



Appendices





County of Roanoke, Virginia FY 2021 – FY 2030 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 2021 – FY 2030 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	
Jail Control Room and Security Camera Upgrade	Replacement of 135 obsolete analog cameras with IP cameras and upgrade of the control room's security system. The software support for the cameras ended in 2012 and the new cameras will provide more security capabilities. This project is expected to be completed by the end of FY 2020.
General District Court Renovations and Furnishings	Updates to two General District Court courtrooms including refinishing courtroom benches and fixed furniture, painting, carpet replacement, lighting replacement, and replacement of acoustic fabric on courthouse walls. This project is expected to be completed by the end of FY 2020.
Community Services	
Cityworks Permit System	Cityworks replaced the Development Services software system to manage workflows related to land development, building plan reviews, permitting, building inspections and enforcement. This two phased project is expected to be completed by the end of FY 2020.
Restoration of Glade Creek Phase II	Funded through the NPDES - MS4 BMP Construction program, the project stabilized stream banks along Glade Creek through the lower part of Vinyard Park to reduce sediment discharge. Construction began in FY 2018 and was completed in the summer of 2019.
Merriman Road Drainage Improvements	This project was added in FY 2020 and upon further evaluation was cancelled due to updated cost estimate to complete. Funding for this project is reallocated for use as revenue in the FY 2021 CIP.



County of Roanoke, Virginia FY 2021 – FY 2030 Adopted Capital Improvement Program Unfunded Projects

The following represent projects that were not funded in the Adopted FY 2021 – FY 2030 Capital Improvement Program (CIP), adopted by the Board of Supervisors on June 23, 2020. The original Proposed FY 2021 – FY 2030 CIP presented on January 28, 2020 included some projects that were removed based on reduced revenues related to the COVID-19 pandemic. Some ongoing projects did not receive funding in FY 2021 but are not considered unfunded as they have planned funding within the ten-year CIP.

<i>Functional Team/Project</i>	<i>Description</i>	<i>Estimated Cost</i>
Community Services		
Minor Transportation and Planning Studies	The Minor Transportation and Planning Studies project was funded in FY 2020 in the amount of \$80,000. The project, as proposed on January 28, 2020, would have received an additional \$20,000 in FY 2021 and FY 2022. Due to reduced revenues and project scope, the project has been eliminated. The \$80,000 funded in FY 2020 has not yet been utilized and this balance will be repurposed to support projects adopted in FY 2021.	\$40,000
Hman Services		
Brambleton Center HVAC Repairs	The Brambleton Center HVAC Repairs project, as proposed on January 28, 2020, would have received funding in FY 2021 to replace an outdated boiler and air conditioning system at the recreation facility. With limited funding and temporary closure of the facility due to COVID-19, the project was eliminated in the Adopted FY 2021 - FY 2030 budget. Funding will be considered with the development of the FY 2022 - FY 2031 CIP.	\$300,000



**County of Roanoke, Virginia
FY 2021 – FY 2030 Adopted Capital Improvement Program
Unfunded Projects (Continued)**

<i>Functional Team/Project</i>	<i>Description</i>	<i>Estimated Cost</i>
Internal Services		
Cybersecurity Enhancement Program	Roanoke County Information Technology requested the project to enhance current measures to secure and protect the technology and data assets used by the community and internally by County departments. IT staff will continue to evaluate various resources and systems to assist with cybersecurity program efforts. Project may be included in future CIPs as more information is available on resources and systems available.	\$1,911,683
Laserfiche Forms	Roanoke County Information Technology requested the project to implement Laserfiche Forms across the organization, which would allow departments to complete and approve online forms within Laserfiche and could be used to collect information interdepartmentally or from individual employees. Project was not included as other initiatives were prioritized ahead of this request.	\$92,000
Total, Unfunded Requests		\$2,343,683



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.

