

Powhatan County
Adopted FY11-FY15
Capital Improvement Program

FY11-FY015 Adopted Powhatan County Capital Improvement Program

Introduction

The purpose of the Capital Improvement Program (CIP) is to provide a practical plan for the acquisition, development, enhancement or replacement of public facilities to serve the County's citizenry. The CIP is a realistic five-year program for implementing the capital priorities of the County within identified funding constraints. The programming of capital improvements aid in the efficient and effective provision of public facilities and services.

As opposed to operations and maintenance, capital projects require major expenditures for such items as public land, structures, utility systems, public safety vehicles and major equipment. Typically, these projects require funding through financing instruments such as general obligation bonds, long-term debt instruments, etc. Projects or programs that require a total commitment of less than \$5,000 and/or have a useful life of less than one year, are not normally included in the CIP.

The CIP is a critical component of the County's goal setting, budgeting, evaluating and reporting system as identified in the adopted budget. After final adoption by the Board of Supervisors, the CIP serves as a budget document and funding authorization for the first fiscal year of the program as well as a planning tool for the remaining four years of the five-year schedule. The County operates on a July 1 through June 30, fiscal year. The term "FY2010", for example, refers to the July 1, 2009 through June 30, 2010 fiscal year. The CIP is developed concurrently with the programs and activities that comprise the annual operating budget.

§15.2-2239, Code of Virginia, provides guidance to local governments on the Capital Improvement Programs:

§15.2-2239. Local Planning commissions to prepare and submit annually capital improvement programs to governing body or official charged with preparation of budget. – A local planning commission, may and at the direction of the governing body shall, prepare and revise annually a capital improvement program based on the comprehensive plan of the locality for a period not to exceed the ensuing five years. The commission shall submit the program annually to the governing body, or to the chief administrative officer or other official charged with the preparation of the budget for the locality, at such time as it or he shall direct. The capital improvement program shall include the commission's recommendations, and estimates of cost of the facilities and the means of financing them, to be undertaken in the ensuing fiscal year and in a period not to exceed the next four years, as the basis of the capital budget for the locality. In the preparation of its capital budget recommendations, the commission shall consult with the chief administrative officer or other executive head of the government of the locality, the heads of departments and interested citizens and organizations and shall hold such public hearings as it deems necessary.

Localities may use value engineering for any capital project. For purposes of this section, "value engineering" has the same meaning as that in §2.1-483.1:1 (Code 1950, §15-966: 1962, c.407, §15.1-464; 1975, c.641; 1976, c. 650; 1996, c.553; 1997, c.587.)

Capital Improvement Program Process

| | |
|----------|---|
| November | Targets are set and forms for each Department, Agency And Schools are distributed |
| December | Budget and Operating Requests due to Finance, Preliminary meeting with Board of Supervisors to discuss Priorities for upcoming budget development are held |
| January | County Administrator meetings are held with Departments to discuss Operating and CIP requests, the Planning Commission reviews the CIP |
| February | Board of Supervisor budget workshops continue, the Planning Commission reviews and recommends CIP approval to Board of Supervisors |
| March | The Public Hearings on Budget and CIP are held |
| April | The Budget and CIP are adopted |

The development of a Capital Improvement Program accomplishes the following:

- Establishes a system of annual examination and prioritization of County facility needs;
- Facilitates capital expenditure and revenue estimates and helps to avoid emergency financing methods;
- Provides a basis for the formulation of bond programs and other revenue producing measures;
- Provides focus on goals and objectives for the community;
- Assists with the implementation of the County's Comprehensive Plan;
- Facilitates better coordination between County departments in planning and implementing capital projects;
- Assists proper programming and project design as well as the development of appropriate project financing and construction schedules.

