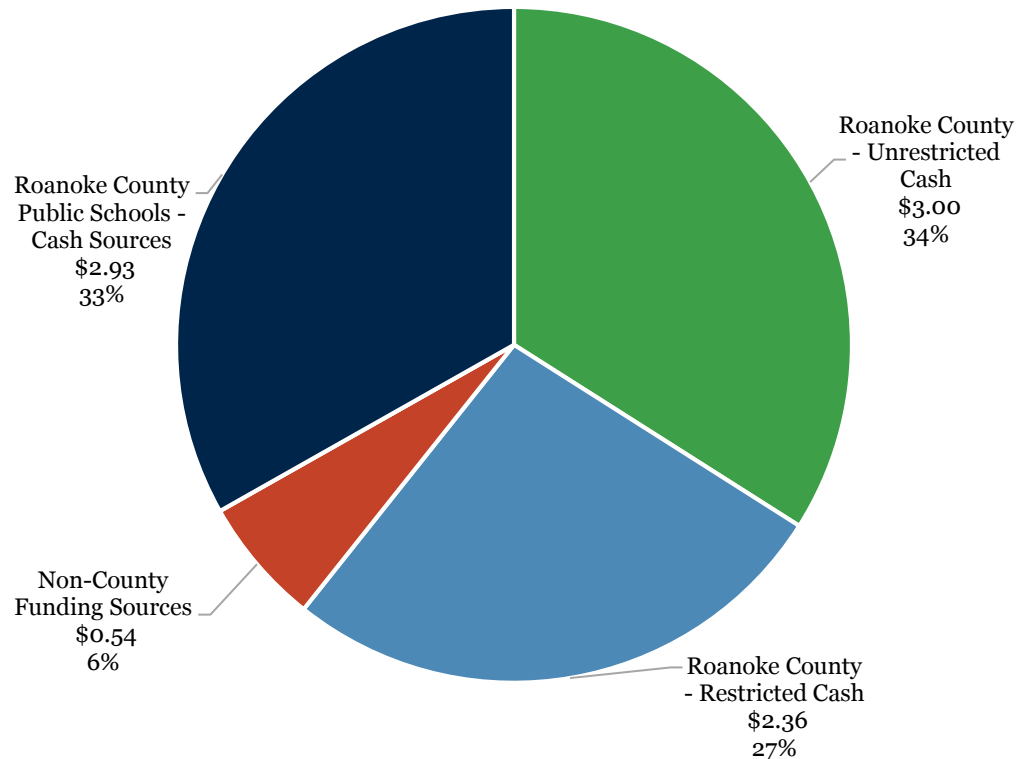
Roanoke County is in the process of creating an internal Organizational Strategic Plan, which will identify strategies to be used by departments and employees to deliver quality services with integrity and distinction.



FY 2019 – FY 2028 Adopted Capital Improvement Program Summary of County & Schools Funding Sources

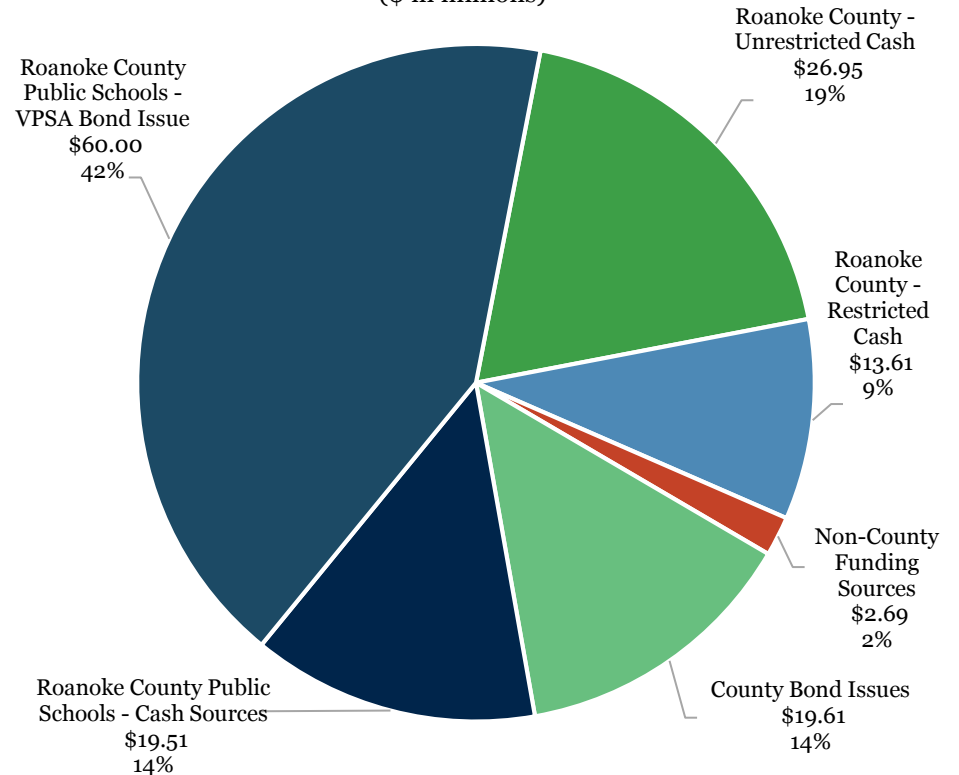
FY 2019
\$8,836,319

(\$ in millions)



FY 2019 - 2028
\$142,379,102

(\$ in millions)





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Summary of County & Schools Funding

FY 2019 - FY 2028 Approved Capital Improvement Program (CIP)	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Total Capital Reserves	\$1,611,089	\$755,737	\$317,877	\$250,457	\$231,990	\$317,659	\$19,503	\$699,299	\$0	\$265,832	\$4,469,443
Transfer from Gen. Govt. Fund	1,036,597	1,565,782	1,565,709	1,569,679	1,667,743	1,769,953	1,866,468	1,966,468	1,986,163	1,986,163	16,980,725
One-Time Gen. Govt. Transfer (Year-End)	0	200,000	0	0	0	200,000	0	0	0	0	400,000
Close-Out Projects Cash	0	0	250,000	0	250,000	0	250,000	0	250,000	0	1,000,000
2015 VPSA Refunding Credit	70,913	70,512	110,888	113,512	114,138	114,806	112,556	112,556	113,506	111,131	1,044,518
2017 VPSA Refunding Credit	7,939	12,443	11,944	11,443	13,443	12,819	12,194	11,569	12,425	11,700	117,919
Debt Fund - County	277,975	276,884	276,487	276,784	277,825	279,609	280,812	276,487	45,141	281,604	2,549,608
Debt Fund Reserve	0	0	0	0	0	0	0	0	384,983	0	384,983
Subtotal, Unrestricted Cash	\$3,004,513	\$2,881,358	\$2,532,905	\$2,221,875	\$2,555,139	\$2,694,846	\$2,541,533	\$3,066,379	\$2,792,218	\$2,656,430	\$26,947,196

Roanoke County - Restricted Cash	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Transfer from Fee Class Fund	\$200,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,900,000
CommIT Fund Transfer	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	8,250,000
CommIT Fund Balance	311,000	642,000	0	0	0	0	0	0	0	0	953,000
Economic Development Funds	1,022,806	162,800	162,800	162,800	0	0	0	0	0	0	1,511,206
Subtotal, Restricted Cash	\$2,358,806	\$1,929,800	\$1,287,800	\$1,287,800	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$1,125,000	\$13,614,206

Non-County Funding Sources	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Transfer from Schools	\$432,500	\$487,500	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$985,000
Transportation Alternatives Grant	0	0	366,606	0	0	0	0	0	0	0	366,606
Stormwater Local Assistance Fund	0	0	400,000	0	0	400,000	0	0	400,000	0	1,200,000
City of Salem	108,000	33,120	0	0	0	0	0	0	0	0	141,120
Subtotal, Non-County Funding Sources	\$540,500	\$520,620	\$831,606	\$0	\$0	\$400,000	\$0	\$0	\$400,000	\$0	\$2,692,726

Roanoke County - Bonds	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Lease / Revenue Bonds	\$0	\$10,000,000	\$0	\$0	\$9,614,000	\$0	\$0	\$0	\$0	\$0	\$19,614,000
Subtotal, Lease / Revenue Bonds	\$0	\$10,000,000	\$0	\$0	\$9,614,000	\$0	\$0	\$0	\$0	\$0	\$19,614,000

Total, All County Funding Sources	\$ 5,903,819	\$ 15,331,778	\$ 4,652,311	\$ 3,509,675	\$ 13,294,139	\$ 4,219,846	\$ 3,666,533	\$ 4,191,379	\$ 4,317,218	\$ 3,781,430	\$ 62,868,128
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Capital Improvement Program FY 2019 – FY 2028



Summary of Funding Sources

Summary of County & Schools Funding Sources (Continued)

Roanoke County Public Schools (RCPS) - All Funding Sources	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total
Transfer from Schools General Fund	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$10,000,000
Major Capital Reserves	1,566,621	112,613	1,149,163	0	0	0	0	0	0	0	2,828,397
Debt Fund - Schools	350,000	350,000	1,441,502	0	1,275,856	640,701	676,244	650,000	128,924	0	5,513,227
2015 VPSA Refunding Credit	0	0	330,402	0	227,649	114,806	112,556	0	148,096	0	933,509
2017 VPSA Refunding Credit	15,879	24,887	23,888	0	0	0	0	0	0	171,187	235,841
VPSA Bond Issue	0	0	10,000,000	9,232,185	767,815	10,000,000	10,000,000	0	10,000,000	10,000,000	60,000,000
Total, RCPS Funding Sources	\$2,932,500	\$1,487,500	\$13,944,955	\$10,232,185	\$3,271,320	\$11,755,507	\$11,788,800	\$1,650,000	\$11,277,020	\$11,171,187	\$79,510,974
Total, FY 19-28 County & RCPS Funding Sources	\$8,836,319	\$16,819,278	\$18,597,266	\$13,741,860	\$16,565,459	\$15,975,353	\$15,455,333	\$5,841,379	\$15,594,238	\$14,952,617	\$142,379,102



County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program All County & Schools Funding Sources with Projects

<i>Funding Source/Functional Area/Project</i>	<i>FY 2019</i>	<i>FY 2020</i>	<i>FY 2021</i>	<i>FY 2022</i>	<i>FY 2023</i>	<i>FY 2024</i>	<i>FY 2025</i>	<i>FY 2026</i>	<i>FY 2027</i>	<i>FY 2028</i>	<i>FY 19-28 Total</i>
CommIT Fund Balance											
Public Safety											
Conventional Backup Repeater Replacement	150,000	0	0	0	0	0	0	0	0	0	150,000
Digital Microwave Ring Replacement	161,000	642,000	0	0	0	0	0	0	0	0	803,000
CommIT Fund Balance Total	\$311,000	\$642,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$953,000
Contribution from City of Salem											
Public Safety											
Jail Abatement (Flooring)	0	33,120	0	0	0	0	0	0	0	0	33,120
Jail Control Room/Security Camera Upgrade	108,000	0	0	0	0	0	0	0	0	0	108,000
Contribution from City of Salem Total	\$108,000	\$33,120	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$141,120
Economic Development Fund Balance											
Community Services											
Plantation Road Phase I	0	0	0	0	0	0	0	0	0	0	0
Fallowater Lane Extension	502,240	0	0	0	0	0	0	0	0	0	502,240
Broadband Initiative	357,766	0	0	0	0	0	0	0	0	0	357,766
Woodhaven Property Acquisition and Improvements	162,800	162,800	162,800	162,800	0	0	0	0	0	0	651,200
Economic Development Fund Balance Total	\$1,022,806	\$162,800	\$162,800	\$162,800	\$0	\$0	\$0	\$0	\$0	\$0	\$1,511,206
Lease/Revenue Bonds											
Internal Services											
Public Service Center Construction	0	10,000,000	0	0	2,204,000	0	0	0	0	0	12,204,000
Bent Mountain Comm. Center Repairs and Renovations	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000

Capital Improvement Program FY 2019 – FY 2028



All Funding Sources with Projects

All Funding Sources (continued)

Funding Source/Functional Area/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Lease/Revenue Bonds											
Human Services											
Explore Park	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Sports Field Lighting	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Arnold R. Burton Softball Complex Improvements	0	0	0	0	720,000	0	0	0	0	0	720,000
Hollins Park Improvements	0	0	0	0	440,000	0	0	0	0	0	440,000
Hollins Library Replacement	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds Total	\$0	\$10,000,000	\$0	\$0	\$9,614,000	\$0	\$0	\$0	\$0	\$0	\$19,614,000
Roanoke County - Unrestricted Cash											
Community Services											
Maintenance of Effort Projects - Drainage	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
NPDES - MS4 BMP Construction	50,500	100,000	200,000	100,000	100,000	250,000	100,000	100,000	150,000	100,000	1,250,500
Buck Mountain Road / Starkey Road Intersection	250,000	250,000	0	0	0	0	0	0	0	0	500,000
VDOT Revenue Sharing Projects (Small Projects & TBD)	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
Roanoke County Broadband Initiative	29,513	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,106,670
Woodhaven Property Acquisition & Improvements	0	0	0	0	387,200	387,697	387,869	387,715	387,235	386,430	2,324,146
Human Services											
Capital Maintenance Program - Parks & Rec	510,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	3,885,000
Roanoke River East Greenway	0	0	0	0	0	0	0	0	0	0	0
Roanoke River East Greenway Extension	0	0	125,000	0	0	0	0	0	0	0	125,000
Mount Pleasant Library Improvements	120,000	0	0	0	0	0	0	0	0	0	120,000
Countywide Library Public Use Computers Repl. Plan	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
Hollins Library Replacement	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Internal Services											
Capital Maintenance Program - General Services	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
Human Resources and Payroll Modules	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000

Capital Improvement Program FY 2019 – FY 2028



All Funding Sources with Projects

All Funding Sources (continued)

Funding Source/Functional Area/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Roanoke County - Unrestricted Cash											
Public Safety											
Capital Maintenance Program - Sheriff	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
General District Court Renovations and Furnishings	125,000	0	0	0	0	0	0	0	0	0	125,000
Jail Control Room/Security Camera Upgrade	492,000	0	0	0	0	0	0	0	0	0	492,000
Jail Abatement (Flooring)	0	150,880	0	0	0	0	0	0	0	0	150,880
Diesel Exhaust Removal System	0	0	0	0	0	0	0	525,000	0	0	525,000
Roanoke County - Unrestricted Cash Total	\$3,004,513	\$2,881,358	\$2,532,905	\$2,221,875	\$2,555,139	\$2,694,846	\$2,541,533	\$3,066,379	\$2,792,218	\$2,656,430	\$26,947,196
Stormwater Local Assistance Fund											
Community Services											
NPDES - MS4 BMP Construction	0	0	400,000	0	0	400,000	0	0	400,000	0	1,200,000
Stormwater Local Assistance Fund Total	\$0	\$0	\$400,000	\$0	\$0	\$400,000	\$0	\$0	\$400,000	\$0	\$1,200,000
Transfer from Roanoke County Schools											
Internal Services											
Human Resources and Payroll Modules	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000
Transfer from Roanoke County Schools Total	\$432,500	\$487,500	\$65,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$985,000
Transfer from Fee Class											
Human Services											
Capital Maintenance Program - Parks & Recreation	200,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,900,000
Transfer from Fee Class Total	\$200,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,900,000
Transfer from CommIT Fund											
Internal Services											
County-Wide Computer Replacement Program	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	2,750,000
IT Infrastructure Replacement Capital Maint. Program	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
Transfer from CommIT Fund Total	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$825,000	\$8,250,000
Transportation Alternatives Grant											
Human Services											
Roanoke River East Greenway Extension	0	0	366,606	0	0	0	0	0	0	0	366,606
Transportation Alternatives Grant Total	\$0	\$0	\$366,606	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$366,606

Capital Improvement Program FY 2019 – FY 2028



All Funding Sources with Projects

All Funding Sources (continued)

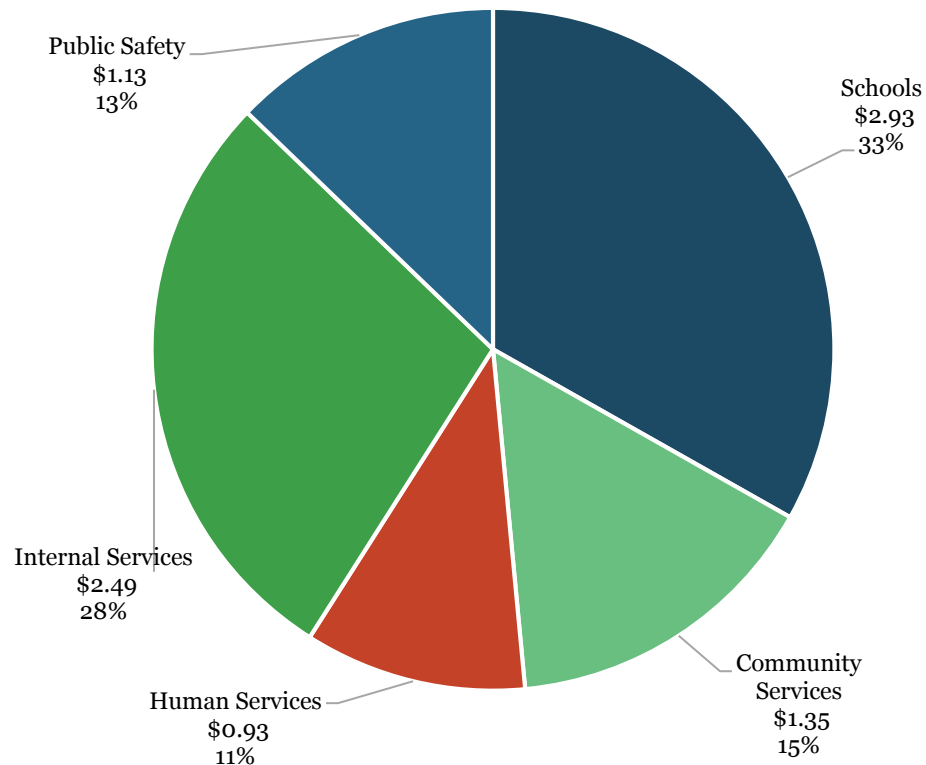
Funding Source/Functional Area/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Roanoke County Schools - All Funding Sources											
Schools											
Transfer from Schools General Fund	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
Major Capital Reserves	1,566,621	112,613	1,149,163	0	0	0	0	0	0	0	2,828,397
Debt Fund - Schools	350,000	350,000	1,441,502	0	1,275,856	640,701	676,244	650,000	128,924	0	5,513,227
2015 VPSA Refunding Credit	0	0	330,402	0	227,649	114,806	112,556	0	148,096	0	933,509
2017 VPSA Refunding Credit	15,879	24,887	23,888	0	0	0	0	0	0	171,187	235,841
VPSA Bond Issue	0	0	10,000,000	9,232,185	767,815	10,000,000	10,000,000	0	10,000,000	10,000,000	60,000,000
Roanoke County - All Funding Sources	\$2,932,500	\$1,487,500	\$13,944,955	\$10,232,185	\$3,271,320	\$11,755,507	\$11,788,800	\$1,650,000	\$11,277,020	\$11,171,187	\$79,510,974
Total FY 19-28 County & Schools CIP	\$8,836,319	\$16,819,278	\$18,597,266	\$13,741,860	\$16,565,459	\$15,975,353	\$15,455,333	\$5,841,379	\$15,594,238	\$14,952,617	\$142,379,102



FY 2019 – FY 2028 Adopted Capital Improvement Program Summary of County & Schools Projects by Functional Teams

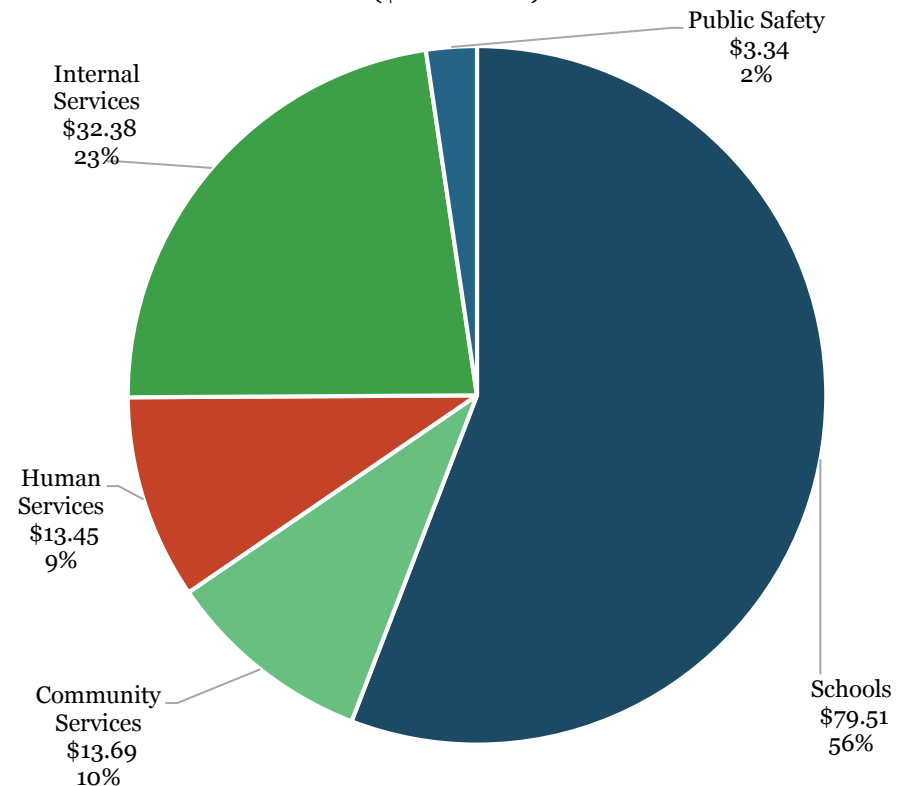
FY 2019
\$8,836,319

(\$ in millions)



FY 2019 - 2028
\$142,379,102

(\$ in millions)





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Summary of County & Schools Projects by Functional Teams

