

Capital Improvement Program

Fiscal Years 2017 – 2021
Roanoke, Virginia





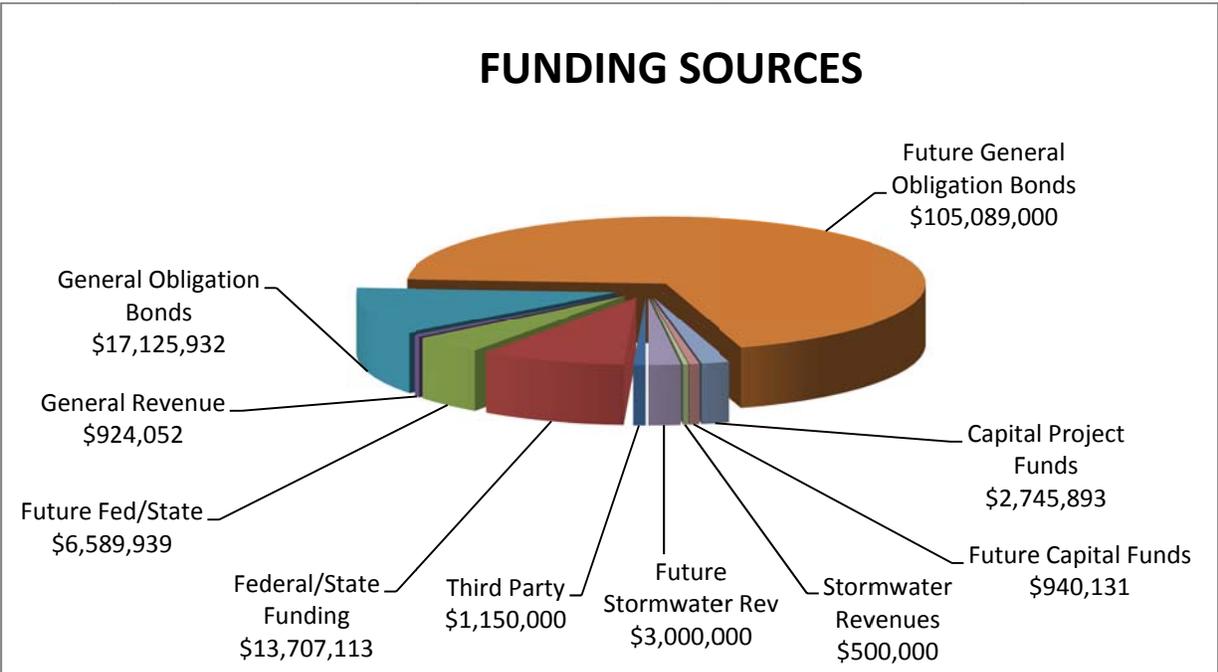
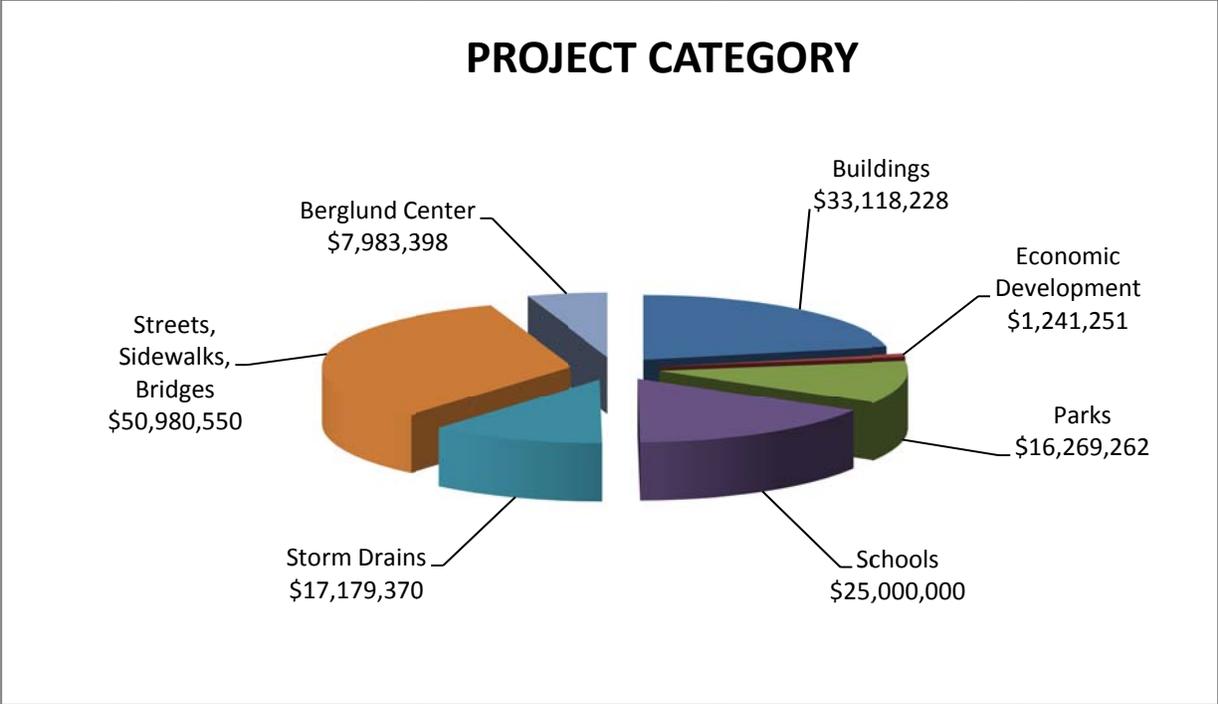
FY2017 ADOPTED BUDGET



Current Capital Improvement Program

Fiscal Years 2017-2021

\$151,772,059



Current Capital Improvement Program

Projected Spending Analysis - Fiscal Years 2017-2021

Project Category/Description	FY 2017	FY 2018-21	Total Projected Expenses
Buildings:			
911 Center	\$ 1,634,298	\$ 10,000,000	\$ 11,634,298
Fire Facility Master Plan	\$ -	\$ 6,856,126	\$ 6,856,126
Library Master Plan	\$ 3,581,548	\$ 11,046,256	\$ 14,627,804
TOTAL - Buildings	\$ 5,215,846	\$ 27,902,382	\$ 33,118,228
Economic Development			
Arts and Cultural Capital Contributions	\$ 441,570	\$ 200,000	\$ 641,570
Gill Memorial Building Renovation	\$ 599,681	\$ -	\$ 599,681
TOTAL - Economic Development	\$ 1,041,251	\$ 200,000	\$ 1,241,251
Parks:			
Greenways and Trails	\$ 2,129,373	\$ 3,574,646	\$ 5,704,019
Parks and Recreation Master Plan	\$ 3,565,243	\$ 7,000,000	\$ 10,565,243
TOTAL - Parks	\$ 5,694,616	\$ 10,574,646	\$ 16,269,262
Schools:			
School Improvements	\$ 5,000,000	\$ 20,000,000	\$ 25,000,000
TOTAL - Schools	\$ 5,000,000	\$ 20,000,000	\$ 25,000,000
Storm Drains:			
Neighborhood Storm Drain Program	\$ 4,879,370	\$ 12,300,000	\$ 17,179,370
TOTAL - Storm Drains	\$ 4,879,370	\$ 12,300,000	\$ 17,179,370
Streets, Sidewalks and Bridges:			
Bridge Renovation/Replacement Program	\$ 14,367,333	\$ 11,395,382	\$ 25,762,715
Curb, Gutter and Sidewalk Program	\$ 3,647,499	\$ 6,000,000	\$ 9,647,499
Passenger Rail Infrastructure	\$ 1,500,000	\$ -	\$ 1,500,000
Street Improvement Projects	\$ 4,904,000	\$ 6,250,312	\$ 11,154,312
Streetscape Project Improvements	\$ 916,024	\$ 2,000,000	\$ 2,916,024
TOTAL - Streets, Sidewalks and Bridges	\$ 25,334,856	\$ 25,645,694	\$ 50,980,550
Civic Center Fund:			
Civic (Berglund) Center Renovations	\$ 1,560,000	\$ 6,423,398	\$ 7,983,398
TOTAL - Civic Center Fund	\$ 1,560,000	\$ 6,423,398	\$ 7,983,398
GRAND TOTAL - All Funds	\$ 48,725,939	\$ 103,046,120	\$ 151,772,059



FY2017 ADOPTED BUDGET



911 CENTER



Project Description:

Develop a plan for the creation and construction of a new, state of the art emergency communications center (“E-911”) that will enable the telecommunications staff to provide call taking & emergency dispatch service to the City of Roanoke’s citizens, businesses, visitors, as well as the region.

Project Status:

There has been a realization that the current facility is inadequate and that a facility that is built specifically to house emergency response telecommunications is essential to insure that Roanoke continues to maintain its focus on public safety as a key component of the quality of life.

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus area of Public Safety and Services. Roanoke will be known as a safe city where public services will be provided equitably, efficiently and effectively to citizens.

Service Impact:

Current E-911 facilities do not offer adequate space for City telecommunications staff, a true training environment, and are limited by the number of telephone trunk lines that are available to support our growing City population as well as the growth across our MSA.

Operating Budget Impact:

Additional operational costs such as higher utilities (including high speed internet connectivity, and electricity or new personnel) will be determined based on findings from the initial planning study and architectural and engineering work which will be completed in 2017.

911 CENTER

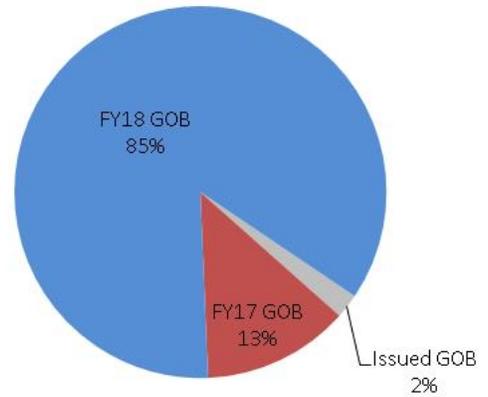
Funding Source(s):

Funding Previously Appropriated:

General Obligation Bond Issue (FY 2015)	\$250,000
Subtotal Previously Appropriated	250,000

Future Funds:

General Obligation Bond Issue (FY 2017)	1,500,000
General Obligation Bond Issue (FY 2018)	10,000,000
Subtotal Future Funds	11,500,000
Total	\$1,750,000



Project Cost Summary:

Description	Prior Year Spending*	FY 2017	FY 2018-2021 **	Total Project Cost
Planning & Engineering	\$0	\$1,134,298	\$0	\$1,134,298
Acquisition of Property	0	500,000	0	\$500,000
Construction	0	0	10,000,000	\$10,000,000
Equipment/Furnishings	0	0	0	\$0
Other	115,702	0	0	\$115,702
Total By Fiscal Year	\$115,702	\$1,634,298	\$10,000,000	\$11,750,000

* Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

** Following the initial planning study, future amounts and timing of the project will be refined including an amount for Equipment and Furnishings.

FIRE FACILITY MASTER PLAN



Top Left: Station No. 8 Crystal Springs Avenue
Bottom Left: Station No. 2 Noble Avenue
Top Right: Station No. 7 Memorial Avenue

Project Description:

This project includes the proposed renovation, relocation or replacement of three Fire EMS Stations, Station No. 2 (Noble Avenue), Station No. 7 (Memorial Avenue), and Station No. 8, (Crystal Spring Avenue). These older stations require higher maintenance and do not adequately serve modern firefighting equipment.

All three stations lack adequate facilities for female firefighters which limits assignments. Stations 2 and 7 have bay sizes that limit apparatus placement. Stations 7 and 8 were built in the 1920s and the electrical/mechanical/function of the station is out of date and in poor condition. Station No. 8 has recurring flooding in the basement area creating a health hazard for living conditions due to mold/mildew and deteriorating walls and foundation.

Station No. 2 was built in 1950 and apparatus exits/enters from the front and back of the station which slows response times. The location of this station also delays response time and relocating to the main artery of Williamson Road would improve service delivery.

Station No. 8 is located in a residential community and exits onto a one way street negatively impacting response times. Relocation of the station to the main artery of McClanahan/Avenham/Franklin would eliminate delayed response times due to station location.

Project Status:

Architectural-engineering design concept planning is complete and site selection is underway. Architectural and engineering design is expected to begin in FY 2018.

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus area of Public Safety and Services. Roanoke will be known as a safe city where public services will be provided equitably, efficiently and effectively to citizens.

FIRE FACILITY MASTER PLAN

Service Impact:

Response times are expected to be reduced for stations which are relocated. Female assignments will be possible with accommodating facilities. Also, construction of new stations will provide the needed capacity to house modern firefighting equipment providing better service during emergency responses.

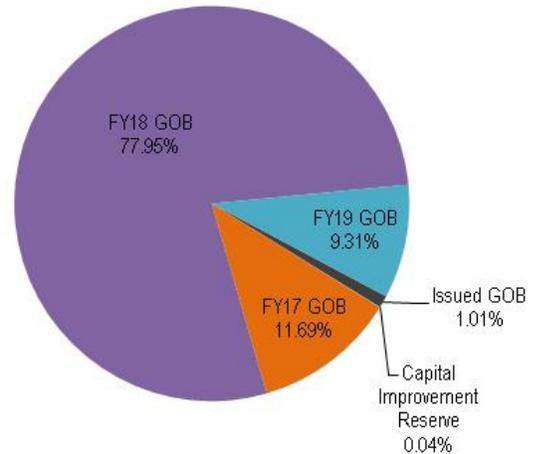
Operating Budget Impact:

There are no additional personnel or operating budget impacts anticipated.