Powhatan County Adopted Capital Improvement Program

| <u>Division</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|---|---------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Subtotal General Government | \$0 | \$180,000 | \$0 | \$0 | \$10,373,243 | \$10,553,243 |
| Subtotal Judicial Administration | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Public Safety | \$6,705,000 | \$0 | \$250,000 | \$0 | \$0 | \$6,955,000 |
| Subtotal Public Works | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Health and Welfare | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Parks and Recreation | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Community Development | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Schools | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal Utilities | <u>\$4,374,211</u> | <u>\$0</u> | <u>\$0</u> | <u>\$0</u> | <u>\$0</u> | <u>\$4,374,211</u> |
| Total Funded Capital Improvement Program | \$11,079,211 | \$180,000 | \$250,000 | \$0 | \$10,373,243 | \$21,882,454 |
| Unfunded Requests | \$32,623,521 | \$30,243,732 | \$25,019,036 | \$37,795,703 | \$10,907,166 | \$136,589,158 |

General Government

County Administration

- Joint County/School Board Administration Building. This request would implement the recommendations from the Phase II facility study. This study which was complete during the calendar year 2009 provides a road map to accommodate existing staff/departmental needs, project the needs for future county growth and provide a plan of implementation. Operating impacts would include additional operating costs such as electricity, water, sewer, etc as necessary by increasing the amount of square footage space.

Facilities

- Joint Transportation Facility (Design and Pre-Construction Costs). This request would implement the recommendations from the Phase II facility study. This study which was completed during the calendar year 2008, provides a road map to accommodate existing staff/department needs, projects the needs for future county growth as well as provides a plan of implementation.

Registrar

- Voting Machines This request would fund replacement of the county's voting machines in FY12. This request has been submitted due to changing federal and state requirements regarding electronic voting machines. There is a potential for state and/or federal reimbursement but is not confirmed at this time.

Facilities

- Joint County and School Facility Maintenance Building . This study which was complete during the calendar year 2009 provides a road map to accommodate existing staff/departmental needs, project the needs for future county growth and provide a plan of implementation. Operating impacts would include additional operating costs such as electricity, water, sewer, etc as necessary by increasing the amount of square footage space.

General Government

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|---|-------------|--------------|-------------|-------------|--------------|-------------------|
| <u>Funded</u> | | | | | | |
| Phase II Facility Study | | | | | \$10,373,243 | \$10,373,243 |
| Joint Transportation Facility | | | | | | |
| Registrar | | \$180,000 | | | | \$180,000 |
| Replacement Voting Machines | | | | | | |
| Subtotal | \$0 | \$180,000 | \$0 | \$0 | \$10,373,243 | \$10,553,243 |
| <u>Unfunded</u> | | | | | | |
| Phase II Facility Study | \$2,000,000 | \$19,231,439 | | | | \$21,231,439 |
| Joint County and School Administration Building (Design and Pre-Construction Costs) | | | | | | |
| Facilities | \$2,182,483 | | | | | \$2,182,483 |
| Joint County and School Facility Maintenance Building | | | | | | |
| Subtotal General Government | \$4,182,483 | \$19,231,439 | \$0 | \$0 | \$0 | \$23,413,922 |

Judicial Administration

Judicial Administration

- Courthouse Renovations and Sally Port. This request would implement the recommendations from the Phase II facility study. This study which was completed during the calendar year 2008 provides a road map to accommodate existing staff/department needs, projects the needs for future county growth and provides a plan of implementation. Security issues have been identified through the space study and a previous security report. Recommendations were made to increase control and monitoring of building access, as well as to build a sally port for more secure arrival and departure of prisoners. The Judicial portion includes Courthouse Renovations and Addition in FY11.

Commonwealth's Attorney

- Commonwealth's Attorney Building Renovation. This request would implement the recommendations from the Phase II facility study. This study which was complete during the calendar year 2008 provides a road map to accommodate existing staff/departmental needs, projects the needs for future county growth and provides a plan of implementation. Operating impacts would include additional operating costs such as electricity, water, sewer, etc as necessary by increasing the amount of square footage space. The Commonwealth Attorney portion includes a Commonwealth Attorney Building in FY11.

Judicial Administration

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|---|------------------|-------------|-------------|-------------|-------------|-------------------|
| <u>Funded</u> | | | | | | |
| <u>Unfunded</u> | | | | | | |
| Facility Study Implementation | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Courthouse Sally Port and Security Upgrades | \$1,626,940 | | | | | \$1,626,940 |
| Facility Study Implementation | \$3,024,161 | | | | | \$3,024,161 |
| Courthouse Renovation and Addition | | | | | | |
| Commonwealth's Attorney Building Renovation | <u>\$442,747</u> | | | | | <u>\$442,747</u> |
| Subtotal Judicial Administration | \$5,093,848 | \$0 | \$0 | \$0 | \$0 | \$5,093,848 |

Public Safety

Emergency Management

- Public Safety Radio System Improvement. This project will provide the antennas and related equipment at three additional locations in order to improve the coverage of the emergency communications radio system used by the Powhatan County Fire, EMS, and Sheriff departments. This request will cover licensing, equipment buildings, electrical work, generators, and radio equipment that will be installed on existing towers located at Watkins Center, Bolling Road and the tower located in the Genito area.