Roanoke County & Roanoke County Public Schools Summary of Expenditures by Functional Area & Department											
Functional Team/Department	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19-28
Public Safety											
Fire & Rescue	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$0	\$0	\$525,000
Sheriff	695,000	279,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	1,734,000
Communications & IT	311,000	642,000	0	0	0	0	0	0	0	0	953,000
General District Court	125,000	0	0	0	0	0	0	0	0	0	125,000
Subtotal, Public Safety	1,131,000	921,000	95,000	95,000	95,000	95,000	95,000	620,000	95,000	95,000	3,337,000
Community Services											
Community Development	752,240	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	3,002,240
Stormwater Management	50,500	300,000	800,000	300,000	300,000	850,000	300,000	300,000	750,000	300,000	4,250,500
Economic Development	550,079	545,778	545,705	549,675	772,139	774,846	771,533	771,379	772,218	386,430	6,439,782
Subtotal, Community Services	1,352,819	1,095,778	1,595,705	1,099,675	1,322,139	1,874,846	1,321,533	1,321,379	1,772,218	936,430	13,692,522
Human Services											
Parks and Recreation	710,000	675,000	1,166,606	675,000	5,775,000	675,000	675,000	675,000	675,000	675,000	12,376,606
Library	220,000	40,000	40,000	65,000	13,000	0	0	0	200,000	500,000	1,078,000
Subtotal, Human Services	930,000	715,000	1,206,606	740,000	5,788,000	675,000	675,000	675,000	875,000	1,175,000	13,454,606
Internal Services											
General Services	800,000	10,800,000	800,000	750,000	5,264,000	750,000	750,000	750,000	750,000	750,000	22,164,000
Finance	865,000	975,000	130,000	0	0	0	0	0	0	0	1,970,000
Communications & IT	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	8,250,000
Subtotal, Internal Services	2,490,000	12,600,000	1,755,000	1,575,000	6,089,000	1,575,000	1,575,000	1,575,000	1,575,000	1,575,000	32,384,000
Roanoke County Public Schools											
All Schools Projects	2,932,500	1,487,500	13,944,955	10,232,185	3,271,320	11,755,507	11,788,800	1,650,000	11,277,020	11,171,187	79,510,974
Subtotal, Roanoke County Public Schools	2,932,500	1,487,500	13,944,955	10,232,185	3,271,320	11,755,507	11,788,800	1,650,000	11,277,020	11,171,187	79,510,974
Subtotal, FY 19-28 County & Schools	\$8,836,319	\$16,819,278	\$18,597,266	\$13,741,860	\$16,565,459	\$15,975,353	\$15,455,333	\$5,841,379	\$15,594,238	\$14,952,617	\$142,379,102



County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program All County & Schools Projects

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Public Safety											
Sheriff											
Capital Maintenance Program - Sheriff	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
Jail Control Room/Security Camera Upgrade	600,000	0	0	0	0	0	0	0	0	0	600,000
Jail Abatement (Flooring)	0	184,000	0	0	0	0	0	0	0	0	184,000
<i>Sheriff Total</i>	695,000	279,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	1,734,000
Communications & IT											
Public Safety Radio Replacement	0	0	0	0	0	0	0	0	0	0	0
Conventional Backup Repeater Replacement	150,000	0	0	0	0	0	0	0	0	0	150,000
Digital Microwave Ring Replacement	161,000	642,000	0	0	0	0	0	0	0	0	803,000
<i>Communications & IT Total</i>	311,000	642,000	0	0	0	0	0	0	0	0	953,000
Fire & Rescue											
Diesel Exhaust Removal System	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$0	\$0	\$525,000
<i>Fire & Rescue Total</i>	0	0	0	0	0	0	0	525,000	0	0	525,000
General District Court											
General District Court Renovations and Furnishings	125,000	0	0	0	0	0	0	0	0	0	125,000
<i>General District Court Total</i>	125,000	0	0	0	0	0	0	0	0	0	125,000
Public Safety Total	\$1,131,000	\$921,000	\$95,000	\$95,000	\$95,000	\$95,000	\$95,000	\$620,000	\$95,000	\$95,000	\$3,337,000
Community Services											
Community Development											
Comp. Public Asset and Work Mngt Solutions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Plantation Road Phase I	0	0	0	0	0	0	0	0	0	0	0
Lila Drive Intersection & Reconstruction	0	0	0	0	0	0	0	0	0	0	0
Huffman Lane Improvements	0	0	0	0	0	0	0	0	0	0	0
West Main Street Pedestrian Improvements	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
Dry Hollow Road Safety Improvements	0	0	0	0	0	0	0	0	0	0	0

Capital Improvement Program FY 2019 – FY 2028



All County and Schools Capital Projects

All Projects (continued)

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Community Services											
Community Development											
Fallowater Lane Extension	502,240	0	0	0	0	0	0	0	0	0	502,240
Buck Mountain Road/Starkey Road Intersection	250,000	250,000	0	0	0	0	0	0	0	0	500,000
VDOT Revenue Sharing Projects (Small Projects & TBD)	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
Community Development Total	752,240	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	3,002,240
Stormwater Management											
NPDES - Leachate Management System	0	0	0	0	0	0	0	0	0	0	0
Restoration of Glade Creek Phase II	0	0	0	0	0	0	0	0	0	0	0
Maintenance of Effort Projects - Drainage	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
NPDES - MS4 BMP Construction	50,500	100,000	600,000	100,000	100,000	650,000	100,000	100,000	550,000	100,000	2,450,500
Stormwater Management Total	50,500	300,000	800,000	300,000	300,000	850,000	300,000	300,000	750,000	300,000	4,250,500
Economic Development											
Roanoke County Broadband Initiative	387,279	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,464,436
Woodhaven Property Acquisition & Improvements	162,800	162,800	162,800	162,800	387,200	387,697	387,869	387,715	387,235	386,430	2,975,346
Economic Development Total	550,079	545,778	545,705	549,675	772,139	774,846	771,533	771,379	772,218	386,430	6,439,782
Community Services Total	\$1,352,819	\$1,095,778	\$1,595,705	\$1,099,675	\$1,322,139	\$1,874,846	\$1,321,533	\$1,321,379	\$1,772,218	\$936,430	\$13,692,522
Human Services											
Parks and Recreation											
Capital Maintenance Program - Parks & Rec	\$710,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$6,785,000
Sports Field Lighting	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Roanoke River East Greenway	0	0	491,606	0	0	0	0	0	0	0	491,606
Explore Park	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Arnold R. Burton Softball Complex Improvements	0	0	0	0	720,000	0	0	0	0	0	720,000
Hollins Park Improvements	0	0	0	0	440,000	0	0	0	0	0	440,000
Parks and Recreation Total	710,000	675,000	1,166,606	675,000	5,775,000	675,000	675,000	675,000	675,000	675,000	12,376,606
Library											
Countywide Library Public Use Computer Repl. Plan	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
Mount Pleasant Library Improvements	120,000	0	0	0	0	0	0	0	0	0	120,000
Hollins Library Replacement	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Library Total	220,000	40,000	40,000	65,000	13,000	0	0	0	200,000	500,000	1,078,000
Human Services Total	\$930,000	\$715,000	\$1,206,606	\$740,000	\$5,788,000	\$675,000	\$675,000	\$675,000	\$875,000	\$1,175,000	\$13,454,606

Capital Improvement Program FY 2019 – FY 2028



All County and Schools Capital Projects

All Projects (continued)

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Internal Services											
Communications & IT											
County-Wide Computer Replacement Program	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$2,750,000
IT Infrastructure Repl. Capital Maintenance Program	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
<i>Comm/IT Total</i>	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	8,250,000
Finance											
Integrated Financial System	0	0	0	0	0	0	0	0	0	0	0
Human Resources and Payroll Modules	865,000	975,000	130,000	0	0	0	0	0	0	0	\$1,970,000
<i>Finance Total</i>	865,000	975,000	130,000	0	0	0	0	0	0	0	1,970,000
General Services											
Fleet Center Generator	0	0	0	0	0	0	0	0	0	0	0
Capital Maintenance Program - General Services	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
Public Service Center Construction	0	10,000,000	0	0	2,204,000	0	0	0	0	0	12,204,000
Bent Mountain Comm. Center Repairs and Renovations	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000
<i>General Services Total</i>	800,000	10,800,000	800,000	750,000	5,264,000	750,000	750,000	750,000	750,000	750,000	22,164,000
Internal Services Total	\$2,490,000	\$12,600,000	\$1,755,000	\$1,575,000	\$6,089,000	\$1,575,000	\$1,575,000	\$1,575,000	\$1,575,000	\$1,575,000	\$32,384,000
Subtotal, Roanoke County Projects	\$5,903,819	\$15,331,778	\$4,652,311	\$3,509,675	\$13,294,139	\$4,219,846	\$3,666,533	\$4,191,379	\$4,317,218	\$3,781,430	\$62,868,128
Roanoke County Public Schools											
Schools											
Cave Spring High School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HR Payroll and Software System	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000
Capital Maintenance Program	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
William Byrd High School	1,500,000	0	12,879,955	8,372,185	0	0	0	0	0	0	22,752,140
Hidden Valley Middle School	0	0	0	860,000	2,271,320	10,051,477	0	0	0	0	13,182,797
Burlington Elementary	0	0	0	0	0	325,000	4,975,199	0	0	0	5,300,199
Glenvar Elementary	0	0	0	0	0	379,030	5,813,601	0	0	0	6,192,631
WE Cundiff Elementary	0	0	0	0	0	0	0	650,000	9,386,373	0	10,036,373
Glen Cove Elementary	0	0	0	0	0	0	0	0	890,647	10,171,187	11,061,834
<i>Schools Total</i>	2,932,500	1,487,500	13,944,955	10,232,185	3,271,320	11,755,507	11,788,800	1,650,000	11,277,020	11,171,187	79,510,974
Subtotal, Roanoke County Public Schools Projects	\$2,932,500	\$1,487,500	\$13,944,955	\$10,232,185	\$3,271,320	\$11,755,507	\$11,788,800	\$1,650,000	\$11,277,020	\$11,171,187	\$79,510,974
Total, FY 19-28 County & Schools Projects	\$8,836,319	\$16,819,278	\$18,597,266	\$13,741,860	\$16,565,459	\$15,975,353	\$15,455,333	\$5,841,379	\$15,594,238	\$14,952,617	\$142,379,102



County of Roanoke, Virginia FY 2019 – FY 2028 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 2019 - FY 2028 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 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19-FY 28
Public Safety											
Public Safety Radio Replacement	\$0	\$15,000	\$15,450	\$15,914	\$16,391	\$16,883	\$17,389	\$17,911	\$18,448	\$19,002	\$152,387
Digital Microwave Ring Replacement	\$0	\$65,000	\$66,950	\$68,959	\$71,027	\$73,158	\$75,353	\$77,613	\$79,942	\$82,340	\$660,342
County Jail Flooring Abatement	\$0	\$14,485	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$14,485
Community Services											
Comprehensive Public Asset and Work Management Solution	\$0	\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$101,591
Plantation Road Phase I	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
*Roanoke County Broadband Initiative	\$325,000	\$325,000	\$325,000	\$325,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD
NPDES - Leachate Management System Upgrade	\$0	\$48,000	\$49,440	\$50,923	\$52,451	\$54,024	\$55,645	\$57,315	\$59,034	\$60,805	\$487,637
Restoration of Glade Creek in Vinyard Park Phase II	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

Capital Improvement Program FY 2019 – FY 2028



Additional Operating Impacts

Additional Operating Impacts (continued)

Functional Team/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19-FY 28
Internal Services											
Bent Mountain Community Center Repairs and Renovations	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD	TBD	TBD	TBD
Fleet Service Center Generator	\$0	\$0	\$1,100	\$1,133	\$1,167	\$1,202	\$1,238	\$1,275	\$1,313	\$1,353	\$9,782
Human Services											
Countywide Sports Field Lighting Plan	\$0	\$0	\$0	\$0	\$0	\$30,000	\$30,900	\$31,827	\$32,782	\$33,765	\$159,274
Roanoke River East Greenway Extension	\$0	\$10,000	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593	\$11,941	\$12,299	\$12,668	\$101,591
Explore Park	\$0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Arnold R. Burton Softball Complex Imprv	\$0	\$0	\$0	\$0	\$0	\$5,000	\$5,150	\$5,305	\$5,464	\$5,628	\$26,546
Hollins Park Improvements	\$0	\$0	\$0	\$0	\$0	\$6,500	\$6,695	\$6,896	\$7,103	\$7,316	\$34,509
Roanoke County Public Schools											
Cave Spring High School	\$0	\$0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
William Byrd High School	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD	TBD	TBD	TBD
Hidden Valley Middle School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD	TBD
Burlington Elementary School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD	TBD
Glenvar Elementary School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	TBD	TBD	TBD

**Additional operating impacts already captured in the operating budget.*



Public Safety Functional Team





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Public Safety Summary

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Public Safety											
Sheriff											
Capital Maintenance Program - Sheriff	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
Jail Control Room/Security Camera Upgrade	600,000	0	0	0	0	0	0	0	0	0	600,000
Jail Abatement (Flooring)	0	184,000	0	0	0	0	0	0	0	0	184,000
<i>Sheriff Total</i>	<i>695,000</i>	<i>279,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>95,000</i>	<i>1,734,000</i>
Communications & IT											
Public Safety Radio Replacement	0	0	0	0	0	0	0	0	0	0	0
Conventional Backup Repeater Replacement	150,000	0	0	0	0	0	0	0	0	0	150,000
Digital Microwave Ring Replacement	161,000	642,000	0	0	0	0	0	0	0	0	803,000
<i>Communications & IT Total</i>	<i>311,000</i>	<i>642,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>953,000</i>
Fire & Rescue											
Diesel Exhaust Removal System	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$525,000	\$0	\$0	\$525,000
<i>Fire & Rescue Total</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>525,000</i>	<i>0</i>	<i>0</i>	<i>525,000</i>
General District Court											
General District Court Renovations and Furnishings	125,000	0	0	0	0	0	0	0	0	0	125,000
<i>General District Court Total</i>	<i>125,000</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>125,000</i>
Public Safety Total	\$1,131,000	\$921,000	\$95,000	\$95,000	\$95,000	\$95,000	\$95,000	\$620,000	\$95,000	\$95,000	\$3,337,000



Sheriff's Office Capital Maintenance Program

Department: Sheriff

Location: Countywide

Magisterial District: Countywide

Category: Capital Maintenance Program

Est. Useful Life: 10-15 years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	1,204,000	254,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
Funding Sources													
Roanoke County - Unrestricted Cash	1,204,000	254,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
Total Funding Sources	1,204,000	254,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	95,000	950,000
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 \$95,000 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:

The Capital Maintenance Program (CMP) is the vehicle in which County assets are programmed to receive regular maintenance and repair. Ongoing preventive maintenance of all facilities will help ensure the safety and value of these assets while avoiding potentially large costs resulting from lack of proper maintenance. Dedicating \$95,000 each year to the Sheriff CMP will fund repairs and maintenance maximizing the life of the County Jail and Courthouse.

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



Jail Control Room and Security Camera Upgrade

Department: Sheriff

Category: Replacement

Location: 305 East Main Street, Salem, VA 24153

Est. Useful Life: 10 years

Magisterial District: City of Salem

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	600,000	0	600,000	0	0	0	0	0	0	0	0	0	600,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	492,000	0	492,000	0	0	0	0	0	0	0	0	0	492,000
City of Salem	108,000	0	108,000	0	0	0	0	0	0	0	0	0	108,000
Total Funding Sources	600,000	0	600,000	0	0	0	0	0	0	0	0	0	600,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Jail Control Room and Security Camera Upgrade project, planned for FY 2019, anticipates replacing 135 obsolete analog cameras with internet protocol (IP) cameras while upgrading the control room's touch screen security system. Replacement equipment for the current system is difficult to acquire, and the control room is a vital component of the security of the jail. The City of Salem is anticipated to contribute \$108,000 for the project.



Jail Control Room and Security Camera Upgrade (continued)

Project Description and Justification:

The Jail Control Room and Security Camera Upgrade anticipates replacing 135 obsolete analog cameras with internet protocol (IP) cameras and to upgrade the control room's touch screen security system. The Jail's security system is an integral part of day to day operations. These upgrades are pressing, as current equipment in use is now unsupported by vendors. IP cameras offer a number of benefits including superior image quality, versatility, data network connectivity, data encryption, and require no specialty software. These cameras may produce efficiencies in staff resources. The City of Salem will be responsible for a portion of the total costs of this project.

Additional Operating Impacts:

An additional impact to the operating budget is not anticipated, as operating costs for the existing system will be sufficient to cover maintenance of the new equipment.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to the Comprehensive Plan, Chapter 4- Community Facilities: "Provide a safe and secure jail environment." The Jail has a legal obligation to comply with the Minimum Standards for Local Jails and Lockups as established by the Virginia Board of Corrections. Per Standard 6VAC15-40-840, the facility shall maintain a designated post, staffed 24 hours a day that controls activities and flow of people in and out of the secure area of the jail. In order to maintain accreditation with the American Correctional Association, the jail is obligated to comply with standards regarding safety.

Project Highlights and Key Milestones:

- Last upgrade to camera system and control room was in 2009-2010.
- Software support for cameras ended in 2012.
- New technology will provide for more camera capabilities.
- Camera replacement is planned for FY 2019.
- Project originally planned for FY 2020; moved to FY 2019 at the request of the Sheriff.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



Roanoke County Jail Abatement

Department: Sheriff

Location: 401 East Main Street, Salem, VA 24153

Magisterial District: City of Salem

Category: Replacement

Est. Useful Life: 15-20 years

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	184,000	0	0	184,000	0	0	0	0	0	0	0	0	184,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	150,880	0	0	150,880	0	0	0	0	0	0	0	0	150,880
City of Salem	33,120	0	0	33,120	0	0	0	0	0	0	0	0	33,120
Total Funding Sources	184,000	0	0	184,000	0	0	0	0	0	0	0	0	184,000
Operating Impacts			0	14,485	0	0	0	0	0	0	0	0	14,485



Project Summary:

The Roanoke County Jail abatement project, planned for FY 2020, consists of removal of VCT tile and mastic in all but one inmate housing units, as well as all staff work areas, jail intake area and medical section of the jail. Vinyl laminate sheet flooring was installed over VCT tile. The mastic adhesive is deteriorating and causing the VCT tile to become loose and float under the sheet laminate. This may cause the sheet laminate to separate, exposing the asbestos fibers. The total estimated cost for the project is \$184,000 estimated for abatement, cleaning, and sealing. The City of Salem is anticipated to contribute \$33,120 for this project.



Roanoke County Jail Abatement (continued)

Project Description and Justification:

The flooring throughout the jail facility consists of sheet vinyl that was installed over VCT tile. The VCT tile and mastic both contain asbestos. Deteriorating mastic adhesive may cause the sheet vinyl to separate exposing the asbestos fibers. During prior CIP projects, the floor tile and adhesive mastic were tested and determined to contain asbestos. Asbestos flooring is still present in the staff work areas, 11 inmate housing units, the jail intake area, and the Medical section of the jail. This project will abate the remaining asbestos flooring throughout the jail facility and reseal the concrete flooring. The City of Salem will be responsible for a portion of the costs.

Additional Operating Impacts:

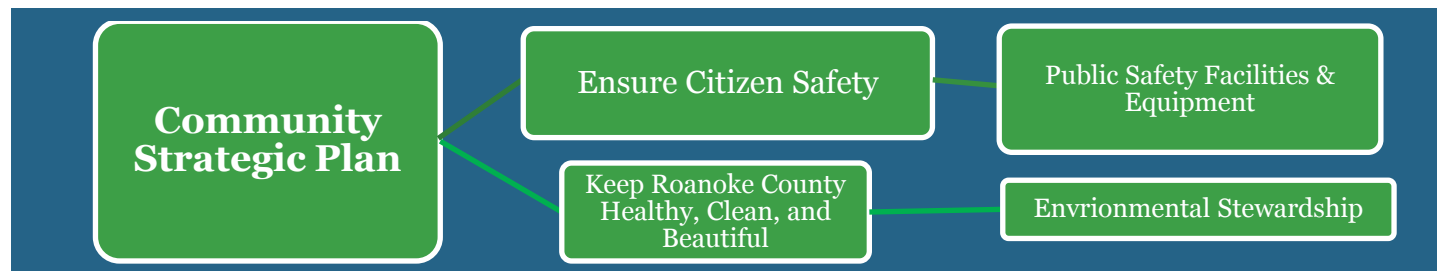
In order to facilitate the abatement and sealing process for inmate housing areas, temporary housing for inmates at the Western Virginia Regional Jail may cost up to \$14,485 during the project. Abating the remaining asbestos flooring will reduce annual maintenance costs associated with the upkeep of sheet vinyl flooring.

Conformance with Plans, Policies, and Legal Obligations:

The Roanoke County/Salem Jail has a legal obligation to comply with the Minimum Standards for Local Jails and Lockups as established by the Virginia Board of Corrections. Standard 6VAC15-40-1140: the facility floors, halls, corridors, and other walkway areas shall be maintained in a clean, dry, hazard-free manner. Additionally, in order to maintain accreditation with the American Correctional Association, the jail is required to comply with their standards regarding safety.

Project Highlights and Key Milestones:

- The original VCT tile and mastic were installed in 1978-79 during the original construction of the jail.
- Vinyl laminate sheeting was installed over the VCT tile and mastic in 2008.
- Abatement of one housing unit was completed in October 2014.
- There have been incidents of VCT tile and mastic separating from laminate flooring.
- Project originally planned for FY 2019; moved to FY 2020 at the request of the Sheriff.
- City of Salem is anticipated to contribute \$33,120 to this project.





Public Safety Radio Replacement

Department: CommIT

Category: Replacement

Location: Countywide

Est. Useful Life: 15 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	3,200,000	3,200,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
CommIT Fund Balance	1,207,000	1,207,000	0	0	0	0	0	0	0	0	0	0	0
Franklin County	108,000	108,000	0	0	0	0	0	0	0	0	0	0	0
Town of Vinton	210,000	210,000	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds	1,675,000	1,675,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	3,200,000	3,200,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	15,000	15,450	15,914	16,391	16,883	17,389	17,911	18,448	19,002	152,387



Project Summary:

Public Safety Radio Replacement project, fully funded in FY 2018, replaces over 900 of the County's inventory of public safety radios, first acquired in 2002. The radios currently in use are no longer manufactured and parts availability is limited, with parts production scheduled to end in 2019. To prevent interruptions in public safety and emergency communications, the radio fleet requires replacement by end-of-useful life. Radio replacement will begin in FY 2018 and will continue through FY 2019.