Funding Source(s):

Funding Previously Appropriated:

General Obligation Bond Issue (FY2015)	\$	70,000	
Capital Improvement Reserve	\$	<u>2,500</u>	
Subtotal Previously Appropriated			72,500
Future Funds:			
General Obligation Bond Issue (FY 2018)		810,000	
General Obligation Bond Issue (FY 2019)		5,400,000	
General Obligation Bond Issue (FY 2021)		<u>645,000</u>	
Subtotal Future Funds			<u>6,855,000</u>
Total			<u>\$ 6,927,500</u>



Project Cost Summary:

Description	Prior Year Spending*	FY 2017	FY 2018-2021	Total Project Cost *
Planning & Engineering	\$70,779	\$0	\$1,170,000	\$1,240,779
Acquisition of Property	0	0	0	\$0
Construction	595	0	5,686,126	\$5,686,721
Equipment/Furnishings	0	0	0	\$0
Other	0	0	0	\$0
Total By Fiscal Year	\$71,374	\$0	\$6,856,126	\$6,927,500

* Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

LIBRARY MASTER PLAN



CITY OF ROANOKE

WILLIAMSON ROAD LIBRARY

November 2nd, 2015

SCHEMATIC DESIGN RENDERING



Project Description:

On December 19, 2005, City Council approved the Library Master Plan to become a part of Vision 2001-2020, the City's Comprehensive Plan. The Master Plan recommended a three phase delivery system of neighborhood, full service and resource centers that will bring a depth of collections, services, technology, and programs. A revision to this plan was presented to City Council on February 6, 2012. The revisions shifted the focus away from building a large "super" branch to realigning funds for renovations at neighborhood branches, and coordinating renovations to the first floor of the Main Library to coincide with the work being done at Elmwood Park.

Project Status:

- Phase I has been completed and included renovation of the Jackson Park and Gainsboro facilities, and stand-alone kiosk facilities at Valley View Mall and the Garden City Recreation Center.
- Phase II consists of the following:
 - First floor remodeling at Main Library which was completed in October 2014
 - Expansion/renovation of Raleigh Court Branch; completed in April 2016.
 - Expansion/renovation of Williamson Road Branch; Planning, design, architectural and engineering, began in FY15, construction in FY 2016 wrapping up in FY 2017
 - Expansion/renovation of Melrose Branch; architectural and engineering in FY 2017, construction in FY 2017-2018
 - New storefront branch Countryside FY 2017-2018
 - New South Roanoke e-Branch FY 2018-2019
 - Main Library Renovations Phase II FY 2019-2020

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) in the focus area of People and Human Development. The City will promote lifelong learning for all citizens.

LIBRARY MASTER PLAN

Service Impact:

Facility improvements will enhance the delivery of programs and services.

Operating Budget Impact:

The revisions to the Library Master plan in February 2012 reduce the amount originally planned for increases in personnel and operating costs. The large “super” branch would have required eight new staff and an annual operating budget of approximately \$800,000. The proposed neighborhood branch model will require only three additional staff and an operating budget less than \$300,000. No additional personnel or operational budgetary impact is anticipated for FY 2016 as a direct result of this capital project.

Funding Source(s):

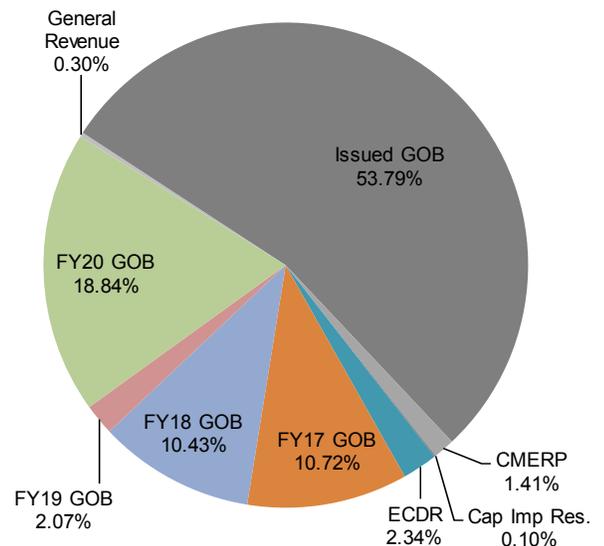
Funding Previously Appropriated:

Capital Improvement Reserve	\$ 25,473	
Capital Maint. Equip. Replacement Program (CMERP)	374,520	
Economic and Community Development Reserve	622,200	
General Fund Revenue	80,000	
General Obligation Bonds (various FYs)	14,276,608	
Third Party	<u>50,000</u>	
Subtotal Previously Appropriated		15,428,801

Future Funds:

General Obligation Bond Issue (FY 2017)	2,845,000	
General Obligation Bond Issue (FY 2018)	2,769,000	
General Obligation Bond Issue (FY 2019)	550,000	
General Obligation Bond Issue (FY 2020)	<u>5,000,000</u>	
Subtotal Future Funds		<u>11,164,000</u>

Total \$26,592,801



Project Cost Summary:

Description	Prior Year Spending*	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$1,386,270	\$320,000	\$520,000	\$2,226,270
Acquisition of Property	778,025	0	500,000	\$1,278,025
Construction/ Equipment/Furnishings	9,193,304	3,024,048	9,670,256	\$21,887,608
Other	607,398	237,500	356,000	\$1,200,898
Total By Fiscal Year	\$11,964,997	\$3,581,548	\$11,046,256	\$26,592,801

* Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

ARTS AND CULTURAL CAPITAL CONTRIBUTIONS



Project Description:

On November 18, 2008, City Council approved capital project contributions for Center in the Square, the Science Museum of Western Virginia, the Harrison Museum of African American Culture and the YMCA. Capital funding will support capital improvements outlined below and will be provided over a five year period from FY 2010 to FY2015 except for the YMCA contribution which will be from FY2013 to FY2017. On May 13, 2013, City Council approved additional capital project contributions for Virginia Museum of Transportation and the Jefferson Center over a five year period from FY 2014 to FY 2018.

Center in the Square has received \$1.5 million to support a \$27 million project. This now complete project features a redesigned, interactive and open atrium area, first floor façade improvements, an upgrade of mechanical, electrical and plumbing systems, butterfly aviary and a roof-top green-energy laboratory that allows space for a future café.

The Science Museum of Western Virginia has received \$500,000 to support a \$5 million now complete project which includes reinvention and redesign of the museum and galleries focusing on environmental stewardship, healthy living and improvement of science, technology, engineering and mathematics literacy.

The Harrison Museum of African American Culture is to receive a total of \$500,000 to support a \$2.14 million project which includes transition of the museum location to Center in the Square. Specifically, the project will support capital improvements for the Harrison Museum.

The YMCA of Roanoke Valley is to receive a total of \$500,000 between FY13-FY17 to support a \$2.5 million project for the expansion of YMCA facilities. It should be noted that the city has previously provided a \$2 million contribution to the YMCA spanning ten years from FY 2002 to FY2012. This contribution is related to a separate agreement and is excluded from this project description and totals.

The Virginia Museum of Transportation is to receive \$500,000 between FY 2014 to FY 2018 to support a capital project to improve access to the rail equipment, extend the roof of the Claytor Pavilion and renovations to the 1918 Norfolk and Western Freight Station.

The Jefferson Center is to receive \$500,000 between FY 2014 to FY 2018 to support acute building facility needs which is owned by the City.

Project Status:

Center in the Square, Science Museum of Western Virginia and The Harrison Museum of African American Culture had a grand re-opening May 18, 2013.

ARTS AND CULTURAL CAPITAL CONTRIBUTIONS

The YMCA completed phase one of the expansions in January 2011 which included doubling the size of the Wellness Center, installing automatic doors at both entrances and improving lighting in both the lap and family pools. Phase two was completed in the spring of 2011 which included the addition of a new youth center, expansion of the Group Exercise Studio and extension of the infant area. Phase three was complete in the fall of 2011 and included converting the previous teen center into a larger space that promotes healthy living through group exercise.

Jefferson Center is currently in the midst of a campaign to raise a total of \$4 million. \$2.5 million to address critical replacements and refurbishments above and beyond what is needed for operations. Additional gifts of at least \$1.5 million will add \$1 million for a Facilities and Equipment Capital Fund and \$500,000 to invest in programmatic enhancements and strengthen and enrich education programs. Jefferson Center currently has commitments for \$2.7 million and has collected donations and grants to date totaling \$1,588,323. The public phase of the campaign began April 17, 2015 to rally broad public support.

Virginia Museum of Transportation is halfway to matching a \$1 million challenge grant offered by Norfolk Southern. NS had two stipulations in order for the museum to receive funding. The museum had to raise \$1 million from private sources, criteria which has already been exceeded. Second, NS required \$1 million in support from Roanoke City. The City has awarded \$500,000, which currently permits the museum to receive only a portion of the NS match.

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus area of Environmental and Cultural Resources. The beneficiaries of this project will help Roanoke successfully market itself and the region to residents and visitors as both an outdoors and an indoors destination, combining outstanding cultural and eco-tourism in one community.

Service Impact:

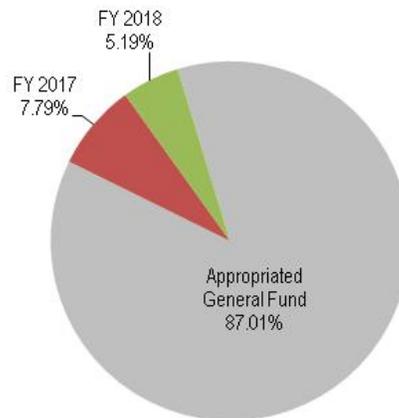
These renovations and new construction projects will help Roanoke continue to be a vibrant place for people to live, work, and play.

Operating Budget Impact:

There is no additional operating budget impact nor are additional personnel needed as a result of this project.

Funding Source(s):

Funding Previously Appropriated:			
General Funds	\$3,3		50,000
Future Funds:			
Transfer to Capital (FY 2017)	\$	300,000	
Transfer to Capital (FY 2018)	\$	<u>200,000</u>	
Subtotal Future Funds			<u>\$ 500,000</u>
Total	\$3,8		<u>50,000</u>



Project Cost Summary:

Description	Prior Year Spending	FY 2017	FY 2018-2021	Total Project Cost
Contributions	\$3,208,430	\$441,570	\$200,000	\$3,850,000

GILL MEMORIAL BUILDING RENOVATION



Project Description:

The Gill Memorial building at 709 South Jefferson Street in downtown is to be renovated into a regional business accelerator. The vacant building, which was once a hospital, will be converted into a Technology Accelerator housing early-stage companies with goals of connecting them to peers, mentors, and investors in an environment that offers a host of services and programs.

The Roanoke Acceleration Center will initially focus on accelerating three to five companies each year. It's anticipated that the center will have an economic impact of approximately \$3.4 million per year and create 18 initial jobs. As these companies accelerate and expand many more jobs can be anticipated in the future.

The City invested \$860,000 to acquire the property through funds provided with the sale of the Naval Reserve Building at 250 Reserve Avenue to Carilion along with property in Crystal Springs which currently contains tennis courts. New courts will be constructed nearby at the Rivers Edge Sports Complex. An Industrial Revitalization Fund Grant for \$600,000 was awarded by the State which will cover the costs of the renovations to the building.

Project Status:

The City has acquired the property and recently selected a development team tasked with renovating three floors of the building. Construction is expected to be completed by December 2016 with Virginia Western Community College and the Roanoke-Blacksburg Innovation Network (RBIN) to begin operations in January 2017.

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus area of development in underutilized sites and to promote redevelopment as part of Roanoke's economic development strategy. As a business accelerator, the Roanoke Accelerator Center will support and expand workforce development efforts that link economic development agencies and educational institutions as well as develop work/study (co-operative) programs linking existing industry, high schools, colleges, and economic development agencies. It also continues to improve upon the goal of supporting redevelopment of the South Jefferson Redevelopment Area (SJRA).

Service Impact:

The Center will initially focus on accelerating three to five companies each year and will have an economic impact of approximately \$3.4 million per year and create 18 initial jobs.

Operating Budget Impact:

The City has agreed to cover operating losses, if any, up to \$25,000 for five years starting in FY2018.

Funding Source(s):

Funding Previously Appropriated:

General Fund Revenue	60,000	
State Grant Funds	<u>600,000</u>	
Subtotal Previously Appropriated Funds		\$1,460,000
Future Funds:		
None	<u>\$ 0</u>	
Subtotal Future Funds		<u>\$ 0</u>
Total		<u>\$1,460,000</u>

Project Cost Summary:

Description	Prior Year Spending	FY 2017	FY 2018-2021	Total Project Cost
Acquisition of Property	860,319	0	0	\$860,319
Construction	0	599,681	0	599,681
Total	860,319	599,681	0	1,460,000

GREENWAYS AND TRAILS



Project Description:

Greenways are corridors of protected open space, developed as linear parks and managed for conservation and recreation purposes. They often follow natural land or water features, and link green-space, waterways, nature reserves, parks, schools, cultural features, neighborhoods, and historic sites. By defragmenting our urban landscape, greenways create a natural conduit that is environmentally friendly and enhances proximate land use values. Trails are created within the greenway to manage public access into our greenspaces as defined by the City's linear park policy. These trails enhance public health by offering alternative modes of travel; grow the economy through close residential and retail land usage, and increase property values and tourism.