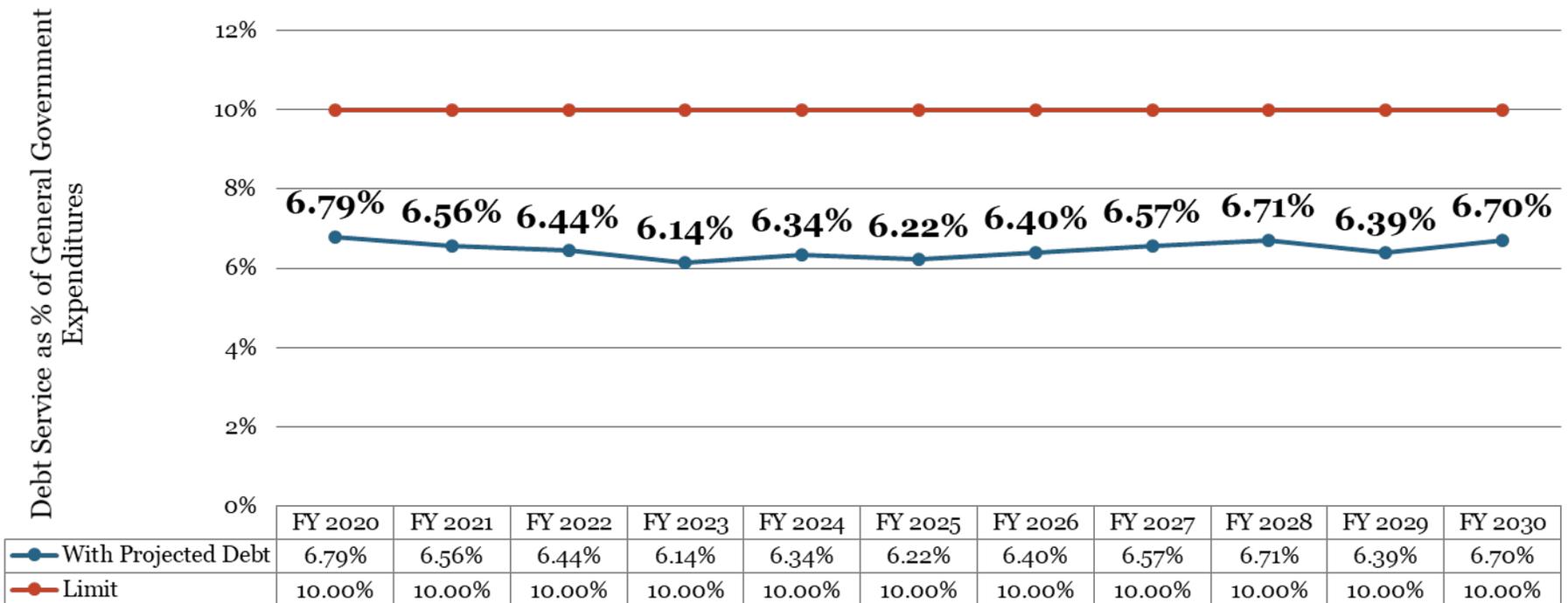
Ratio	Limit	FY 2019 (Actual)	FY 2020 (Projected)	FY 2021 (Projected)
Debt Service as a Percentage of General Government Expenditures	10.0%	6.26%	6.79%	6.56%
Debt as a Percentage of Taxable Assessed Value	3.0%	1.80%	1.74%	1.69%