Public Safety Radio Replacement (continued)

Project Description and Justification:

The fleet of County radios, used in public safety and emergency situations, requires full replacement. The radios, first purchased in 2002, are at the end of their useful life, as the manufacturer ceased production in December 2014 and will end production of parts in December 2019 (according to vendor's Lifecycle plan for the County's model, announced October 2013). Replacement radios will be compatible with the new digital radio system. To prevent interruptions in public safety and emergency communications, the fleet requires replacement by end-of-useful life.

Additional Operating Impacts:

Beginning in FY 2020, there is anticipated to be a recurring impact on the operating budget of \$15,000 to implement additional hardware maintenance contracts.

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:

- Over 900 radios scheduled for replacement.
- Vendor announces Lifecycle Plan in 2013.
- Manufacturing ended 2014 and parts production will cease 2019.
- The Roanoke County Board of Supervisors adopted an ordinance in September 2017 to secure Bond funding toward this project.
- Replacement begins in FY 2018 and continues into FY 2019.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



Conventional Backup Repeater Replacement

Department: CommIT

Location: Countywide

Magisterial District: Countywide

Category: Replacement

Est. Useful Life: 15 years

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	150,000	0	150,000	0	0	0	0	0	0	0	0	0	150,000
Funding Sources													
CommIT Fund Balance	150,000	0	150,000	0	0	0	0	0	0	0	0	0	150,000
Total Funding Sources	150,000	0	150,000	0	0	0	0	0	0	0	0	0	150,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Public Safety Conventional Backup Replacement Project, planned for FY 2019, is anticipated to replace the County's conventional backup repeater stations located at 5 geographically selected radio locations to provide additional coverage to the P25 Trunked Simulcast Public Safety Radio System. The project will also provide backup communications in the event of a Trunked Simulcast Public Safety Radio System failure. The repeaters currently being utilized are no longer in production and parts support is anticipated to end in calendar year 2020.



Conventional Backup Repeater Replacement (continued)

Project Description and Justification:

The County's conventional backup repeaters are nearing end of support from the vendor with parts availability ending in 2020. They are currently being used in public safety as the primary means of backup for the County Digital Radio System and provide coverage in areas that the Trunked Simulcast Public Safety Radio System does not provide. The Conventional Repeaters were installed in 2004 and are approaching end of support and have not been sold by the vendor since 2011. Replacement repeaters need to be compatible with the current line of repeaters, allowing the County to leverage current parts inventory in the Digital Radio System and migrate the replacement equipment to the P25 CAI standard, replacing the older analog modulation used at the time when the repeaters were purchased.

Additional Operating Impacts:

This project may impact the operating budget if service or parts are necessary to maintain the Repeaters, though funding has been available through the operating budget to maintain the existing repeater equipment.

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:

- Six Repeaters were purchased and installed in 2004.
- Conventional Gateways allowing equipment to interface to the IP master site and conventional core Manufacturing ended in 2014 and parts production will cease 2019.
- Product cancellation of current model announced in 2011.
- Parts availability target cancellation of support in 2020.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



Digital Microwave Ring Replacement

Department: CommIT

Location: EOC, 5925 Cove Road, Roanoke, VA 24019

Magisterial District: Countywide

Category: Replacement

Est. Useful Life: 10 years

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	803,000	0	161,000	642,000	0	0	0	0	0	0	0	0	803,000
<u>Funding Sources</u>													
CommIT Fund Balance	803,000	0	161,000	642,000	0	0	0	0	0	0	0	0	803,000
Total Funding Sources	803,000	0	161,000	642,000	0	0	0	0	0	0	0	0	803,000
Operating Impacts			0	65,000	66,950	68,959	71,027	73,158	75,353	77,613	79,942	82,340	660,342



Project Summary:

The Digital Microwave Ring Replacement project, with funding planned in FY 2019 and FY 2020, anticipates replacing the County's 14 Microwave Radios, which have been in service since 2006. The rings currently in use met their anticipated end-of-life date in 2017 and are no longer compatible with the newest operating and flash port software. New equipment and technology will offer more functionality and efficiency than current County microwave rings.

The total project cost is expected to be \$803,000, which will be funded by Communications and Information Technology Fund Balance over FY 2019 and FY 2020.



Digital Microwave Ring Replacement (continued)

Project Description and Justification:

This project schedules replacement of the County's 14 Microwave Radios. The County's 14 Microwave Radios have been in service since 2006 and have a lifespan of approximately 10 years with an end of life date in 2017. Parts production and maintenance service will end at the end of 2019. This project will also include an additional Microwave link, to include spare radios.

Replacement is necessary because the current radios are no longer compatible with the most current operating/flash port software. Equipment and technology now available in the marketplace are much more versatile than the equipment currently in use in Roanoke County. Replacement products may offer the County new and useful multi-functionality, such as pictures, text, video, and automatic location availability.

Additional Operating Impacts:

Beginning in FY 2020, there will be an estimated recurring impact on the county's operating budget of \$65,000 to implement additional hardware maintenance contracts. Actual costs will be known once the microwave radios, hardware, and software are purchased and will be considered as part of the FY 2020 operating budget.

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 County's 14 Microwave radios have been in operation since 2006.
- Vendor life cycle plan has the radio model at end-of-life in 2017.
- Parts production and maintenance service ends in 2019.
- Project is scheduled for funding in FY 2019 and FY 2020, with a "go-live" date in FY 2020.
- Project originally planned for FY 2019 only; additional funding added for an additional microwave link to support regional partners who pay to use the system.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



Diesel Exhaust Removal System

Department: Fire and Rescue/General Services

Category: New Facilities

Location: Countywide Fire and Rescue Stations

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	525,000	0	0	0	0	0	0	0	0	525,000	0	0	525,000
Funding Sources													
Roanoke County - Unrestricted Cash	525,000	0	0	0	0	0	0	0	0	525,000	0	0	525,000
Total Funding Sources	525,000	0	0	0	0	0	0	0	0	525,000	0	0	525,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Diesel Exhaust Removal System project, planned for FY 2026, will install emission filters onto the approximately 60 apparatus to capture 100% of the diesel emissions that would otherwise be expelled into station bays. This project mounts an exhaust filtration device resulting in a cleaner environment.



Diesel Exhaust Removal System (continued)

Project Description and Justification:

The Diesel Exhaust Removal System project will install emission filters onto approximately 60 apparatus to capture 100% of the diesel emissions that would otherwise be expelled into station bays. This project mounts an exhaust filtration device to capture 100% of these emissions.

Most fire apparatus and emergency response vehicles run on diesel fuel. The exhaust from these vehicles is expelled directly into the station bays. An apparatus-mounted exhaust filtration device will capture 100% of these emissions resulting in a cleaner environment.

Additional Operating Impacts:

There is not anticipated to be an additional operating impact with this project. The filtration devices come with a one-year warranty. Maintenance, repair, and replacement filter costs are anticipated to be covered by the existing budget when equipment is installed.

Conformance with Plans, Policies, and Legal Obligations:

This project relates to the departmental goal of maintaining compliance with National Fire Protection Association (NFPA), specifically the NFPA 1500 standard, which specifies the minimum requirements for an occupational safety and health program for fire departments.

Project Highlights and Key Milestones:

- Exhaust filtration device will capture 100% of vehicle emissions into station bays.
- Total cost for this project is approximately \$525,000.
- Project is planned for FY 2026.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



General District Court Renovations and Furnishings

Department: General Services/General District Court

Category: Replacement

Location: 305 East Main Street, Salem, VA 24153

Est. Useful Life: 10-15 Years

Magisterial District: City of Salem

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	125,000	0	125,000	0	0	0	0	0	0	0	0	0	125,000
Funding Sources													
Roanoke County - Unrestricted Cash	125,000	0	125,000	0	0	0	0	0	0	0	0	0	125,000
Total Funding Sources	125,000	0	125,000	0	0	0	0	0	0	0	0	0	125,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The General District Court Renovations and Furnishings project, planned for FY 2019, will provide updates to two courtrooms as well as office space for the Judges, Court Clerk, and staff. The Roanoke County Courthouse was constructed in 1985. Housed within the facility is the Roanoke County General District Court representing the 23rd Judicial District of Virginia.

The courtrooms have not been updated since the building was opened. Limited renovations updating carpet and paint in the office areas were last completed over 15 years ago. The associated finishes in the courtrooms and offices are badly worn, outdated, and have exceeded their reasonable service life expectancy.



General District Court Renovations and Furnishings (continued)

Project Description and Justification:

The Roanoke County General District Court for the 23rd Judicial Circuit of Virginia is located in the County Courthouse Complex in downtown Salem. This project will fund renovations to outdated furniture and carpet in the courtrooms, judicial chambers, and clerk's office. The General District Courtrooms are highly used public spaces with over 14,000 hearings occurring in 2016.

The final scope of work will be determined by the funding level as approved by the Board of Supervisors and through consult with officials and staff at the General District Court.

Additional Operating Impacts:

There are no additional operational cost impacts for this project. Specific furniture and materials will be selected to best provide for long term functionality and cost benefit.

Conformance with Plans, Policies, and Legal Obligations:

Furniture and floor coverings are necessary components for the operation of the General District Court.

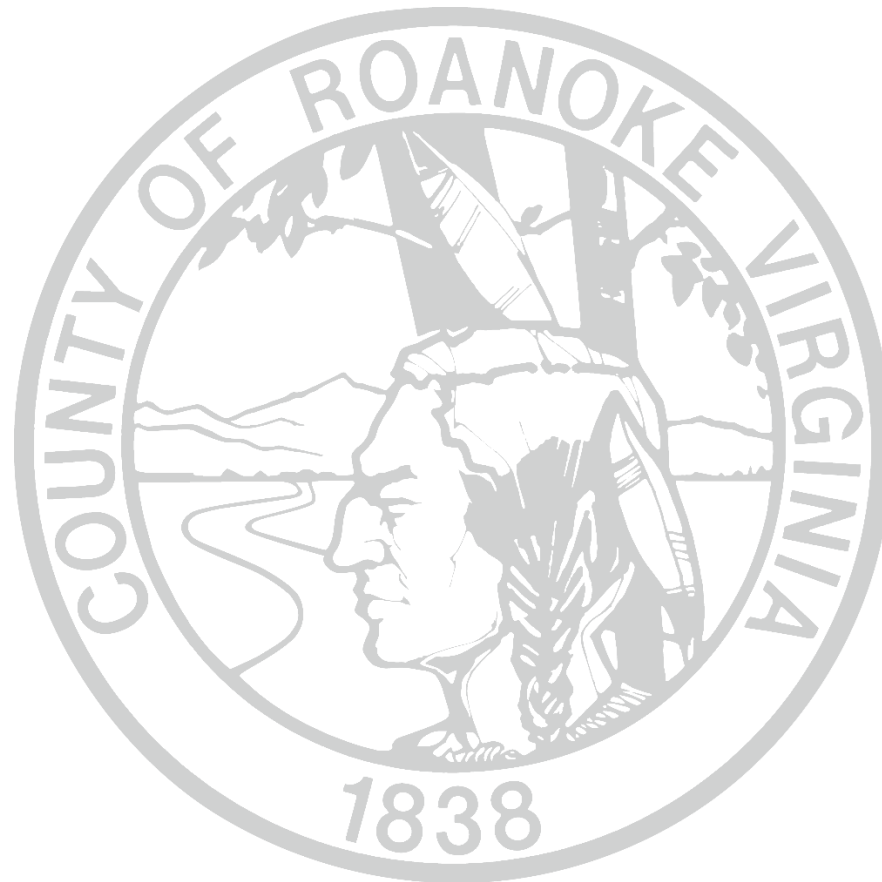
Project Highlights and Key Milestones:

- This project is scheduled for funding in FY 2019.
- Project may include: replacing furniture and carpet, repainting, refinishing wood work, updating the kitchen area and replacing furniture in the Roanoke County General District Court located at the County Courthouse.
- Work will be prioritized based on the approved amount of funding.

**Organizational
Strategic Plan**

Responsive Service
Delivery

Develop a Strategy to
Streamline Processes and
Services





Community Services Functional Team





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Community Services Summary

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Community Services											
Community Development											
Comp. Public Asset and Work Mngt Solutions	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Plantation Road Phase I	0	0	0	0	0	0	0	0	0	0	0
Lila Drive Intersection & Reconstruction	0	0	0	0	0	0	0	0	0	0	0
Huffman Lane Improvements	0	0	0	0	0	0	0	0	0	0	0
West Main Street Pedestrian Improvements	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
Dry Hollow Road Safety Improvements	0	0	0	0	0	0	0	0	0	0	0
Fallowater Lane Extension	502,240	0	0	0	0	0	0	0	0	0	502,240
Buck Mountain Road/Starkey Road Intersection	250,000	250,000	0	0	0	0	0	0	0	0	500,000
VDOT Revenue Sharing Projects (Small Projects & TBD)	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
<i>Community Development Total</i>	<i>752,240</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>250,000</i>	<i>3,002,240</i>
Stormwater Management											
NPDES - Leachate Management System	0	0	0	0	0	0	0	0	0	0	0
Restoration of Glade Creek Phase II	0	0	0	0	0	0	0	0	0	0	0
Maintenance of Effort Projects - Drainage	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
NPDES - MS4 BMP Construction	50,500	100,000	600,000	100,000	100,000	650,000	100,000	100,000	550,000	100,000	2,450,500
<i>Stormwater Management Total</i>	<i>50,500</i>	<i>300,000</i>	<i>800,000</i>	<i>300,000</i>	<i>300,000</i>	<i>850,000</i>	<i>300,000</i>	<i>300,000</i>	<i>750,000</i>	<i>300,000</i>	<i>4,250,500</i>
Economic Development											
Roanoke County Broadband Initiative	387,279	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,464,436
Woodhaven Property Acquisition & Improvements	162,800	162,800	162,800	162,800	387,200	387,697	387,869	387,715	387,235	386,430	2,975,346
<i>Economic Development Total</i>	<i>550,079</i>	<i>545,778</i>	<i>545,705</i>	<i>549,675</i>	<i>772,139</i>	<i>774,846</i>	<i>771,533</i>	<i>771,379</i>	<i>772,218</i>	<i>386,430</i>	<i>6,439,782</i>
Community Services Total	\$1,352,819	\$1,095,778	\$1,595,705	\$1,099,675	\$1,322,139	\$1,874,846	\$1,321,533	\$1,321,379	\$1,772,218	\$936,430	\$13,692,522



Comprehensive Public Asset and Work Management Solutions

Department: Community Development

Category: New Facilities

Location: 5204 Bernard Drive, Roanoke, VA 24018 (Community Development Office)

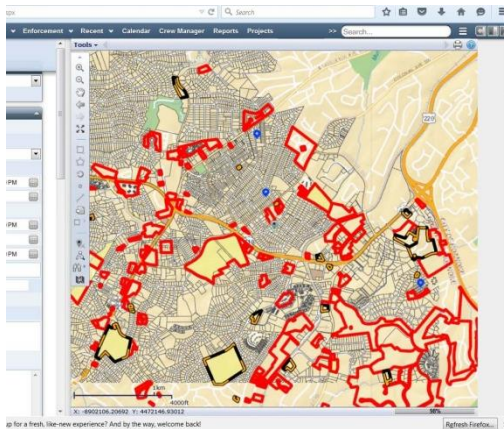
Est. Useful Life: 15 years

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	540,000	540,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County - Unrestricted Cash	540,000	540,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	540,000	540,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	10,000	10,300	10,609	10,927	11,255	11,593	11,941	12,299	12,668	101,591



Project Summary:

The Comprehensive Public Asset and Work Management Solutions project converts ten years of historical data in the Community Development department to a new software system. This is Phase II of the project and consists of expanding the use of the software system to manage land development and building plan reviews, permitting, and building inspections and enforcement. The new system will allow staff to operate one comprehensive system and will improve work process management and tracking, and provide key performance indicators to assist in departmental management. County staff is in the process of finalizing the entire scope of work for project implementation.



Comprehensive Public Asset and Work Management Solutions (continued)

Project Description and Justification:

The Comprehensive Public Asset and Work Management Solutions project converts ten years of historical data in the department to a new software system. This is Phase II of the project and consists of expanding the use of the software system to manage land development and building plan reviews, permitting, and building inspections and enforcement. The new system will allow staff to operate one comprehensive system and will improve work process management and tracking, and provide key performance indicators to assist in departmental management. The vendor of the current system in use will not continue investing in the product and it is increasingly difficult to maintain with age.

Additional Operating Impacts:

The total net impact from current annual maintenance costs is estimated an increase of \$10,000, and will likely impact the FY 2020 operating budget.

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 the Department's Building Services and Code Enforcement. Shifting fully to a web-based solution connected to wireless networks will improve mobility and flexibility for our citizens, customers, and staff.

Project Highlights and Key Milestones:

- Phase I, Asset Management, was funded via general operating dollars and is nearing completion.
- Software was acquired and configured for use by Storm Drain Operations in FY 2016 to better track costs on projects, to manage and track erosion and sediment control, stormwater inspections, and enforcement.
- Phase II of the project consists of expanding the use of this current software system to manage land development and building plan reviews, permitting, and building inspections and enforcement.

**Community
Strategic Plan**

Position Roanoke County for
Future Economic Growth

Business-Friendly
Development Process



Plantation Road-Phase I

Department: Community Development

Category: Replacement

Location: Plantation Road

Est. Useful Life: 30 years

Magisterial District: Hollins

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	4,331,415	4,331,415	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County -													
Unrestricted Cash	803,936	803,936	0	0	0	0	0	0	0	0	0	0	0
Economic Development Funds	89,484	89,484	0	0	0	0	0	0	0	0	0	0	0
Federal/VDOT Grants	2,833,343	2,833,343	0	0	0	0	0	0	0	0	0	0	0
RSTP Grants	400,000	400,000											0
Reimbursement from WVWA	204,652	204,652	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	4,331,415	4,331,415	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD



Project Summary:

The Plantation Road Bicycle, Pedestrian and Streetscape Improvement project encompasses almost one mile of Plantation Road from Interstate 81 to Williamson Road. The improvements planned have been broken into multiple phases.

Phase I, currently under construction, includes a shared use path along the west side of Plantation Road from Williamson Road to Walrond Drive with curb, gutter and street trees. Extensive utility relocations are also required as part of this project. Over \$3.4 million of the total \$4.33 million project costs are from non-County funding sources. Construction began in March 2017 and is anticipated to be complete in Summer 2018.



Plantation Road-Phase I (continued)

Project Description and Justification:

Phase I of the Plantation Road Bicycle, Pedestrian and Streetscape Improvement project includes the development of a shared use path along the west side of Plantation Road from Williamson Road to Walrond Drive with curb, gutter, and street trees and also requires extensive utility relocations.

Construction on Phase I began in March 2017 and is expected to be complete by summer 2018. This improvement will provide a safe path for pedestrians to travel safely along Plantation Road and will complement the Williamson Road Pedestrian Improvements project (funded in FY 2018) with preliminary engineering planned to begin in spring/summer 2018.

Additional Operating Impacts:

Maintenance responsibilities are unknown at this time. The completion of the overall Plantation Road Project will increase safety for users of the Plantation Road corridor. Additionally, the overall Plantation Road Project is anticipated to increase economic development opportunities, expand transportation options, improve environmental quality, and enhance overall quality of life for users.

Conformance with Plans, Policies, and Legal Obligations:

This project is in conformance with many county plans and policies, with the most significant being: Roanoke County Comprehensive Plan (2005): Plantation Road Project falls within adopted Designated Growth Areas established in September, 2015; Hollins Area Plan: Adopted by the Board of Supervisors in 2008 as a component of the Comprehensive Plan; the Plantation Road Project begins to implement the Hollins Area Plan; and the Plantation Road Corridor Study (2012): Commissioned by VDOT to examine existing and future conditions and resulting transportation needs.

Project Highlights and Key Milestones:

- Phase I of the Plantation Road Project includes a shared use path along the west side of Plantation Road from Williamson Road to Walrond Drive with curb, gutter and street trees.
- Summer 2015 - Winter 2016: Right-of-Way Phase completed.
- December 2015: 100% Plans completed.
- October/November 2016: Project advertised for construction.
- March 2017: Groundbreaking Ceremony
- Summer 2018: Anticipated project completion.





Lila Drive Intersection and Reconstruction Project

Department: Community Development

Category: New Facilities

Location: Lila Drive

Est. Useful Life: 30 years

Magisterial District: Hollins

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	200,000	200,000	0	0	0	0	0	0	0	0	0	0	0
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	200,000	200,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	200,000	200,000	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 Lila Drive Intersection and Reconstruction project will be completed in two phases. The first, planned for FY 2018 and fully funded with County resources, reconstructs a portion of Lila Drive to public road standards including constructing a T-style turnaround which will make Lila Drive eligible for acceptance into the VDOT Secondary Road System. Minor drainage improvements are also planned. The project costs for Phase I are \$200,000. Roanoke County will administer the project, and this phase is expected to be completed in 2018.

Phase II of the project was awarded Smart Scale funding in the amount of \$1.23 million and will be VDOT administered. This phase improves drainage, and constructs a traffic signal with pedestrian crosswalks and signals. Since this phase is VDOT administered, Commonwealth funding does not need to be appropriated.



Lila Drive Intersection and Reconstruction (continued)

Project Description and Justification:

The County portion of this project includes constructing a T-style turnaround and pavement improvements, which will make Lila Drive eligible for acceptance into the VDOT Secondary Road System. Minor drainage improvements also planned.

Phase II, the proposed Smart Scale intersection improvements, will enable employees, residents, customers, and visitors to access area businesses, parks, and trails. The planned access management improvements will significantly reduce conflict points and improve traffic flow. The overall project is anticipated to increase economic development opportunities, expand transportation options, improve safety for all users, and enhance the overall quality of life for users. Phase II requires not County funding and will be administered by VDOT.