Project Status:

Greenways remain our citizen's highest ranked priority. Roanoke currently has more than 19-miles of multi-use, paved greenway trail, over 10 miles of trail within Mill Mountain, 46 miles of front-country trails within the Carvins Cove Natural Reserve, and ten miles of navigable waterways and fishing opportunities. As stated in the Comprehensive Plan, the City's portion of the regional effort has focused upon five major greenway systems over the past thirteen years to include the Roanoke River, Lick Run, Murray Run, Mill Mountain and Tinker Creek Greenways. Per the 2013 Parks and Recreation Master Plan, the City is encouraged to explore and connect multi-use, off-road recreational trails within the neighborhoods to promote accessibility and holistic health benefits. For FY 2017, Parks and Recreation plans to move forward on the following greenway initiatives:

1. Tinker Creek Greenway: Parks and Recreation will utilize \$200,000 in Regional Surface Transportation Funds to begin engineering and design on the one of the sections of greenway trail that will eventually connect to Masons Mill Park and the future location of Deschutes Brewery.
2. Roanoke River Greenway: Continue to work with City Engineering towards the completion of this Priority 1 greenway trail connecting to the City of Salem.
3. The City is successfully utilizing Safe Routes to School funding to begin the streetscape sidewalk connections from the Garden City neighborhood northward eventually connecting to the Roanoke River Greenway at Riverland Road & Garden City Boulevard.

Comprehensive Plan Impact:

The Greenway and Trails Project fulfills the Comprehensive Plan (Vision 2001) goals in the areas of Housing and Neighborhoods, Greenways, Water Quality, Air Quality, Environmental and Cultural Resources, Public and Open Space, Tourism, Technology, and Health and Human Services. Greenway and Trail development will enhance Roanoke's ability to market itself and the region to residents and visitors as both an outdoors and an indoors destination, combining outstanding cultural and eco-tourism in one community. In addition, effective greenway administration and management can yield economic growth through enhanced property values as well as direct community health and livability benefits as noted in the City's Comprehensive Plan.

GREENWAYS AND TRAILS

Service Impact:

Roanoke's Greenway and Trail system will be an interconnected network that not only serves City residents, but also links downtown and village centers to parks, schools, business centers, natural areas, neighboring localities, National Parks, and business parks. It will also become a national and regional resource, combining old right-of-way, river/creek corridors and various public lands and easements into a larger system of multi-use greenway/trail corridors capitalizing on both the commuting and leisure benefits of hikers, cyclists, and equestrians.

Operating Budget Impact:

Description	FY 2017	FY 2018-2021
Personal Services	\$0	\$78,000
Operating Expenditures	0	0

Additions to Roanoke's Greenway and Trail system typically require additional operating funds in the amount of \$8,000 per mile for paved trails. For FY2017, we do not anticipate any additional operating funds; however, in years FY 18 -20, we anticipate having an additional three miles of greenway trail developed resulting in a \$24,000 need in additional operating funds.

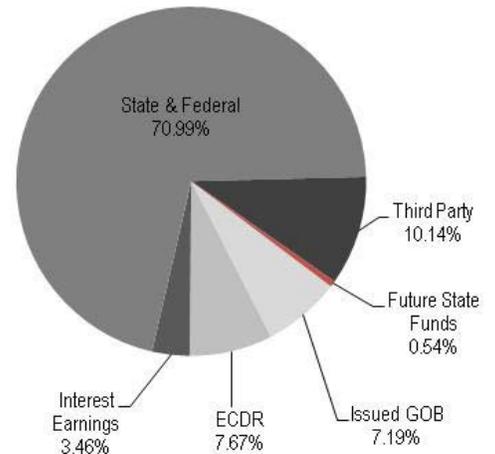
Funding Source(s):

Funding Previously Appropriated:

General Fund Revenue	\$	387,920
Economic Community Development Reserve (ECDR)		870,373
Existing Interest Earnings		393,195
General Obligation Bonds		816,000
Retained Earnings		15,000
State and Federal Funds		8,056,243
Third Party		<u>1,151,023</u>
Subtotal Previously Appropriated		\$11,689,754

Future Funds:

VDOT Revenue Sharing (FY 2017)		<u>61,671</u>
Subtotal Future Funds		<u>61,671</u>
Total	\$	<u>11,751,425</u>



Project Cost Summary:

Description	Prior Year Spending**	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$1,825,540	\$0	\$0	\$1,825,540
Acquisition of Property	108,860	0	0	\$108,860
Construction	4,059,551	2,129,373	3,574,646	\$9,763,570
Equipment/Furnishings	7,422	0	0	\$7,422
Other	46,033	0	0	\$46,033
Total By Fiscal Year	\$6,047,406	\$2,129,373	\$3,574,646	\$11,715,425

** Prior Year Spending includes projected costs through the end of Fiscal Year 2016. Projects completed in FY2015 that were removed from the CIP totaled \$91,770.

PARKS AND RECREATION MASTER PLAN



River's Edge North Park Improvements

Project Description:

Roanoke's 2013 update to the Parks and Recreation Master Plan was a citizen-driven process focusing on community vision and values, as well as an examination of the current state of existing parks, facilities and resources. This comprehensive analysis of our citizen's trends, preferences, and priorities, provided the City with a course correction such that focused upon the priorities of our citizens.

Parks: Park improvements continue to be the highest priority. The plan recommends that the City improve and upgrade the park system, focusing on those that are in greatest need first and thereafter developing new amenities for both the modernization of the system and for the enjoyment of citizens and visitors alike. Roanoke's Parks are also the catalyst of livability, aesthetics, and social-capital; therefore their design standards, accessibility, and service levels are of paramount importance. Capital funding should be concentrated upon rehabilitating and/or replacing amenities and offering a wider breadth of experiences such that a higher service value and citizen enjoyment can be achieved. Capital Improvement Funding has been used towards improvements to various park locations including, but not limited to, Huff Lane, Fishburn, Washington, Thrasher, Norwich, Eureka, Eastgate, Strauss, and Smith Parks. Such improvements have included new restrooms and shelter facilities, upgrades to existing restrooms and shelters, hard-court improvements, playground replacement, Thrasher Community Center structural analysis, and improvements to Rivers Edge Park-North to include new tennis courts, and sports lighting improvements.

Aquatics: The Master Plan calls for converting one of our two antiquated L-shape outdoor pools into a diverse, family friendly outdoor aquatic venue which will increase pool attendance, increase cost recovery, reduce the City's operational subsidy, and become a major community attraction. Previously in 2007, Council approved of such a measure; however, due to unexpected economic conditions, the project was not implemented.

It is recommended that the other outdoor pool be upgraded and improved to be an up-to-date outdoor 50 meter long course pool with additional water spaces for toddlers and seniors. Attention is also recommended to be given to upgrading the site's bathhouse, park facilities, shade structures and in-pool play amenities. Pool improvements and/or upgrades are anticipated for fiscal years FY-19 and beyond.

Multipurpose Field Space: Facility demand in Roanoke is still strongly trending towards more multi-use, rectangular athletic fields for soccer, rugby, lacrosse, and flag-football. The primary opportunity for these improvements lies within the City's "hub" of recreation and activity, Rivers Edge Park. Since the park has two components, North and South, the plan recommends that the City redesign the northern portion of the park such that it serves as a diverse, regional park consisting of two large lit, synthetic multipurpose fields with irrigation;

PARKS AND RECREATION MASTER PLAN

upgraded parking; special event spaces; water features; picnic facilities, greenway trail connections; tennis facility expansions; and restrooms. The need for repurposing the program and function of Rivers Edge Park-North continues to be high priority for the City. Capital funding will serve two purposes. It will enable Parks and Recreation to create a master site-plan for the park's northern section and subsequent construction plans and phased cost estimations for future phased development.

Playground/Area Upgrades: Funding may be used to replace existing worn and/or non-compliant and insufficient structural elements within the playground inventory. Additionally, funding should be used to replace and develop new play experiences at underserved locations to improve overall community health and counter the ever-increasing obesity and chronic health issues of our adolescent population. Roanoke has a number of playgrounds that require replacement due to both safety and irreplaceable components due to their obsolete state. Parks and Recreation began replacing playgrounds in FY-15 and FY-16 and will continue replacing those that become outdated in future fiscal years.

Indoor Recreation Space: Since 2000, the various updates to the Parks and Recreation Master Plan have all shown an ever increasing deficit for appropriate, useful, and available indoor recreational spaces. The City only has 38,165 SF of indoor space as opposed to the 107,857 SF needed. The national average for indoor spaces for a community like Roanoke is 1.5 SF per resident: Roanoke's rate is 0.04 SF per resident. Throughout the 2013 update to the plan, 64% of those surveyed felt that the City is underserved when it comes to appropriate and available indoor spaces for the types of recreational programs that they desire. Fitness and wellness, water fitness, pre-school and after-school programs, indoor team athletics, teen centers, and the arts are all examples of needed programmable spaces that Roanoke is lacking. The plan recommends adding new spaces to both the Eureka and Preston Centers; creating two new neighborhood based centers at both Norwich and Fallon Parks, and revising the joint-use agreement with the school system to establish a "community-use" system such that Parks and Recreation has second priority of use without additional fees or charges within all elementary, middle, and high schools. Capital funding for this initiative shall be addressed in future years subject to funding availability.

Project Status:

During Fiscal Year 2016 Capital Improvements funds were utilized for a structural analysis for Thrasher Park's community center, additional playground replacements, existing restroom upgrades, hardcourt resurfacing, new tennis facilities, and sports lighting improvements.

During Fiscal Year 2017, Capital Improvement funds will be used to initiate the planning, design, and first phase implementation of improvements to the Rivers Edge North complex.

Comprehensive Plan Impact:

Fulfills the City's Comprehensive Plan (Vision 2001-2020) goals in the focus areas of:

- **Neighborhood and Area Plans** – Develop indicators for neighborhood health and sustainability.
- **Environmental and Cultural Resources** – This Project will help Roanoke successfully market itself and the region to residents and visitors as both an outdoors and an indoors destination, combining outstanding cultural and eco-tourism in one community. Regional cooperation will be encouraged to develop and manage parks and recreation facilities that serve multiple jurisdictions.
- **Tourism** – The Master Plan will expand the current marketing strategy.
- **Technology** – Develop an economic development strategy to attract, retain, and grow technology businesses.
- **Health and Human Services** – The elements of the Master Plan will assist the City in promoting partnerships in the health arena that will facilitate an affordable means of indoor recreational opportunity and improve neighborhood-specific quality of life.

PARKS AND RECREATION MASTER PLAN

Service Impact:

Elements of the Parks and Recreation Master Plan will enhance the quality of life for Roanoke's citizens by providing life-long recreational opportunities that will have a direct impact on the health and livelihood of all segments of our community.

Operating Budget Impact:

Description	FY 2017	FY 2018-2021
Personal Services	\$0	\$200,000
Operating Expenditures	\$0	\$200,000

Funding Source(s):

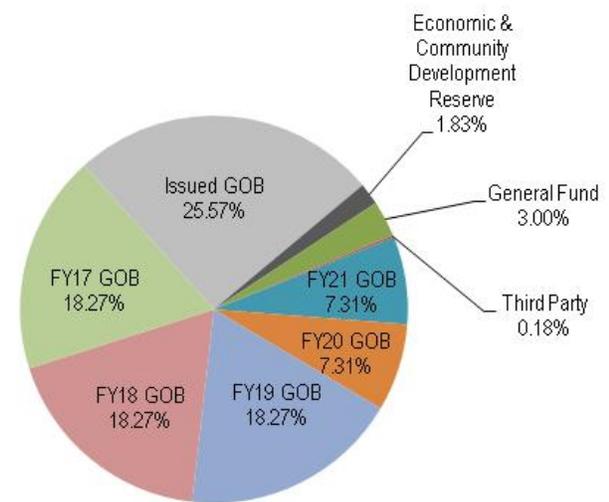
Funding Previously Appropriated:

General Fund	410,684
Economic & Community Development Reserve	250,000
Third Party	25,000
General Obligation Bonds	<u>3,500,000</u>
Subtotal Previously Appropriated	\$ 4,185,684

Future Funds:

General Obligation Bond Issue (FY 2017)	\$ 2,500,000
General Obligation Bond Issue (FY 2018)	\$ 2,500,000
General Obligation Bond Issue (FY 2019)	\$ 2,500,000
General Obligation Bond Issue (FY 2020)	\$ 1,000,000
General Obligation Bond Issue (FY 2021)	<u>\$ 1,000,000</u>
Subtotal Future Funding	\$ 9,500,000

Total \$13,685,684



Project Cost Summary:

Description	Prior Year Spending*	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$336,737	\$200,000	\$560,000	\$1,096,737
Acquisition of Property	0	0	0	\$0
Construction/Demolition	2,271,018	3,365,243	6,440,000	\$12,526,261
Equipment/ Furnishings	17,930	0	0	\$17,930
Other	44,756	0	0	\$44,756
Total By Fiscal Year	\$3,120,441	\$3,565,243	\$7,000,000	\$13,685,684

* Prior Year Spending includes projected spending through the end of Fiscal Year 2016.