Fire and Emergency Medical Services

- Fire Station for Company 2. This request is part of the Fire Department's 20-year Capital Outlay Plan. The plan would fund land acquisition, design and construction costs for the Company 2 Fire Station. The current fire station was built in the 1970's, and there is a shortage of space for the growing demands on this company. This station is the second busiest in the County, and the demands on this Company will continue to grow due to increased commercial, industrial and residential growth in this County.
- Replacement Engine #2. This request would fund the replacement purchase of a fire engine for Company #2 in FY10. The engine will be 22 years old if the replacement is completed in FY10.
- Improvements to Fire/EMS Station #1. The living space construction was reduced by almost 65% from its original construction plan making the current living space inadequate. The bunk rooms and day room are too small to accommodate a volunteer company much less the addition of career fire/EMS personnel in the future. The bay doors require frequent adjustments and repairs. The roof and walls are a constant source of water leaks and will delay our ability to establish a back up Emergency Communications Center at Station 1. Fire/EMS #1 is a critical facility to the delivery of Fire and Emergency medical services within the County.
- Ladder Truck. This request would fund the purchase of a ladder truck for the County in FY11. The ladder truck would enhance the Fire Department's ability to serve by providing an elevated water stream, allowing firefighters to work off the ladder instead of standing on roofs during fires and would earn the department points toward lowering our Insurance Services Office Rating. The ladder truck would far exceed our ground ladder capabilities that would allow the Fire Department to reach heights currently not accessible. Additionally, this request would fund the purchase of equipment for Tower ladder truck 100'. This request is part of the 20-year plan.
- Replacement Ambulance/Re-chassis Ambulance. This project would fund replacement ambulances and will replace the oldest units. The ambulances are type III and will be fully equipped for advanced lifesaving support. A replacement Ambulance is schedule for FY12. In addition, this request would fund the re-chassis of an existing ambulance. The useful life of existing chassis is 110,000 to 130,000 miles. If the modular box is in good shape, it is more cost effective to replace chassis than the ambulance. The ambulance is a type III and will be fully equipped for advanced lifesaving support. Re-chassis for FY09 was carried over to FY10. Re-chassis are scheduled for FY10 and FY11.
- Replacement EMS-4. This request would fund the replacement purchase of an EMS vehicle for Company #4 in FY11. The EMS vehicle will be 12 years old if the placement is completed in FY11. This request is part of a 12 year replacement schedule for EMS vehicles..

- Replacement Tanker #2. This request would fund the replacement purchase of a tanker for Company #2 in FY12. This tanker will be 24 years old if the replacement is completed in FY12. This request, would in addition, fund the replacement purchase of equipment for a fire tanker truck for Company #2 in FY12. The truck that will be replaced will be kept in service as a reserve piece and will retain equipment.
- Replacement EMS-1. This request would fund the replacement purchase of an EMS vehicle for Company #1 FY12. The EMS vehicle will be 12 years old if the placement is completed in FY12. This request is part of a 12 year replacement schedule for EMS vehicles.
- Additional Fire Station for Company 6. The county has been proffered land at Cosby/Maidens road area for a future fire station. Currently this is an area of the county that is most effected by the lack of a fire station within a 5 mile radius.
- Replacement Engine #6 . This request would fund the replacement purchase of a fire engine for Company #6. When station #6 opens, we will move a 20+-year-old engine to get service started. The life expectancy of fire apparatus in a rural community is approximately 20 years. This request would fund the purchase of equipment (hose, nozzles, breathing apparatus, thermal imaging camera, atmospheric monitor, hand-tools, EMS and extrication equipment) for Engine #6.
- Replacement Engine #3. When Engine #3 is replaced it will be 21 years old. This replacement will keep the fire department close to our 20 year apparatus replacement plan. It will allow us to update our apparatus with new technology and to bring this unit up to current NFPA standards.
- Replacement Rescue 2. This will be the first apparatus that Powhatan Fire and EMS will be replacing ahead of the 20 replacement schedule due to higher than expected maintenance costs and higher than expected mileage. This unit responds to all structure fires and vehicle accidents with entrapment in Powhatan.