Additional Operating Impacts:

When Lila Drive is accepted into the VDOT Secondary System, VDOT will assume maintenance responsibilities.

Conformance with Plans, Policies, and Legal Obligations:

This project is in conformance with many County plans and policies, with the most significant being: Roanoke County Comprehensive Plan (2005): Plantation Road Project falls within adopted Designated Growth Areas established in September, 2015; Hollins Area Plan: Adopted by the Board of Supervisors in 2008 as a component of the Comprehensive Plan- the Plantation Road Project begins to implement the Hollins Area Plan; and the Plantation Road Corridor Study (2012): Commissioned by VDOT to examine existing and future conditions and resulting transportation needs.

Project Highlights and Key Milestones:

- Roanoke County purchased Lila Drive in April 2015.
- A turnaround has been designed and approved by VDOT; right-of-way has been obtained from two property owners.
- Turnaround project expected to be completed in calendar year 2018.
- In FY 2017, Smart Scale funding in the amount of \$1.23 million was allocated to fund the Lila Drive traffic signal and partial reconstruction as Phase II of the project.





Huffman Lane Improvements

Department: Community Development

Category: Replacement

Location: Huffman Lane

Est. Useful Life: 30 Years

Magisterial District: Vinton Magisterial District

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	70,000	70,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County - Unrestricted Cash	70,000	70,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	70,000	70,000	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 Huffman Lane Improvements project is a rural addition project to extend Huffman Lane 0.10 miles from end of state maintenance to a new turn around. This project would complete a long standing effort to improve Huffman Lane and benefit residents of that neighborhood.

Roanoke County has been awarded revenue sharing funds (\$70,000) for the engineering and construction phase, which requires a \$70,000 match appropriated in prior years. Roanoke County is locally administering the preliminary engineering phase, and will work with neighbors to secure necessary right of way. Following acquisition of right of way, VDOT will administer the construction phase so the state match does not require appropriation.



Huffman Lane Improvements (continued)

Project Description and Justification:

The Huffman Lane Improvements project is a rural addition project to extend Huffman Lane 0.10 miles from end of state maintenance to a new turn around. This project would complete a long standing effort to improve Huffman Lane and benefit residents of that neighborhood. In 2007, a rural addition project was created to extend Huffman Lane and resurface the existing state road. Right of way acquisition was unsuccessful, and the existing state route was paved with project funds. Citizens in the neighborhood are assisting Roanoke County in obtaining right of way deeds which will allow the project to move forward.

Roanoke County has been awarded \$70,000 in Revenue Sharing funds for this project, which requires a \$70,000 local match. Total project costs are estimated at \$140,000, with the County portion being \$70,000.

Additional Operating Impacts:

Roanoke County will see no operating budget impact, as VDOT currently maintains the road, and will continue to maintain it after the project is complete.

Conformance with Plans, Policies, and Legal Obligations:

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

Project Highlights and Key Milestones:

- 2007: VDOT and Roanoke County allocated revenue sharing funds for a rural addition project.
- 2009: Existing state route paved, but right of way acquisition was unsuccessful for addition.
- 2015: Renewed interest by citizens in the neighborhood led to reconsideration of the project.
- Revenue Sharing funds Awarded:
 - In FY 2017 for preliminary engineering
 - In FY 2018 for construction.
- Total cost estimate is \$140,000, with \$70,000 from the County and \$70,000 in State Revenue Sharing.

**Community
Strategic Plan**

Position Roanoke County for Future
Economic Growth

Infrastructure & Site Development



West Main Street Pedestrian Improvements

Department: Community Development
Location: West Main Street, Salem VA
Magisterial District: Catawba Magisterial District

Category: New Facilities
Est. Useful Life: 30 years
Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	67,000	67,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County - Unrestricted Cash	67,000	67,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	67,000	67,000	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 West Main Street Pedestrian Improvements project continues the existing West Main Street improvements and safety accommodations. This project will install sidewalk, pedestrian crossings and crosswalks along West Main Street between the City of Salem and Technology Drive to connect to existing Roanoke County and City of Salem sidewalks.

The total project cost of \$1,036,699 was funded in FY 2017 by SMART SCALE funding (\$902,699) and also the VDOT Revenue Sharing program (\$67,000 County and \$67,000 VDOT). Since the project will be administered by VDOT, the Smart Scale Funding and Revenue Sharing match did not require appropriation by the Board of Supervisors. Construction on this project is expected to begin in FY 2022.



West Main Street Pedestrian Improvements (continued)

Project Description and Justification:

The West Main Street Pedestrian Improvements project continues the existing West Main Street improvements and safety accommodations. The project will install sidewalk along the north side of West Main Street, from Daugherty Road to Technology Drive, within existing right of way. This project will also install standard crosswalk across all secondary street intersections, continental crosswalk and pedestrian signals at Alleghany Drive and Daugherty Road intersections, and install sidewalk along the south side of West Main Street from the Salem city limits to Technology Drive. This project will connect to an existing section of sidewalk along the north side of West Main Street, from Salem city limits to Daugherty Road, that was constructed during the Rt 11/460 Widening Project.

Operating Budget, Cost, and Efficiency Impact:

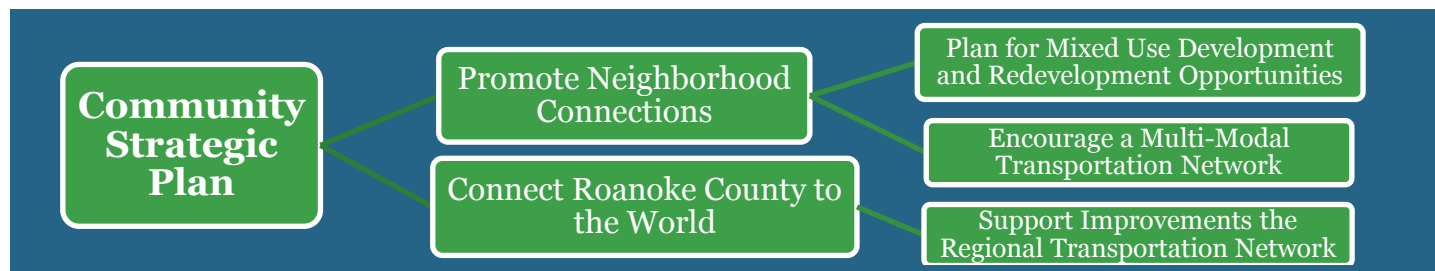
Roanoke County will be responsible for minor maintenance of the sidewalk facility once constructed, which will be absorbed in the existing operating budget.

Conformance with Plans, Policies, and Legal Obligations:

This project conforms to several plans including Roanoke County Comprehensive Plan (2005), Glenvar Community Plan (2012), Constrained Long Range Transportation Plan (CLRTP), Transportation Improvement Program (TIP), Bikeway Plan for the Roanoke Valley Area MPO (2012), and VDOT Policy for Integrating Bicycle and Pedestrian Accommodations.

Project Highlights and Key Milestones:

- The first segment of sidewalk from the City of Salem to Daugherty Road on the north side was completed with the West Main Street road widening construction in 2014. Sidewalk funding was obtained through the Regional Surface Transportation Program.
- FY 2017 Revenue Sharing funds in the amount of \$134,000 (\$67,000 County match) were allocated to the project.
- Preliminary engineering began on the project in FY 2017.
- SMART SCALE funding of \$902,699 awarded in June 2017.
- Construction expected to begin in FY 2022.





Williamson Road Pedestrian Improvements

Department: Community Development

Category: New Facilities

Location: Williamson Road, Roanoke, VA

Est. Useful Life: 30 years

Magisterial District: Hollins Magisterial District

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
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 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 total project cost is \$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, and thus require Board appropriation. Preliminary engineering on this project is expected to begin in spring/summer 2018.



Williamson Road Pedestrian Improvements (continued)

Project Description and Justification:

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 of Williamson Road from Plantation Road to Marson Road, existing sidewalk on the south side of Williamson Road from Plantation Road to Hollins Court Drive, proposed pedestrian crosswalks and signals at the Peters Creek Road/Williamson Road intersection, and proposed bicycle and pedestrian safety improvements in the planning stages for the west side of Williamson Road between Peters Creek Road and North Roanoke Assisted Living.

Operating Budget, Cost, and Efficiency Impact:

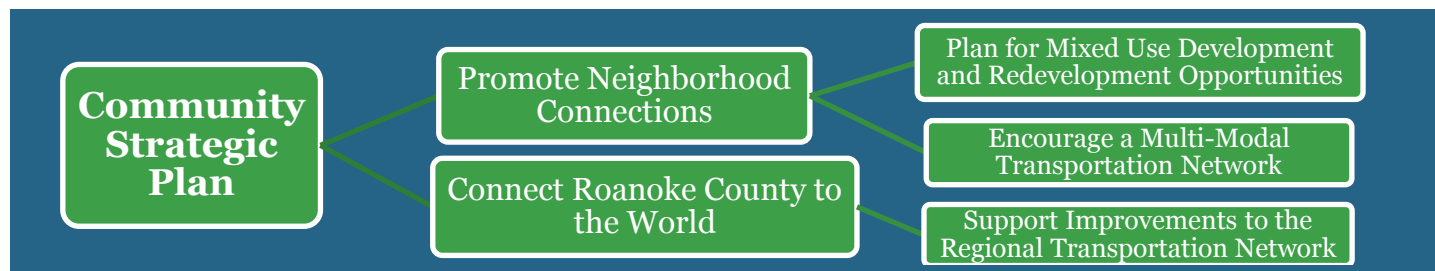
Roanoke County will see minimal operating impact limited to routine maintenance of the sidewalk facility once constructed which is anticipated to be absorbed within the existing operating budget.

Conformance with Plans, Policies, and Legal Obligations:

This project continues to implement the Hollins Area Plan, adopted November 11, 2008. The Hollins Area Plan is a component 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.
- Total project costs are \$275,000 with funding sources including County Corridor Improvement Project Funds and Transportation Alternatives funding awarded in FY 2018.





Dry Hollow Road Safety Improvements

Department: Community Development
Location: Dry Hollow Road, Salem VA
Magisterial District: Catawba Magisterial District

Category: Replacement
Est. Useful Life: 30 years
Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	613,000	613,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County - Unrestricted Cash	613,000	613,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	613,000	613,000	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 Dry Hollow Road Safety Improvements project will improve travel conditions on Dry Hollow Road. At the Norfolk Southern railroad underpass on Dry Hollow Road, the road narrows to one lane in a blind curve with a steep embankment dropping off into a stream. Neighborhood safety concerns, as well as steady growth in programs at Camp Roanoke, have renewed interest in this project.

The total project cost is estimated at \$2.2 million. Through FY 2018, \$613,000 in County funding has been allocated to match State Revenue Sharing funds (\$613,000). The balance of \$959,000 is funded through the Commonwealth's Secondary Six-Year Program. This will be a VDOT administered project; therefore, Commonwealth funds do not need to be appropriated.



Dry Hollow Road Safety Improvements (continued)

Project Description and Justification:

The Dry Hollow Road Safety Improvements project will improve travel conditions on Dry Hollow Road. At the Norfolk Southern railroad underpass on Dry Hollow Road, the road narrows to one lane in a blind curve with a steep embankment dropping off into a stream. Neighborhood safety concerns, as well as steady growth in programs at Camp Roanoke, have renewed interest in this project.

Revenue Sharing funds for preliminary engineering funds were approved in FY 2016, with construction funds sought through subsequent programming. In FY 2017, Roanoke County applied for and received matching Revenue Sharing funds, to continue the construction programming process. VDOT and County staff have moved this project to the Secondary Six-Year Improvement Program, to complete construction programming. The preliminary engineering phase is currently underway.

Operating Budget, Cost, and Efficiency Impact:

There will be no operating budget impact to Roanoke County as VDOT currently maintains the road and will continue to maintain it after the project is complete.

Conformance with Plans, Policies, and Legal Obligations:

The Transportation section of the Roanoke County Community Strategic Plan addresses adequate transportation infrastructure.

Project Highlights and Key Milestones:

- Project added to the VDOT Six Year Plan for 1998-2004.
- Project removed from the Six Year Plan in 2009.
- Investigated safety alternatives with VDOT in April 2013.
- Board of Supervisors passed a resolution to install Watch for Children signs in October 2013.
- Revenue Sharing Funds in FY 2016 – 2017 were \$1.2 million (50/50 match).
- Total project cost estimated at \$2.2 million. Secondary Six-Year Improvement Program funding will fully fund the project.





Fallowater Lane Extension

Department: Community Development, Economic Development

Category: New Facilities

Location: Route 419/Electric Road and Chevy Road

Est. Useful Life: 30 Years

Magisterial District: Cave Spring Magisterial District

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	502,240	0	502,240	0	0	0	0	0	0	0	0	0	502,240
Funding Sources													
Economic Development													
Funds	502,240	0	502,240	0	0	0	0	0	0	0	0	0	502,240
Total Funding Sources	502,240	0	502,240	0	0	0	0	0	0	0	0	0	502,240
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Fallowater Lane Extension project will reconstruct an existing private driveway to provide access to future development in an area, designated as “The Ridges,” that is currently inaccessible. The draft 419 Town Center Plan recommends improving connectivity to expand development opportunities and specifically recommends extending Fallowater Lane to allow for development in “The Ridges.” The project would upgrade the existing private drive to public road standards and construct a new section allowing for future road segments. The estimated cost of this project is \$2.5 million, of which \$1.5 million has been reallocated from VDOT Secondary Six-Year Plan Construction Formula Funds per prior Board approval. The balance of funding (\$1.0 million) will come from Roanoke County and VDOT Revenue Sharing funds (50/50 split). Roanoke County will administer the preliminary engineering phase and may administer the construction. VDOT will administer the right-of-way phase, so VDOT funds do not require appropriation.



Fallowater Lane Extension (continued)

Project Description and Justification:

The Fallowater Lane Extension project will reconstruct an existing private driveway to provide appropriate access to future development in an area, designated as “The Ridges,” that is currently inaccessible. The draft 419 Town Center Plan recommends improving connectivity to expand development opportunities and specifically recommends extending Fallowater Lane to allow for development in “The Ridges.”

The project would upgrade the existing private drive to public road standards and construct a new section that would allow for future road segments. The estimated cost of this project is \$2.5 million, of which \$1.5 million has been reallocated from VDOT Secondary Six-Year Plan Construction Formula Funds. The balance of funding (\$1.0 million) will come from Roanoke County and VDOT Revenue Sharing funds (50/50 split).

Additional Operating Impacts:

Roanoke County will not see an operating budget impact, as the project will be constructed to VDOT standards and will be accepted into the Secondary Road network when complete.

Conformance with Plans, Policies, and Legal Obligations:

The project implements components recommended in the draft 419 Town Center Plan, which is anticipated to be presented to the Board of Supervisors in the spring of 2018 for review.

Project Highlights and Key Milestones:

- Extension of Fallowater Lane recommended in the draft 419 Town Center Plan, presented in September 2016.
- Upgrading the existing road would expand development opportunities and also allow for future road segments.
- In September 2017, the Board of Supervisors adopted a resolution to reallocate Secondary Six-Year Plan Construction Formula Funding to the project.
- Total cost estimate is \$2.5 million, with nearly \$1.5 million from Secondary Six-Year Plan funding and the remaining from a combination of Public Private Partnership funds and a request for VDOT Revenue Sharing Funds.





Buck Mountain Rd / Starkey Rd Intersection Improvements

Department: Community Development

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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	580,000	80,000	250,000	250,000	0	0	0	0	0	0	0	0	500,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	500,000	0	250,000	250,000	0	0	0	0	0	0	0	0	500,000
Private Capital													
Contributions	80,000	80,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	580,000	80,000	250,000	250,000	0	0	0	0	0	0	0	0	500,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Buck Mountain Road and Starkey Road Intersection Improvements project anticipates reconstructing the existing intersection. 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 has already been completed. Pedestrian and bicycle accommodations would be evaluated during preliminary engineering. Total project costs are estimated at \$3.3 million, with nearly \$2.1 million requested from VDOT's Regional Surface Transportation Program (RSTP) and \$580,000 from Revenue Sharing Program funding. County funding sources, to match potential Revenue Sharing funds, include \$80,000 in a rezoning cash proffer accepted in FY 2018 and \$250,000 in unrestricted cash in both FY 2019 and FY 2020. As this is anticipated to be a VDOT administered project, RSTP and State Revenue Sharing funds do 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 all phases of the project is \$3.3 million and would be administered by VDOT. Through a rezoning ordinance 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. Regional Surface Transportation Program (\$2.1 million) and Revenue Sharing Program funds (\$580,000) have been requested. An additional \$500,000 in County match funding is also identified to support Revenue Sharing Program funds. Funding awards are anticipated in summer 2018.

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:

- VDOT conducted a traffic analysis of the Buck Mountain Road and Starkey Road intersection in 2013 at the request of the Cave Spring representative to the Board of Supervisors.
- The VDOT traffic analysis recommended improvements to the intersection, if future land use development affected the intersection.
- 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.
- Funding awards are anticipated in summer 2018.





VDOT Revenue Sharing Program

Department: Community Development

Category: Replacement/New Facilities

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,565,000	565,000	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	2,565,000	565,000	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
Total Funding Sources	2,565,000	565,000	0	0	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,000,000
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% 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. In FY 2019 through FY 2020, two projects have been identified in the Revenue Sharing Program: Fallowater Lane Extension (\$502,240 County PPP funds) and Starkey Road/Buck Mountain Road Intersection Improvements (\$500,000 County and \$80,000 Developer Cash Proffer), with County funding included with those individual projects.



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. Types of projects eligible for revenue sharing include: Deficits on completed VDOT administered construction or improvement project, supplemental funding for projects listed in the adopted Six-Year Plan and ongoing construction or improvement projects, construction or improvements included in either the adopted Six-Year Plan or the locality's capital plan, improvements necessary for the acceptance of specific subdivision streets otherwise eligible for acceptance into the system for maintenance, new hard surfacing, certain new roadways that meet the qualifications outlined in the Revenue Sharing Guidelines, and maintenance on highway systems consistent with VDOT operating policies.

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:

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

Recent projects completed include:

- Ivyland Road Extension

Projects planned in FY 2019:

- Fallowater Lane Extension (\$502,240 County PPP funds).
- Starkey Road/Buck Mountain Road Intersection Improvements (\$500,000 County Share and \$80,000 Developer Cash Proffer).
- Both Fallowater Lane Extension and Starkey Road/Buck Mountain Road Intersection Improvements are stand-alone projects included in this document.
- VDOT portion of project costs are not required to be appropriated by the Board of Supervisors if VDOT is administering the project.

**Community
Strategic Plan**

Promote Neighborhood
Connections

Encourage a Multi-Modal
Transportation Network



NPDES - Leachate Management System Upgrade

Department: Community Development

Category: New Facilities

Location: Dixie Caverns Landfill

Est. Useful Life: 20 years

Magisterial District: Catawba

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	650,000	650,000	0	0	0	0	0	0	0	0	0	0	0
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	650,000	650,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	650,000	650,000	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 NPDES - Leachate Management System Upgrade project will replace the Leachate Management System that collects the discharge from the closed Dixie Caverns Landfill and discharges it to the public sanitary sewer. The design is 95% complete and the work includes a new 50,000 gallon storage tank, pumps, and controls, relining the existing leachate pond, and improving alarm communications. This project addresses Roanoke County's responsibility to collect leachate from the closed Dixie Caverns Landfill and discharge it to the adjacent public sanitary sewer system for proper treatment.



NPDES - Leachate Management System Upgrade (continued)

Project Description and Justification:

The NPDES - Leachate Management System Upgrade project will reconstruct the existing system that is past its useful lifetime that collects and controls the discharge of leachate to the public sanitary sewer from the closed Dixie Caverns Landfill. The design is 95% complete and the work includes a new 50,000 gallon storage tank, pumps, and controls, relining the existing leachate pond, and improving alarm communications. This work is required to comply with environmental laws and regulations.

Additional Operating Impacts:

The County does not have the trained staff required to properly maintain pumps, instruments, and controls. Once this project is completed, an operating/maintenance contractor shall be obtained to perform these services. The estimated yearly operating impact beginning in FY 2020 is estimated at \$48,000 per year.

Conformance with Plans, Policies, and Legal Obligations:

This project is required to meet County's legal obligations of collecting leachate and keeping it out of streams.

Project Highlights and Key Milestones:

- Dixie Cavern Landfill closed in 1976 and is not properly capped.
- Roanoke County enters consent agreement with EPA in 1987.
- Site removed from EPA priority list in 2001.
- Consultant hired to conduct study and design plans FY 2016.
- Design plans to be completed in FY 2018.
- Construction anticipated to begin in FY 2019.

**Community
Strategic Plan**

Keep Roanoke County Healthy,
Clean and Beautiful

Environmental Stewardship



Restoration of Glade Creek in Vinyard Park, Phase II

Department: Community Development

Category: New Facilities

Location: Vinyard Park

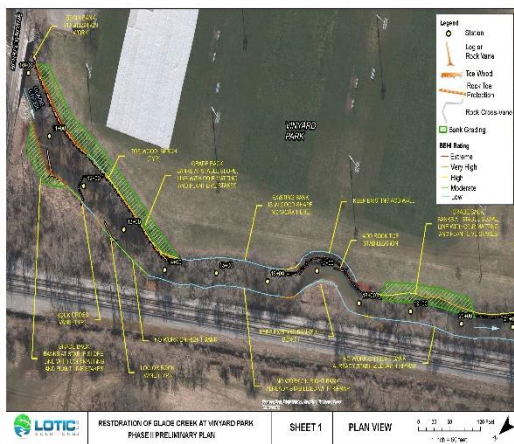
Est. Useful Life: 20 years

Magisterial District: Vinton

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	819,177	819,177	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County -													
Unrestricted Cash	384,177	384,177	0	0	0	0	0	0	0	0	0	0	0
Stormwater Local													
Assistance Fund	435,000	435,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	819,177	819,177	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD



Project Summary:

This project is a part of the NPDES – MS4 BMP Construction Program, and it builds on the Phase 1 stream restoration project that was completed in 2016. This project will stabilize the stream banks along Glade Creek through the lower part of Vinyard Park (east of Berkley Road). This will reduce sediment discharges in support of the County's MS4 permit Total Maximum Daily Load Requirements; stop bank erosion that is endangering existing park fields and improve safety by eliminating existing steep (vertical) stream banks.