FY2017 ADOPTED BUDGET



SCHOOL IMPROVEMENTS PROJECT



Round Hill Elementary

Project Description:

The scope of this project describes School capital projects to the extent they are funded with new and future debt issuance. Projects funded through residual capital balances or other funds are excluded but may be found in the School Board's CIP report presented on February 9, 2016.

The most significant project in the near term involves the continued expansion and renovation of Round Hill Elementary. This project will result in a new kitchen and cafeteria, a substantial number of new classrooms, and renovations to the existing structure.

The heating, ventilation, and air conditioning (HVAC) system at some school facilities are at least 20 years old. These units are costly and inefficient in terms of energy use and are at or beyond their expected useful life. These projects consist of replacing the HVAC systems at Virginia Heights and Crystal Spring.

There is also the need for continual infrastructure improvements at selected schools including Highland Park, Preston Park and Fishburn Park.

Various other improvements are being planned at several locations. Future needs include the renovation and expansion of both Fallon Park and Fairview along with replacing the roof at William Ruffner. At the Patrick Henry High School stadium a Public-Private partnership is being sought to construct a new field house which will cost a total of \$1 million.

Lighting upgrades include replacing T12 florescent tube lights. These lamps are no longer made and must be replaced using T8 lamps which also require the ballasts to be exchanged as well. The replacement of all T12 lamps will be carried out over three years. Benefits include 15% less wattage, better lighting quality and quieter ballasts and maintenance cost.

Project Status:

Projects completed include:

- Virginia Heights renovations and a two classroom addition, using modular construction methods with a gym addition
- Round Hill expansion: Phase 1 and 2 including the new gymnasium and kitchen, Phase 3 & 3A including construction of twelve additional classrooms, Phase 3B construction of nine additional classrooms and 3C interior renovations of six classrooms.
- Lucy Addison window replacement
- Garden City renovations (Phase 2) to include a solar water heater supplement system
- Phase 2 and 3 of converting T12 to T8 bulbs and electronic ballast at 15 schools
- Crystal Spring window replacement
- Virginia Heights HVAC
- Westside Elementary water control
- Upgrading the Building Automation System (BAS) at eight schools
- Patrick Henry stadium field turf replacement

SCHOOL IMPROVEMENTS PROJECT

Projects underway or to be completed include the following:

- Round Hill renovations and expansion Phase 3C interior renovations of six classrooms, Phase 4A and 4B turning the old cafeteria into several music rooms, renovations to the front of the school, the office, and the library. Summer 2016.
- William Ruffner roof replacement – Summer 2016
- Crystal Springs HVAC – Summer 2017
- Fallon Park renovation and expansion will begin summer 2017 and continue through summer 2020

Comprehensive Plan Impact:

Fulfills the City's Comprehensive Plan (Vision 2001) goal in the focus area of People and Human Development - Roanoke's schools will be known for their enhanced education programs that ensure all children receive a quality education for entry into the workplace or participation in higher education. School facilities are important community facilities. The location of new school facilities will be carefully planned to enhance the surrounding community and adhere to the City Design principles recommended.

Service Impact:

The project will address several improvement needs due to aging facilities, inadequate designs, electrical, HVAC and plumbing needs.

Operating Budget Impact:

Operational cost/savings will be identified as the projects progress. Any additional operational costs or savings will be borne by or be a benefit to the Schools rather than the City. Operational efficiencies are anticipated in HVAC and lighting projects.

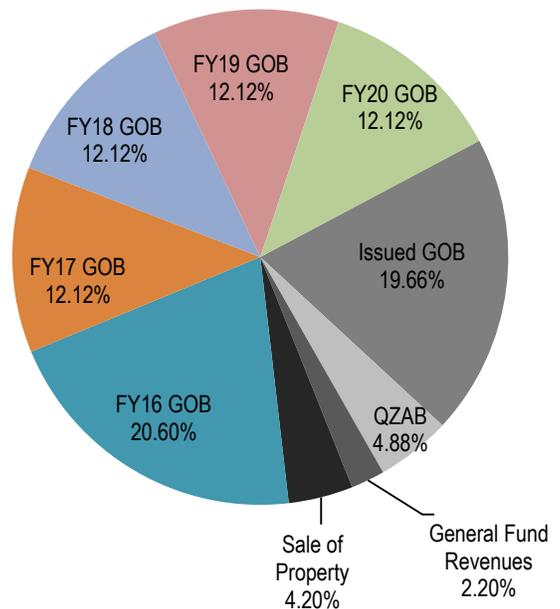
Funding Source(s):

Funding Previously Appropriated:

General Fund Revenues	\$ 501,038
Sale of Property	1,773,600
General Obligation Bonds	<u>13,515,053</u>
Subtotal Previously Appropriated	\$ 15,789,691

Future Funds:

General Obligation Bonds FY 2017	5,000,000
General Obligation Bonds FY 2018	5,000,000
General Obligation Bonds FY 2019	5,000,000
General Obligation Bonds FY 2020	5,000,000
General Obligation Bonds FY 2021	<u>5,000,000</u>
Subtotal Future Funds	<u>\$ 25,000,000</u>
Total	\$ <u>41,789,691</u>



Beginning in FY 2012 the Schools became responsible for covering the costs of their own debt service as a part of altering the funding formula between the City and the Schools. This new agreement allows the schools more flexibility and responsibility when considering capital projects that best suits the needs of the Schools.

Project Cost Summary:

Description	Prior Year Spending *	FY 2017	FY 2018-2021	Total Project Cost
Total By Fiscal Year	\$15,789,691	\$5,000,000	\$20,000,000	\$41,789,691

* Prior Year Spending assumes all funds appropriated are spent by the end of Fiscal Year 2016. Projects completed that were removed from the CIP totaled \$5,518,502.

STORMWATER CAPITAL IMPROVEMENT PROGRAM



BEFORE

AFTER

Roanoke Center for Industry and Technology (RCIT) on Blue Hills Drive

Project Description:

This is an annual recurring program to address drainage and water quality problems located throughout the city. This program consists of planning, design, and construction of drainage projects on the Neighborhood Storm Drain Priority List as well as water quality projects identified in completed Watershed Master Plans.

There are currently 258 projects totaling \$86.7 million in unfunded capital drainage projects which have been identified with preliminary design and cost estimates. Projects are designed and constructed in priority order as funding becomes available.

Project Status:

A significant number of storm drain projects will be built in FY2017 as compared to previous years. These projects are listed below along with the project's current status.

Professional Services for Storm Drainage Projects/Conceptual Design:

- Hollins Road/Liberty Road NE
- Sunrise Avenue/Oakland Boulevard NW
- Lakecrest Court/Greenlee Road SW
- 1400 – 1600 Block of Templeton Avenue NE
- 3400 and 3500 Block of Brymoor SW
- Chapman Avenue / 19th Street SW
- Washington Park Stream Restoration Project

In-House Design:

- Gatewood Avenue / McVitty Road SW

STORMWATER CAPITAL IMPROVEMENT PROGRAM

In Design:

- 22nd Street / Cove Road NW
- Victoria Street / Caldwell
- Sample Ave / Crown Point
- Sherwood / Chesterfield
- 2400 Block of Florida Avenue NW

In Design/Comp. Plan Review process:

- Windsor Road / Mudlick Road SW
- Troxell Road/Mabry Avenue SE
- Riparian Buffer Enhancement on Roanoke River between Jefferson and Franklin

Completed Design/Right-of-Way Acquisition:

- Trevino Circle / Trevino Drive / Monterey Road NE
- Courtland Avenue NW (800 block of Queen Street, 3100 block of Lyndhurst Avenue)
- Cove Road / Dansbury Drive NW
- Narrows Lane / Van Winkle SW
- Graybill Road / Woodlawn Road NW
- 24th Street NE

Completed Design/Construction Bidding Process:

- Cove / Andrews Road NW
- Hartland Road / Inglewood Road SW
- Oliver / Troy Avenue NE

Under Construction:

- Westover Avenue SW (2500 block between Westover Avenue and Memorial Avenue)
- Laurel Ridge/Lewiston
- RRFMP
- Fresno and Aspen

Construction Completed:

- Belle and King Street NE
- Salem Turnpike/30th Street NW
- Ohio Street (4400 block)
- Marshall Avenue SW (600 block)
- Windsor Avenue SW (700 block)
- Moomaw Heights (Camille Avenue and Glades Street NW)
- Shenandoah Avenue NE
- Gordon and Bennington Street SE
- Peters Creek Road Bank Erosion
- Liberty Road/Hunt Avenue NW
- Michigan Avenue NW
- Moran Street SE
- Varnell Avenue NE (1300 block)
- Wyoming Avenue/Westside Boulevard NW

STORMWATER CAPITAL IMPROVEMENT PROGRAM

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus areas of:

- **Housing and Neighborhoods** – Roanoke’s neighborhoods are vibrant places for people of all ages, lifestyles and income to live, work and play.
- **City Design**– Design improvements to major entry corridors into the city will enhance Roanoke’s image and the visual appearance of the city.

Service Impact:

Roanoke’s neighborhoods will be vibrant accessible places for business, community services and activities.

Operating Budget Impact:

Beginning in FY15 the City established the Stormwater Utility (SWU) Fund. This enterprise fund is responsible for maintaining, inspecting and constructing storm drains and related infrastructure. The SWU budget contains personnel costs of \$2,029,513, operational costs of \$3,106,468 (which includes \$1.0 million investment in capital projects relative to this CIP report) and debt service of \$518,019 for a total budget of \$5,654,000. This fund is partially supported by a new Stormwater Utility Fee implemented in FY 2015.

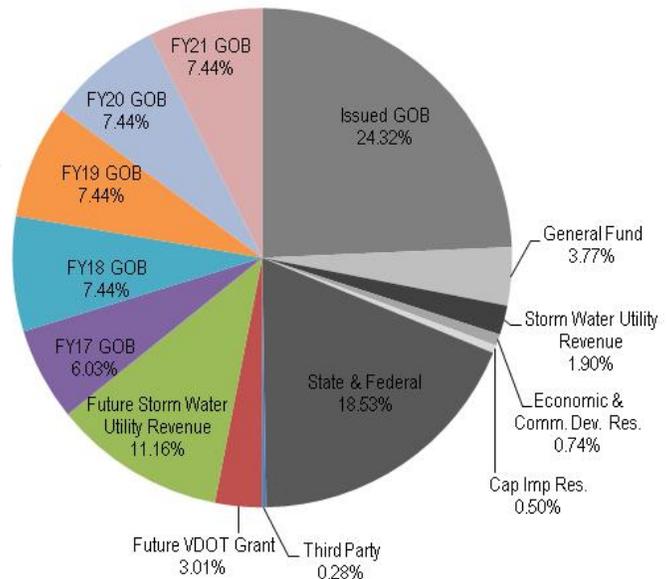
Funding Source(s):

Funding Previously Appropriated:

Capital Improvement Reserve	\$ 134,722	
Economic Community Development Reserve	\$ 200,000	
General Fund Revenues	\$1,012,699	
General Obligation Bond Issues (Various)	\$6,535,258	
Stormwater Utility Revenues	\$ 509,350	
State Funds (VDOT Revenue Sharing)	\$4,981,060	
Third Party (WVWA)	<u>\$ 75,036</u>	
Subtotal Previously Appropriated	\$13,	448,125

Future Funds:

VDOT Revenue Sharing Funds (FY 2017) *	\$ 807,896	
General Obligation Bond Issue (FY 2017)	\$1,620,000	
Stormwater Utility Revenue (FY 2017) **	\$1,000,000	
General Obligation Bond Issue (FY 2018)	\$2,000,000	
Stormwater Utility Revenue (FY 2018) **	\$ 500,000	
General Obligation Bond Issue (FY 2019)	\$2,000,000	
Stormwater Utility Revenue (FY 2019) **	\$ 500,000	
General Obligation Bond Issue (FY 2020)	\$2,000,000	
Stormwater Utility Revenue (FY 2020) **	\$ 500,000	
General Obligation Bond Issue (FY 2021)	\$2,000,000	
Stormwater Utility Revenue (FY 2021) **	<u>\$ 500,000</u>	
Subtotal Future Funds	\$13,	<u>427,896</u>
Total	\$26,	<u>876,021</u>



* The City has been awarded \$807,896 in VDOT Revenue Sharing Funds for 2016-2017. These funds have yet to be appropriated by City Council but for planning purposes have been included in this report.

** Stormwater Utility Fund Revenues are expended toward capital related projects. For planning purposes, future revenue estimates have also been included as future funding sources.