Facility Study Implementation

- Public Safety Building. This request would implement the recommendations from the Phase II facility study. This study which was complete during the calendar year 2008 provides a road map to accommodate existing staff/departmental needs, project the needs for future county growth and provides a plan of implementation. Operating impacts would include additional operating costs such as electricity, water, sewer, etc as necessary by increasing the amount of square footage space. The Emergency Management portion includes a Public Safety Building in FY11. The Fire Station will be a combination station that will provide the Sheriff's office with a work space, the Powhatan Rescue Squad with a bay for 2 ambulances, and a work area and sleeping quarters. The building will have a large meeting room that will be open to the public. This building would house three vital functions for the County.
 - E-911. Based upon the ever increasing call volume in our E-911 center, within five to seven years, there will be a need to increase the number of call-takers and dispatchers on duty. There is no additional space to expand the existing dispatch office any further. There is no back-up communications center should something happen to the current office. It is the intent of this request to build a new center at a new location and leave a portion of the existing dispatch office in place to serve as a back-up communications center.
 - Emergency Operations Center. As detailed in the County's Emergency Operations Plan, when it becomes necessary to open a local Emergency Operations Center, a conference room that currently houses the Circuit Court Law Library is to be used. This library is located on the main level of the Courthouse building. This arrangement is inadequate to meet the needs for

the following reasons: lack of space, security, communications and computer equipment, survivability, and redundant communications.

- Sheriff's Department Patrol Office. The existing Sheriff's Department Office space for the Patrol deputies is inadequate for the number of deputies currently employed. As more deputies are added due to increased workload in the County, the problem will only get worse. By designing a patrol office that can be used as an EOC, many features such as a training room that becomes the main EOC, office cubicles that become office for EOC staff, etc. It can be shared to save space and cost.

Public Safety

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|--|------------------|-------------|-------------|-------------|-------------|-------------------|
| <u>Funded</u> | | | | | | |
| Emergency Management Services | \$500,000 | | \$250,000 | | | \$750,000 |
| Public Safety Radio System Improvement (three additional towers) | | | | | | |
| Fire and Emergency Medical Services | \$5,730,000 | | | | | \$5,730,000 |
| Huguenot Public Safety Building | | | | | | |
| Fire and Emergency Medical Services | <u>\$475,000</u> | | | | | <u>\$475,000</u> |
| Replacement Engine 2 | | | | | | |
| Subtotal | \$6,705,000 | \$0 | \$250,000 | \$0 | \$0 | \$6,955,000 |
| <u>Unfunded</u> | | | | | | |
| Fire and Emergency Medical Services | \$86,320 | \$1,130,680 | | | | \$1,229,000 |
| Improvements to Fire/EMS Station #1 | | | | | | |
| Fire and Emergency Medical Services | \$1,100,000 | | | | | \$1,100,000 |
| Ladder Truck | | | | | | |
| Fire and Emergency Medical Services | \$125,000 | \$145,000 | \$85,000 | \$95,000 | \$175,000 | \$625,000 |
| Replacement Ambulances/Re-chassis existing unit | | | | | | |
| Fire and Emergency Medical Services | \$75,000 | | | | | \$75,000 |
| Replacement EMS 4 | | | | | | |
| Fire and Emergency Medical Services | | \$575,000 | | | | \$575,000 |
| Replacement Tanker 2 | | | | | | |
| Fire and Emergency Medical Services | | \$79,000 | | | | \$79,000 |
| Replacement EMS 1 | | | | | | |
| Fire and Emergency Medical Services | | | \$500,000 | \$4,000,000 | | \$4,500,000 |
| Fire Station 6 | | | | | | |
| Fire and Emergency Medical Services | | | | \$625,000 | | \$625,000 |
| New Engine 6 plus equipment | | | | | | |
| Fire and Emergency Medical Services | | | | | \$525,000 | \$525,000 |
| Replacement Engine 3 | | | | | | |
| Fire and Emergency Medical Services | | | | | \$600,000 | \$600,000 |
| Replacement Rescue 2 | | | | | | |
| Facility Study Implementation | | | | | | |
| Public Safety Building | \$11,463,585 | | | | | \$11,463,585 |
| Subtotal Public Safety | \$12,861,905 | \$1,929,680 | \$585,000 | \$4,720,000 | \$1,300,000 | \$21,396,585 |

