



## CAPITAL IMPROVEMENTS PROGRAM

F.Y. 2019/2020 to F.Y. 2023/2024



# **CITY OF RADFORD**

## **CITY COUNCIL MEMBERS**

**Mr. David Horton, Mayor**  
**Dr. Dick Harshberger, Vice Mayor**  
**Mr. Robert Gropman**  
**Ms. Naomi Huntington**  
**Ms. Jesse Foster**

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**Mr. Robert Gropman**  
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**David C. Ridpath, City Manager**  
**Chelista Linkous, Interim Finance Director**  
**Basil Edwards, Director of Operations**  
**Tim Logwood, Director of Electric Utilities**  
**Lawrence Rice, Water/Wastewater Utilities Manager**  
**Angie Frye, Interim Police Chief**  
**Rodney Haywood, Fire Chief**  
**Ken Goodyear, Director of Parks and Recreation**  
**Timmy Lytton, Public Works Superintendent**  
**David Wikle, Interim Water/Wastewater Superintendent**  
**Robert Graham, Superintendent, Radford City Schools**  
**Blair Hoke, Economic Development Director**  
**Melissa Skelton, Community Development Director**  
**Jennifer Wilder, Public Information Coordinator**  
**Elizabeth Sensibaugh, Library Director**  
**Chris Childress, Interim Building Official**

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# LETTER OF TRANSMITTAL



*Radford*

*The “New River” City*

April 1, 2019

Mayor Horton, Vice Mayor Harshberger and Members of City Council:

The Capital Improvements Plan represents a five-year financial plan for investments in City-wide capital improvements. As with past plans, the projects reflected in this document are presented with recommendations for how they can be financed, and when they should be constructed. We have also attempted to determine what impact construction of these projects will have on future operating costs. Projects that were reviewed but determined could not be achieved within the five-year plan have been reflected in a section entitled “unfunded projects.” It is intended that City Council can adopt this plan and accomplish its objectives with the resources identified.

The Plan is comprehensive. It illustrates Radford’s attributes, plan elements, criteria for projects to be included in the plan, project descriptions and financing information.

Many of the projects in the proposed plan will be financed from current revenue. Overall, this plan assumes that, with one exception, capital improvements will be accomplished on a pay-as-you-go basis. The plan reflects budget policies, priorities and project “readiness.” Major projects which will require borrowing, in the F.Y. 2020 Capital Improvements Program are associated with improvements to Radford City Schools.

Each project description includes a statement of how the financing should be accomplished. It should be noted that the plan cannot be implemented without an ongoing contribution from the Enterprise Funds.

While the plan is considered a five-year plan, projects are listed in an “unfunded” section to give a glimpse of future planning efforts and prevent losing site of concepts. The approximately thirty projects reflect recreational, street, municipal and utility needs associated with operations or links to the City Comprehensive Plan. Unless significant additional resources are identified, many of those projects may not be accomplished until future years.

This plan provides for significant investment in the ongoing improvement of the City’s infrastructure and represents the City’s commitment to providing high quality service to its citizens within a responsible financial plan.

Sincerely,

David C. Ridpath  
City Manager  
City of Radford

## COMMUNITY BACKGROUND

The City of Radford was chartered in 1892. It is located in Southwestern Virginia bordered by Montgomery County to the South and Pulaski County to the North. The City has a population of 18,041 and has a land area of 9.63 square miles.

Radford provides a variety of housing opportunities, is home to corporate entities such as Danaher, Radva Corporation and Therma Steel, as well as hosts a vibrant business district of shops and restaurants. The community is bordered by the New River offering outdoor opportunities, water sports and tourism.

The City of Radford has been chartered under the Council-Manager form of government since 1920. The five-member City Council serves as the legislative body of the City to establish City policies. The City Manager is the administrative authority who carries out the legislative acts of City Council, as well as directs business and budget activity. The Manager develops and recommends the Capital Improvements program to the City Council during its annual budget development. The City Council is responsible for approving the budget and related taxes (Real Estate and Personal Property), as well as sets all user fees and rates for the enterprise funds including electric, sanitation, water and waste/water.

Primary and Secondary education, consisting of 1,578 students and 250 teachers and staff, is provided by the Radford City Public School system. The City contributes about 23% of the General Fund to operate the school system and funds the debt service on the facilities. Radford is also home to Radford University, a State supported university with approximately 9,300 students.

The City offers a full range of services including police, fire, public works, electric, water, sanitary sewer, economic development, voter registration, engineering, building and inspections and recreation. It also supports social service administration and five constitutional offices. Radford is an “independent” City and has its own school system and courts, as well as maintains its streets and roadway system.



# CAPITAL IMPROVEMENTS PROGRAMMING

The Capital Improvements Program (CIP) is an important planning tool and means to examine the needs of the community over a period of five years. It consists of two major components, a schedule of public improvements and a capital budget that allocated funds for the implementation of the improvements.

A public improvements program is a plan, specifically for capital expenditures to be incurred each year over a fixed period of years to meet needs arising from the long-term work program. It sets forth each project or other contemplated expenditure in which the local government is to have a part and specifies the full resources estimated to be available to finance the project expenditure. The projects in this report are based on a system of priorities and the fiscal capabilities of the City. Projects have been evaluated in the following areas: electric, recreation, public safety, water/wastewater, public works, education, administration and planning. By providing a planned schedule of public improvements, the program outlines present and future needs and intentions.

## Elements of the Plan

Staff began evaluating projects for the program in February, 2020. The Capital Improvements Program schedule is based upon priorities initially developed by the Radford Planning Commission, which are aimed at achieving the goals and objectives established by the commission and recorded in the City's 2017 Comprehensive Plan and/or illustrate City Council Vision Principles. Elements in the plan include housing, transportation, community facilities, economic base, environment, existing land use, recreation, and future land use. Capital improvements are generally those major projects which are to be undertaken by the City that do not recur on an annual basis. Projects fit into one or two more of the following categories:



- Any major acquisition of or improvement to public property,
- Construction of buildings or facilities,
- Planning studies pertaining to capital improvements which are greater than or equal to \$50,000
- Major additions or improvements to City properties that enhance the utility and value of the property to meet the City's service requirements,
- Projects or activities which do not generally recur on an annual basis.