Project Cost Summary:

Description	Prior Year Spending***	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$820,382	\$175,000	\$500,000	\$1,495,382
Acquisition of Property	450,290	204,370	500,000	\$1,154,660
Construction	8,381,390	4,500,000	11,300,000	\$24,181,390
Equipment/ Furnishings	39,500	0	0	\$39,500
Other	5,089	0	0	\$5,089
Total By Fiscal Year	\$9,696,651	\$4,879,370	\$12,300,000	\$26,876,021

*** Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

BRIDGE MAINTENANCE, REPAIR AND RENOVATION PROGRAM



Old Mountain Road Bridge Replacement

Project Description/Status:

This recurring program consists of the ongoing repair, rehabilitation and replacement of the 104 bridge structures located throughout the City. Needs are identified by using objective, data-driven asset management plan developed by the Engineering Division. Typical project elements include routine maintenance such as sealing cracks, repairing spalls and delaminated concrete. Project elements also include routine and major rehabilitation consisting of latex modified concrete deck overlays, superstructure replacements and complete bridge replacements. Projects are designed and constructed in priority order as funding becomes available.

There are currently seven (7) bridges scheduled for rehabilitation or replacement which will be addressed in fiscal year 2017. These are as follows:

- 13th Street over NS, SW – Construction to start Summer 2017
- Berkley Road over Glade Creek – Construction to start Summer 2017
- Dale Avenue over Tinker Creek – Construction to start Summer 2016
- Brandon Avenue over Murray Run – Construction to start Summer 2016
- Franklin Road over Norfolk Southern Railway – Construction to start Fall 2016
- Gilmer Avenue Box Culvert – Construction to start Summer 2016
- 221/Main Street over Wasena – Planning to start in Fall/Winter 2016

BRIDGE MAINTENANCE, REPAIR AND RENOVATION PROGRAM

Comprehensive Plan Impact:

Fulfills Comprehensive Plan (Vision 2001) goals in the focus area of Transportation and Infrastructure – Roanoke’s transportation system is an integrated multi-modal, user-friendly network of well-designed streets that support auto, transit, pedestrian and bicycle traffic.

Service Impact:

The Bridge Program provides for repair, rehabilitation and replacement of infrastructure to support over 1,200 lane miles of roadway within the City’s transportation network. Timely repair of bridges will mitigate increased repair and replacement costs in the future and avoid adverse impacts to the traveling public and local economy.

Operating Budget Impact:

There is no operating budget impact nor any personnel impact for the renovations planned. In stead bridge renovations are included as a part of the Capital Improvement Plan. The typical impact for regularly scheduled maintenance for a bridge is approximately \$15,000 annually.

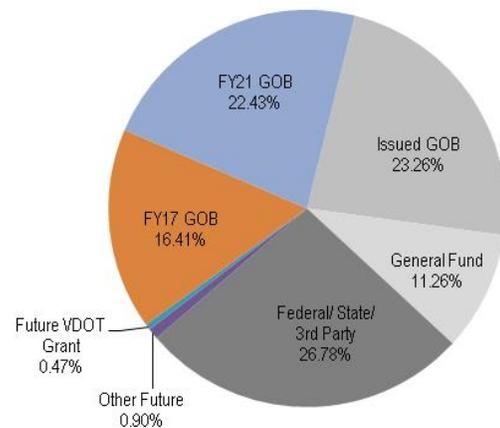
Funding Source(s):

Funding Previously Appropriated:

General Fund	\$ 4,778,889
General Obligation Bonds (Various)	\$ 11,410,793
Third Party Funds (State/Federal/Other)	<u>\$ 13,136,452</u>
Subtotal Previously Appropriated	\$29,326,134

Future Funds:

State VDOT Revenue Sharing *	\$ 231,268
Transfer to Capital (FY 2017) **	\$ 440,131
General Obligation Bond Issue (FY 2017)	\$ 8,050,000
General Obligation Bond Issue (FY 2021)	<u>\$ 11,000,000</u>
Subtotal Future Funds	<u>\$19,721,399</u>
Total ****	\$49,047,533



* FY17 VDOT revenue sharing funds have been awarded but need to be approved by the Commonwealth Transportation Board before they can be appropriated by City Council.

** Transfers to Bridge Maintenance have typically been \$500,000 annually. However, beginning in FY17 a position was created in the General Fund that will assist solely with the bridge program. Therefore, the amount budgeted in the General Fund of \$59,869 has been backed out for a new Transfer to Capital of \$440,131.

Project Cost Summary:

Description	Prior Year Spending***	FY 2017	FY 2018-2021	Total Project Cost****
Planning & Engineering	\$2,539,255	\$1,755,000	\$730,000	\$5,024,255
Acquisition of Property	150,104	125,000	0	\$275,104
Construction	13,295,459	12,487,333	10,665,382	\$36,448,174
Total By Fiscal Year	\$15,984,818	\$14,367,333	\$11,395,382	\$41,747,533

*** Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

****Some of the funds appropriated in FY 2021 will not be spent until FY 2022 and fall outside the scope of this report; Therefore, total project costs do not equal total project funding.

CURB, GUTTER, AND SIDEWALK PROGRAM



Portland Avenue Improvements

Project Description:

This recurring City wide program consists of building new or replacing existing curbs, gutter and sidewalks. Projects are developed based upon a prioritized listing of citizen requests and neighborhood target areas. The current listing of requested curb and sidewalk projects totals \$17.5 million.

Project Status:

- Curb, gutter and sidewalk infill projects are under way throughout the City.
- New projects to be constructed in FY 2016-2017 include the following:
 - New Spring Branch Road, SE from Yellow Mountain Road to Baltimore Avenue
 - Tipton Avenue SE from New Branch Road to Cul-de-Sac
 - 3800 Block of Bosworth Drive, SW
 - Miller Court Curb and Gutter Improvements, Ben Street and Hillendale Drive

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goals in the focus areas of:

- Transportation and Infrastructure – Roanoke's transportation system is an integrated multi-modal, user-friendly network of well-designed streets that support auto, transit, pedestrian and bicycle traffic.
- City Design – Design improvements to major entry corridors into the city will enhance Roanoke's image and the visual appearance of the city.

Service Impact:

This project will improve maintenance and repair of infrastructure.

CURB, GUTTER, AND SIDEWALK PROGRAM

Operating Budget Impact:

There is no operating budget impact as a result of the curb, gutter and sidewalk program.

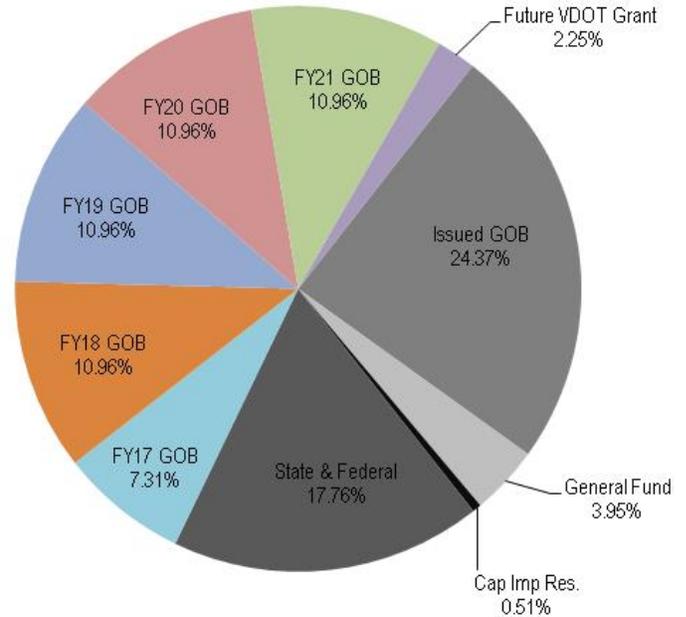
Funding Source(s):

Funding Previously Appropriated:

Capital Improvement Reserve	\$ 69,646
General Funds	540,286
General Obligation Bonds FY 2002	835,179
General Obligation Bonds FY 2013	500,000
General Obligation Bonds FY 2015	1,000,000
General Obligation Bonds FY 2016	1,000,000
State Funds	<u>2,430,989</u>
Subtotal Previously Appropriated	\$ 6,376,100

Future Funds:

General Obligation Bonds FY 2017	1,000,000
General Obligation Bonds FY 2018	1,500,000
General Obligation Bonds FY 2019	1,500,000
General Obligation Bonds FY 2020	1,500,000
General Obligation Bonds FY 2021	1,500,000
State VDOT Revenue Sharing *	<u>\$ 308,357</u>
Subtotal Future Funds	<u>\$ 7,308,357</u>
Total	\$13, <u>684,457</u>



* FY17 VDOT revenue sharing funds have been awarded but need to be approved by the Commonwealth Transportation Board before they can be appropriated by City Council.

Project Cost Summary:

Description	Prior Year Spending**	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$495,463	\$266,767	\$900,000	\$1,662,230
Acquisition of Property	2,500	0	0	\$2,500
Construction	3,538,995	3,380,732	5,100,000	\$12,019,727
Equipment/Furnishings	0	0	0	\$0
Other	0	0	0	\$0
Total By Fiscal Year	\$4,036,958	\$3,647,499	\$6,000,000	\$13,684,457

** Prior Year Spending includes projected spending through the end of Fiscal Year 2016. Projects included in prior CIP documents which have now been removed due to completion total \$2,215,340.

RAIL PASSENGER INFRASTRUCTURE



Project Description:

Passenger rail was a fixture in Roanoke for over 100 years ending in 1979. Currently, Amtrak has last stops in nearby Lynchburg and Clifton Forge. Returning passenger rail to the region has long been sought after with a 52 mile connection to Lynchburg being the most logical link. In April 2013, Passenger rail service between Roanoke and Lynchburg received funding for an estimated \$102 million by former Governor McDonnell. Roanoke City's responsibility would be to provide funding for infrastructure improvements necessary to accommodate the Department of Rail and Public Transportation's Passenger Rail Station Platform.

In Roanoke the site is located on the south side of the tracks along Norfolk Avenue between the Dr. Martin Luther Memorial Bridge and the Market Square Pedestrian Walkway. The track is site directly over the Trout Run Drainage Structure which warranted the recent multi-plate liner improvements to reinforce the brick arch culvert to withstand the weight of a heavy locomotive. Additional infrastructure improvements are required to accommodate the future platform; specifically these include modifications to Norfolk Avenue as well as potential accessory structures for Amtrak operations.

Project Status:

The Trout Run Culvert Improvement is complete with a new multi-plate metal tunnel liner designed for railroad loading within the limits of the culvert under the future Passenger Rail Platform. Construction documents for modifications to Norfolk Avenue to accommodate the platform are currently under design. It is anticipated that Norfolk Southern and Amtrak will build the Passenger Rail Platform concurrent with the City's infrastructure improvements for Passenger Rail Service in 2017.

Comprehensive Plan Impact:

Fulfills the Comprehensive Plan (Vision 2001) goal in the focus area of Economic Development. Roanoke's vibrant downtown will serve as the economic engine and cultural center for the region.

Service Impact:

Currently, travelers who wish to make a trip to Lynchburg from Roanoke may take the Smart Way Connector Bus. This bus service is timed to arrive in Lynchburg so that passengers may board the train before its departure. The pilot program, which was instituted in July 2011 to gauge the interest of a connection between the two cities, has proven to be very popular.

Passenger train service to downtown Roanoke would be a great benefit and an economic boost to the Roanoke region.

RAIL PASSENGER INFRASTRUCTURE

The close proximity of the train platform to the terminal which currently houses Valley Metro, the Smart Way Commuter Bus and the Greyhound Bus Station make this project an extremely valuable step in making the region well connected.

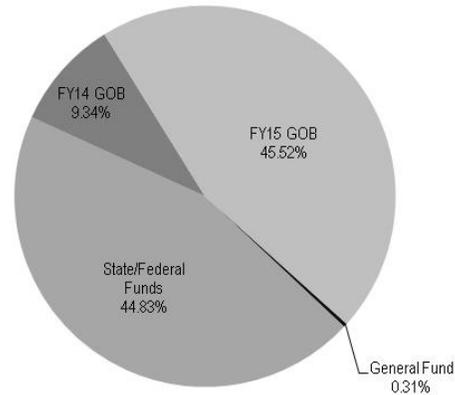
Operating Budget Impact:

There is no additional operating budget impact nor are additional personnel needed as a result of this project.

Funding Source(s):

Funding Previously Appropriated:

General Fund Revenue	\$ 20,000
State Funds *	2,600,000
Federal Funds	281,133
General Obligation Bonds FY 2014	600,000
General Obligation Bonds FY 2015	<u>2,925,000</u>
Total ***	<u>\$6,426,133</u>



* The State previously approved \$3,000,000 however, construction costs will be less than anticipated and therefore approximately \$400,000 will be returned. The figures have been adjusted to account for this.