Public Works

Facilities Management

- Gatehouse and Site/Operation Improvements. This request will fund a gatehouse at the Convenience Center. The Gatehouse will house a safe and cash register. It will allow the gate house clerk to be out of the way of traffic and out of inclement weather.
- Replacement Modular Trailer. This request will fund the replacement of the current trailer at the Convenience Center with a more professional and energy efficient facility. It is one of the more visible County facilities and is seen by the public every day of the week.
- Second Convenience Center Site. This request would fund an additional convenience center in the County. The existing convenience center, on Mitchell Road, received 8,000 tons of solid waste in 2005. It is projected that the County will receive 10,000 tons per year by 2009. The existing facility is running at maximum capacity at this time. Demands for recycling continue to increase and more space is needed for additional bins. Re-cycling may become mandatory, resulting in the need for additional bins. Traffic at the existing site is backing up during heavy use periods. A second site will also provide a back-up in case the primary site goes out of service unexpectedly or for maintenance.

Public Works

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|--|-----------------|------------------|------------------|--------------------|-------------|--------------------|
| <u>Funded</u> | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Unfunded</u> | | | | | | |
| Convenience Center Gatehouse and Site/Operation Improvements | \$20,000 | | | | | \$20,000 |
| Convenience Center Modular Office | \$35,000 | | | | | \$35,000 |
| Convenience Center Second Convenience Center Site | <u>\$18,000</u> | <u>\$400,000</u> | <u>\$496,000</u> | <u>\$1,600,000</u> | | <u>\$2,514,000</u> |
| Subtotal Public Works | \$73,000 | \$400,000 | \$496,000 | \$1,600,000 | \$0 | \$2,569,000 |

Health and Welfare

Historical Society Building

- Historical Society Building. This request would implement the recommendations from the Phase II facility study in FY11.

Welcome Center

- Welcome Center. This request would implement the recommendations from the Phase II facility study in FY11.

Village Building Renovations

- Old Magistrate's Office Building Renovations. This request would implement the recommendations from the Phase II facility study in FY11.

Human Services Building Renovations

- Human Services Building Renovations. This request would implement the recommendations from the Phase II facility study in FY11.

Health and Welfare

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|-------------------------------|---------------------|-------------|-------------|-------------|-------------|---------------------|
| <u>Funded</u> | | | | | | |
| <u>Unfunded</u> | | | | | | |
| Facility Study Implementation | \$ 158,024 | | | | | \$ 158,024 |
| Facility Study Implementation | \$ 160,965 | | | | | \$ 160,965 |
| Facility Study Implementation | \$ 884,704 | | | | | \$ 884,704 |
| Facility Study Implementation | <u>\$ 2,908,771</u> | | | | | <u>\$ 2,908,771</u> |
| Subtotal Health and Welfare | \$ 4,112,464 | \$ 0 | \$ 0 | \$ 0 | \$ 0 | \$ 4,112,464 |

Parks and Recreation

Parks and Recreation

- Welcome Center. This request would implement the recommendations from the Phase II facility study in FY11.
- Fighting Creek Park Trail Extension and Improvement Project:
 - One Ton Dump Body Truck. Parks & Recreation needs to have the ability to haul and pick up materials for daily maintenance. A second vehicle will enable staff to divide tasks.
 - Fighting Creek Park Walking Trails. Repair walking surface of Park Walking Trails to correct erosion problems.
 - Fighting Creek Park Maintenance Building. This project would fund a maintenance building to house tractors, equipment and tools for the maintenance of Fighting Creek Park's new ball fields, common areas, playground, soccer fields, walking trails and picnic areas.
- Fighting Creek Park Expansion Phase #3. This project would complete Phase III of Fighting Creek Park which would construct the Softball, Soccer and All Purpose fields. With the continual increase of our youth and adult user groups in the County, the third phase of the park will be greatly needed to keep up with the increasing demands for recreation and field space.
- Soccer Fields with Concession at Appomattox Trace. Approximately six acres has been proffered for athletic facilities in this subdivision. The number of soccer teams and demand for field time has increased over time, creating a need for new fields. The grass on the existing fields is showing increased wear from less recovery time.