Restoration of Glade Creek in Vinyard Park, Phase II (continued)

Project Description and Justification:

This project is a part of the NPDES – MS4 BMP Construction Program, and it builds on the Phase 1 stream restoration project that was completed in 2016. This project will stabilize the stream banks along Glade Creek through the lower part of Vinyard Park (east of Berkley Road). This will reduce sediment discharges in support of the County's MS4 permit Total Maximum Daily Load Requirements; stop bank erosion that is endangering existing park fields, and improve safety by eliminating existing steep (vertical) stream banks. Construction is anticipated in the late summer/fall of 2018. Almost 50% of the cost is being provided through a Virginia Stormwater Local Assistance Fund (SLAF) grant.

Additional Operating Impacts:

As these stream restoration projects are performed, it is anticipated that ongoing maintenance will be required from time to time. Required maintenance is difficult to forecast, as these types of facilities are still new, with unclear maintenance requirements. Also, required maintenance may be affected by the severity of storms that occur. Once the project is completed, additional impacts will be quantified.

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 requirements and Total Maximum Daily Load requirements.

Project Highlights and Key Milestones:

- Virginia Stormwater Local Assistance Funding (SLAF) obtained in FY 2017
- Design began and U.S. Corps of Engineers Joint permit application was made in August 2017
- Construction planned to begin in late Summer or Fall 2018
- Construction anticipated to be complete in Spring 2019.

**Community
Strategic Plan**

Keep Roanoke County Healthy,
Clean and Beautiful

Environmental Stewardship



Storm Drainage Maintenance of Effort Program

Department: Community Development

Category: Replacement

Location: Countywide

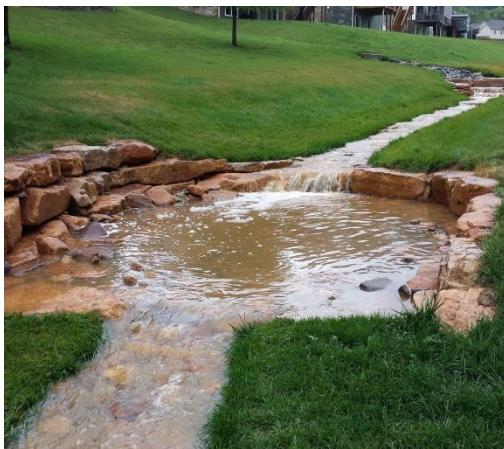
Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,542,062	742,062	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
Funding Sources													
Roanoke County - Unrestricted Cash	2,542,062	742,062	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
Total Funding Sources	2,542,062	742,062	0	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
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. The projects scheduled for FY 2019 are Vest Drive and Tully Drive. As this is an on-going program, projects may be substituted as conditions warrant.

As of January 2018, sufficient balances exist in Stormwater capital projects to support FY 2019 drainage initiatives without additional funding. Annual funding in the CIP will resume in FY 2020.



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. Periodically, reports are made to the Board in order to add projects to the program list. Currently, there are 37 projects on the list. 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. The projects scheduled for FY 2019 are Vest Drive and Tully Drive. As this is an on-going program, projects may be substituted as conditions warrant.

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:

- Reduction in other stormwater projects offsets cost of Maintenance of Effort projects.
- Two identified projects in FY 2019 including Vest Drive and Tully Drive.
- Maintenance of Effort projects are by nature on-going.
- During FY 2019, staff will work to identify anticipated projects over a three year period and will be included as part of future CIP documents.





NPDES-MS4 BMP Construction

Department: Community Development

Category: Replacement and New Facilities

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,645,500	195,000	50,500	100,000	600,000	100,000	100,000	650,000	100,000	100,000	550,000	100,000	2,450,500
Funding Sources													
Roanoke County -													
Unrestricted Cash	1,445,500	195,000	50,500	100,000	200,000	100,000	100,000	250,000	100,000	100,000	150,000	100,000	1,250,500
Stormwater Local													
Assistance Fund	1,200,000	0	0	0	400,000	0	0	400,000	0	0	400,000	0	1,200,000
Total Funding Sources	2,645,500	195,000	50,500	100,000	600,000	100,000	100,000	650,000	100,000	100,000	550,000	100,000	2,450,500
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, funded from FY 2019 – FY 2028, provides resources for 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 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.

As of January 2018, sufficient balances exist in Stormwater projects to support a portion (\$49,500) of project funding in FY 2019.



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. The current highest priority projects include stream restoration of Wolf Creek in Goode Park, stabilization of Mudlick Creek watershed upstream of Hidden Valley High School, and stabilization at Read Mountain Preserve.

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 2013.
- BMP construction helps keep Roanoke County in compliance with State standards.
- Restoration of Glade Creek in Vinyard Park, Phase I completed in FY 2017.
- Restoration of Murray Run at Ogden Road completed in FY 2017.
- During FY 2019, staff will work to identify anticipated projects over a 3 year period and will include as part of future CIP documents.
- New MS4 permit to be issued by the Virginia Department of Environmental Quality (DEQ) on July 1, 2018.

**Community
Strategic Plan**

Keep Roanoke County
Healthy, Clean, and
Beautiful

Environmental Stewardship

Outdoor Recreation &
Natural Resources



Woodhaven Property Acquisition and Improvements

Department: Economic Development

Category: New Facilities

Location: Woodhaven Road / Interstate 81 / Interstate 581

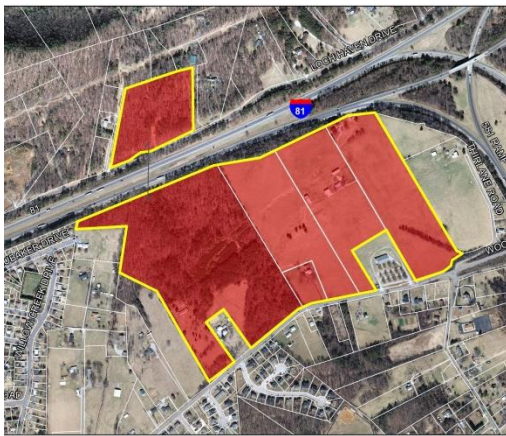
Est. Useful Life: Varies

Magisterial District: Catawba Magisterial District

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	3,177,500	202,154	162,800	162,800	162,800	162,800	387,200	387,697	387,869	387,715	387,235	386,430	2,975,346
Funding Sources													
Roanoke County -													
Unrestricted Cash	2,324,146	0	0	0	0	0	387,200	387,697	387,869	387,715	387,235	386,430	2,324,146
Economic Development													
Funds	853,354	202,154	162,800	162,800	162,800	162,800	0	0	0	0	0	0	651,200
Total Funding Sources	3,177,500	202,154	162,800	162,800	162,800	162,800	387,200	387,697	387,869	387,715	387,235	386,430	2,975,346
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 \$4.4 million, financed through the WVRIFA over 20 years. A total of \$2.975 million in project financing is budgeted in the FY 2019 – FY 2028 CIP.



Woodhaven 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 Woodhaven project.

The properties collectively referred to as the Woodhaven properties consist of over 100 acres. Specific project and development plans will be produced in conjunction with a community engagement process beginning in calendar year 2017 and will continue in calendar year 2018.

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" creating the Western Virginia Regional Industrial Facilities Authority
- Design, engineering, and construction will be needed to complete this project, as well as a community engagement planning process.
- Roanoke County 44%, City of Roanoke 44%, City of Salem 12% of project costs.





Roanoke County Broadband Initiative

Department: Economic Development

Category: New Facilities

Location: Countywide

Est. Useful Life: Varies

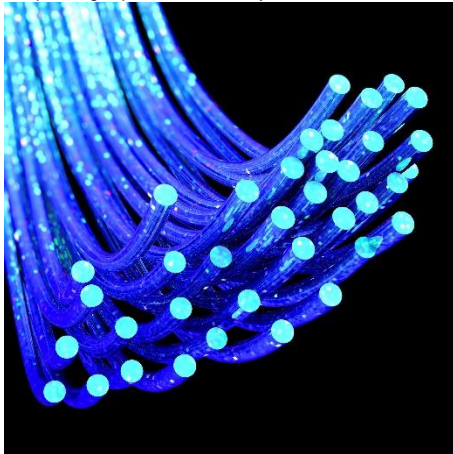
Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	3,899,769	435,333	387,279	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,464,436
Funding Sources													
Roanoke County -													
Unrestricted Cash	3,106,670	0	29,513	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,106,670
Economic Development													
Funds	793,099	435,333	357,766	0	0	0	0	0	0	0	0	0	357,766
Total Funding Sources	3,899,769	435,333	387,279	382,978	382,905	386,875	384,939	387,149	383,664	383,664	384,983	0	3,464,436
*Operating Impacts			325,000	325,000	325,000	325,000	TBD	TBD	TBD	TBD	TBD	TBD	TBD

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



Project Summary:

The Roanoke County Broadband Initiative promotes economic development by providing affordable, high speed broadband services in the Roanoke Valley. The Roanoke County 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.

The County's portion of the installation joins previous installations in the cities of Salem and Roanoke, ultimately providing a 75 mile fiber system 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 Initiative (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.

Additional Operating Impacts:

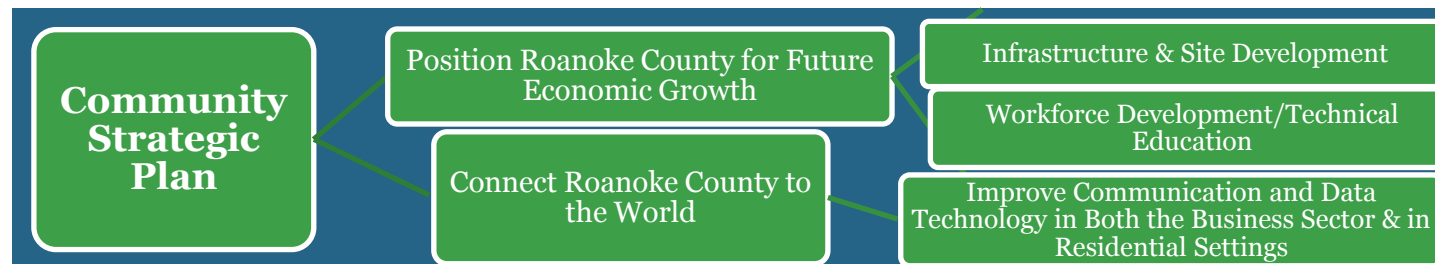
The Broadband Initiative will impact the Operating Budget due to annual operating expenses, which are expected to be around \$325,000 until such time as the RVBA is financially self-sufficient. RVBA expects to be self-sufficient in slightly less than six years. The \$325,000 will likely reduce each year from year one to six, but a rate of decline in operating expenses is currently not available.

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 and was lit in October 2017
- RVBA expects to be financially self-sufficient in slightly less than six years.
- Expansion of broadband network may be considered in future years but it currently not funded in the CIP.







Human Services Functional Team





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Human Services Summary

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Human Services											
Parks and Recreation											
Capital Maintenance Program - Parks & Rec	\$710,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$675,000	\$6,785,000
Sports Field Lighting	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Roanoke River East Greenway	0	0	491,606	0	0	0	0	0	0	0	491,606
Explore Park	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Arnold R. Burton Softball Complex Improvements	0	0	0	0	720,000	0	0	0	0	0	720,000
Hollins Park Improvements	0	0	0	0	440,000	0	0	0	0	0	440,000
Parks and Recreation Total	710,000	675,000	1,166,606	675,000	5,775,000	675,000	675,000	675,000	675,000	675,000	12,376,606
Library											
Countywide Library Public Use Computer Repl. Plan	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
Mount Pleasant Library Improvements	120,000	0	0	0	0	0	0	0	0	0	120,000
Hollins Library Replacement	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Library Total	220,000	40,000	40,000	65,000	13,000	0	0	0	200,000	500,000	1,078,000
Human Services Total	\$930,000	\$715,000	\$1,206,606	\$740,000	\$5,788,000	\$675,000	\$675,000	\$675,000	\$875,000	\$1,175,000	\$13,454,606



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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	8,915,000	2,130,000	710,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	6,785,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	5,415,000	1,530,000	510,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	375,000	3,885,000
Fee Class Fund	3,500,000	600,000	200,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	2,900,000
Total Funding Sources	8,915,000	2,130,000	710,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	675,000	6,785,000
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. The CMP dedicates \$710,000 in FY 2019 and then \$675,000 in FY 2020 through the remainder of the ten-year CIP. 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 \$710,000 in FY 2019 and then \$675,000 in FY 2020 through the remainder of the ten-year CIP. 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.

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



Sports Field Lighting: Countywide Plan

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: Countywide

Est. Useful Life: 25 years

Magisterial District: Countywide

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	3,140,000	500,000	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	500,000	500,000	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds	2,640,000	0	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Total Funding Sources	3,140,000	500,000	0	0	0	0	2,640,000	0	0	0	0	0	2,640,000
Operating Impacts			0	0	0	0	0	30,000	30,900	31,827	32,782	33,765	159,274



Project Summary:

The Sports Field Lighting project, with funding planned in FY 2023, continues the sport field lighting plan to relight and light sports fields throughout Roanoke County's park system for youth and adult sports. The sports lighting request will address the following fields:

- Vinyard II Multi-purpose fields 4&5, Green Hill Park Football and Merriman 4, Burton Field 1, CSMS Track Field, HVMS Track Field, Walrond Soccer 1 & 2, Green Hill Park Field 1&2 and Mt. Pleasant Field 1.

Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



Sports Field Lighting: County-wide Plan (continued)

Project Description and Justification:

The Sports Field Lighting project continues the sport field lighting plan to relight and light sports fields throughout Roanoke County's park system for youth and adult sports. This plan will relight sports fields that have aging and deteriorating light systems and will also light fields in districts to address field usage issues due to emerging sports and growth in demand for lighted sports fields by existing sports and users. The new light systems are LED with a 25 year warranty.

Roanoke County has over 6,000 youth sports participants annually. With growth in demand for lacrosse, soccer, and RCPS sports and travel sports, Roanoke County needs to increase the usage for sports fields and preserve the lighted fields in the County's sports field inventory. Many of the County's light systems are over twenty years in age and starting to fail. This project will provide greater availability of sports fields later in the day for usage. This project will assist in stimulating and encouraging growth in sports tourism and provide a venue for sports tournaments to generate a positive economic impact for the Roanoke Valley.

Additional Operating Impacts:

The lighting systems come with a 25 year maintenance free warranty allowing CMP funding to be used for park repairs instead of sports lighting repairs as lighting systems are replaced. It is estimated that this project will require additional utilities averaging \$2,500 per year per field, (adjusted annually for inflation). These additional operating costs will be considered as part of future operating budgets.

Conformance with Plans, Policies, and Legal Obligations:

This project type is consistent with the 1998 Roanoke County Community Plan, and the 2007 Department of Parks, Recreation and Tourism Comprehensive Master Plan for Parks and Facilities.



Project Highlights and Key Milestones:

- Under this plan, Roanoke County has lighted Shell Park, Merriman Soccer Field 3, Green Hill Soccer Fields 1&2 and Hollins Soccer Field 2.
- Projects planned for FY 2023, totaling \$2.64 M:
 - Vinyard II Fields 4 & 5
 - Green Hill Park Football
 - Merriman 4
 - Burton Field
 - Cave Spring Middle School Track Fields
 - Hidden Valley High School Track Fields
 - Walrond Soccer 1&2
 - Green Hill Park Fields 1 & 2
 - Mt. Pleasant Field 1



Roanoke River East Greenway Extension

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: Roanoke River East Greenway

Est. Useful Life: 25-50 years

Magisterial District: Vinton

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,151,606	1,660,000	0	0	491,606	0	0	0	0	0	0	0	491,606
Funding Sources													
Roanoke County -													
Unrestricted Cash	405,000	280,000	0	0	125,000	0	0	0	0	0	0	0	125,000
Transportation Alternatives Grant	366,606	0	0	0	366,606	0	0	0	0	0	0	0	366,606
Private Capital Contributions	20,000	20,000	0	0	0	0	0	0	0	0	0	0	0
FLAP Grant	1,360,000	1,360,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	2,151,606	1,660,000	0	0	491,606	0	0	0	0	0	0	0	491,606
Operating Impacts			0	10,000	10,300	10,609	10,927	11,255	11,593	11,941	12,299	12,668	101,591



Project Summary:

The extension of the Roanoke River Greenway from the Blue Ridge Parkway to Explore Park will provide an additional 2.3 miles to the greenway network in the Roanoke Valley. Roanoke County has received funding from the Federal Highway Administration-Eastern Federal Lands Division (EFLHD) through the Federal Lands Access Program (FLAP) in the amount of \$1.36 million for the first 2 miles of the greenway. The grant required a \$340,000 County match, of which \$40,000 is in the form of right-of-way access. The project will be designed and engineered in FY 2017 and 2018. Construction is anticipated to begin in FY 2018 with project completion tentatively scheduled in FY 2019. Additionally, a Transportation Alternative Grant in FY 2021 will fund the last 1/3 mile section necessary to complete the greenway route. A County match of \$125,000 has been budgeted in FY 2021 to support the grant.



Roanoke River East Greenway Extension (continued)

Project Description and Justification:

The East Roanoke River Greenway project constructs an additional 2.3 miles of greenways and trails within Roanoke County's Parks system. With support from the National Park Service, Roanoke County was awarded \$1.36 million to connect the greenway from the Blue Ridge Parkway to Explore Park, at a length of two miles. The Federal Lands Access Program (FLAP) within the Federal Highway Administration – Eastern Federal Lands Division (EFLHD) provides funding for design, environmental analysis, engineering and construction of this section of the greenway. This project will be designed with an ADA accessible 10 foot wide, paved, shared use path, built to VDOT standards.

Funding planned in FY 2021 will provide for the 1/3 mile Blue Ridge Parkway connector with a 10 foot wide, paved, shared use path built to VDOT standards as well. The connector would link the trailhead at South Operations to the greenway.

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.

Additional Operating Impacts:

After project completion, funding will be required to maintain the greenway. An estimate of \$10,000 annually beginning in FY 2020 is included for planning purposes.

Conformance with Plans, Policies, and Legal Obligations:

This project is consistent with the goals, objectives, and policies of the 2016 Explore Park Adventure Plan, the 2007 Department of Parks, Recreation and Tourism Comprehensive Master Plan for Parks and Facilities, and the Roanoke Valley Greenway Commission 2007 Update to the Roanoke Valley Conceptual Greenway Plan.

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 reopens 14 miles of trail and river access at Explore Park.
- The National Park Service supported Roanoke County's application to the Eastern Federal Lands Highway Division (EFLHD) for \$1.36 million to design and construct the East Roanoke River Greenway.
- In 2017, Roanoke County received notification from EFLHD of approved FLAP funding for the project.
- Roanoke County is applying for a Transportation Alternatives grant for FY 2021.





Explore Park

Department: Parks, Recreation & Tourism

Category: New Facilities

Location: 56 Roanoke River Pkwy, Roanoke, VA 24014

Est. Useful Life: 25-50 years

Magisterial District: Vinton

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	6,700,000	5,400,000	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	1,000,000	1,000,000	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds	5,700,000	4,400,000	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Total Funding Sources	6,700,000	5,400,000	0	0	0	0	1,300,000	0	0	0	0	0	1,300,000
Operating Impacts			0	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD



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, (\$5.4 M from FY 2016 – FY 2018) primarily focused on master planning, infrastructure implementation and repairs, including providing water and sewer infrastructure, expanding the existing road network and targeted recreational amenities. Future infrastructure improvements (\$1.3 M in FY 2023) will be developed as part of public-private partnerships. Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



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. It will provide the necessary park infrastructure to support park operations for our citizens and market the facility for economic development. The \$4.4 million in FY 2018 funds water and sewer connections to buildings in Adventure Village, 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. Funding in FY 2023 of \$1.3 million will fund additional infrastructure based on public-private partnership needs.

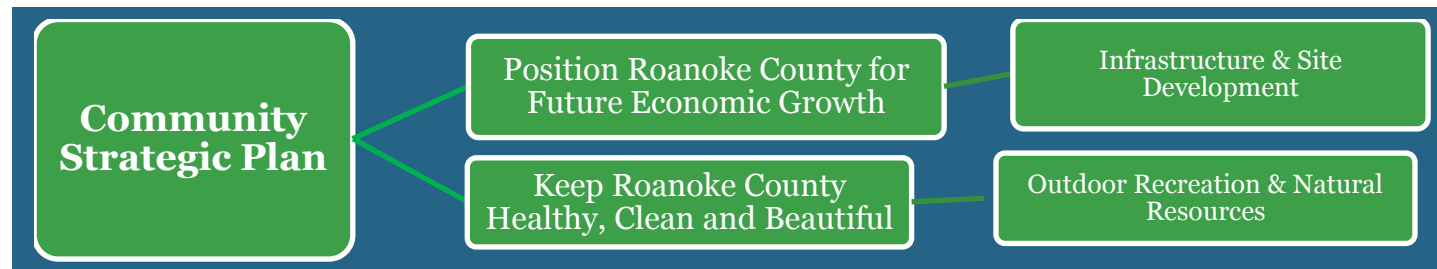
Water and sewer are necessary to attract private/public partnerships to develop recreation activity pods in the park such as food service, camping, retail operations and entertainment, while providing the basic level of service in the park for drinking water and restrooms. Requests for Proposals for public-private partnerships were issued in March 2017 and Roanoke County has awarded five contracts. Some new services began in spring 2018 with expansion of other services planned over the following twenty-four months.

Additional Operating Impacts:

The improvements planned in the current CIP will not have an impact on the operating budget initially. However, these costs are unknown until the extent of the public-private partnerships have developed. In FY 2019, the Board of Supervisors approved the addition of a Recreation Programmer position to support Explore Park activities, which is expected to be 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 phase under construction and expected to be completed in fall 2018.
- Roanoke County has awarded five contracts with some services expected to begin in spring 2018 and expand over the following twenty-four months, including camping and overnight stay facilities and amenities.