The major advantage of Capital Improvements Program is that it encourages the City to critically evaluate desired physical improvements, available financing and the achievement of stated goals. The end result should be the optimum benefits for the public resources invested. Other results include:

- Developing a framework to illustrate how particular fit into a five-year pattern of project development,
- Stabilizing tax and utility rates by anticipating capital need,
- Making private investors aware of the availability of required public investments required to support private developments,
- Identifying future projects, allowing the City to take advantage of state and federal financial assistance,

- Making deficiencies in project development, facilities and services more apparent, as well as stimulate action to make improvements, and
- Providing a documented basis for assigning priorities to public investments.

## Evaluation Criteria

The Capital Improvements Program is a citywide program that is updated on an annual basis and generally based on the objectives of the City Comprehensive Plan. Projects considered for the plan depended on their purpose, geographic area served, stage of design or engineering, relationship to emergency needs, ability to attract private investment, service replacement, service expansion and general improvement in Radford’s Quality of Life. The plan also covers residential, commercial and recreational priorities. The purpose of this report is to provide a tool for government decision-makers in the City of Radford to facilitate making certain public improvement plans and decisions, and then establish the financial means available to implement such decisions.

## Capital Improvements Program Schedule

The following is the proposed schedule for adoption of the F.Y. 2019/2020 – F.Y. 2023/2024 Capital Improvements Program:

February, 2020	Staff development of projects begins
March 17, 2020	Projects submitted for preliminary review, Preliminary CIP Developed
March 20, 2020	Preliminary CIP delivered to the City Manager
April 1, 2020	Preliminary CIP submitted to City Council, Final CIP developed
April 8, 2020	Review of CIP by City Council, CIP Included in Budget process
April 22, 2020	CIP Adopted with Annual Budget

## Submission Process

In February, 2020, the City Manager’s office distributed instructions and project information forms to City departments requesting projects for consideration in the next five-year Capital Improvement Program period. Department heads developed a list of projections. The forms include a project estimate, funding recommendation, source of funds and the anticipated impact on the annual budget if the project is funded (i.e., maintenance, personnel, etc.). The forms are returned to the City Manager along with any projects generated from the public for analysis and consideration in the plan.

The City Manager’s office then reviews each proposal. Factors analyzed include:

- Feasible funding sources in relation to the projected timetable
- Projects “readiness to go”
- Impact of the project on the operating budget and service levels
- Priority of the project based on its relationship to the comprehensive plan and/or the Vision Principles established by City Council

## Capital Improvements Funding

Funding for the Capital Improvement Program varies by fund. The majority of funding comes from the transfer from the General Fund, Enterprise Funds, bonds or capital lease.

In the enterprise funds (water/sewer, electric and sanitation) capital projects are included within the fund instead of being in a separate fund as in the case of general fund projects. These enterprise fund projects are normally funded from operating revenues generated by each fund.

Large projects, such as school facilities, that authorize the construction or acquisition of major capital are identified for funding by bonds or grants.

## Capital Improvements Philosophy

The Capital Improvement Program provides for short, medium and long-range public improvements to projects for the City of Radford. These projects are based on a system of priorities and the fiscal capabilities of the City. The Capital Improvements Program report focuses attention on community goals, needs and the City's ability to pay, thereby, attempting to achieve the optimum use of the taxpayer's dollar. The program encourages a more efficient government administration and improves the basis for intergovernmental and regional cooperation. Emphasis is placed on maintaining a sound and stable financial program and enhances opportunities that will produce optimum benefits.



## **BUDGET POLICIES**

The goal of the City's financial plan is to establish and maintain effective management of the City's financial resources. In developing the City's capital budget, the following policies are used:

- A five-year program for capital infrastructure improvements is updated annually. The program identifies anticipated funding sources.
- Capital projects financed through the issuance of bonds will be financed for a period not to exceed the useful life of the project.
- The City will coordinate the development of the capital budget with the development of the operating budget. Future operating costs associated with new capital projects will be forecast and included in the operating budget forecasts.
- The City will preserve its assets at a level adequate to protect the capital investment and minimize future maintenance and replacement costs.
- The City will establish an appropriate distribution of bonded debt and cash financing in the funding of capital projects.

## CAPITAL IMPROVEMENTS PROGRAM AND THE BUDGET

The Capital Improvements plan is developed and published in conjunction with the annual operating budget. The current year CIP projects are incorporated in the annual operating budget. Financial resources used to meet priority needs established by the Capital Improvements Program are accounted for through the “Capital Projects Fund” for general government projects and through enterprise funds for enterprise related capital projects.



### FUNDING HISTORY

Capital Improvement Project spending for F.Y. 2019 is summarized as follows:

General Fund Projects	
Storm Drainage (Miscellaneous)	\$15,000
Electric Fund Projects	
Electric System (Hydro Electric Facilities Improvements)	<u>\$2,704,614</u>
<b>Total</b>	<b>\$2,719,614</b>





# **CAPITAL IMPROVMENTS PROGRAM**

## PROGRAM SUMMARY

### General Fund Projects

<b>Streets / Sidewalks</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2024</b>	<b>Total</b>
Tyler to East Main	434,316	2,475,684	-	-	-	2,910,000
Traffic Signal Upgrade	-	240,000	-	-	-	240,000
University Bridge Improvements	800,000	-	-	-	-	800,000
Traffic Signal (Tyler & Auburn)	-	-	-	-	110,000	110,000
<b>Total Streets &amp; Sidewalks Projects</b>	<b>1,234,316</b>	<b>2,715,684</b>	<b>-</b>	<b>-</b>	<b>110,000</b>	<b>4,060,000</b>

### Storm Drainage

Misc. Drainage	15,000	15,000	15,000	15,000	15,000	75,000
<b>Total Drainage Projects</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>15,000</b>	<b>75,000</b>

### Facilities

Animal Control Facility	30,000	1,500,000	-	-	-	1,530,000
Fire/EMS Station	50,000	3,000,000	-	-	-	3,050,000
School Improvements	800,000	9,239,062	6,409,390	6,211,517	3,831,752	26,491,721
<b>Total for Facilities</b>	<b>880,000</b>	<b>13,739,062</b>	<b>6,409,390</b>	<b>6,211,517</b>	<b>3,831,752</b>	<b>31,071,721</b>