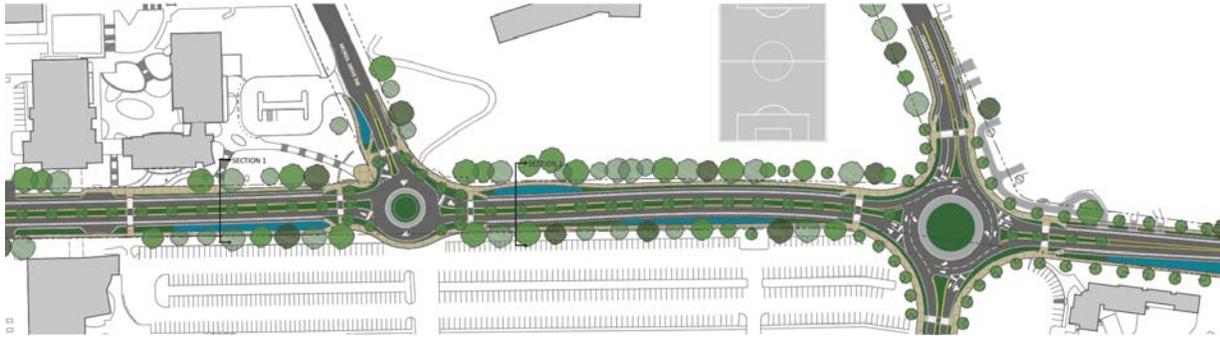
Project Cost Summary:

Description	Prior Year Spending **	FY 2017	FY 2018-2021	Total Project Cost ***
Planning & Engineering	\$793,990	\$0	\$0	\$793,990
Acquisition of Property	0	0	0	\$0
Construction	2,056,165	0	\$1,500,000	\$3,556,165
Equipment/ Furnishings	0	0	0	\$0
Other	18,867	0	0	\$18,867
Total By Fiscal Year	\$2,869,022	\$0	\$1,500,000	\$4,369,022

** Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

***Due to scope change the estimated project costs do not equal total project funding. If left unspent, 2015 Bond Funds will likely be redirected toward another project.

STREET IMPROVEMENT PROJECTS



Colonial Avenue Improvements

Project Description and Status:

This recurring program consists of providing the City's share of funding for the following projects included in the Virginia Department of Transportation (VDOT) six year improvement program.

- 10th Street, N. W. - Phase I & II - Consists of reconstructing 10th street for 1.7 miles between Fairfax Avenue, N. W. and Williamson Road, N.W.
 - Engineering – Underway
 - Right-of-way – Underway
 - Construction – Construction of the first phase of construction from Fairfax Avenue to Andrews Road began in June 2016. Funding for the second phase from Andrews Road to Williamson Road has been identified; however, no schedule has been established pending final approval of the next Six-Year Improvement Plan by the Commonwealth Transportation Board.
- Colonial Avenue – Consists of Streetscape, pedestrian and intersection improvements between Overland Road and Dogwood Lane.
 - Engineering – Underway
 - Right-of-way – Winter 2017
 - Construction – Spring / Summer 2018
- Orange Avenue and King Street – Consists of widening, turning lane and storm drain improvements on King Street between Orange Avenue and Springtree Drive. The project will use a design build project delivery approach.
 - Design Build Procurement – Underway
 - Construction – Spring 2017

Comprehensive Plan Impact:

Fulfills the City's Comprehensive Plan (Vision 2001) goals in the focus areas of:

- Transportation and Infrastructure – Roanoke's transportation system is an integrated multi-modal, user-friendly network of well-designed streets that support auto, transit, pedestrian and bicycle traffic.
- City Design– Design improvements to major entry corridors into the City will enhance Roanoke's image and the visual appearance of the City.

Service Impact:

Traffic and roadway improvements will result in increased traffic safety and efficiency.

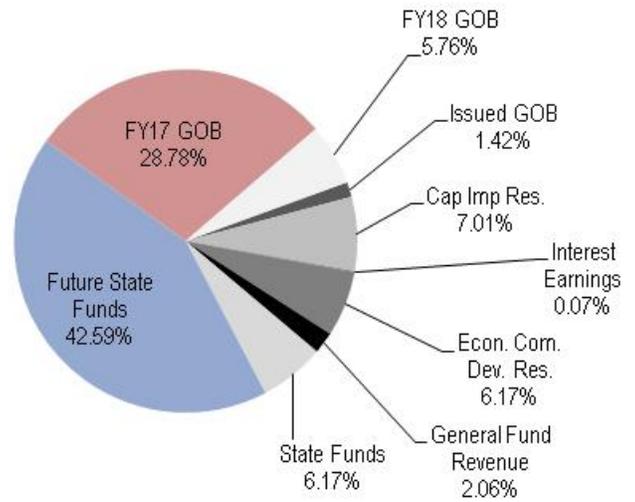
Operating Budget Impact:

There are no anticipated personnel or operating budget impacts as a result of these projects.

STREET IMPROVEMENT PROJECTS

Funding Source(s):

Funding Previously Appropriated:	
Capital Improvement Reserve	\$ 852,055
Economic and Community Development Reserve	750,000
Existing Interest Earnings	8,300
General Obligation Bonds (various fiscal years)	172,120
General Fund Revenue	250,000
State: VDOT Revenue Sharing	<u>750,000</u>
Subtotal Previously Appropriated	\$ 2,782,475
Future Funds:	
State: VDOT Revenue Sharing	\$1,962,536
State: HB2	2,545,000
State: Highway Safety Improvement Program (HSIP)	250,000
State: Transportation Planning Organization (TPO)	247,000
State: Transportation Alternative Enhancement (TEA)	176,211
General Obligation Bonds FY 2017	3,500,000
General Obligation Bonds FY 2018	<u>700,000</u>
Subtotal Future Funds	<u>\$ 9,380,747</u>
Total City Funding	\$ <u><u>12,163,222</u></u>



The Colonial Avenue project will be administered by the state and therefore amounts shown include the City's required 2% match and VDOT Revenue Sharing funds awarded along with their required City match.

Project Cost Summary:

	Prior Year Spending*	FY 2017	FY 2018-21	Projected Spending
10 th Street NW	\$758,475	\$537,000	\$1,437,000	\$2,732,475
Colonial Avenue	250,000	3,467,000	3,713,747	7,430,747
Orange Ave / King St	435	900,000	1,099,565	2,000,000
Total By Fiscal Year	\$1,008,910	\$4,904,000	\$6,250,312	\$12,163,222

*Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

STREETSCAPE PROJECTS



Garden City Boulevard

Project Description:

Streetscape projects provide for recurring improvement of the appearance and function of public streets. Typical project elements include landscaping, textured crosswalks, reduced lane widths, and other related amenities. Potential projects include those identified in neighborhood plans to support the gateway and village center concept, as well as in the downtown area.

Project Status:

In FY 16, improvements to Garden City Boulevard were completed to provide curb, gutter, and a bicycle and pedestrian shared use path from Yellow Mountain Road to Davenport/Ivywood supporting the village center of Garden City. For FY 17 Streetscape improvements are projected for 9th Street SE from Riverland Road to Morgan Avenue. Future streetscape projects will be identified as necessary to coincide with significant development progress.

Comprehensive Plan Impact:

Fulfills the City's Comprehensive Plan (Vision 2001) goals in the focus area of Transportation and Infrastructure – Roanoke's transportation system is an integrated multi-modal, user-friendly network of well-designed streets that support auto, transit, pedestrian and bicycle traffic.

Service Impact:

Additional streetscape improvements will be developed and implemented to further achieve the City's Comprehensive and Neighborhood Plan initiatives.

Operating Budget Impact:

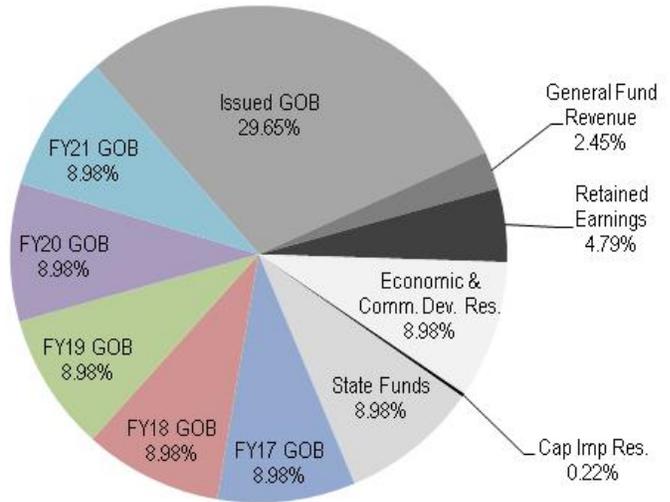
The operating budget impact for maintaining streetscapes, such as mowing medians and maintaining flowerbeds, is approximately \$50,000 annually. No additional personnel or operating costs will be added to the General Fund as a result of these ongoing streetscape improvements.

STREETSCAPE PROJECTS

Funding Source(s):

Funding Previously Appropriated:	
Capital Improvement Reserve	\$ 12,131
Economic & Community Dev. Res.	500,000
General Fund Revenue	136,163
General Obligation Bonds FY 2009	650,000
General Obligation Bonds FY 2014	500,000
General Obligation Bonds FY 2016	500,000
Retained Earnings	266,733
State Funds	500,000
Subtotal Previously Appropriated	\$3,065,027

Future Funds:	
General Obligation Bonds FY 2017	500,000
General Obligation Bonds FY 2018	500,000
General Obligation Bonds FY 2019	500,000
General Obligation Bonds FY 2020	500,000
General Obligation Bonds FY 2021	500,000
Subtotal Future Funds	\$2,500,000
 Total	 \$5,565,027

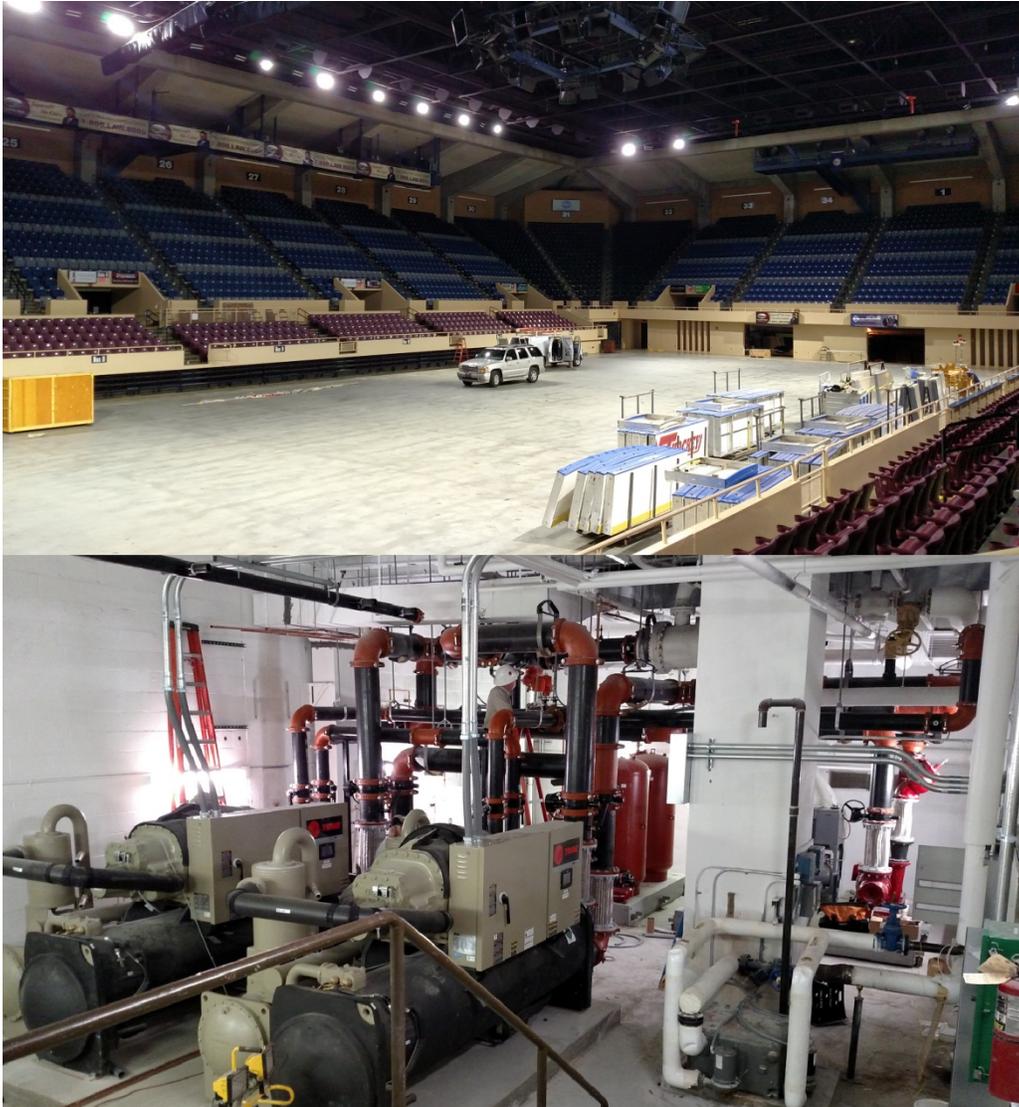


Project Cost Summary:

Description	Prior Year Spending*	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$16,545	\$91,302	\$200,000	\$308,147
Acquisition of Property	0	0	0	\$0
Construction	2,627,283	824,422	1,800,000	\$5,251,705
Equipment/ Furnishings	5,175	0	0	\$5,175
Other	0	0	0	\$0
Total By Fiscal Year	\$2,649,003	\$916,024	\$2,000,000	\$5,565,027

* Prior Year Spending includes projected spending through the end of Fiscal Year 2016.

BERGLUND CENTER IMPROVEMENTS



Top: New seating, scoreboard removed for replacement. Bottom: New ice rink refrigeration system getting installed

Project Description:

The Berglund Center facility was constructed over forty-years ago, with many components of the existing mechanical and electrical systems being original to the building. There is the need to address identified capital maintenance improvements including mechanical and electrical systems, as well as other identified improvements.