Debt Service as a Percentage of General Government Expenditures

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

**Debt Services as a Percentage of General Government Expenditures
FY 2020 - FY 2030**

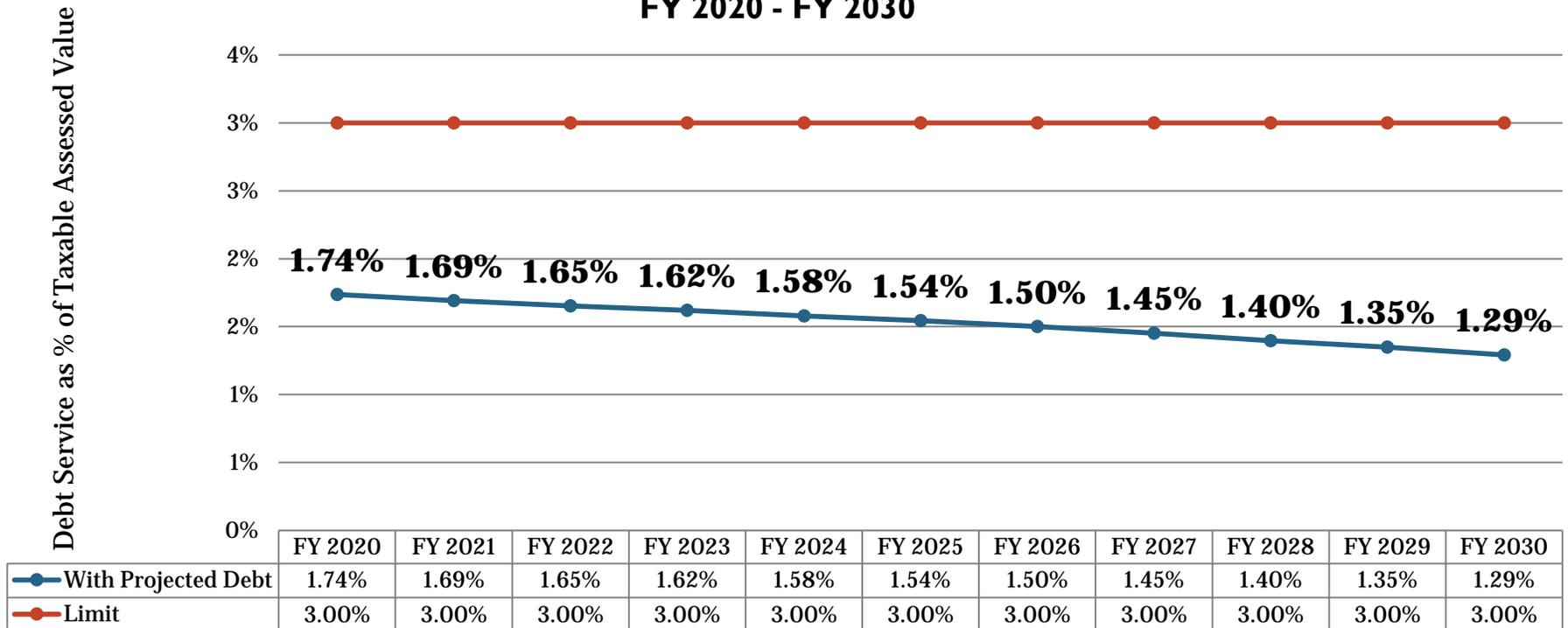




Debt as a Percentage of Taxable Assessed Value

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

**Debt Services as a Percentage of Taxable Assessed Value
FY 2020 - FY 2030**





Outstanding Debt

The below chart outlines the level of outstanding debt for County and Schools from FY 2020 through FY 2030 based on the assumed debt issuance in the FY 2021 – FY 2030 Capital Improvement Program.