### Recreation Facilities

New River Sports Complex Improve	50,000	-	65,000	-	-	115,000
Wildwood Park	-	50,000	-	-	-	50,000
Armory Project	500,000	-	-	-	-	500,000
Playfield Improvements	-	25,000	-	25,000	-	50,000
Cultural Heritage Site	150,000	-	-	-	-	150,000
Frisbee Golf	-	25,000	-	-	-	25,000
Skateboard Park	-	-	100,000	-	-	100,000
<b>Total Recreation Projects</b>	<b>700,000</b>	<b>100,000</b>	<b>165,000</b>	<b>25,000</b>	<b>-</b>	<b>990,000</b>
<b>Total General Fund Projects</b>	<b>2,829,316</b>	<b>16,569,746</b>	<b>6,589,390</b>	<b>6,226,517</b>	<b>3,956,752</b>	<b>36,196,721</b>

### Sanitary Sewer Projects

Arnold Ave. / Pershing	-	-	-	-	125,000	125,000
Hercules Street	-	150,000	-	-	-	150,000
Jackson & 6th	-	-	-	91,700	-	91,700
Staples Street	-	250,000	-	-	-	250,000
Miscellaneous Sewer Projects	-	12,900	-	-	-	12,900
<b>Total Sewer Projects</b>	<b>-</b>	<b>412,900</b>	<b>-</b>	<b>91,700</b>	<b>125,000</b>	<b>629,600</b>

### Water System Projects

Radford Village	-	-	117,500	-	-	117,500
West Main – Ingles to Third	-	10,000	-	-	-	10,000
Grandview	-	-	-	20,000	-	20,000
Ninth Street & Wadsworth West	-	-	-	-	83,245	83,245
Preston Street	-	-	-	-	86,989	86,989
<b>Total Water Projects</b>	<b>-</b>	<b>10,000</b>	<b>117,500</b>	<b>20,000</b>	<b>170,234</b>	<b>317,734</b>
<b>Total Water &amp; Sewer Projects</b>	<b>-</b>	<b>422,900</b>	<b>117,500</b>	<b>111,700</b>	<b>295,234</b>	<b>947,334</b>

# PROJECT SUMMARIES

## Streets and Sidewalks

1. **TYLER AVENUE to EAST MAIN STREET** – A corridor roadway would be constructed from Tyler Avenue, near the intersection of Auburn Avenue, North to East Main Street, near the High Meadows Parkway. The project would include planning, design, surveying & construction. Amenities would include two vehicular lanes, lighting, storm water detention & pedestrian/bike path. Design is underway by Whitman Requardt & Associates at a cost of \$434,316, Project cost - \$2,910,000 (Phase I). Funding Source – VDOT & 2% City match from grant funds.
2. **TRAFFIC SIGNAL UPGRADE - MAIN STREET** - The traffic signals at the nine intersections in the business district (East and West Main Street) would be upgraded to improve traffic responsiveness and handling capacity, as well as provide emergency vehicle pre-emption. Project cost - \$240,000. Funding source - Electric Fund and VDOT.
3. **UNIVERSITY DRIVE BRIDGE** – Improvements and repairs are needed to the 35-year-old University Drive Bridge as identified in 2018 inspection by Schwartz & Associates. Project includes deck repairs, waterproofing, painting, fencing and sidewalk repairs and corrosion maintenance. Project cost - \$800,000. Funding source – Street Fund Reserve. Planning and design contracted with Whitman Requardt & Associates for \$117,310.
4. **TRAFFIC SIGNAL (TYLER & AUBURN)** - A new traffic signal system would be installed at the intersection of Tyler Avenue and Auburn Avenue adjacent to Cedar Valley Apartments. The traffic signal would improve public safety and better manage the vehicles entering Tyler Avenue from existing residential neighborhoods, as well as support future developments in the area. Project cost \$110,000. Funding source – Electric Fund & VDOT

## Storm Drainage

1. **MISCELLANEOUS DRAINAGE PROJECT** - Design and construction of drainage improvements identified in the 1993 Facility Plan in various locations throughout the City. The improvements would prevent runoff damage to public and private properties. Project cost \$15,000/year. Funding source – General Fund.

## Facilities

1. **ANIMAL SHELTER** – The aging animal shelter located on Pulaski Avenue would be renovated or replaced with a modern facility. Improvements would include upgraded heating, better lighting and larger runs. Planning is expected to cost \$30,000. Project cost - \$1,500,000 Fund Source – General Obligation Bond and Grants.
2. **EAST RADFORD FIRE STATION** - An East Radford Fire Station would be constructed with two or three bays, offices and parking. The additional station would provide improved fire protection to the business district, Radford University, High Meadows and the 177 Corridor. The project would include planning, engineering, site acquisition and construction. Planning is expected to cost \$50,000. Project

could include improvements to the existing Fire Station on Wadsworth Street. Project cost \$3,000,000  
Fund Source – General Obligation Bond and Grants.

3. **SCHOOL IMPROVEMENTS** – Multi-year design and construction related to renovations on McHarg Elementary School and Radford High School. Improvements would include expanded facility needs, as well as cosmetic, systems and function upgrades to the facilities. Projects would be throughout the five-year plan. Project cost - \$26,491,726. Funding source – G.O. Bonds.

## Recreational Facilities

1. **NEW RIVER SPORTS COMPLEX IMPROVEMENTS** – Improvements would be made to the multipurpose park on New River Drive to include a modular restroom (\$50,000), as well as renovations to the existing building to support concessions and storage (\$65,000). The restroom would also serve the Dudley’s Landing boat launch facility adjacent to the park. Funding source – Grants.
2. **WILDWOOD PARK ENTRANCE** – The entrance to Wildwood Park would be improved with parking facilities, a kiosk, pergola, new gate and interpretive exhibits. Project cost - \$50,000. Funding source – Grant.
3. **ARMORY PROJECT** – The former National Guard facility on Scott Street would be renovated by public/private partnership for recreational, classroom and meeting space. Improvements would include aesthetic improvements, mechanical upgrades and ADA accommodations. The City has replaced the roof, removed asbestos and placed the building back into service. Project Cost \$500,000 (Phase I). Funding source - Public/Private partnership.
4. **PLAYFIELD IMPROVEMENTS** – Radford City Parks and related playfields would be improved to include play equipment upgrades, fencing, field lighting, bleachers and scoreboards. Project cost - \$25,000 (2 funding phases). Funding source – General Fund.
5. **CULTURAL HERITAGE/GLENCOE SITE** – Amenities such as a train/bird viewing platform, Farmer’s Market structure and amphitheater would be constructed on the 2-acre site adjacent to Robertson Street and on the Glencoe grounds for tourism. Project cost - \$150,000 –Grants and donations.
6. **FRISBEE GOLF COURSE** – A 9 to 18 hole Frisbee Golf Course would be designed and constructed to broaden recreational opportunities and tourism. 3 to 5 acres is needed for the project. Project elements includes flags, holes, and benches. Project cost - \$25,000. Funding sources – Grant, General Fund, Donation.
7. **SKATEBOARD PARK** – A skateboard park would be designed and constructed in the area of the old swimming pool in Bisset Park. Project cost - \$100,000. Funding source – General Fund and grants.