Project scope includes replacement and capital maintenance to the heating, ventilation, and air conditioning (HVAC) system, electrical system, and lighting system. Additional capital maintenance items include repairs to the plaza roof, replacement of the Coliseum seat risers and seats, replacement of carpet in the Berglund Performing Arts Theatre, replacement of exterior doors, enhancement of the sound systems, restroom renovations, back of the house improvements, ice rink floor replacement and other capital maintenance items.

Project Status:

Completed projects include Coliseum marquee lighting replacement, HVAC system upgrades, pipeline, lighting upgrades, seats, exterior door, plaza roof and carpet replacements. The exterior fountain, ice rink refrigeration and eco-glow strips for coliseum steps are nearing completion. Projects scheduled for FY 2017 includes the scoreboard replacement, digital controls and hockey arena improvements.

BERGLUND CENTER IMPROVEMENTS

Comprehensive Plan Impact:

Fulfills the City's Comprehensive Plan (Vision 2001) goal in the focus area of Environmental, Cultural, and Historic Resources.

Service Impact:

Project will address capital maintenance needs which will make the facility more energy efficient and environmentally friendly as well as reduce the risk of mechanical system failure.

Operating Budget Impact:

It is anticipated that HVAC improvements will reduce utility expenses by 15%.

Funding Source(s):

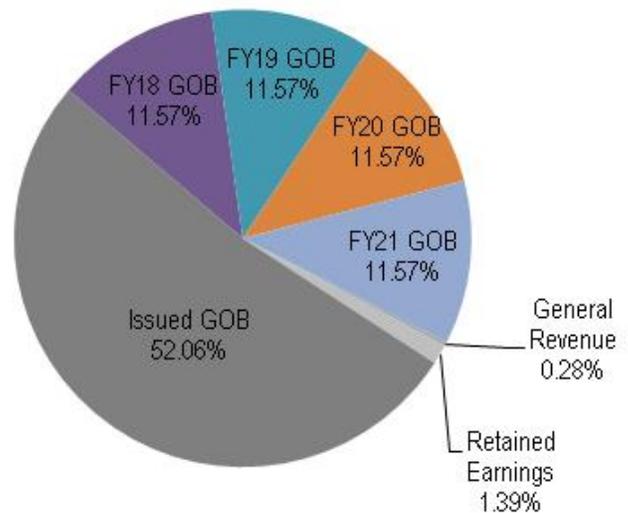
Funding Previously Appropriated:

General Revenue	\$ 36,700
Retained Earnings	\$ 180,000
General Obligation Bond Issue (FY 2012)	\$ 750,000
General Obligation Bond Issue (FY 2013)	\$ 1,000,000
General Obligation Bond Issue (FY 2014)	\$ 1,000,000
General Obligation Bond Issue (FY 2015)	\$ 1,000,000
General Obligation Bond Issue (FY 2016)	<u>\$3,000,000</u>
Subtotal Previously Appropriated	\$6,966,700

Future Funds:

General Obligation Bond Issue (FY 2018)	\$1,500,000
General Obligation Bond Issue (FY 2019)	\$1,500,000
General Obligation Bond Issue (FY 2020)	\$1,500,000
General Obligation Bond Issue (FY 2021)	<u>\$1,500,000</u>
Subtotal Future Funds	\$6,000,000

Total \$12,966,700



Project Cost Summary:

Description	Prior Year Spending**	FY 2017	FY 2018-2021	Total Project Cost
Planning & Engineering	\$112,194	\$0	\$0	\$112,194
Acquisition of Property	0	0	0	0
Construction	4,296,379	1,560,000	5,858,398	11,714,777
Equipment/Furnishings	427,061	0	340,000	767,061
Other	147,668	0	225,000	372,668
Total By Fiscal Year	\$4,983,302	\$1,560,000	\$6,423,398	\$12,966,700

** Prior Year Spending includes projected spending through the end of Fiscal Year 2016.



FY2017 ADOPTED BUDGET



BONDED DEBT

Debt Management Policy:

The objective of the City of Roanoke's debt management policy is to maintain the City's ability to incur present and future debt at the most beneficial interest rates in amounts needed for financing the Capital Improvement Program without adversely affecting the City's ability to provide essential City services. The success of Roanoke's bond-issuance strategy is a result of a responsible debt management policy to ensure that debt issued to finance capital projects does not exceed legal and affordable parameters. City Council's adopted debt policy establishes parameters for issuing debt and managing the debt portfolio. The policy details guidelines for debt issuance, limitations on the amount of debt issued, types of debt that may be issued, and maintenance of debt service.

Limitations on debt are constitutional and statutory through the Constitution of Virginia, The Public Finance Act, and the City Charter as well as self-imposed through the City's Debt Policy. Article VI, Section 10 of the Constitution of Virginia, The Public Finance Act and the City Charter establish the City's Legal Debt Margin at 10% of the assessed value of real estate as shown by the last preceding assessment for taxes. The City Debt Policy has included a more restrictive self-imposed policy stating that net tax supported debt as a percentage of assessed value of real estate, personal property and public service corporations will not exceed 4%. The Public Finance Act and the City Charter also establish other limits as to the amounts and types of debt the City may issue. The City Debt Policy also self-imposes debt limits for which tax-supported general obligation debt service shall not exceed 10% of General Fund expenditures and debt will be structured in a manner such that 60% or more of the aggregate outstanding tax-supported debt will be retired within ten years.

For fiscal year 2017 the projected (unaudited) Legal Debt Margin is as follows:

Projected Assessed Value of Real Estate, 2017	\$6,929,772,200
Legal Debt Limit, 10% of \$6,929,772,200	\$692,977,220
Debt applicable to limitation:	
Total Bonded Debt	\$232,945,887
Less: Projected Available in Debt Service Fund	(1,508,122)
Parking Enterprise Fund Supported Debt	(11,832,600)
Stormwater Enterprise Fund Supported Debt	(2,860,600)
Western Virginia Water Authority Supported Debt	<u>(9,405,800)</u>
Projected Legal Debt Margin	<u>\$207,338,765</u> <u>\$485,638,455</u>

Self-Imposed Debt Policy limit projections for fiscal year 2017 are calculated as follows:

- Tax supported debt shall not exceed 4% of projected assessed value of real estate, personal property and public service corporations of \$328,181,423 (4% of \$8,204,535,575). Tax supported debt in fiscal year 2017 is projected to be \$207,338,765 or 2.5% of assessed value of real estate, personal property and public service corporations in fiscal year 2017.
- Debt Service shall not exceed 10% of General Fund expenditures (City and Schools) of \$37,285,241 (10% of \$372,852,409). Debt service in fiscal year 2017 is projected to be \$28,904,851 or 7.8% of projected General Fund expenditures.
- The outstanding principal at the end of fiscal year 2017 is projected to be 69% retired within ten years.

Credit Ratings:

The City's bond ratings are further evidence of its financial strength. In February 2016, the City received bond ratings from Fitch Investors Services of "AA+" and Standard & Poor's of "AA+". Such rankings demonstrate that the City's bonds are considered excellent investment quality. Roanoke's strong tax base, solid financial policies and position as southwest Virginia's economic center are principal reasons for these excellent bond ratings.

Capital Improvement Program Anticipated Debt Issuance:

Fiscal Year 2017

School Facilities Maintenance and Improvements	\$5,000,000
Bridge Renovation	8,050,000
Library Master Plan	2,845,000
Parks and Recreation Master Plan	2,500,000
Stormwater Management	1,620,000
Curb, Gutter and Sidewalk Program	1,000,000
Streetscapes Improvements	500,000
911 Center	1,500,000
Street Improvements	3,500,000
	<u>\$26,515,000</u>

Fiscal Year 2018

School Facilities Maintenance and Improvements	\$ 5,000,000
Library Master Plan	2,769,000
Parks and Recreation Master Plan	2,500,000
Civic Center Improvements	1,500,000
Stormwater Management	2,000,000
Curb, Gutter and Sidewalk Program	1,500,000
Streetscapes Improvements	500,000
Fire Facility Master Plan	810,000
911 Center	10,000,000
Street Improvements	700,000
	<u>\$27,279,000</u>

Fiscal Year 2019

School Facilities Maintenance and Improvements	\$5,000,000
Library Master Plan	550,000
Parks and Recreation Master Plan	2,500,000
Civic Center Improvements	1,500,000
Stormwater Management	2,000,000
Curb, Gutter and Sidewalk Program	1,500,000
Streetscapes Improvements	500,000
Fire Facility Master Plan	5,400,000
	<u>\$18,950,000</u>

Fiscal Year 2020

School Facilities Maintenance and Improvements	\$5,000,000
Library Master Plan	5,000,000
Parks and Recreation Master Plan	1,000,000
Civic Center Improvements	1,500,000
Stormwater Management	2,000,000
Curb, Gutter and Sidewalk Program	1,500,000
Streetscapes Improvements	500,000
	<u>\$16,500,000</u>

Fiscal Year 2021

School Facilities Maintenance and Improvements	\$ 5,000,000
Bridge Renovation	11,000,000
Parks and Recreation Master Plan	1,000,000
Civic Center Improvements	1,500,000
Stormwater Management	2,000,000
Curb, Gutter and Sidewalk Program	1,500,000
Streetscapes Improvements	500,000
Fire Facility Master Plan	645,000
	<u>\$23,145,000</u>

Debt Service:

The Debt Service Fund is used to account for the accumulation of resources for the payment of long-term debt, principal and interest. Capital Improvement Program (CIP) expenditures financed through the issuance of general obligation bonds impact the operating budget through the payment of principal and interest on the debt incurred. The Transfer to Debt Service account in the General Fund provides funding to cover principal and interest payments for fiscal year 2017.

Total outstanding long-term liabilities of the City of Roanoke on June 30, 2016 (unaudited), were \$236,752,546. The total interest due on these long-term liabilities is \$66,586,542. The major categories of long-term liability which comprise this total are:

	Principal	Interest
General Obligation Serial Bonds	\$ 161,166,600	\$ 44,766,252
Parking Fund	11,832,600	3,431,468
Civic Facilities Fund	14,905,000	4,236,411
Stormwater Utility Fund	2,860,600	1,067,439
Western Virginia Water Authority	9,405,800	1,050,508
State Literary Fund/VPSA/QZAB Loans	32,775,287	9,386,502
Capital Leases	3,806,659	2,647,962
Total	<u>\$ 236,752,546</u>	<u>\$ 66,586,542</u>

The total amount of debt service required annually to amortize all outstanding long-term liabilities is detailed in the following chart. For fiscal year 2017, the total debt service required by funding source is as follows:

General Fund	\$11,758,661
School Fund	14,895,479
Western Virginia Water Authority	1,429,775
Parking Fund	1,296,208
Civic Facilities Fund	1,708,552
Stormwater Utility Fund	200,398
Capital Leases	1,002,740
Total	<u>\$32,291,813</u>

**Cash Payments - by Fiscal Year
Debt Service as of July 1, 2016**

Fiscal Year	General Obligation Bonds						VPSA/QZAB Literary Loans Payable by Schools	Capital Leases	Total Debt Service
	City Payable by General Fund	Schools Payable by School Fund	Payable by Parking Fund	Payable by Civic Facilities Fund	Payable by Stormwater Fund	Payable by WVWA			
2017	\$ 11,758,661	\$ 9,338,980	\$ 1,296,208	\$ 1,708,552	\$ 200,398	\$ 1,429,775	\$ 5,556,499	\$ 1,002,740	\$ 32,291,814
2018	11,531,254	9,095,447	1,295,892	1,699,604	200,426	1,427,343	5,099,821	1,016,810	31,366,598
2019	10,793,958	8,077,958	1,293,403	1,705,258	200,228	1,423,159	4,702,535	888,978	29,085,476
2020	10,519,213	7,776,937	1,289,921	1,662,608	199,816	1,420,023	4,254,646	746,564	27,869,728
2021	8,578,120	6,873,033	1,292,064	1,691,120	199,590	1,424,321	3,687,050	761,495	24,506,793
2022	8,043,441	6,602,280	1,275,036	1,681,839	199,798	1,406,927	3,221,428	776,725	23,207,475
2023	5,936,345	5,785,079	1,075,194	1,482,296	200,094	965,765	2,925,020	792,259	19,162,052
2024	5,745,215	5,603,088	1,078,069	1,479,917	200,510	958,995	2,734,106	469,049	18,268,948
2025	6,616,801	5,445,828	1,058,469	1,466,234	199,930	-	2,407,127	-	17,194,388
2026	4,940,289	4,157,891	903,981	878,162	200,886	-	2,266,180	-	13,347,390
2027	4,366,601	3,397,503	708,475	425,507	200,116	-	1,949,655	-	11,047,856
2028	4,251,201	3,320,800	709,825	427,385	200,006	-	1,295,137	-	10,204,354
2029	3,962,270	3,232,534	503,306	418,288	200,094	-	1,087,904	-	9,404,397
2030	3,545,742	3,158,581	500,675	417,707	199,942	-	168,892	-	7,991,538
2031	3,328,372	3,063,710	490,488	411,547	200,452	-	168,892	-	7,663,461
2032	2,596,391	2,858,729	493,063	415,016	200,000	-	168,892	-	6,732,091
2033	2,299,429	2,662,053	-	356,609	200,275	-	168,892	-	5,687,258
2034	2,254,425	1,123,721	-	354,702	199,865	-	168,892	-	4,101,605
2035	1,360,460	881,913	-	263,363	199,953	-	130,221	-	2,835,909
2036	502,700	545,900	-	195,700	125,660	-	-	-	1,369,960
Totals	\$ 112,930,886	\$ 93,001,966	\$ 15,264,068	\$ 19,141,411	\$ 3,928,039	\$ 10,456,308	\$ 42,161,790	\$ 6,454,620	\$ 303,339,088

General Fund Debt Service Requirements

City Administration

The amount included in the General Fund budget for Debt Service is detailed in the columns above entitled "Payable by General Fund". This amount represents the portion of total General Obligation Serial Bonds Debt Service to be paid by the City. The actual amount included in the General Fund recommended budget for Debt Service also includes paying agent charges which are excluded from this schedule.