Arnold R. Burton Softball Complex Improvements

Department: Parks, Recreation & Tourism

Category: New

Location: 1760 Roanoke Blvd., Salem, VA 24153

Est. Useful Life: 20 years

Magisterial District: City of Salem

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	720,000	0	0	0	0	0	0	720,000	0	0	0	0	720,000
<u>Funding Sources</u>													
Lease/Revenue Bonds	720,000	0	0	0	0	0	0	720,000	0	0	0	0	720,000
Total Funding Sources	720,000	0	0	0	0	0	0	720,000	0	0	0	0	720,000
Operating Impacts			0	0	0	0	0	0	5,000	5,150	5,305	5,464	20,918



Project Summary:

The Arnold R. Burton Softball Complex project, planned for FY 2023, will construct a tournament headquarters, press boxes, general security lighting, parking lot adjustment with paving, security fencing, and a ticket booth. This project will provide basic amenities to the citizens and visitors who utilize the facility on a daily basis, as well as for hosting special tournaments. These improvements will increase Roanoke County's ability to attract economic development opportunities, specifically by housing tournaments which generate tourism. Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



Arnold R. Burton Softball Complex (continued)

Project Description and Justification:

The Arnold R. Burton Softball Complex project plans for funding in FY 2023 to construct tournament headquarters, press boxes, enclosed dugouts, general security lighting, parking lot improvements including paving, security fencing, and a ticket booth. This project will provide basic amenities to the citizens and visitors who use the facility on a daily basis, as well as for special tournaments. The Arnold R. Burton Softball Complex is located adjacent to the Burton Center for Arts and Technology (BCAT) and serves as a primary county site for adult softball league and tournament play. It contains three regulation softball fields that supplement the state, regional, and national tournaments, and often is the only site for USSSA and NSA Softball Tournaments.

These improvements are expected to increase Roanoke County's ability to attract economic development opportunities, specifically by housing tournaments which generate tourism. In FY 2017, the sports marketing campaign brought over 1,110 teams to the region with over 25,000 participants.

Additional Operating Impacts:

The facility will require additional utilities, maintenance materials, and supplies. These additional operating costs are estimated at \$5,000 in FY 2024.

Conformance with Plans, Policies, and Legal Obligations:

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

Project Highlights and Key Milestones:

- Phase I and Phase II improvements were completed in FY 2013 and FY 2014.
- Phase I was completed in FY 2013: lighting improved, two sports fields shifted 20 degrees, irrigation added, fencing replaced, and fields re-graded in FY 2013.
- Phase II of project was completed in FY 2014: new bleacher pads/ bleachers added to two fields.
- Phase III includes the recommended recreational amenities in this request, planned for FY 2023.
- Additional phases (currently not funded) could include construction of a trail system and the addition of a playground.

**Community
Strategic Plan**

Keep Roanoke County
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Resources



Hollins Park: Picnic Shelter/Restroom Facility and Parking/Improvements (Phase II)

Department: Parks, Recreation & Tourism

Category: Replacement

Location: 5688 Hollins Road, Hollins, VA 24018

Est. Useful Life: 15 years

Magisterial District: Hollins

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	440,000	0	0	0	0	0	440,000	0	0	0	0	0	440,000
Funding Sources													
Lease/Revenue Bonds	440,000	0	0	0	0	0	440,000	0	0	0	0	0	440,000
Total Funding Sources	440,000	0	0	0	0	0	440,000	0	0	0	0	0	440,000
Operating Impacts			0	0	0	0	0	6,500	6,695	6,896	7,103	7,316	34,509



Project Summary:

The Hollins Park project, planned for FY 2023, provides design and engineering plans for the development of the second phase of Hollins Park including paving the existing parking lot, constructing a picnic shelter and restroom facility, playground improvements, and landscape enhancements. Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



Hollins Park: Picnic Shelter/Restroom Facility and Parking/Improvements (Phase II) (continued)

Project Description and Justification:

The Hollins Park project provides design and engineering plans for the development of the second phase of Hollins Park including paving the existing parking lot, constructing a picnic shelter and restroom facility, playground improvements, and landscape enhancements. This project responds to the 2007 Department of Parks, Recreation and Tourism Comprehensive Master Plan for Parks and Facilities identification of the need for park facilities and passive recreational opportunities in North Roanoke County.

Additional Operating Impacts:

In FY 2024, when the improvements at the facility are anticipated to be complete, an additional \$6,500 for increased maintenance and supplies will need to be considered in the operating budget.

Conformance with Plans, Policies, and Legal Obligations:

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

Project Highlights and Key Milestones:

- This project has been in the CIP since 2008.
- Phase I improvements completed in the FY 2015-2016 CIP included lighting the second soccer field.
- This project is the Phase II of Hollins Park renovations.
- Project is planned for FY 2023.

**Community
Strategic Plan**

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Resources



Countywide Library Public Computer Replacement Plan

Department: Library

Category: Replacement

Location: Countywide

Est. Useful Life: 5 years

Magisterial District: Countywide

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	258,000	0	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
Funding Sources													
Roanoke County - Unrestricted Cash	258,000	0	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
Total Funding Sources	258,000	0	100,000	40,000	40,000	65,000	13,000	0	0	0	0	0	258,000
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 will ensure adequate computer resources are available to the community. This plan establishes 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. Over five years, all public use computers will be replaced by branch beginning with South County in FY 2019, Glenvar in FY 2020, Hollins in FY 2021, Vinton in FY 2022, and both smaller branches (Bent Mountain and Mount Pleasant) in FY 2023. This plan includes the purchase of hardware and Microsoft Office upgrades totaling \$258,000 over the next five years. Additional funding after five years will be considered as new technology becomes available.



Countywide 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. In 2017, the South County Library reached its five year anniversary. Next year, Glenvar will celebrate its five year anniversary. As computers reach the end of their life span, funding is required for replacement.

This plan will replace all branch library public use computers beginning with South County in FY 2019, followed by Glenvar in FY 2020, Hollins in FY 2021, Vinton in FY 2022, and Bent Mountain and Mount Pleasant in FY 2023. 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:

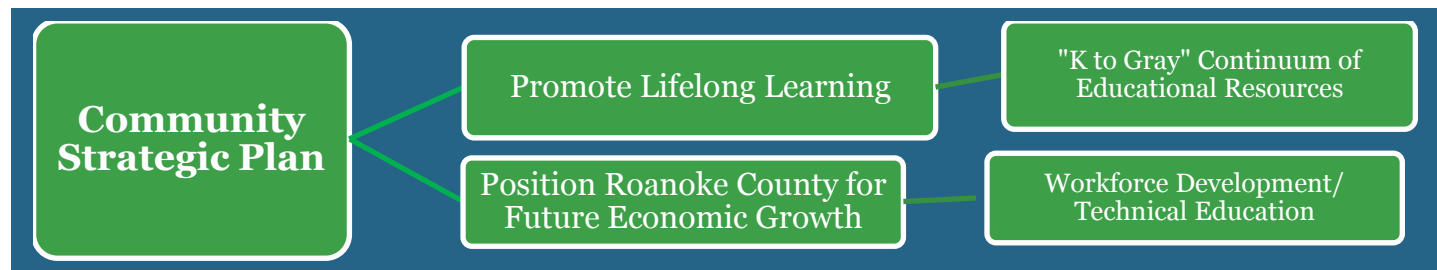
There are no anticipated operating impacts.

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.





Mount Pleasant Library Renovation

Department: Library

Location: 2918 Jae Valley Road, Roanoke, VA 24014

Magisterial District: Vinton

Category: Replacement

Est. Useful Life: 15-20 years

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	170,000	50,000	120,000	0	0	0	0	0	0	0	0	0	120,000
<u>Funding Sources</u>													
Roanoke County - Unrestricted Cash	170,000	50,000	120,000	0	0	0	0	0	0	0	0	0	120,000
Total Funding Sources	170,000	50,000	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:

The Mount Pleasant Library Renovation Project addresses immediate renovation needs for the facility. This project, planned for FY 2019, will address HVAC replacement needs, exterior window replacement, interior and exterior painting, floor coverings, and interior space configuration changes to improve line of sight for staff. The total cost estimate for these renovations is approximately \$170,000. In FY 2018, \$50,000 was funded in the General Services Capital Maintenance Program. That funding is now being shown with this new stand-alone project. In FY 2019, \$120,000 is included to complete funding for renovations.

An additional funding request for a “Phase II” renovation project with an estimated cost of \$242,000 which involved renovating and re-purposing the garage on site and other site improvements was considered but not funded in the CIP.



Mount Pleasant Library Renovation (continued)

Project Description and Justification:

Renovating Mt. Pleasant Library will address multiple issues associated with the existing building. Along with the fire station across the street, the library forms the core of the Mt. Pleasant commercial area and provides a key service delivery point and popular community gathering space for residents.

Improvements to the library space will include evaluating placement of restroom facilities, installing new windows and floor coverings, painting the interior and exterior, and upgrading and reorienting shelving and furniture to allow for better line of sight for staff.

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.

Project Highlights and Key Milestones:

- Mount Pleasant Library opened in 2009 under lease agreement.
- In 2011, Roanoke County purchased the cinderblock building.
- Renovations to the Mount Pleasant Library are expected to cost \$170,000, with \$50,000 from CMP funds in FY 2018 and \$120,000 in Unrestricted Cash in FY 2019.
- Renovations will address immediate renovation needs in the existing library building including HVAC replacement, window replacement, painting, and floor covering.
- Phase II renovations totaling \$242,000 were considered by not funded in the CIP.

**Community
Strategic Plan**

Promote Lifelong Learning

"K to Gray" Continuum of
Educational Resources



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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	700,000	0	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	700,000	0	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Lease/Revenue Bonds	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	700,000	0	0	0	0	0	0	0	0	0	200,000	500,000	700,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Hollins Library Replacement Project, scheduled to begin planning in FY 2027, proposes to replace the 17,600 square foot Hollins Library with a new facility that is consistent with a service model already implemented at the South County, Glenvar, and Vinton locations. Placement of a new facility will be an issue. Adjacent commercial development has grown exponentially since the library opened in 1971 so the building is now landlocked on a relatively small two acre site. A professional study that addresses this question should be included in the first year architectural and engineering phase. The total project cost is estimated at \$16.8 million with initial planning and design funded in FY 2027 and FY 2028. Funding for construction will be considered and prioritized as part of future CIPs.



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 24 years ago retained the original building, but melding the old and new 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 46 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. This branch supports educational and informational needs across a wide spectrum.

Additional Operating Impacts:

The proposed renovations to the facility may increase citizen usage by 25-40%. Higher demand may raise utility costs, estimated at \$45,000 per year in 2016 dollars, and staff costs, estimated at \$140,000 in 2016 dollars. With increased usage, additional funds may be generated by rentals and events. Additional Operating impacts would not be part of the operating budget until after completion. 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" of 30,000 square feet.

Project Highlights and Key Milestones:

- Hollins Library opened in 1971.
- 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 (\$700,000 in FY 2027 – FY 2028) in the process is to secure an experienced library architectural firm to help evaluate the advantages of either staying or relocating the library.
- Total project costs are estimated at \$16.8 million and will be considered as part of future CIPs.

**Community
Strategic Plan**

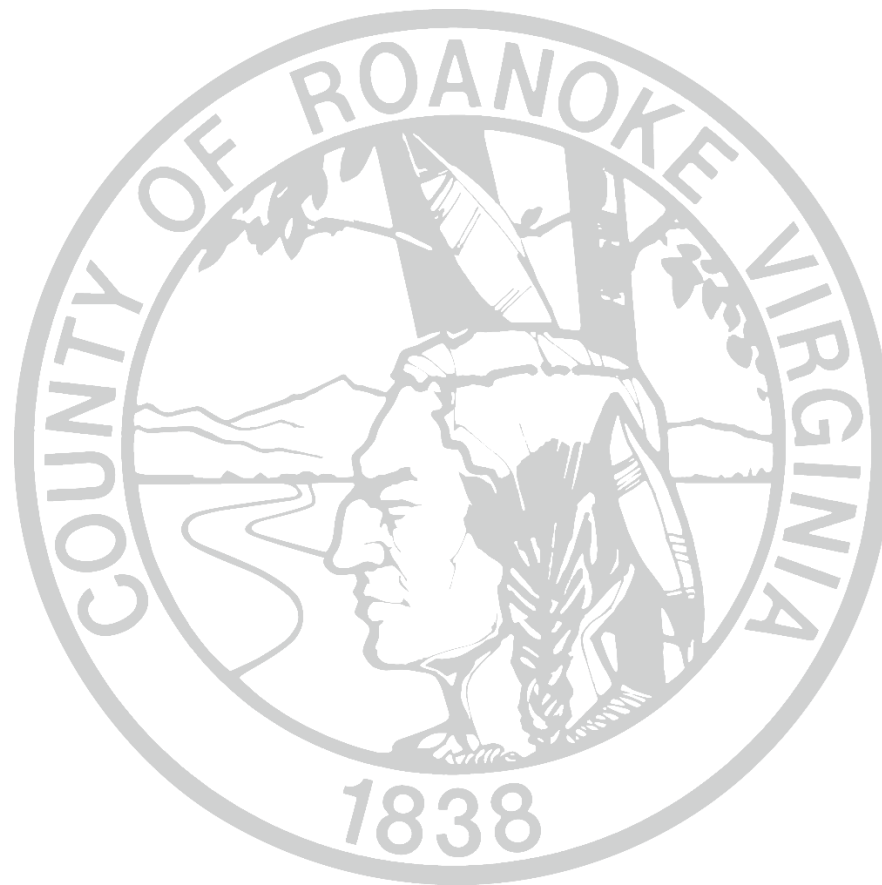
Promote Lifelong Learning

"K to Gray" Continuum of
Educational Resources





Internal Services Functional Team





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Internal Services Summary

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Internal Services											
Communications & IT											
County-Wide Computer Replacement Program	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$275,000	\$2,750,000
IT Infrastructure Repl. Capital Maintenance Program	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
<i>Comm/IT Total</i>	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	825,000	8,250,000
Finance											
Integrated Financial System	0	0	0	0	0	0	0	0	0	0	0
Human Resources and Payroll Modules	865,000	975,000	130,000	0	0	0	0	0	0	0	\$1,970,000
<i>Finance Total</i>	865,000	975,000	130,000	0	0	0	0	0	0	0	1,970,000
General Services											
Fleet Center Generator	0	0	0	0	0	0	0	0	0	0	0
Capital Maintenance Program - General Services	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
Public Service Center Construction	0	10,000,000	0	0	2,204,000	0	0	0	0	0	12,204,000
Bent Mountain Comm. Center Repairs and Renovations	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000
<i>General Services Total</i>	800,000	10,800,000	800,000	750,000	5,264,000	750,000	750,000	750,000	750,000	750,000	22,164,000
Internal Services Total	\$2,490,000	\$12,600,000	\$1,755,000	\$1,575,000	\$6,089,000	\$1,575,000	\$1,575,000	\$1,575,000	\$1,575,000	\$1,575,000	\$32,384,000



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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	3,025,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	2,750,000
Funding Sources													
CommIT Fund Transfer	3,025,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	2,750,000
Total Funding Sources	3,025,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	275,000	2,750,000
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 by transferring \$275,000 annually from the CommIT Fund.



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. The County-Wide Computer Replacement program is necessary to ensure that employees have adequate computing power and that the latest security measures are met by maintaining computer systems. Beginning in FY 2018, the County-Wide Computer Replacement program became part of the ten year CIP.

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 by transferring \$275,000 annually from the CommIT Fund.

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 \$275,000 annually each year during the FY 2019 – FY 2028 CIP.

**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 Capital Maintenance Program

Department: Communications & Information Technology

Category: Replacement

Location: Countywide

Est. Useful Life: Varies

Magisterial District: Countywide

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	6,050,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
<u>Funding Sources</u>													
CommIT Fund Transfer	6,050,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
Total Funding Sources	6,050,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,500,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

Beginning in FY 2018, the IT Infrastructure Replacement Capital Maintenance Program became part of the 10 year CIP. The IT Infrastructure Replacement Capital Maintenance Program (CMP) will support 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 multimillion dollar investment, connects to every department, throughout multiple County facilities, and supports Public Safety systems 24 hours a day/7 days a week. The IT Infrastructure Replacement CMP is funded with a \$550,000 transfer annually from the CommIT Fund.



IT Infrastructure Replacement Capital Maintenance Program (continued)

Project Description and Justification:

The IT Infrastructure Replacement Capital Maintenance Program (CMP) will support 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 multimillion dollar investment, connects to every department, throughout multiple County facilities, and supports Public Safety systems 24 hours a day/7 days a week. The IT Infrastructure Replacement CMP transfers \$550,000 annually from the CommIT Fund.

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, and the reduction of security effectiveness.

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 scheduled to receive \$550,000 annually each year during the FY 2019 – FY 2028 CIP.

**Community
Strategic Plan**

Connect Roanoke County to
the World

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



Integrated Financial System (IFS)

Department: Finance

Location: Countywide

Magisterial District: Countywide

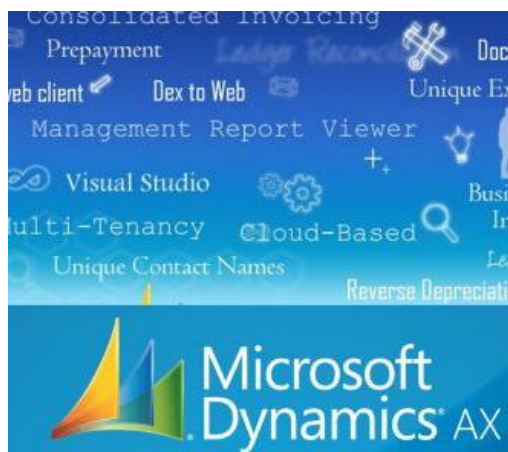
Category: Replacement

Est. Useful Life: 15-20 years

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	4,451,020	4,451,020	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County -													
Unrestricted Cash	2,951,020	2,951,020	0	0	0	0	0	0	0	0	0	0	0
Transfer from Schools	1,500,000	1,500,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	4,451,020	4,451,020	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 Integrated Financial System (IFS) project, fully funded in prior years, replaced and enhanced the financial software systems used by the County of Roanoke, Roanoke County Schools, and the Western Virginia Regional Jail Authority. IFS supports the integration of key financial business processes, supports process automation, and allows data to be entered or updated only once. Replacement was necessary as the vendor of the prior financial system would not commit any new resources to development and support was limited. The new finance system went live on July 1, 2016. This remains an active project due to the need for enhanced reporting capabilities which are currently being developed by the project vendor.



Integrated Financial System (IFS) (continued)

Project Description and Justification:

An Integrated Financial System (IFS) replaced the financial software systems used by the County of Roanoke, Roanoke County Schools, and the Western Virginia Regional Jail Authority. IFS supports the integration of key financial business processes and allows data to be entered or updated only once. The goal is to have all related financial processes in one system to share data and eliminate the need for system interfaces allowing for a more efficient and cost effective work environment.

Additional Operating Impacts:

This project had a minimal impact on the operating budget as the County pays for licensing and maintenance of software associated with the previous system. The County, Roanoke County Public Schools, and the Western Virginia Regional Jail Authority share a single financial system which has saved County citizens a substantial amount of tax dollars over the years in independent licensing, and the County anticipates continuing in this direction with this project.

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 allow County Administration to have real time financial data available which is instrumental in making informed decisions on how to enhance public health, safety, and/or welfare issues, protect our existing investment in facilities and infrastructure while anticipating future needs. It will also ensure the County complies with applicable state and federal mandates by providing the applicable financial data for reporting purposes.

Project Highlights and Key Milestones:

- The existing financial data software was used by the County since 1990 and was purchased by a new vendor in 2010.
- Vendor would not commit resources to new development, but continued to service the software for limited time.
- Integrated Financial System went live in July 2016.
- Implementation of IFS modules and process improvement will continue over the next several years.

**Organizational
Strategic Plan**

Responsive Service
Delivery

Develop a Strategy to
Streamline Processes and
Services



Human Resources and Payroll Modules

Department: Human Resources and Finance

Category: Replacement

Location: Countywide

Est. Useful Life: 15 years

Magisterial District: Countywide

Project Status: Planned

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,080,000	110,000	865,000	975,000	130,000	0	0	0	0	0	0	0	1,970,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	1,040,000	55,000	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000
Transfer from Schools	1,040,000	55,000	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000
Total Funding Sources	2,080,000	110,000	865,000	975,000	130,000	0	0	0	0	0	0	0	1,970,000
Operating Impacts			0	0	130,000	133,900	137,917	142,055	146,316	150,706	155,227	159,884	1,156,004



Project Summary:

The Human Resources (HR) and Payroll project, planned from FY 2018 to FY 2021, 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 anticipated to be split 50/50 with Roanoke County Schools.



Human Resources and Payroll Modules (continued)

Project Description and Justification:

The Human Resources (HR) & Payroll project, planned from FY 2018 to FY 2021, 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 new Integrated Financial System (IFS) implemented in 2016. 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, Talent Management, Talent Science, Learning Management, and HR Service Delivery. HR and Payroll will be upgraded to the Global HR module with this project. Project costs are anticipated to be split 50/50 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. Currently, the County pays approximately \$140,000 for licensing and maintenance on the existing software and \$225,000 for the cost of hosting the software which will no longer be necessary. Migration to Cloudsuite HCM and Payroll will require an annual subscription fee of \$495,000. The additional annual operating requirement is \$130,000 beginning in FY 2021.

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.
- Migration of Infor/Lawson CloudSuite HCM and Payroll will provide additional technology and functionality needed.
- Initial planning began in FY 2017 for the HR and Payroll Modules, with implementation scheduled from FY 2018 – FY 2021.
- Costs are split 50/50 with Roanoke County Schools.