## Sanitary Sewer

1. **ARNOLD AND PERSHING** – 525 linear feet of 8" sanitary sewer line would be replaced in an existing easement between Arnold Avenue and Pershing Avenue. Project cost - \$125,000. Funding source – Sewer reserves.
2. **HERCULES STREET** – 565 linear feet of 8" sanitary line would be replaced along Hercules Street between Roosevelt and Pershing Avenue. Project cost - \$150,000. Funding source – Sewer reserves.

3. **JACKSON AND SIXTH** – 450 linear feet of 8" sanitary sewer line would be replaced in an existing easement between Jackson Street and Sixth Avenue. Project cost - \$91,700. Funding source – Sewer reserves.
4. **STAPLES STREET** – 1,900' linear feet of 10" sanitary sewer line would be replaced along Staples Street from Rock Road to Fourteenth Street. Project cost -\$250,000. Funding source – Sewer reserves.
5. **MISCELLANEOUS SEWER PROJECTS** – 1,110 linear feet of sanitary sewer line would be replaced throughout Radford. Projects are as follows:
 

• 308 College Park Drive- 250ft. 6" main,	2500.00
• 1600 Block Grove Ave.- 270ft. 6" main,	3000.00
• Pickett alley 190 ft. 6" main,	2000.00
• 2016 4 <sup>th</sup> Street 220ft. 6: main,	2700.00
• 100 Midkif lane 180ft. 6" main,	2700.00

 Project cost - \$12,900. Funding source – Sewer reserves.

## Water System

1. **RADFORD VILLAGE** – 3,225 linear feet of 6" main water line would be replaced with an 8" service throughout the Radford Village residential area improving service reliability and water flow to forty homes. Project cost - \$117,500. Funding source – Water reserves.
2. **WEST MAIN STREET- INGLES STREET TO THIRD STREET** – Project requires renewal and upsizing of 768 feet of 4" water main. The estimated cost of this project would be \$10,000 Funding source –Water reserves.
3. **GRANDVIEW** – 1500 linear feet of water line would be replaced with a 6" line from Grandview Drive to Woodland Drive. Project cost - \$20,000. Funding source – Water reserves.
4. **NINTH STREET** – 1153 linear feet of water line would be replaced with new 6" line along Ninth Street, west to Wadsworth Street. Project cost - \$83,245. Funding source – Water reserves.
5. **PRESTON STREET** – 1,193 linear feet of water line would be replaced with a 6" line from Preston Street to Lyle Street. Project cost - \$86,989. Funding source – Water reserves.

## **FUNDING SUMMARY**

## Summary – Funding Sources

**Financing - General Fund  
Projects**

	2020	2021	2022	2023	2024	Total
<b>Funding Sources:</b>						
VDOT	425,630	2,546,171	-	-	55,000	3,026,801
Street Fund	815,000	15,000	15,000	15,000	15,000	875,000
General Fund	138,686	99,513	100,000	25,000	-	363,199
Electric Fund	-	120,000	-	-	55,000	175,000
Private Contributions	500,000	-	-	-	-	500,000
Grants	150,000	50,000	65,000	-	-	265,000
Capital Reserve	800,000	-	-	-	-	800,000
Government Bonds	-	13,739,062	6,409,390	6,211,517	3,831,752	30,191,721
<b>Total Identified Funding</b>	<b>2,829,316</b>	<b>16,569,746</b>	<b>6,589,390</b>	<b>6,251,517</b>	<b>3,956,752</b>	<b>36,196,721</b>

**Financing - Water / Waste Water Projects**

<b>Funding Sources:</b>						
Water / Sewer Fund	0	422,900	117,500	111,700	295,234	947,334
<b>Total</b>	<b>0</b>	<b>422,900</b>	<b>117,500</b>	<b>111,700</b>	<b>295,234</b>	<b>947,334</b>

## PROJECT DETAILS

### **APPENDIX A**

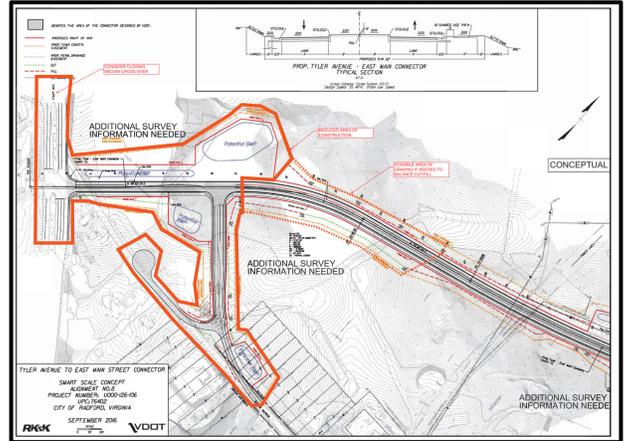
# CAPITAL IMPROVEMENTS PROGRAM PROJECT INFORMATION FORM

**Project Title:** Tyler Avenue to East Main Street

**Budget Year:** F.Y. 2020

**Project Cost:** \$434,316

**Funding Sources:** VDOT and 2% City Match



**Project Description:**

Corridor roadway would be constructed from Tyler Avenue near Auburn Avenue intersection to East Main Street at Plumb Creek. Project includes 1,000 ft. of vehicular lanes, signage, storm drainage, bike & pedestrian facilities & lighting.  
Design Cost - \$434,316, Phase I Construction - \$2,475,684

**Project Justification:**

Transportation Enhancement

**Impact on Operating Budget:**

Project will be built to VDOT standards so eligible for highway maintenance funds for repair and upkeep.