School Administration

The amount to be paid with funding from the Roanoke City Public Schools is labeled "Schools Payable by School Fund"

Other Debt Service Requirements

Western Virginia Water Authority (WVWA)

The column "Payable By WVWA" will be paid by the City on behalf of the Western Virginia Water Authority and simultaneously will be reimbursed by WVWA.

Long - Term Debt Summary

At June 30, 2016 the long-term indebtedness of the City consisted of the following:

Original Issue Amount	Series/Description	Interest Rates	Issue Date	Maturity	Outstanding Debt			
					City Debt	School Paid	Enterprise	Total
General Obligation Bonds								
7,935,000	2004A Refunding Bonds	2.00% - 3.63%	3/11/2004	8/1/2016	423,125	226,875	-	650,000
5,500,000	2006B Public Improvement Bonds (Subject to AMT)	4.00% - 5.00%	2/8/2006	2/1/2026	825,000	-	-	825,000
43,445,000	2008 Public Improvement Bonds	3.25% - 5.00%	2/5/2008	2/1/2033	370,000	3,180,000	-	3,550,000
6,910,000	2008A VRA Public Improvement Bonds	3.13% - 5.13%	12/10/2008	10/1/2018	1,050,000	-	-	1,050,000
32,792,400	2010A Refunding Bonds	2.00% - 5.00%	3/11/2010	10/1/2021	9,536,100	15,407,700	-	24,943,800
2,680,000	2010B Public Improvement Bonds	1.25% - 5.80%	3/11/2010	10/1/2029	1,960,000	-	-	1,960,000
2,605,000	2010C Public Improvement Bonds	2.00% - 4.00%	8/11/2010	7/15/2030	113,416	1,911,584	-	2,025,000
5,470,000	2010D Public Improvement Bonds (Market Bldg.)	2.00% - 4.00%	8/11/2010	7/15/2030	4,275,000	-	-	4,275,000
5,665,000	2010E Public Improvement Bonds	2.00% - 4.00%	8/11/2010	7/15/2030	5,665,000	-	-	5,665,000
6,925,000	2012A Public Improvement Bonds	2.00% - 5.00%	3/14/2012	2/1/2032	1,560,000	520,000	-	2,080,000
6,880,000	2012B Refunding Bonds	0.43% - 2.96%	3/14/2012	10/1/2023	4,345,000	-	-	4,345,000
11,140,000	2012C Refunding Bonds	4.00% - 5.00%	3/14/2012	2/1/2025	3,335,000	7,805,000	-	11,140,000
10,906,800	2013A Public Improvement Bonds	1.00% - 5.00%	2/27/2013	7/15/2033	8,228,800	1,586,400	-	9,815,200
9,520,000	2013A Refunding Bonds	0.37% - 2.73%	2/27/2013	7/15/2025	1,435,000	8,085,000	-	9,520,000
15,350,000	2013B Refunding Bonds	0.37% - 2.73%	2/27/2013	7/15/2024	10,280,000	3,195,000	-	13,475,000
1,829,500	2013C RCACP	2.46%	11/1/2013	9/30/2022	1,310,600	-	-	1,310,600
11,073,200	2014A Public Improvement Bonds	3.00% - 5.00%	3/5/2014	4/1/2034	7,430,400	2,527,200	-	9,957,600
17,420,000	2015 Public Improvement Bonds New Money	2.00% - 4.00%	3/25/2015	4/1/2035	12,093,400	4,715,000	-	16,808,400
6,130,000	2015 Public Improvement Bonds Refunding	2.00% - 4.00%	3/25/2015	4/1/2029	4,335,000	1,765,000	-	6,100,000
15,166,000	2016 Public Improvement Bonds New Money	2.00% - 5.00%	3/8/2016	4/1/1936	7,236,000	7,930,000	-	15,166,000
16,505,000	2016 Public Improvement Bonds Refunding	2.00% - 5.00%	3/8/2016	4/1/1933	3,185,000	13,320,000	-	16,505,000
					88,991,841	72,174,759	-	161,166,600
General Obligation Bonds (Water Fund-to be contractually repaid by the Western Virginia Water Authority):								
3,263,800	2010A Refunding Bonds - Water (WVWA)	2.00% - 5.00%	3/4/2010	10/1/2021	-	-	2,300,800	2,300,800
7,105,000	2012B Refunding Bonds - Water (WVWA)	0.43% - 2.96%	3/14/2012	10/1/2023	-	-	7,105,000	7,105,000
					-	-	9,405,800	9,405,800
Enterprise Fund General Obligation Bonds:								
4,382,700	2010A Civic Facilities Refunding Bonds	2.00% - 5.00%	3/4/2010	10/1/2021	-	-	3,587,800	3,587,800
685,000	2012A Civic Facilities Bonds	2.00% - 5.00%	3/14/2012	2/1/2032	-	-	180,000	180,000
3,345,000	2012C Civic Facilities Refunding Bonds	4.00% - 5.00%	3/14/2012	2/1/2025	-	-	3,345,000	3,345,000
883,200	2013A Civic Facilities Bonds	1.00% - 5.00%	2/27/2013	7/15/2033	-	-	794,800	794,800
2,015,000	2013A Civic Facilities Refunding Bonds	1.00% - 5.00%	2/27/2013	7/15/2025	-	-	2,015,000	2,015,000
936,800	2014A Civic Facilities Bonds	3.00% - 5.00%	3/5/2014	4/1/2034	-	-	842,400	842,400
980,000	2015 Civic Facilities Bonds	2.00% - 4.00%	3/25/2015	4/1/2035	-	-	945,000	945,000
70,000	2015 Civic Facilities Refunding Bonds	2.00% - 4.00%	3/25/2015	4/1/2025	-	-	70,000	70,000
2,795,000	2016 Civic Facilities Bonds	2.00% - 5.00%	3/8/2016	4/1/2036	-	-	2,795,000	2,795,000
330,000	2016 Civic Facilities Refunding Bonds	2.00% - 5.00%	3/8/2016	4/1/2033	-	-	330,000	330,000
2,545,000	2008 Parking Bonds-Campbell Avenue	3.25% - 5.00%	2/5/2008	2/1/2028	-	-	235,000	235,000
2,861,100	2010A Parking Refunding Bonds-Gainsboro & Campbell Ave.	2.00% - 5.00%	3/4/2010	10/1/2021	-	-	2,317,600	2,317,600
900,000	2012C Parking Refunding Bonds-Campbell Avenue	4.00% - 5.00%	3/14/2012	2/1/2025	-	-	900,000	900,000
1,255,000	2013A Parking Refunding Bonds	1.00% - 5.00%	2/27/2013	7/15/2025	-	-	1,255,000	1,255,000
7,110,000	2014B Parking Refunding Bonds	1.00% - 4.25%	3/5/2014	4/1/2032	-	-	6,420,000	6,420,000
160,000	2015 Parking Refunding Bonds	2.00% - 4.00%	3/25/2015	4/1/2025	-	-	160,000	160,000
545,000	2016 Parking Refunding Bonds	2.00% - 5.00%	3/8/2016	4/1/2028	-	-	545,000	545,000
1,090,000	2015 Stormwater Utility Fund Bonds	2.00% - 4.00%	3/25/2015	4/1/2035	-	-	1,051,600	1,051,600
1,809,000	2016 Stormwater Utility Fund Bonds	2.00% - 5.00%	3/8/2016	4/1/2035	-	-	1,809,000	1,809,000
					-	-	29,598,200	29,598,200

Long - Term Debt Summary (continued)

At June 30, 2016 the long-term indebtedness of the City consisted of the following:

Original Issue Amount	Series/Description	Interest Rates	Issue Date	Maturity	Outstanding Debt			
					City Debt	School Paid	Enterprise	Total
Qualified Zone Academy Bonds (QZAB):								
800,000	Qualified Zone Academy Bond-Lincoln Terrace	0%	11/1/2002	10/31/2016	-	65,399	-	65,399
439,100	Qualified Zone Academy Bond-Fallon Park	0%	12/29/2004	12/29/2020	-	166,411	-	166,411
1,097,571	Qualified Zone Academy Bond-Patrick Henry High School	0%	12/27/2006	12/27/2022	-	560,293	-	560,293
2,014,104	Qualified Zone Academy Bond-Schools Capital Projects 2012	0%	10/31/2012	12/1/2034	-	1,739,451	-	1,739,451
					-	2,531,554	-	2,531,554
Virginia Public School Authority (VPSA) Bonds:								
5,000,000	1996B VPSA Subsidized Breckinridge	5.10% - 6.10%	11/14/1996	7/15/2016	-	248,508	-	248,508
5,000,000	1997 VPSA Subsidized Woodrow Wilson	4.35% - 5.35%	11/1/1997	7/15/2017	-	494,107	-	494,107
5,000,000	1998A VPSA Subsidized Addison	3.60% - 5.10%	11/19/1998	7/15/2018	-	750,000	-	750,000
1,200,000	1998B VPSA Subsidized Huff Lane	3.60% - 5.10%	11/19/1998	7/15/2018	-	184,566	-	184,566
3,250,000	1999A VPSA Subsidized Governor's School	5.10% - 6.10%	11/18/1999	7/15/2019	-	620,000	-	620,000
1,250,000	1999B VPSA Subsidized Hurt Park	5.10% - 6.10%	11/18/1999	7/15/2019	-	240,325	-	240,325
2,750,000	2000B VPSA Subsidized Garden City	4.98% - 5.85%	11/16/2000	7/15/2020	-	670,129	-	670,129
1,900,000	2000B VPSA Subsidized Grandin Court	4.98% - 5.85%	11/16/2000	7/15/2020	-	462,998	-	462,998
1,900,000	2000B VPSA Subsidized Preston Park	4.98% - 5.85%	11/16/2000	7/15/2020	-	462,998	-	462,998
2,750,000	2001B VPSA Subsidized Fairview	3.10% - 5.35%	11/15/2001	7/15/2021	-	811,360	-	811,360
2,500,000	2001B VPSA Subsidized Fishburn Park	3.10% - 5.35%	11/15/2001	7/15/2021	-	737,599	-	737,599
5,000,000	2003C VPSA Subsidized Roanoke Academy	3.10% - 5.35%	11/6/2003	7/15/2023	-	1,925,604	-	1,925,604
1,300,000	2004B VPSA Subsidized Lincoln Terrace	4.10% - 5.60%	11/1/2004	7/15/2024	-	548,296	-	548,296
1,160,900	2005D VPSA Subsidized Fallon Park	4.60% - 5.10%	11/10/2005	7/15/2025	-	533,577	-	533,577
3,850,000	2005D VPSA Subsidized Westside	4.60% - 5.10%	11/10/2005	7/15/2025	-	1,769,550	-	1,769,550
7,500,000	2006B VPSA Subsidized Patrick Henry	4.23% - 5.10%	11/9/2006	7/15/2026	-	3,835,508	-	3,835,508
7,500,000	2008B VPSA Subsidized William Fleming	3.60% - 5.35%	12/11/2008	7/15/2028	-	4,303,608	-	4,303,608
1,135,000	2010 VPSA Qualified School Construction Bonds (QSCB) Elementary Schools	0.00%	7/8/2010	6/1/2027	-	745,000	-	745,000
1,245,000	2014B VPSA Refunding	3.00% - 5.00%	5/15/2014	7/15/2026	-	1,045,000	-	1,045,000
9,555,000	2015A VPSA Refunding	4.10% - 5.35%	2/17/2015	7/15/2028	-	8,855,000	-	8,855,000
					-	29,243,733	-	29,243,733
Literary Loan Funds:								
5,000,000	Literary Fund Loan-Lucy Addison Middle School	4.00%	10/1/1999	10/1/2019	-	1,000,000	-	1,000,000
					-	1,000,000	-	1,000,000
Capital Lease Liabilities								
4,857,000	Social Services Building Lease	11.80%	2/1/2004	1/1/2024	3,134,675	-	-	3,134,675
775,016	Xerox Lease - General, Department of Technology and Fleet	12.00%	11/1/2013	10/31/2018	419,211	-	-	419,211
23,970	Xerox Lease - Civic Facilities	12.00%	11/1/2013	10/31/2018	-	-	12,965	12,965
400,036	Net App Capital Solution Lease	3.72%	12/1/2014	11/30/2019	239,808	-	-	239,808
					3,793,694	-	12,965	3,806,659
373,067,197	TOTAL INDEBTEDNESS				\$ 92,785,535	\$ 104,950,046	\$ 39,016,965	\$ 236,752,546