**Organizational
Strategic Plan**

Responsive Service
Delivery

Develop a Strategy to
Streamline Processes and
Services



Fleet Center Generator

Department: General Services

Category: New Facilities

Location: 5235 Hollins Road, Hollins, VA 24019

Est. Useful Life: 10-15 years

Magisterial District: Hollins

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	195,000	195,000	0	0	0	0	0	0	0	0	0	0	0
Funding Sources													
Roanoke County -													
Unrestricted Cash	95,000	95,000	0	0	0	0	0	0	0	0	0	0	0
Fleet Center Fund	100,000	100,000	0	0	0	0	0	0	0	0	0	0	0
Total Funding Sources	195,000	195,000	0	0	0	0	0	0	0	0	0	0	0
Operating Impacts			0	0	1,100	1,133	1,167	1,202	1,238	1,275	1,313	1,353	9,782



Project Summary:

The Roanoke County Fleet Center Generator project, funded in FY 2017, engineers and installs a permanent backup electric generator system to ensure continuity of services during emergency events. The Fleet Center is the centralized facility for vehicle and heavy equipment maintenance and repairs for all departments and other outside agencies. Furthermore, a generator would provide enhanced options for managing County disaster recovery of computer network systems and may provide an excellent location for staging of other emergency functions. The project will be considered and constructed to coincide with timing on new Public Service Center. Because the Public Service Center Replacement CIP project includes the expansion of the Fleet Service Center, the generator project will be coordinated to ensure it addresses long-term functional needs associated with the expansion.



Fleet Center Generator (continued)

Project Description and Justification:

The Roanoke County Fleet Center Generator project engineers and installs a permanent backup electric generator system to ensure continuity of services during emergency events. This project helps the County to be better prepared in any circumstances by providing backup electricity. Furthermore, a generator would provide enhanced options for managing County disaster recovery of computer network systems and may provide an excellent location for staging of other emergency functions.

The Fleet Center is the centralized facility for vehicle and heavy equipment maintenance and repairs for all departments and other outside agencies, including Western Virginia Water Authority, Western Virginia Regional Jail Authority, and Roanoke Valley Resource Authority. Vehicles and equipment are required for both delivery of regular services and response to citizen needs during emergencies.

Installation of the generator will coincide with A&E designs for the expansion of the Fleet Service Center as part of the Public Service Center Replacement project to maximize cost effectiveness.

Additional Operating Impacts:

Annual contractual maintenance and testing costs are estimated to be \$1,100. The current estimated cost of the electrical systems and loads for the building, combined with market costs for generators, equipment and labor was derived by internal staff. Cost and efficiency impacts are variable depending on the number and duration of events.

Conformance with Plans, Policies, and Legal Obligations:

The availability of generator back-up capability for the Fleet Center is a necessary strategic core initiative in the County's overall emergency continuity of operations planning.

Project Highlights and Key Milestones:

- Fleet Center opened in 2009 as the centralized facility for vehicle and heavy equipment maintenance and repairs.
- Fleet Center supports Roanoke County departments and other agencies including Western Virginia Water Authority, Western Virginia Regional Jail, and Roanoke Valley Resource Authority.
- FY 2017 budget appropriated \$195,000 for an emergency generator and applicable electrical infrastructure needs.
- Will be installed to coincide with new Public Service Center project.

**Community
Strategic Plan**

Ensure Citizen Safety

Public Safety Facilities &
Equipment



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 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	10,043,574	2,393,574	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
Funding Sources													
Roanoke County - Unrestricted Cash	10,043,574	2,393,574	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
Total Funding Sources	10,043,574	2,393,574	800,000	800,000	800,000	750,000	750,000	750,000	750,000	750,000	750,000	750,000	7,650,000
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. As capital projects are planned to address capital maintenance issues, costs for this program are expected to decrease. Therefore, funding is reduced from \$800,000 transferred annually from General Fund to \$750,000 beginning in FY 2022.



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 2019 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.

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 County assets is necessary to maximize the potential of taxpayer funded buildings and facilities, which directly and indirectly supports all of the County's Community Strategic Plan Initiatives.

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 AC/ HVAC units, electrical and lighting systems, heaters, renovating buildings, upgrading building automated security systems, and repairing asphalt.

**Organizational
Strategic Plan**

Responsive Service
Delivery

Develop a Strategy to
Streamline Processes and
Services



Public Service Center Facility Replacement

Department: General Services

Category: Replacement

Location: 1206 Kessler Mill Road, Salem, VA 24153

Est. Useful Life: 30 years

Magisterial District: City of Salem

Project Status: Active

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	13,754,000	1,550,000	10,000,000	0	0	0	2,204,000	0	0	0	0	0	12,204,000
Funding Sources													
Roanoke County -													
Unrestricted Cash	500,000	500,000	0	0	0	0	0	0	0	0	0	0	0
Fleet Center Fund	50,000	50,000	0	0	0	0	0	0	0	0	0	0	0
Lease/Revenue Bonds	13,204,000	1,000,000	10,000,000	0	0	0	2,204,000	0	0	0	0	0	12,204,000
Total Funding Sources	13,754,000	1,550,000	10,000,000	0	0	0	2,204,000	0	0	0	0	0	12,204,000
Operating Impacts			0	0	0	0	0	0	0	0	0	0	0



Project Summary:

The Public Service Center Facility Replacement Project began in FY 2017 with the completion of a Building Planning Study. In FY 2018, a key piece of property necessary for expansion of the existing County Fleet Service Center was acquired. These steps were necessary to facilitate the relocation of several major functions from the existing Public Service Center. Also in FY 2018, substantial Architectural and Engineering design services are anticipated to be completed. The FY 2020 phase of this project is anticipated to provide for any necessary completion of design services, construction procurement, and the commencement of construction on the phases of the project, with construction anticipated for completion in FY 2020. It is also anticipated that a solution for the relocation of Parks, Recreation and Tourism offices and warehouse will be completed as part of FY 2023 funding. Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



Public Service Center Facility (continued)

Project Description and Justification:

Replacement of the Public Service Center implements a strategy that best blends operational 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 stormwater 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.

The project contains three major components including expansion of the existing County Fleet Services Center, utilization of a portion of the existing Public Service Center site not located in the flood plain, and the relocation of the Parks, Recreation, and Tourism department functions.

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 2018, County contracted for the acquisition of property to facilitate expansion of Fleet Service Center.
- In FY 2018, commencement of Architectural and Engineering design services are planned.





Bent Mountain Community Center Repairs and Renovations

Department: General Services

Category: Replacement

Location: 10140 Tinsley Lane, Bent Mountain, VA 24059

Est. Useful Life: 20-25 years

Magisterial District: Windsor Hills

Project Status: New

Financial Summary

	Total Cost	Through FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	Total FY 19 - FY 28
Total Project Cost	2,310,000	0	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000
<u>Funding Sources</u>													
Lease/Revenue Bonds	2,310,000	0	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000
Total Funding Sources	2,310,000	0	0	0	0	0	2,310,000	0	0	0	0	0	2,310,000
Operating Impacts			0	0	0	0	0	TBD	TBD	TBD	TBD	TBD	TBD



Project Summary:

The Bent Mountain Community Center Repairs and Renovations project will identify and address maintenance and repair needs for the facility. The Bent Mountain Community Center is housed in the former Bent Mountain Elementary School, originally constructed in the 1930s. Following the school's closure in 2010, the County Board of Supervisors took ownership of the property in 2011 and executed a lease with the Bent Mountain Center, Inc. in 2013. The Center is currently used by the Civic League for community programs. Various building systems have exceeded the end of their useful life and necessitate repairs for continued utilization. The estimated cost for renovations to the Community Center is \$2,310,000. Funding for this project will be evaluated on an annual basis in conjunction with the County's facilities assessment to be completed in the summer of calendar year 2018.



Bent Mountain Community Center Repairs and Renovations (continued)

Project Description and Justification:

The Bent Mountain Community Center Repairs and Renovations project addresses maintenance and repair needs for various building systems and components that have exceeded the end of their useful life. The Center, turned over to the Roanoke County Board of Supervisors in 2011, is currently leased to the Bent Mountain Center, Inc.

To better understand the repairs and renovations required at the Center, the County contracted with a professional Architectural and Engineering firm to provide an assessment for the facility. Specific needs identified for the original building and the 1990 addition include roofing replacement, mechanical system/HVAC replacement, emergency lighting and fire alarm system upgrades to meet code requirements, and accessibility requirements upon renovation. Additionally, the project may include repairing the structural parking lot and sidewalk issues, lighting and plumbing system renovations, and repairs to flooring, walls, and ceilings. The estimated cost for necessary renovations to the Community Center is \$2,310,000, which includes a modest 10% contingency factor.

Additional Operating Impacts:

Direct impact to the operating budget from repairs and renovations to the Bent Mountain Community Center are unknown at this time. There is potential for increased maintenance costs to various system upgrades including HVAC.

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.

Project Highlights and Key Milestones:

- Bent Mountain Elementary School constructed in 1930s with addition built in 1990.
- Elementary School closed in 2010, and County Board of Supervisors took ownership in 2011.
- In 2013, the Board executed a lease with Bent Mountain Center, Inc. to use a portion of the facility for community programs.
- Roanoke County contracted with A&E firm to provide assessment on necessary repairs and renovations.
- The Center requires multiple repairs and renovations to systems and components for continued use and to meet code requirements.

**Community
Strategic Plan**

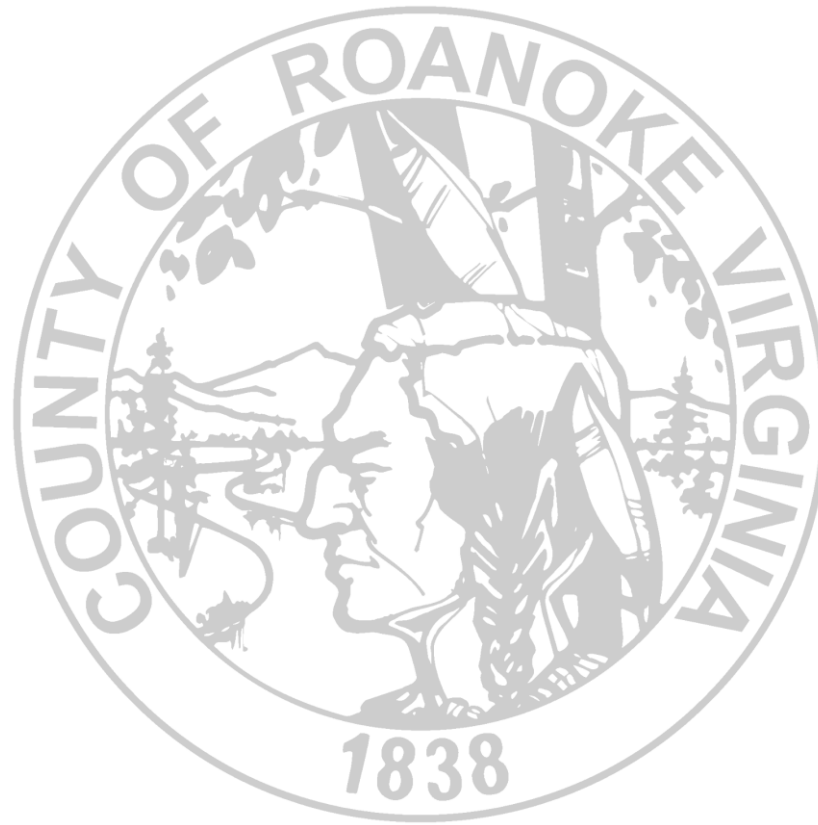
Promote Neighborhood
Connections

Accessibility of Services for All
Populations





Roanoke County Public Schools





County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Roanoke County Public Schools Summary

Note: Projects with \$0 in FY 2019-2028 are active projects that have been fully funded in prior fiscal years.

Functional Team/Department/Project	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 19-28 Total
Roanoke County Public Schools											
Schools											
Cave Spring High School	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
HR Payroll and Software System	432,500	487,500	65,000	0	0	0	0	0	0	0	985,000
Capital Maintenance Program	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	10,000,000
William Byrd High School	1,500,000	0	12,879,955	8,372,185	0	0	0	0	0	0	22,752,140
Hidden Valley Middle School	0	0	0	860,000	2,271,320	10,051,477	0	0	0	0	13,182,797
Burlington Elementary	0	0	0	0	0	325,000	4,975,199	0	0	0	5,300,199
Glenvar Elementary	0	0	0	0	0	379,030	5,813,601	0	0	0	6,192,631
WE Cundiff Elementary	0	0	0	0	0	0	0	650,000	9,386,373	0	10,036,373
Glen Cove Elementary	0	0	0	0	0	0	0	0	890,647	10,171,187	11,061,834
Schools Total	2,932,500	1,487,500	13,944,955	10,232,185	3,271,320	11,755,507	11,788,800	1,650,000	11,277,020	11,171,187	79,510,974
Subtotal, Roanoke County Public Schools Projects	\$2,932,500	\$1,487,500	\$13,944,955	\$10,232,185	\$3,271,320	\$11,755,507	\$11,788,800	\$1,650,000	\$11,277,020	\$11,171,187	\$79,510,974



Roanoke County Public Schools

FY 2019 – FY 2028 Capital Improvement Program Overview

As part of the Board of Supervisors' adopted FY 2019-2028 Capital Improvement Program (CIP), projects submitted by the Roanoke County Public Schools (RCPS) School Board are included in the ten-year plan as submitted by the School Board. This section contains summary information on the RCPS ten-year CIP. Additional project details can be found on the RCPS website at: <https://www.rcs.k12.va.us/Page/1700>.

Roanoke County Public Schools Projects Summary

The approved fiscal year 2019-2028 RCPS CIP includes \$79.5 million in projects and funding sources. The plan includes \$10.0 million (\$1.0 million annually) for the Schools Capital Maintenance Program to address smaller capital needs across all Schools facilities. The plan also includes \$0.985 million for the RCPS share of an updated Human Resources and Payroll system, with the total project cost being split equally with the County. The balance of funding (\$68.5 million) is planned for projects at specific facilities throughout the County. These projects include:

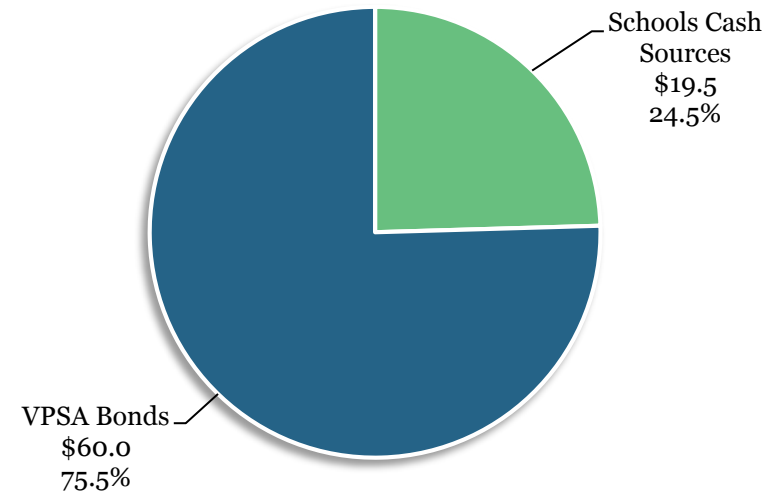
Project/Facility	Fiscal Year(s) Funding	Total Project Budget
Cave Spring High School	FY 2016-2018	\$37.5 million (funded in prior years)
William Byrd High School	FY 2019, FY 2021-2022	\$22.8 million
Hidden Valley Middle School	FY 2202-2024	\$13.2 million
Burlington Elementary	FY 2024-2025	\$5.3 million
Glenvar Elementary	FY 2024-2025	\$6.2 million
WE Cundiff Elementary	FY 2026-2027	\$10.0 million
Glen Cove Elementary	FY 2027-2028	\$11.1 million

Projects approved in the fiscal year 2019-2028 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 \$19.51 million over the ten-year plan. Bonds utilized by RCPS are Virginia Public Schools Authority (VPSA) bonds and total \$60.0 million over the ten-year plan.

**FY 2019 - FY 2028 RCPS Requested CIP
Summary of Funding Sources
\$79.51 Million**



Cash sources comprise 24.5% of all funding sources, while VPSA bonds comprise 75.5% 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.



Cave Spring High School

Cave Spring High School opened in 1968. The project included in this ten-year CIP was originally a part of the 1997 Roanoke County Public Schools Blue Ribbon Study, and was unanimously approved by the School Board for inclusion in the fiscal year 2019-2028 CIP. Planning and design for the project is underway, and the project was advertised for bid in FY 2018. With one lone bid coming in higher than budget, the School Board and RCPS have updated the project scope and will re-advertise the bid in the summer of FY 2019.



The renovation of Cave Spring High School is an estimated \$37.5 million project, with \$2.0 million funded in fiscal year 2015-2016 and the balance of \$35.5 million funded in fiscal year 2017-2018. The table below summarizes project expenditures and funding sources by fiscal year.

**Cave Spring High School
Project Expenditures and Funding Sources (\$ in millions)**

	<i>FY16</i>	<i>FY17</i>	<i>FY18</i>	Total FY16-18
Total Project Costs	\$2.00	-	\$35.5	\$37.5
Schools Cash Sources	\$2.00	-	\$5.5	\$7.5
VPSA Bonds	\$0.00	-	\$30.0	\$21.67
Total Funding	\$2.00	-	\$35.5	\$37.5

RCPS Capital Maintenance Program

As part of the RCPS CIP, \$1.0 million is budgeted annually 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 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 \$10.0 million in RCPS cash sources over the life of the ten-year plan.

Human Resources and Payroll Module

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 Finance Department, and will eliminate antiquated and inefficient Human Resources and Payroll modules. The RCPS portion of this project is estimated at \$0.985 million (of the total \$1.97 million project cost) from FY 2017 through FY 2021.

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

During fiscal year 2015-2016, 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 has been completed, and the results of the Facility Use and Condition Assessment Study have been utilized to identify facility renovations in the next ten years. 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.

Additionally, a demographics study to determine future projected enrollment for each educational facility was completed within the last year. 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 for the next ten years. With the information from this study, the School Board will be better able to predict building renovations needed 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 2019-2028 Capital Improvement Program. Estimated project costs and project timing of the major facility renovation projects included in the ten-year CIP are provided in the Roanoke County Public Schools Summary.



Appendices



County of Roanoke, Virginia FY 2019 – FY 2028 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 2019 – FY 2028 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.

<i>Functional Team/Project</i>	<i>Description</i>
Public Safety	
Masons Cove Fire Station Renovation	Renovations to the interior of the current Masons Cove Fire and Rescue Station. Addresses the quality of accommodations for on-duty staff and volunteers including sleeping quarters, bathrooms, and showers designed for both male and female volunteers. Renovations are anticipated to be completed in FY 2018.
Self-Contained Breathing Apparatus (SCBA) Replacement	Replacement of all SCBA units currently in service with newer units that meet revised National Fire Protection and Federal standards. Acquisition and replacement scheduled to be completed in calendar year 2018.
Hollins Fire & Rescue Parking Lot	Repairs to the rear concrete pad and adjoining asphalt areas at Hollins Fire Station #5. Work is anticipated to be completed during FY 2018.
Courthouse Security Upgrade	Security enhancements necessary to increase the level of security provided at the two security checkpoints in the Roanoke County Courthouse. Installation is underway and anticipated to be completed in FY 2018.
Audio/Visual Replacement for EOC	Replacement of audio/visual equipment in the EOC. Project was anticipated to be 50% grant funding that the County did not receive. Replacement of equipment will be addressed as older equipment fails through funding in departmental operating budgets, therefore the project was removed from the CIP for FY 2019.



Appendix A: Prior Year Projects Removed (Continued)

Community Services

Ivylard Road Improvements	Extension of Ivylard Road 0.206 miles from the end of State maintenance to a new cul-de-sac / turn around. Work started in FY 2018 and is anticipated to be completed by the end of the fiscal year.
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Human Services

Security Improvements for Libraries	Various security improvements for both staff and patrons at County Libraries. Improvements are being finalized and are expected to be implemented in FY 2018.
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Internal Services

Green Ridge Recreation Center Generator and Emergency Shelter	Engineering and installation of a commercial generator at the Green Ridge Recreation Center to allow the County to use the facility as a shelter in emergency events. Acquisition and installation is anticipated to be completed in FY 2018.
Administration Building Chiller Replacement	Replacement of a 160 ton water cooled chiller, which is past the expected and industry standard life, at the Roanoke County Administration Center. Replacement is anticipated to be completed in FY 2018.
AssessPro 5 Upgrade (Real Estate Assessment Technology)	Data migration from the current software system to the newest available platform, helping ensure vendor support and increase functionality in the Real Estate Valuation Office. Work is anticipated to be completed in FY 2018.