>

**Project Type:**       Replacement       Expansion       Renovation       New

**Requesting Department:** Engineering

**Contact:** Jay Eanes

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

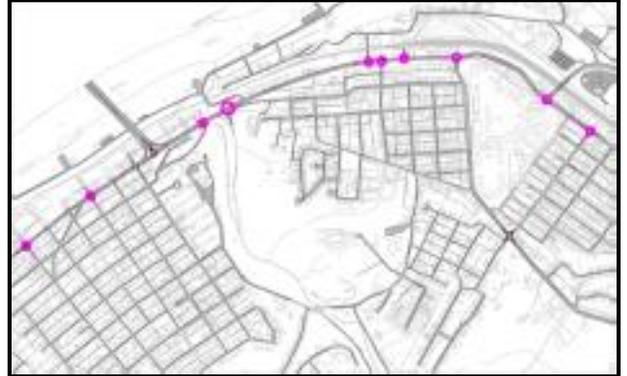
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**Project Title:** Traffic Signal System Upgrade

**Budget Year:** F.Y. 2021

**Project Cost:** \$240,000

**Funding Sources:** VDOT & (50%) Local Match



**Project Description:**

The traffic signals and signal operating system in the business district would be upgraded to improve traffic responsiveness and handling capacity, as well as provide emergency vehicle pre-emption. Intersections on East and West Main Street included for improvement: Jefferson Street, University Drive, Tyler Avenue, Virginia Street, Third Avenue, Harrison Street, Grove Avenue, Dalton Drive, Harvey Street, & Wadsworth Street.

**Project Justification:**

Existing equipment approaching 25 years in age. Project will acquire new traffic management equipment to manage traffic flow in the business district and provide emergency vehicles with the ability for pre-emption from normal signal changes to improve response times.

**Impact on Operating Budget:**

No significant impact on maintenance expenses.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Engineering

**Contact:** Jay Eanes

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** University Dr. Bridge  
 (VDOT Structure # 8000)  
 (FHWA Structure #21270)



**Budget Year:** F.Y. 2020

**Project Cost:** \$917,310

**Funding Sources:** Street Revenue Fund

**Project Description:**

**MAJOR ELEMENTS:**  
 Remove damaged concrete/repair cracking where delaminated;  
 Apply epoxy coating as water proofing to stop further corrosion of steel;  
 Replace deck joints and seals where damaged and leaking;  
 Abrasive blasting and re-coating of structural steel elements where corroded (beams and bearing plates);  
 Repair/replace rusting pedestrian fence;  
 Repair/replace spalled and settled sidewalk sections;  
 Repair/replace asphalt pavement approaches;

**Project Justification:**

Required semi-annual Federal Highway Bridge Inspections increasingly show detrimental effects of weather and traffic wear on structure.  
 Structure is now 33 years of age.  
 There have been no significant maintenance expenditures on structure since its construction in 1981.  
 Expected structure life of 80 years is being reduced by deferring maintenance.

**Impact on Operating Budget:**

Recommended work will correct deterioration that has occurred since construction, and adds waterproof coatings that were not available at time of construction.  
 Not addressing defects will increase future deterioration and repair costs, reduce life of the structure, and result in the need to make significant structural rehabilitation or replacement (est. \$8 million).  
 Required semi-annual bridge inspection cost \$3,190.00

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Engineering

**Contact:** Jay Eanes

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Construct Traffic Signal at  
Tyler Ave. - Auburn Ave. intersection

**Budget Year:** F.Y. 2024

**Project Cost:** \$110,000

**Funding Sources:**

VDOT Revenue Sharing (50%) \$55,000

Required local Match (50%) \$55,000



**Project  
Description:**

Construct traffic signal at this four-way intersection.

**Project  
Justification:**

Requests from local residents.

**Impact on  
Operating Budget:**

What are the annual costs of this project?

Electric Service - \$400

Maintenance - \$1,500

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Engineering

**Contact:** Jay Eanes

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Animal Control Facility

**Budget Year:** F.Y. 2020

**Project Cost:** \$30,000

**Funding Sources:** General Obligation Bond  
& Grants



**Project Description:**

The Animal Control Facility located Pulaski Street would be relocated due to its age and location near the New River. Development would include site improvements, heating lighting & large runs. Project Estimate - \$1,500,000. Planning Cost - \$30,000.

**Project Justification:**

Site location and age.

**Impact on Operating Budget:**

Little expected due to improved efficiency.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Animal Control

**Contact:** Angie Fry

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Fire / EMS Station



**Budget Year:** F.Y. 2020

**Project Cost:** \$50,000

**Funding Sources:** General Obligation Bond  
& Grant

**Project  
Description:**

Renovations to the Fire & EMS station on Wadsworth Street and a new Station II in East Radford. The project would include Planning, Site Evaluation and construction. The second station improves Fire and ambulance service to the largest population of the City near Radford University. Project Estimate - \$3,000,000. Planning Cost - \$50,000

**Project  
Justification:**

Public Safety and improved efficiency.

**Impact on  
Operating Budget:**

Increase cost of operation for a second station.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Fire Dept.

**Contact:** Rodney Haywood

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** School Improvements

**Budget Year:** F.Y. 2020 (Multi-Year)

**Project Cost:** \$800,000

**Funding Source:** G.O. Bond, VPSA



**Project Description:**

Renovations to McHarg Elementary School and High School. Improvements would include HVAC, plumbing, wiring, technology upgrades, cosmetics and accessibility.

Five Year Program Totaling \$26,491,726

**Project Justification:**

Building age and limitations.

**Impact on Operations:**

Increase in utility cost due to ownership of the Armory.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** School System

**Contact:** School Superintendent

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** New River Sports Complex Improvements



**Budget Year:** F.Y. 2020 & 2022

**Project Cost:** \$115,000

**Funding Sources:** General Fund

**Project Description:**

Improvements include a modular restroom for \$65,000 to be installed in 2020 and renovations to the existing building for a concession stand and storage for \$50,000 to be completed in 2022.

**Project Justification:**

The field is rented for weekend tournaments 20-25 times a year and the out of town teams do not enjoy having to use porta johns and not being able to purchase food and drinks because of the lack of a concession stand.

**Impact on Operating Budget:**

Would help improve economic impact on out of town teams continuing to come to Radford for weekend tournaments.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Parks and Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Wildwood Park Entrance

**Budget Year:** F.Y. 2021

**Project Cost:** \$50,000

**Funding Sources:** Grant



**Project Description:**

The entrance to Wildwood Park would be improved with parking facilities, a kiosk, pergola, new gate and interpretive exhibits.

**Project Justification:**

Improve the quality of the amenities to the park. With the completion of the bikeway through the park, Wildwood is a heavily used outdoor facility.