**Existing and Planned Outstanding Debt
FY 2020 - FY 2030**



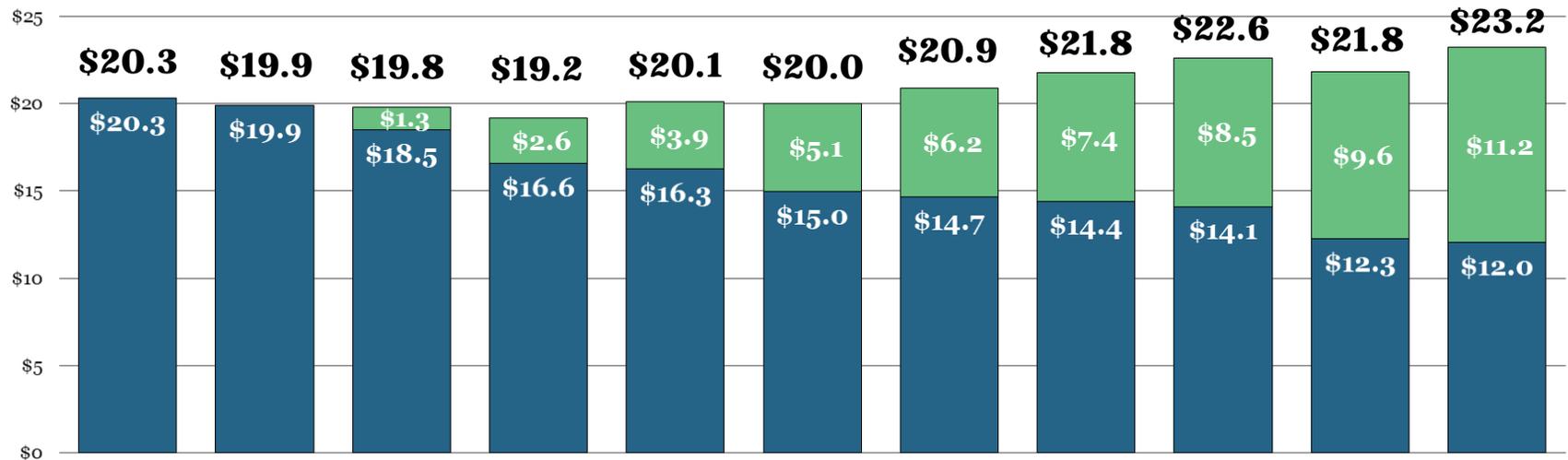
	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
New Debt Issuance - County	\$ 10,000,000	\$ -	\$ -	\$ 12,000,000	\$ -	\$ -	\$ 12,000,000	\$ -	\$ -	\$ 12,000,000	\$ -
New Debt Issuance - Schools	\$ -	\$ 12,000,000	\$ 12,000,000	\$ -	\$ 12,000,000	\$ 12,000,000	\$ -	\$ 12,000,000	\$ 12,000,000	\$ -	\$ 12,000,000
Existing Debt Outstanding (FY 20)	\$ 167,341,276	\$ 154,376,878	\$ 142,194,440	\$ 131,350,939	\$ 120,312,570	\$ 110,052,776	\$ 99,581,220	\$ 88,867,548	\$ 77,911,388	\$ 68,321,388	\$ 58,551,388
New Debt Outstanding (FY 20-30)	\$ 10,000,000	\$ 22,000,000	\$ 33,400,000	\$ 44,200,000	\$ 54,400,000	\$ 64,000,000	\$ 73,000,000	\$ 81,400,000	\$ 89,200,000	\$ 96,400,000	\$ 102,400,000
Total Debt Outstanding	\$ 177,341,276	\$ 176,376,878	\$ 175,594,440	\$ 175,550,939	\$ 174,712,570	\$ 174,052,776	\$ 172,581,220	\$ 170,267,548	\$ 167,111,388	\$ 164,721,388	\$ 160,951,388



Projected Debt Service

The below chart outlines the level of projected debt service for County and Schools from FY 2020 through FY 2030 based on the assumed debt issuance in the FY 2020– FY 2029 Capital Improvement Program.

**Projected Debt Service
FY 2020 - FY 2030**



	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030
Existing (FY 20)	\$ 20,298,126	\$ 19,898,919	\$ 18,501,888	\$ 16,598,356	\$ 16,262,444	\$ 14,957,781	\$ 14,668,768	\$ 14,396,527	\$ 14,108,251	\$ 12,271,962	\$ 12,048,496
Planned (After FY 20)	\$ -	\$ -	\$ 1,320,000	\$ 2,604,000	\$ 3,852,000	\$ 5,064,000	\$ 6,240,000	\$ 7,380,000	\$ 8,484,000	\$ 9,552,000	\$ 11,184,000



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 area 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%	10%	10%
Debt as a % of Taxable Assessed Value Limit	3%	4%	4.5%	2.5%	3%	2.5%	N/A	3.5%