Library

- Library Expansion Study. In order to improve and increase services at current facility, the library must expand. This project would be funded over FY10 and FY11 and would provide additional space so that additional services can be provided to the public. This request would fund the expansion of shelving in the adult section of the library as well as fund the lighting renovation in the Adult Collection area due to inadequate illumination.

Parks and Recreation

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------------|
| <u>Funded</u> | | | | | | |
| <u>Unfunded</u> | | | | | | |
| Facility Study Implementation | \$29,121 | | | | | \$29,121 |
| Facilities | \$135,000 | | | | | \$135,000 |
| Parks and Recreation | | \$4,500,000 | | | | \$4,500,000 |
| Parks and Recreation | | | \$425,000 | | | \$425,000 |
| Library | \$19,700 | | | | | \$19,700 |
| Subtotal Parks and Recreation | \$183,821 | \$0 | \$425,000 | \$4,500,000 | \$0 | \$5,108,821 |

Community Development

- No requests at this time

Community Development

Department

No requests at this time

FY11

FY12

FY13

FY14

FY15

Total Cost

Subtotal Community Development

Schools

Powhatan County Public Schools

- See attached documentation.

Schools

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|-------------------|--------------------|-------------|--------------|--------------------|-------------|--------------------|
| <u>Funded</u> | | | | | | |
| <u>Unfunded</u> | | | | | | |
| Schools | \$870,000 | \$549,500 | \$549,500 | \$549,500 | \$549,500 | \$3,068,000 |
| Schools | \$125,000 | \$125,000 | \$125,000 | \$125,000 | \$125,000 | \$625,000 |
| Schools | | \$700,000 | | | | \$700,000 |
| Schools | | \$2,473,113 | \$16,428,536 | \$16,428,537 | | \$35,330,186 |
| Schools | <u>\$2,250,000</u> | | | <u>\$2,500,000</u> | | <u>\$4,750,000</u> |
| Subtotal Schools | \$3,245,000 | \$3,847,613 | \$17,103,036 | \$19,603,037 | \$674,500 | \$44,473,186 |

Utilities

- Eastern Route 60 Utilities
 - Flat Rock Water and Force Main Extension. This project is necessary to increase commercial development along Route 60.

- Water Capacity
 - Joint Permit Application for Construction of Cobbs Creek Reservoir
 - Raw Water Main from James River Intake to Water Treatment Facility. This infrastructure is needed to convey raw water from the James River to the Water Treatment Facility in preparation for expansion of the County's water supply.
 - James River Water Withdrawal Permit. This permit must be secured as preparation for expansion of the County's water supply.
 - James River Water Treatment Facility. A water treatment facility is necessary to treat raw water from the James River to serve an increasing number of customers and provide for an expansion of the County's water supply.
 - Water Transmission Main. A large diameter water transmission main is necessary to transport potable water along Route 60 and to connect the water treatment plant with existing water infrastructure. This is in preparation for expansion of the County's water supply to meet a growing demand.
 - New .5 MG Elevated Tank in Courthouse Area. To provide ample pressure for fire and domestic flow, as well as serve as storage capacity, to supply growing water demand.
 - Courthouse Area Water Improvements. Improvements are necessary to supply growing water demand.

- Wastewater Capacity
 - Fighting Creek Wastewater Collection System
 - Generator for Middle School Pump Station. This generator is needed to handle the Middle and Elementary School pump station, the first pump station that we have in the Fighting Creek wastewater collection system. When it loses power during storm events, the station fills up with sewage and could potentially back up through the pipes or spill out onto the ground. According to the Health Department we are required to have an emergency power back-up able to maintain operation for at least 72 hours
 - Fighting Creek Sewer Collection System – Inflow and Infiltration Repairs. This project is necessary to reduce inflow and infiltration from storm water within the sewer collection system in order to improve performance at the Fighting Creek WWTP. A study by *O'Brien and Gere* has identified sources and generated a repair estimate.
 - Storage Building. This building is needed to store chemicals, supplies, and equipment needed to run the daily operation of two wastewater plants and a water system. The plant uses large amounts of chemicals and we have to order in large amounts. A secure facility is needed to store them.
 - Sludge tank 5 year air-diffuser replacement – Fighting Creek WWTP. This work is required to be done in the tank every 5 years so the tank operates to the best of its ability. The diffusers are required to be changed because the fine holes in the membranes expand

over time and distribute air unevenly throughout the tank. This will also cause the blower to overwork and use more electricity.