**Impact on Operating Budget:**

Would possibly require matching funds of \$25,000 from the general fund.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Parks and Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Armory Project

**Budget Year:** F.Y. 2020

**Project Cost:** \$500,000

**Funding Sources:** Public/Private Partnership



**Project Description:**

The Armory Building constructed in 1954 would be remodeled to include new roof, asbestos abatement and clean up (Phase I) completed 2017. Second Phase to include HVAC, aesthetics and new gym floor with partner organization.

**Project Justification:**

Needs assessment support for additional gymnasium and assembly areas.

**Impact on Operating Budget:**

Utility and maintenance cost.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Playfield Improvements

**Budget Year:** F.Y. 2021

**Project Cost:** \$50,000

**Funding Sources:** General funds and Grants



**Project Description:**

Would construct playground equipment at the 2<sup>nd</sup> shelter in Bisset Park. Existing equipment is outdated. Improvements would be in two phases.

**Project Justification:**

New Playground equipment has been added to Riverview Park, 1<sup>st</sup> shelter at Bisset Park, Sisson Field and Sunset Park. The 2<sup>nd</sup> shelter in Bisset Park is a popular facility for rentals.

**Impact on Operating Budget:**

>

**Project Type:**  Replacement  Expansion  Renovation  New

**Requesting Department:** Parks and Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

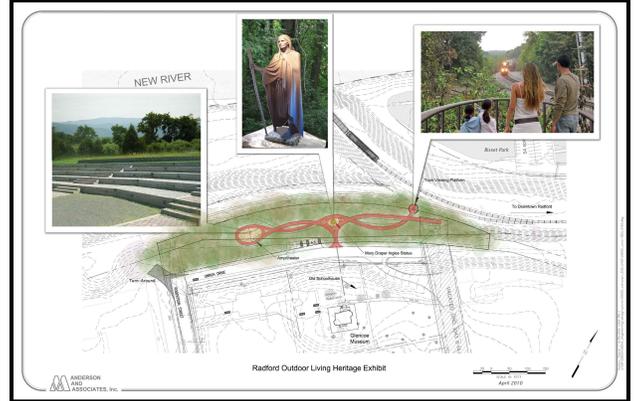
## PROJECT INFORMATION FORM

**Project Title:** Cultural Heritage Site

**Budget Year:** F.Y. 2020

**Project Cost:** \$150,000

**Funding Sources:** Grants



**Project Description:**

The property located along Unruh drive would be improved with site amenities that include a train/bird viewing platform and amphitheater. Phase I - \$17,000 Platform, Phase II - \$133,000 Amphitheater and Farmer's Market.

**Project Justification:**

Promotion of tourism, historical and cultural heritage.

**Impact on Operating Budget:**

Minimal cost associated with mowing. No utilities required.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Tourism

**Contact:** Deb Cooney

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Frisbee Golf

**Budget Year:** F.Y. 2021

**Project Cost:** \$25,000

**Funding Sources:** Grants, General Fund,  
Donations



**Project Description:**

Locate a 3 to 5 Acre site and design a course for 9 to 18 hole Frisbee golf course. Project includes minor grading, seeding, holes, flags and benches.

**Project Justification:**

Expand recreational and tourism opportunities.

**Impact on Operating Budget:**

Maintenance \$2,000

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Skateboard Park

**Budget Year:** F.Y. 2022

**Project Cost:** \$100,00

**Funding Sources:** General funds & matching



grants

. \$50,000 city / \$50,000 grants.

**Project Description:**

A skateboard park would be designed and constructed in Bisset Park in the area of the old city swimming pool. Park would consist of concrete equipment, fencing and skateboard jumps.

**Project Justification:**

The New River Valley is limited in skateboard park facilities. Skateboarders will travel to other areas to utilize quality skateboard parks. Would be an economic impact tool for the city.

**Impact on Operating Budget:**

Would require matching funds of \$50,000 of city funds and \$50,000 of grants funds.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Parks and Recreation

**Contact:** Ken Goodyear

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Sewer Line Replacement in alley  
between Arnold Ave. and Pershing Ave.

**Budget Year:** 2024

**Project Cost:** \$125,000

**Funding Source:** Water /Sewer Fund



**Project  
Description:**

Replace approximately 525 feet of 8” sanitary sewer main in easement and renew services in easement between Arnold Ave. and Pershing Ave. There are 8 service connections on this line, send to Engineering in 2011.

**Project  
Justification:**

This is an 8” clay line with root damage and needs to be replaced to repair damage and minimize water infiltration. This easement is full of trees, fences and buildings built near or over the sewer main. This project is a liability to the City of Radford should line repairs have to be made in an emergency situation because of the above problems in the easement.

**Impact on  
Operations:**

Impact is on damage that could result from blockages and allowing backups into any one of 8 homes on this line. Expect lower risk associated with line blockages and back-ups.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

---

**Project Title:** Sanitary Sewer Main Replacement,  
on Hercules Street

**Budget Year:** 2021

**Project Cost:** \$150,000

**Funding Source:** Water / Sewer Fund



**Project Description:**

Replace approximately 565 feet of 8” sanitary sewer main and renew services on Hercules Street between Roosevelt and Pershing. Will need to go to Engineering in 2008; for design and submittals.

**Project  
Justification:**

Line is old 8” clay and has root damage, has treated line twice for roots but still have a problem with blockages. Replacing pipe will eliminate root problem and minimize water infiltration.

**Impact on  
Operations:**

Impact is on damage that could result from blockages and backing into any or all 14 homes with connections to this line. This line is very deep and creates liabilities trying to repair. Expect lower risk associated with line blockages and back-ups.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater    **Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Sewer Line Replacement Jackson Street and 6<sup>th</sup> Avenue

**Budget Year:** 2023

**Project Cost:** \$91,700

**Funding Source:** Water / Sewer Fund



**Project Description:**

Replace approximately 450 feet of 8” sanitary sewer main in easement between Jackson Street and 6<sup>th</sup> Ave. and renew services. Send to Engineering in 2010.

**Project Justification:**

This is an 8” clay line with root damage and needs to be replaced to repair damage and minimize water infiltration. This easement is full of trees, fences and buildings built near or over the sewer main. This project is a liability to the City of Radford should line repairs have to be made in an emergency situation because of the above problems in the easement.

**Impact on Operations:**

Impact is on damages that could result from blockages and backing into any or all 14 homes with connections to this line. This line is very deep and creates liabilities trying to repair. Expect lower risk associated with line blockages and back-ups.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Staples Street

**Budget Year:** F.Y. 2021

**Project Cost:** \$250,000

**Funding Sources:** Sewer Reserves



**Project Description:**

1,900' linear feet of 10" sanitary sewer line would be replaced along Staples Street from Rock Road to Fourteenth Street.