County of Roanoke, Virginia FY 2019 – FY 2028 Adopted Capital Improvement Program Unfunded Projects

<i>Functional Team/Project</i>	<i>Description</i>	<i>Estimated Cost</i>
Public Safety		
County Jail Generator Replacement	Replacement of the current generator at the County Jail with a 750kw diesel generator. The generator will be monitored and serviced with CMP funds until replacement funding is programmed in future CIPs.	\$300,000
Analog P25 System Replacement	The County of Roanoke and the City of Roanoke continue to partner on the 800 MHz Roanoke Valley Radio System (RVRS) for voice and data. The two parts of the system are a Primary Communications System and a Secondary Communications System. As the infrastructure to support the system ages, replacement funding will need to be considered as part of future CIPs.	\$1,000,000
Fire and Rescue Ballistic Body Armor	Purchase ballistic body armor for all fire and rescue personnel that includes both vests and helmets along with tactical emergency medical equipment for the treatment and transport of into the warm zone during an active shooter and intentional mass casualty incident. Fire and Rescue staff will look at the feasibility of utilizing grant funding to begin acquisition of this equipment.	\$185,000
Read Mountain Fire Station Addition	Construct a station addition at the Read Mountain Station to accommodate 24/7 shift personnel from both Botetourt and Roanoke Counties. County staff is beginning to look at the location of all fire stations in the County and anticipates completing a comprehensive study before additional capital improvements are funded.	\$650,000
Community Services		
Minor Transportation Improvements/ Future Transportation Planning	This CIP project would enable funding the following types of activities related to creating, applying for and delivering transportation and planning projects: survey work, deed/plat work, preliminary engineering, studies, match funds, professional services and other similar expenses. These activities will be considered as part of operating budget resources and elements of future projects.	\$1,000,000



Appendix B: Unfunded Projects (Continued)

Functional Team/Project	Description	Estimated Cost
Human Services		
South County Tech Center and Workforce Development Lab	Moving into the future as a resource for technology training and workforce development, existing reference space at the South County Library would be transformed to serve as a Next Generation Tech and Workforce Development Center. A study to address the capacity of the area to host a variety of technological equipment and costs of re-purposing the area, as well as the identification of future roles of the Library in the community is recommended before potential inclusion in the CIP.	\$117,500
Brambleton Center (Planning Study Only)	Study to address the long-term facility needs and programming at the Brambleton Center. Request is a low priority as any funding for improvements / re-purposing of the facility has not been identified.	\$300,000
Mt. Pleasant Library Renovations (Phase II)	Phase II of the Mt. Pleasant Library renovations would implement the transformation of the adjacent garage building into a business lab space, replace the concrete patio that adjoins both buildings, replace the concrete apron at the front of the library branch, construct and pave a redesigned parking lot for the properties and possibly provide a sewer connection to the public system. Available resources were prioritized to fund Phase I renovations, which addresses needed repairs and renovations at the existing library building.	\$242,000
Internal Services		
County Courthouse – Facility and Parking Lot Improvements	<p>Requested facility improvements included:</p> <ul style="list-style-type: none"> --The cooling tower and two chillers for the Courthouse facility have exceeded their useful reasonable service life expectancy and experience recurring maintenance and operational issues. --The Courthouse contains eight public restrooms with finishes and fixtures requiring replacement after 32 years of utilization. --The Courthouse parking lot is also original to construction of the facility and the asphalt has significant areas of structural failure that necessitates asphalt replacement of the entire lot. <p>County staff will utilize General Services CMP funds to maintain functionality in all areas of the Courthouse until a comprehensive plan for improvements is developed and funding is identified.</p>	\$603,750



Appendix B: Unfunded Projects (Continued)

Functional Team/Project	Description	Estimated Cost
Public Safety Building HVAC System	The Public Safety Building was opened in early 2007 and contains a significant and complex mechanical system. The major components of this system are more than half way past the reasonable service life for such equipment. System replacement is projected to be necessary beginning in the last 2-3 years of the County's 10-year CIP. This will be considered and programmed in future CIP as resources to fund the project are identified. County staff will utilize General Services CMP funds to maintain functionality of the HVAC system until replacement funds are allocated to the project.	\$900,000
RCAC Electrical and Mechanical Systems Updates	The core components of the Administration Building mechanical and electrical systems are original to the building's construction in 1981. County staff is beginning to look at all aspects of the Administration Building to ensure the facility meets the long-term needs of the County. County staff will utilize General Services CMP funds to maintain the Administration Building until a long-term facility utilization review is completed and capital improvement funding is allocated to the project.	\$1,200,000
RCAC Elevator Modernization	The two elevators and all major components for the Administration Building are original to the facility. General Services will be initiating an engineering condition and needs analysis for the elevators in FY 2018 as part of the facilities CMP. Once that study is complete and cost estimates finalized, this project will be considered as part of future CIPs.	\$265,000
General District Court Renovations (Phase II)	Phase II funding requested but not included in the CIP addresses refinishing of judges benches, witness stands, and pews and acoustic fabric in the Courtrooms. These items will be prioritized and considered as part of future CIPs.	\$254,000
Total, Unfunded Requests		\$7,017,250





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.

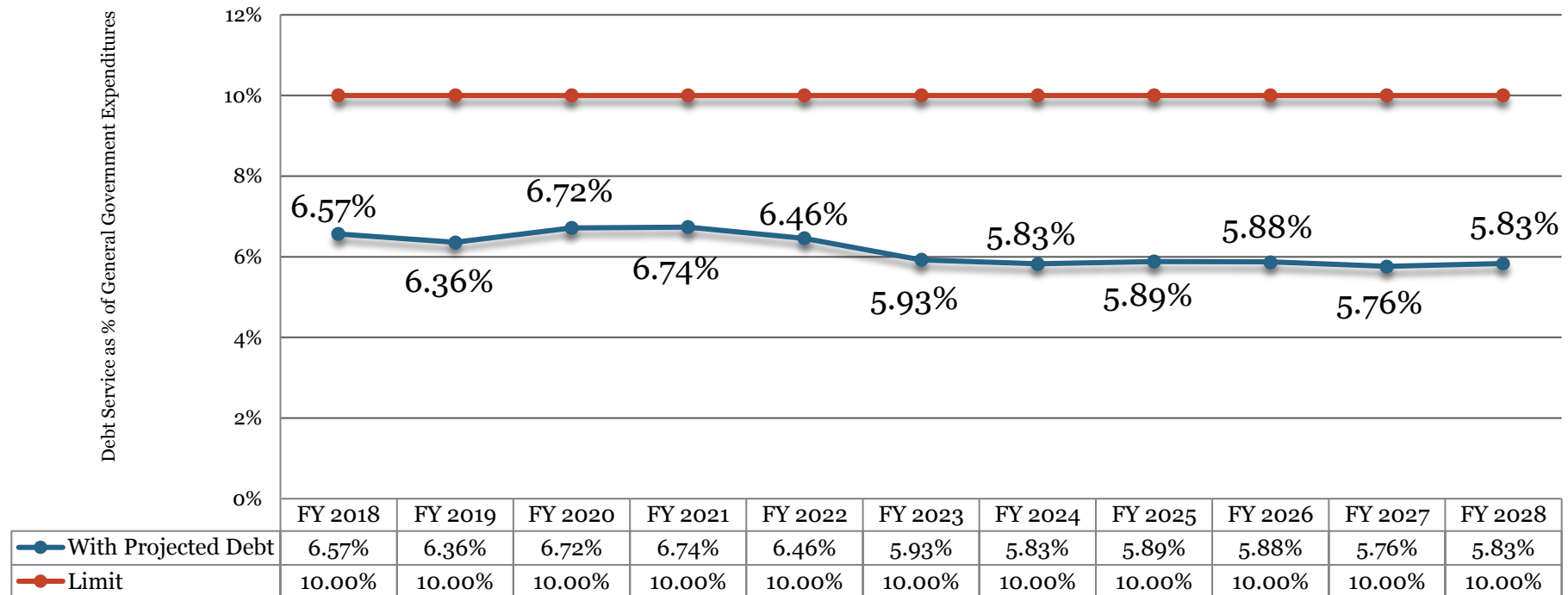
Ratio	Limit	FY 2017 (Actual)	FY 2018 (Projected)	FY 2019 (Projected)
Debt Service as a Percentage of General Government Expenditures	10.0%	6.78%	6.57%	6.36%
Debt as a Percentage of Taxable Assessed Value	3.0%	1.78%	1.68%	1.84%



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 Service as a Percentage of General Government Expenditures

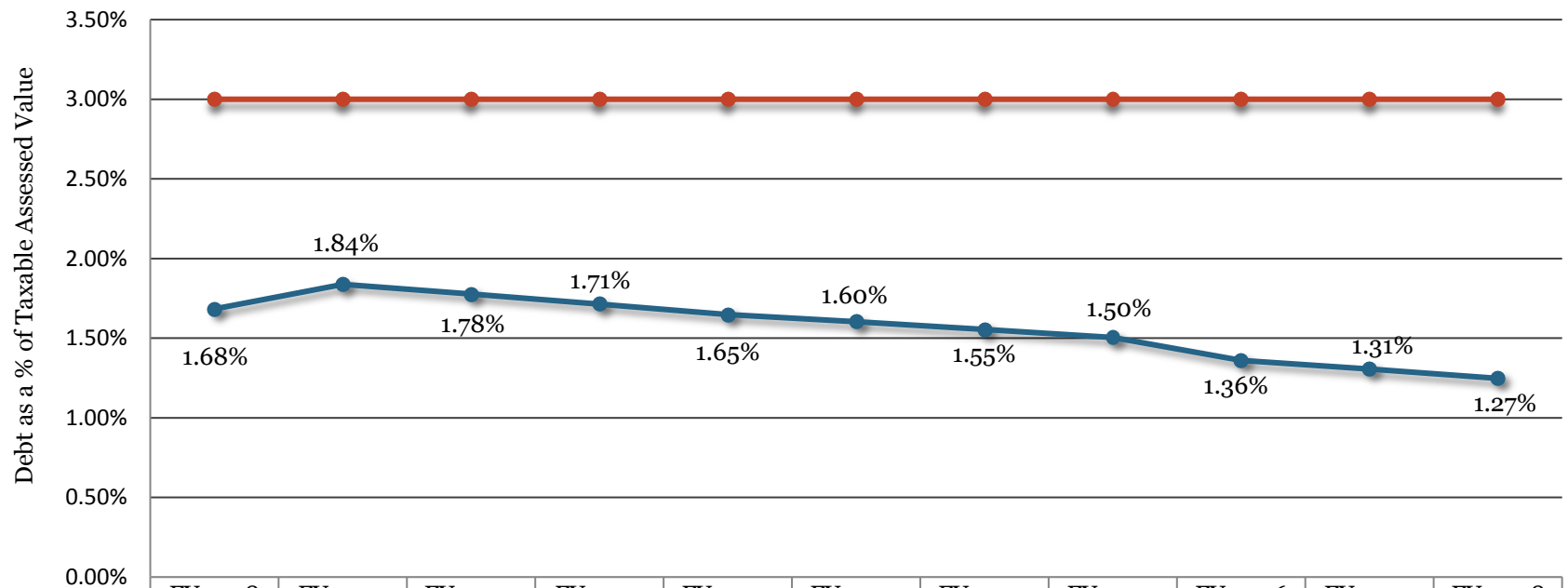




Debt as a Percentage of Taxable Assessed Value

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 as a Percentage of Taxable Assessed Value

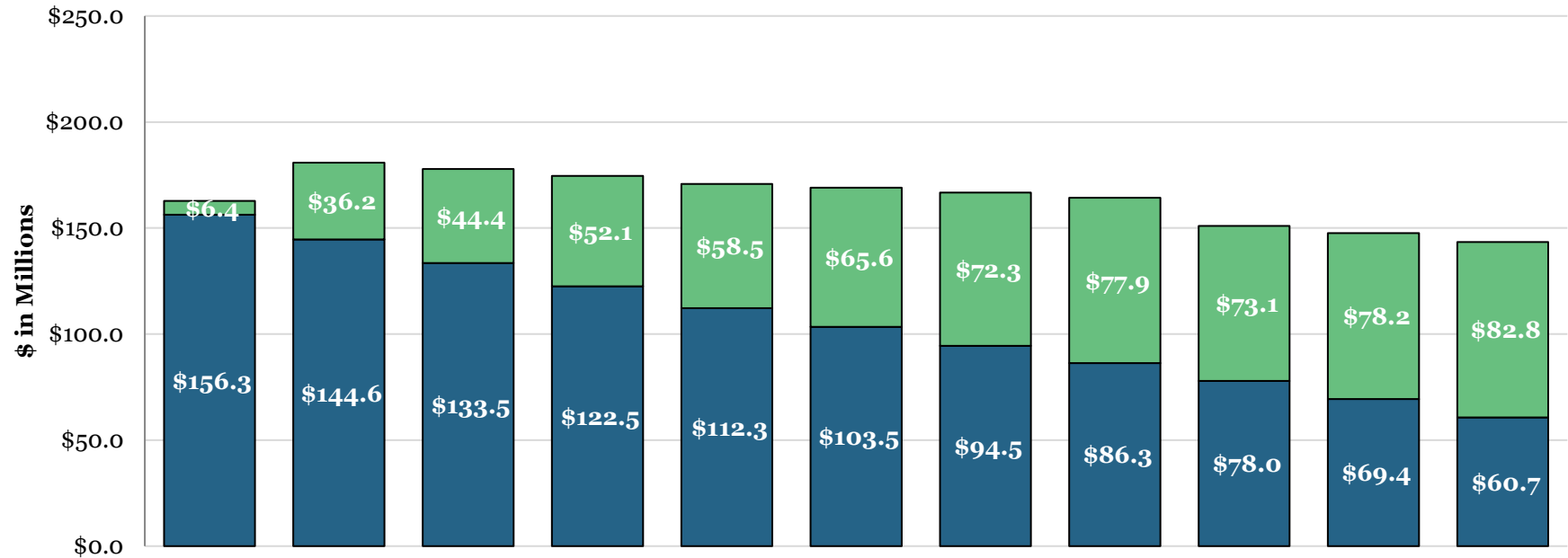




Outstanding Debt

The below chart outlines the level of outstanding debt for County and Schools from FY 2018 through FY 2028 based on the assumed debt issuance in the FY 2019 – FY 2028 Capital Improvement Program.

Existing and Planned Outstanding Debt Through Fiscal Year 2028



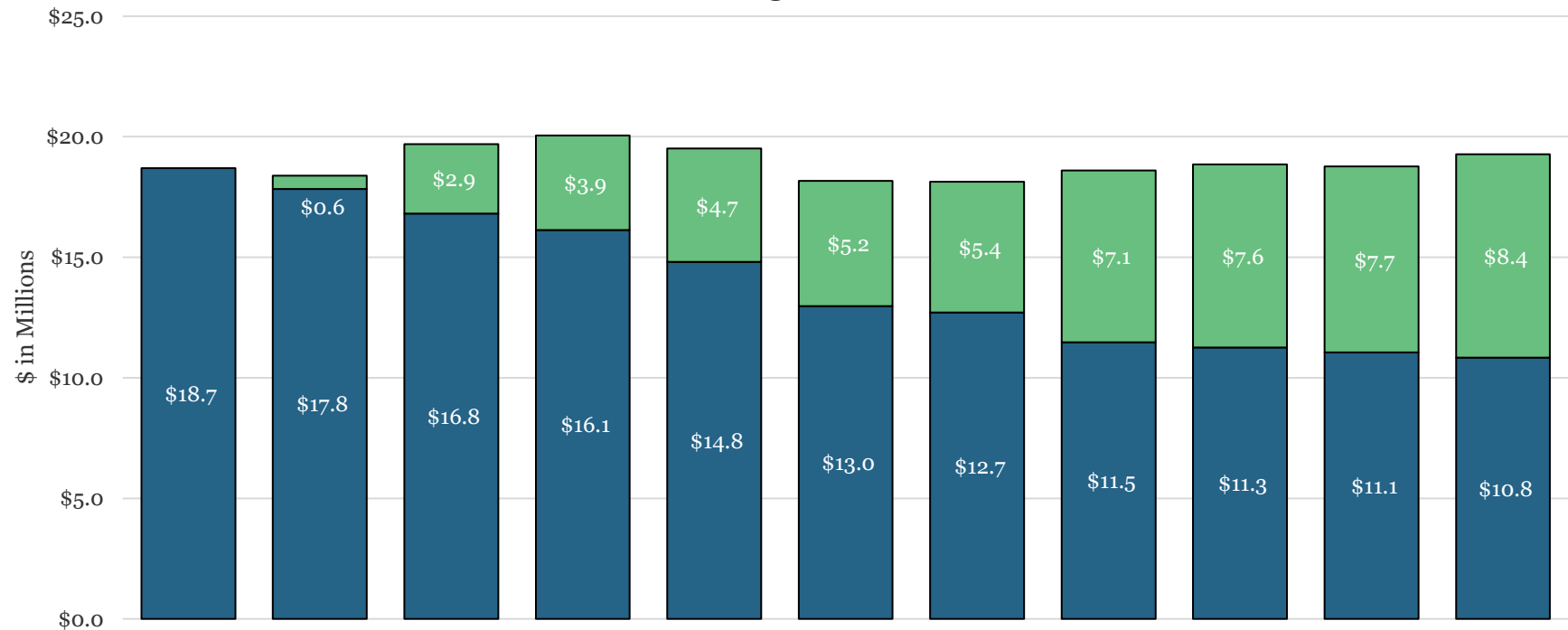
	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
New Debt Issuance - County	\$ 6,440,000	\$ -	\$ 10,000,000	\$ -	\$ -	\$ 9,614,000	\$ -	\$ -	\$ -	\$ -	\$ -
New Debt Issuance - Schools	\$ -	\$ 30,000,000	\$ -	\$ 10,000,000	\$ 9,232,185	\$ 767,815	\$ 10,000,000	\$ 10,000,000	\$ -	\$ 10,000,000	\$ 10,000,000
Existing Debt Outstanding (FY 18)	\$ 156,321,842	\$ 144,641,799	\$ 133,457,512	\$ 122,458,114	\$ 112,270,676	\$ 103,457,175	\$ 94,473,806	\$ 86,304,012	\$ 77,962,456	\$ 69,418,784	\$ 60,672,624
New Debt Outstanding (FY 18-28)	\$ 6,440,000	\$ 36,165,000	\$ 44,380,000	\$ 52,085,000	\$ 58,507,185	\$ 65,597,391	\$ 72,257,392	\$ 77,916,693	\$ 73,055,994	\$ 78,175,295	\$ 82,774,596
Total Debt Outstanding	\$ 162,761,842	\$ 180,806,799	\$ 177,837,512	\$ 174,543,114	\$ 170,777,861	\$ 169,054,566	\$ 166,731,198	\$ 164,220,705	\$ 151,018,450	\$ 147,594,079	\$ 143,447,220



Projected Debt Service

The below chart outlines the level of projected debt service for County and Schools from FY 2018 through FY 2028 based on the assumed debt issuance in the FY 2019 – FY 2028 Capital Improvement Program.

Projected Debt Service Through Fiscal Year 2028



	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028
Existing (through FY 2018)	\$ 18,700,611	\$ 17,834,554	\$ 16,812,342	\$ 16,132,401	\$ 14,808,195	\$ 12,970,607	\$ 12,712,176	\$ 11,477,683	\$ 11,255,760	\$ 11,052,661	\$ 10,835,576
Planned (After FY 2018)	\$ -	\$ 553,659	\$ 2,886,159	\$ 3,922,879	\$ 4,700,552	\$ 5,204,918	\$ 5,424,802	\$ 7,120,628	\$ 7,594,617	\$ 7,710,914	\$ 8,439,521



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 (AAA)	Alexandria (AAA)	Charlottesville (AAA)	Virginia Beach (AAA)
Debt Service as a % of General Government Expenditures Limit	10%	10%	N/A	10%	10%	12%	8%	10%
Debt as a % of Taxable Assessed Value Limit	3%	4%	4.5%	2.5%	3%	2.5%	N/A	3.5%

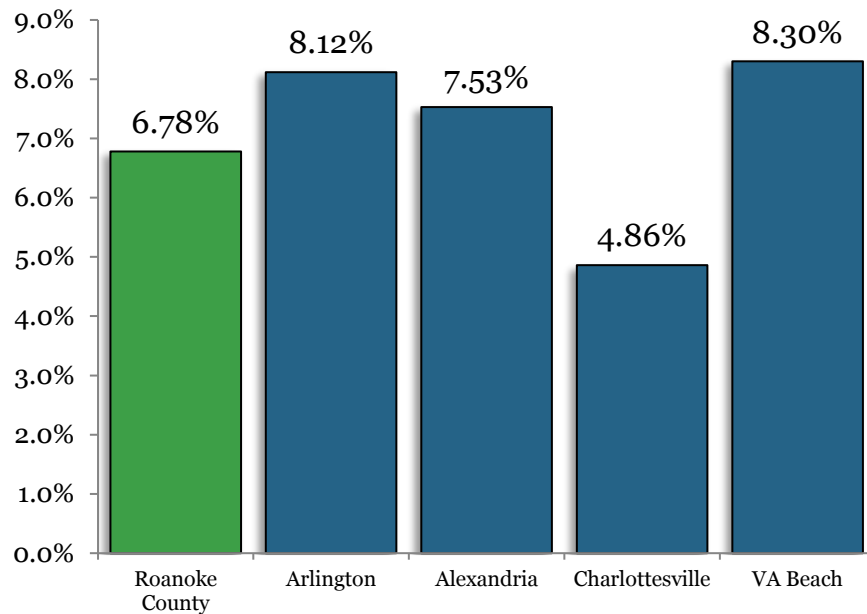
All information from each locality's 2017 Comprehensive Annual Financial Report (CAFR)



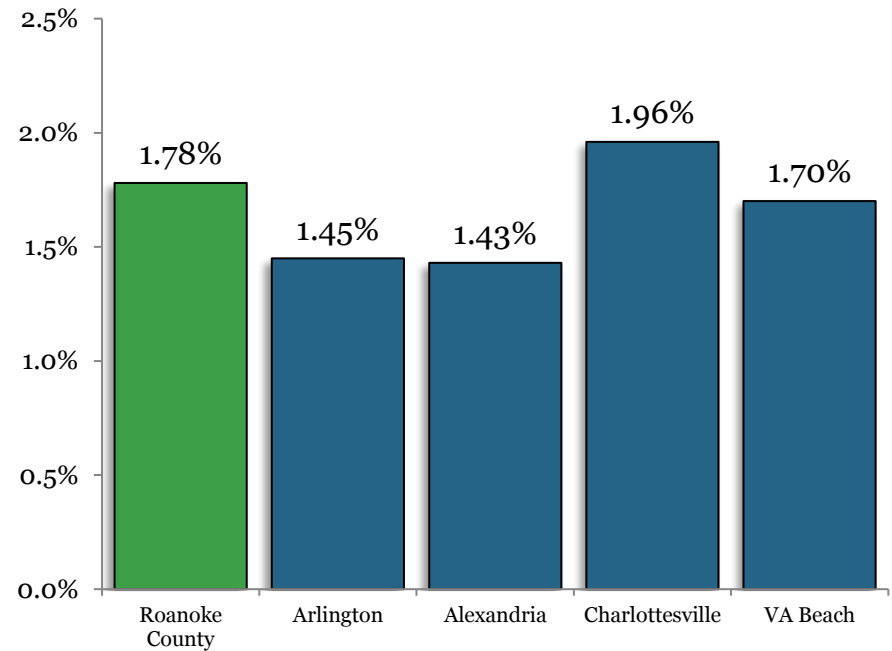
Comparative Jurisdictions (continued)

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. The primary factor holding the County back from a AAA rating is its residential-to-commercial tax base ratio, which is heavily skewed toward residential. All data below is based on data as of June 30, 2017.

Debt Service as a % of General Government Expenditures



Debt as a % of Taxable Assessed Value



All information from each locality's 2017 Comprehensive Annual Financial Report (CAFR)