- Upgrades to Dutoy Creek Wastewater Treatment Plant. Outfall relocation is planned to occur as a part of a facility upgrade, projected and identified in the CIP in FY11. The actual alignment of this outfall extension should be decided prior to FY11 as it will likely take a considerable amount of time to secure the easements necessary for this extension. Until the alignment is determined, it is difficult to determine the estimated cost for easement acquisition. The capacity of the wastewater treatment plant will need to be increased to 0.5 MGD as water use approaches the available water system capacity of 0.572 MGD.

Utilities

| <u>Department</u> | <u>FY11</u> | <u>FY12</u> | <u>FY13</u> | <u>FY14</u> | <u>FY15</u> | <u>Total Cost</u> |
|---|-------------|-------------|-------------|-------------|-------------|-------------------|
| <u>Funded</u> | | | | | | |
| Utilities | \$4,374,211 | | | | | \$4,374,211 |
| Fiat Rock Water and Force Main Extension | \$4,374,211 | \$0 | \$0 | \$0 | \$0 | \$4,374,211 |
| <u>Unfunded</u> | | | | | | |
| Utilities | \$226,000 | | | | | \$226,000 |
| James River Water Withdrawal Permit | \$226,000 | | | | | \$226,000 |
| Utilities | \$70,000 | | | | | \$70,000 |
| Generator for Middle School Pump Station | \$70,000 | | | | | \$70,000 |
| Utilities | \$175,000 | | | | | \$175,000 |
| Storage Building | \$175,000 | | | | | \$175,000 |
| Utilities | \$660,000 | \$660,000 | | | | \$1,320,000 |
| Upgrades to Fighting Creek Wastewater Treatment Plant - Phase I Expansion | \$660,000 | \$660,000 | | | | \$1,320,000 |
| Utilities | \$175,000 | | | | | \$175,000 |
| Upgrades to Fighting Creek Wastewater Treatment Plant - Influent Treatment System | \$175,000 | | | | | \$175,000 |
| Utilities | | \$840,000 | | | \$1,680,000 | \$2,520,000 |
| Raw Water Main | | \$840,000 | | | \$1,680,000 | \$2,520,000 |
| Utilities | | \$720,000 | | | \$1,440,000 | \$2,160,000 |
| Water Treatment Facility | | \$720,000 | | | \$1,440,000 | \$2,160,000 |
| Utilities | | \$1,750,000 | \$1,750,000 | | \$1,750,000 | \$5,250,000 |
| Water Transmission Main | | \$1,750,000 | \$1,750,000 | | \$1,750,000 | \$5,250,000 |
| Utilities | \$400,000 | \$2,000,000 | | | | \$2,400,000 |
| Courthouse Area Water Improvements | \$400,000 | \$2,000,000 | | | | \$2,400,000 |
| Utilities | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$10,000,000 |
| Regional Water Supply Project | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$10,000,000 |
| Utilities | | \$2,000,000 | | | | \$2,000,000 |
| Elevated Water Storage Tank in Courthouse Area | | \$2,000,000 | | | | \$2,000,000 |
| Utilities | | \$837,666 | | \$837,666 | \$837,666 | \$1,675,332 |
| James River Intake and Pump Station | | \$837,666 | | \$837,666 | \$837,666 | \$1,675,332 |
| Utilities | | \$850,000 | | \$850,000 | \$850,000 | \$1,700,000 |
| Middle Corridor Sanitary Force Main | | \$850,000 | | \$850,000 | \$850,000 | \$1,700,000 |
| Utilities | | \$375,000 | | \$375,000 | \$375,000 | \$750,000 |
| New Pump Station in Middle Corridor | | \$375,000 | | \$375,000 | \$375,000 | \$750,000 |
| Subtotal Utilities | \$2,871,000 | \$4,835,000 | \$6,410,000 | \$7,372,666 | \$8,932,666 | \$30,421,332 |