**Project Justification:**

Age and deterioration of existing lines.

**Impact on Operating Budget:**

Impact is on damage that could result from blockages and allowing backups. Expect lower risk associated with line blockages and back-ups.

>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:**    Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Miscellaneous Sewer Projects

**Budget Year:** F.Y. 2021

**Project Cost:** \$12,900

**Funding Sources:**



**Project Description:**

1,110 linear feet of sanitary sewer line would be replaced throughout Radford. Projects are as follows:  
308 College Park Drive- 250ft. 6" main  
1600 Block Grove Ave.- 270ft. 6" main  
Pickett alley 190 ft. 6" main  
2016 4<sup>th</sup> Street 220ft. 6: main  
100 Midkif lane 180ft. 6" main

**Project Justification:**

Age of lines.

**Impact on Operating Budget:**

Reduced maintenance.  
>

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Radford Village Water Main & Service Replacement

**Budget Year:** F.Y. 2022

**Project Cost:** \$117,500

**Funding Source:** Water / Sewer Fund



**Project Description:**

Replace approximately 3225 feet of 6" water main and 40 service lines. Planning and Engineering submittals to occur in 2009.

**Project Justification:**

The lines in this area are old cast iron pipe and all services except for a few that have been upgraded are galvanized pipe with lead connections to the water main. The galvanized pipe service lines have closed off over the years and offer little flow through them.

**Impact on Operations:**

The main impact of this project is to eliminate as many lead connections as possible in the City of Radford water system and provide a safe and dependable water distribution system. Expect lower risk associated with line blockages and back-ups.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** West Main Street & Ingles

**Budget Year:** F.Y. 2021

**Project Cost:** \$10,000

**Funding Source:** Water / Sewer Fund



**Project Description:**

Install new 6” water main to provide better fire protection and renew existing galvanized services

**Project Justification:**

In order to provide the needed fire protection, the 4” existing line and 2” galvanized line needs to be upgraded

**Impact on Operations:**

Less ongoing line maintenance.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater Public Works    **Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM PROJECT INFORMATION FORM

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**Project Title:** Grandview Drive  
Water line Replacement

**Budget Year:** F.Y. 2023

**Project Cost:** \$20,000

**Funding Sources:**



**Project Description:**

1500 linear feet of water line would be replaced with a 6" line from Grandview Drive to Woodland Drive.

**Project Justification:**

The existing 2" galvanized line is deteriorating and has been repaired numerous times in recent years.

**Impact on Operating Budget:**

Less ongoing line maintenance.  
>

**Project Type:**  Replacement  Expansion  Renovation  New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** 9<sup>th</sup> St. to Wadsworth St.  
Water Line replacement

**Budget Year:** F.Y. 2024

**Project Cost:** \$83,245

**Funding Sources:**



**Project Description:**

1153 linear feet of water line would be replaced with new 6" line along Ninth Street, west to Wadsworth Street.

**Project Justification:**

The deteriorating line in this block has had numerous breaks in recent years.

**Impact on Operating Budget:**

Less ongoing line maintenance.

>

**Project Type:**  Replacement  Expansion  Renovation  New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# CAPITAL IMPROVEMENTS PROGRAM

## PROJECT INFORMATION FORM

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**Project Title:** Preston Street  
Water Line Renewal

**Budget Year:** F.Y. 2024

**Project Cost:** \$86,989

**Funding Sources:**



**Project Description:**

Replace existing 1.5” and 2” Water Main on Preston Street from 5<sup>th</sup> Street to 8<sup>th</sup> Street. Approximately 1,193 ft. will be upgraded with 6” C900 lines.

**Project Justification:**

Existing lines are galvanized and require numerous repairs as well as flows being low due to buildup in the lines. This will have the added benefit of increased fire protection in the area.

**Impact on Operating Budget:**

Less ongoing line maintenance.

**Project Type:**     Replacement     Expansion     Renovation     New

**Requesting Department:** Water/Wastewater

**Contact:** David Wikle

# **FUTURE CAPITAL PROJECTS**

## **APPENDIX B**

## FUTURE CAPITAL PROJECTS

Projects which are included in the “Future” sections of the Capital Improvements Plan are those which have limited planning or engineering work, are conceptual in nature, need a more defined funding plan or lack an identified funding source. These “unfunded” projects include street and sidewalks, storm drainage, recreation, municipal facilities, water and sanitary sewer and education.

### Street and Sidewalks

1. **PARK ROAD – TYLER AVENUE CONNECTION** – A new road would be constructed from Tyler Avenue near Milton Lane south to Park Road approximately .62 miles. Project would include two travel lanes, sidewalks, bicycle lanes, storm drainage, and traffic signals. Water and sanitary sewer service lines would also be installed to provide development potential to the area. Project cost - \$4,200,000. Funding Source – VDOT.
2. **PARK ROAD IMPROVEMENT** – Park Road would be reconstructed to urban 2 lane standards including sidewalks and bike lanes from Ridgefield Lane to Rock Road approximately .60 miles. Project also supports the Park Road – Tyler Avenue connection project. Project Cost - \$500,000. Funding Source – VDOT.
3. **JEFFERSON STREET ENHANCEMENTS** - Jefferson Street would be enhanced from Tyler Avenue to East Main Street with a median and landscaping. The reconstruction of Jefferson Street in 2001 did not provide for any City beautification amenities. Project Cost - \$100,000. Funding Source – Street Fund.
4. **STREET/BIKEWAY CONNECTION (WESTWARD EXPANSION)** – A new street would be constructed from Bisset Park to Staples Street. The project would include a 4,120 linear foot bicycle path, tunnel under the railway and scenic vistas. Project cost - \$4,943,000. Funding source – Bond.
5. **SIDEWALK – TYLER AVENUE** - A new sidewalk would be constructed along the south side of Tyler Avenue from Hammett Street to Auburn Avenue. The project would improve public safety, as well as provide pedestrian service to the adjacent churches, shopping centers and residential developments. Project cost \$72,000. Funding Source – Street Fund.
6. **SIDEWALK – EAST MAIN STREET** - A new sidewalk would be constructed along East Main Street from the intersection of Jefferson Street to Burlington Street. The project would improve pedestrian safety, as well as provide access to the businesses along the North side of East Main Street. Project Cost \$54,000. Funding Source – Street Fund.