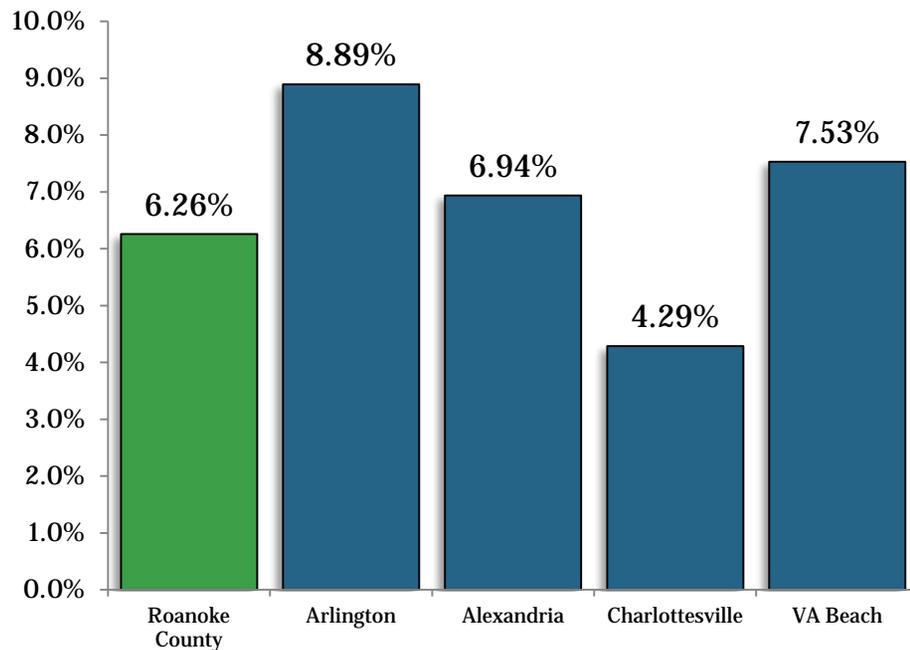
All information from each locality's 2019 Comprehensive Annual Financial Report (CAFR), FY 2020 Adopted Budget Documents, or Adopted Financial Policies



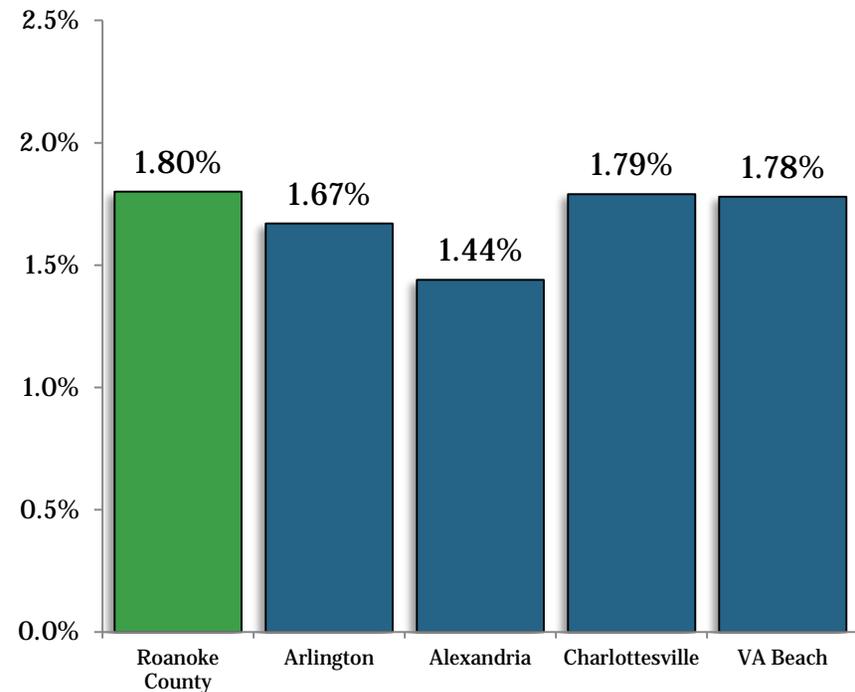
Comparative Jurisdictions (continued)

Roanoke County is currently rated AA+ by the three major ratings agencies. The below charts compare the County's actual debt ratios to four AAA rated localities in Virginia. Roanoke County's ratios compare quite favorably to each of the comparative jurisdictions. This positive comparison shows that the County's current debt load relative to its expenditures, assessed value, and population is consistent with the levels necessary to acquire AAA rated status. All data below is based on data as of June 30, 2019.

Debt Service as a % of General Government Expenditures



Debt as a % of Taxable Assessed Value



All information from each locality's 2019 Comprehensive Annual Financial Report (CAFR)