### Storm Drainage

1. **BEVERLY STREET DRAINAGE** - Construction associated with improvements for storm drainage in the Beverly Street basin. The project is needed to mitigate flooding and drainage across existing private properties in the neighborhood. \$9,000 was spent on project planning and design in F.Y. 2003-2004, Project cost - \$350,000 (construction). Funding Source – G.O. Bond.

2. **STAPLES STREET DRAINAGE** – A 3,065 linear foot storm drainage outfall would be constructed from the detention pond on Staples Street to the New River. Project cost - \$1,391,000. Funding source – Bond.

## Municipal Facilities

1. **ELECTRONIC COUNCIL CHAMBER** - Improvements would be made to the City Council Chambers to improve the sound system as well as provide facilities for radio and television broadcasts. Elements of the project would include computers, wiring and communication and broadcast equipment for cable television. Project cost - \$225,000. Operating cost - \$ 50,000/ yr. Funding Source – General Fund.
2. **PUBLIC WORKS COMPOUND** – The forty-year-old public works facility located at 699 Seventeenth Street would be expanded an additional 6,000 sq. ft. to provide additional space for garage maintenance operations, materials storage, parts management, traffic control and office space. The building would also receive a new façade and landscaping. Project cost \$1,800,000. Funding Source – G.O. Bond.
3. **INGLES MOUNTAIN COMMUNICATIONS TOWER** - The aging 100’ communications tower on Ingles Mountain would be replaced with a new 140’ tower to improve reliability for fire, police, EMS and public works operations. Project cost - \$125,000. Funding Source – Grant.
4. **VISITOR’S KIOSK** – A kiosk would be constructed on City owned property at exit 105 along West Main Street. The kiosk would contain visitor information, a city map, points of interest and attractions. Elements of the project would include the structure, parking, lighting and landscaping. Project cost - \$50,000. Funding source – General Fund.
5. **THIRD AVENUE PARKING LOT** – The public parking lot located adjacent to Grove Avenue and Third Avenue would be improved to include a stormwater system, paving, landscaping, traditional light poles and hanging baskets. The project is needed to improve the lot’s aesthetic appeal. Project cost - \$250,000. Funding Source – Grant.

## Recreational Facilities

8. **SWIMMING POOL** – A conceptual design was created by OWPR Architects to construct pool facilities on the site of the Recreation Center. The project includes a 30x60 meter handicap accessible indoor pool, a “frog pond” and outdoor pool. Project cost -\$3.6 million. Operational costs are estimated at 600,000 per year. Funding Source – G.O. Bond and partner organizations.
9. **WATER SPRAY PARK** – A 3,500 sq. ft. water spray park would be designed and constructed to provide a water playground as a new recreational service. Project cost - \$325,000. Funding source –Grant.
6. **HODGE FIELD PRESS BOX** – A press box and storage area would be constructed at Hodge Field. Project cost - \$10,000. Funding Source – General Fund.

## Sanitary Sewer

1. **NEW RIVER INTERCEPTOR** – The New River interceptor is the main sanitary sewer line which parallels the New River. The 31,000’ line was constructed in 1984. Approximately 3,150’ of 36" and 42" sanitary sewer line would be installed to replace the 24" line adjacent to Connelly’s run and the 36" line adjacent to Radford University. The project is needed to handle projected future flows. A engineering study was done by Arcadis in 2000. Project cost - \$1,102,800. Funding Source – G.O. Bond.
1. **MOUNTAIN ROAD SEWER EXTENSION** – A 15” sewer line would be installed from Route 232 along Mountain Road to serve residents in the area and provide service to the western end of Rock Road. Project cost - \$400,000. Funding Source – Grant
2. **STAPLES STREET** – 2,320 linear feet of sanitary sewer line would be replaced along Staples Street from Third Street to the New River interceptor. Project cost - \$624,900. Funding source – Bond.
3. **CONNELLY’S RUN INTERCEPTOR** – The 15,000’ of Connelly’s Run interceptor lines were originally constructed in 1984. Approximately 10,500 linear feet were replaced in 1999 to transport sanitary sewer flow from the Montgomery County Public Service Authority in the “177 corridor area.” Approximately 4,300 linear feet of sanitary sewer line would be installed from Bisset Park along Connelly’s Run to Rock Road to replace the existing 18"and 21"line. Project cost - \$920,000. Funding Source – G.O. Bond.
4. **BISSET PARK MODULAR RESTROOM** – A modular restroom would be provided at the third shelter in Bisset Park. Project cost - \$55,000. Funding source – General Fund.
10. **BIKEWAY/WALKWAY MODULAR RESTROOM** – A modular restroom would be provided at the old Police Department firing range to provide facilities to the eastern most portion of the Riverway. Project cost - \$55,000. Funding source – General Fund.
11. **BISSET PARK IMPROVEMENTS** – Funding would be provided to implement elements of the Bisset Park Masterplan. Items include expanded parking facilities, benches, tables, river access points and vistas. Project cost - \$100,000. Funding source – General Fund.

## Water System

1. **TRAVELING SCREENS** – The traveling screens at the Water Treatment Plant are used to prevent leaves and other large debris from entering the raw pump well. The existing screens would be refurbished from the intake to the tower. Project cost - \$200,000.
2. **WATER INTAKE PROJECT** – The 50-year-old facilities located at the edge of the New River, where water is drawn into the water treatment plant, would be replaced with new modern piping, screens and pumps. The intake would be placed further out in the channel of the river to improve water quality, and enhance resource reliability in times of drought conditions. Preliminary engineering completed in 2007. Project cost - \$1,400,000. Funding Source – Grant.
3. **WEST MAIN STREET – BERKLEY STREET TO FOURTH STREET** - feet of 4" water main. The estimated cost of this project would be \$22,000.00. Funding source –Water reserves.

## **2018/2019 PROJECTS**

### **APPENDIX C**

## **2018/2019**

# **PROJECT SUMMARIES**

1. **MISCELLANEOUS DRAINAGE PROJECT** - Design and construction of drainage improvements identified in the 1993 Facility Plan in various locations throughout the City. The improvements will/did prevent runoff damage to public and private properties. Project cost \$15,000.
  
2. **HYDRO ELECTRIC FACILITY** – The seventy-year-old hydroelectric facility owned by the City of Radford on the Little River was improved with new turbine and shaft, gate upgrades and technology improvements. Project Cost - \$2,704,614.